



MS 2000 Series Operational Configuration

This NTP contains the operational configuration procedures that are performed for the Nortel Media Server 2000 Series (MS 2000 Series) and the Audio Provisioning Server (APS). These procedures are listed in tables shown in the section, [MS 2000 Series and APS Configuration management procedures on page 22](#).

MS 2000 Series operational configuration

The MS 2000 Series is initially configured at the time that it is installed or upgraded. If it is necessary to change the configuration, that task can be performed through two different tools. One tool, called the “MS 2000 Series Configuration Tool”, is an interactive user interface performed at the command line. The tool is accessed through a telnet connection to the CS 2000 Management Tool. The second tool is an “embedded web server” utility, resident on each MS 2000 Series node. An MS 2000 Series embedded web server utility is accessed through any standard web browser, such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).

Note: The Universal Audio Server Manager cannot be used for configuration or maintenance of the MS 2000 Series.

MS 2000 Series Configuration Tool

This tool, also known as the “MS 2000 Series CLUI”, is the primary tool used for normal MS 2000 Series configuration activities. The tool enables you to:

- list all MS 2000 Series nodes defined in the SESM (Succession Element and Sub-Network Manager) database. The MS 2000 Series Configuration Tool is accessed through the CS 2000 Management Tool. The initialization (INI) file, which contains the basic configuration parameters defined for a node, and CMP file, which contains the MS 2000 Series software loads, reside on the CS 2000 Management Tool. The information displayed for each

node includes the IP address of the node, the name of the node, and the name of the Gateway Controller (GWC) hosting the node.

- display the configuration of an MS 2000 Series node
- configure automated backup of MS 2000 Series INI files. An automated daily backup can be configured for all MS 2000 Series nodes. The five most recent versions of the INI files for each node are stored on the CS 2000 Management Tool. The most recent version of the INI for each of the MS 2000 Series nodes is stored on the BootP server, located on the SDM.
- change the MS 2000 Series login user names and passwords
- manually back up MS 2000 Series INI files
- request a soft reset of an MS 2000 Series node
- lock or unlock an MS 2000 Series node. Gracefully locking a node ensures that active calls complete before the node is taken out of service.
- change configuration parameters for an MS 2000 Series node. The parameters that can be changed are shown in the following table.

Configuration parameter	Function and/or possible settings
Is a Megaco Call Agent Used	Determines whether a MEGACO Call Agent is used
Megaco Call Agent IP address	IP address of the Gateway Controller
Number of conference ports	0 through 120
Number of test trunk ports	0 through 120
Number of lawful intercept ports	0 through 120
Number of announcement ports	0 through 120
Primary database server IP address	Audio Provisioning Server (APS) IP address and port
Primary language	Language used for audio announcements. Since the CS 2000 processes calls with “primary” and “secondary” languages, the MS 2000 Series must know what language is being referred to in the “primary” language designation sent by the CS 2000. This is one of the ISO 639/T language codes plus UAS extensions.

Configuration parameter	Function and/or possible settings
Secondary language	Language used for audio announcements. Since the CS 2000 processes calls with “primary” and “secondary” languages, the MS 2000 Series must know what language is being referred to in the “secondary” language designation sent by the CS 2000. This is one of the ISO 639/T language codes plus UAS extensions.
Syslog server IP address	IP address of the server on which syslog will be recorded
AMS Profile	0 = MS 2000 Series audio disabled; 1 = MS 2000 Series audio enabled. The AMS Profile setting determines whether MS 2000 Series software is enabled for announcements. If the profile is set to 0, no audio can be provisioned from the APS to the MS 2000 Series node and announcements cannot be played. If the profile is set to 1, audio can be provisioned to the MS 2000 Series node and announcements can be played. The setting would be “0” for a conference-only MS 2000 Series node.
SNMP trap manager IP	IP address to which SNMP traps are forwarded
Is trap manager used?	Determines whether the configured SNMP trap manager is used.

Note: When you have changed any of the configuration parameters shown in the table above, you must execute a soft reset, through the MS 2000 Series Configuration Tool, in order to burn the new configuration parameters into flash memory on the nodes and to activate the new configuration parameters.

When you have accessed the MS 2000 Series Configuration Tool, you are presented with a main menu of tasks from which to select. When you have entered the number corresponding to the task you wish to perform, you are then presented either with lists of additional options from which to select or with prompts for information input.

Access to the MS 2000 Series Configuration Tool is password-protected.

Embedded web server utility

An embedded web server is accessible for each MS 2000 Series node. It serves as an emergency access interface, and is used only when the MS 2000 Series Configuration Tool is unavailable. To access the

embedded web server, you enter the IP address of the node in the address field of a web browser of your choice. Access to the embedded web server utility is password-protected.

The embedded web server utility enables you to perform the following tasks:

- modify information for IP configuration used with the MS 2000 Series
- modify IP settings, logging settings, SNMP settings, and Ethernet ports information
- change configuration file (INI) parameters
- modify MS 2000 Series node call progress tones
- modify MS 2000 Series node system date and time
- change the login access for the embedded web server utility
- check version information for an MS 2000 Series node
- perform software updates to an MS 2000 Series node
- save configuration information to IPM-1610 board flash memory
- reset the IPM-1610 board

APS operational configuration

APS operational configuration is performed through the APS GUI. There are two major components of the APS GUI: the “Administration” function and the “Audio Management” function.

APS GUI Administration function

The APS Administration GUI provides a tool for managing administrative objects in the APS used for distribution of audio segments to one or more MS 2000 Series nodes. The APS Administration GUI also provides a tool for managing selector types and selector values defined by the administrator.

Managing administrative objects

The administrative objects in the APS database are used for distribution of audio segments to one or more MS 2000 Series nodes. These administrative objects include:

- *user*, which represents a user of the APS GUI. Users have an ID and password that permit them to gain secure access to the APS GUI. Users may also be granted special permissions to provide them access to different screens and associated tasks in the APS GUI. “admin” permission grants the user access to the administration, audio management, selector management, and change password

screens. “Audio management” permission grants the user access to the audio management, selector management, and change password screens.

Note: The “admin” user is the only user login available after the APS is first installed. The admin user subsequently adds other users to the system.

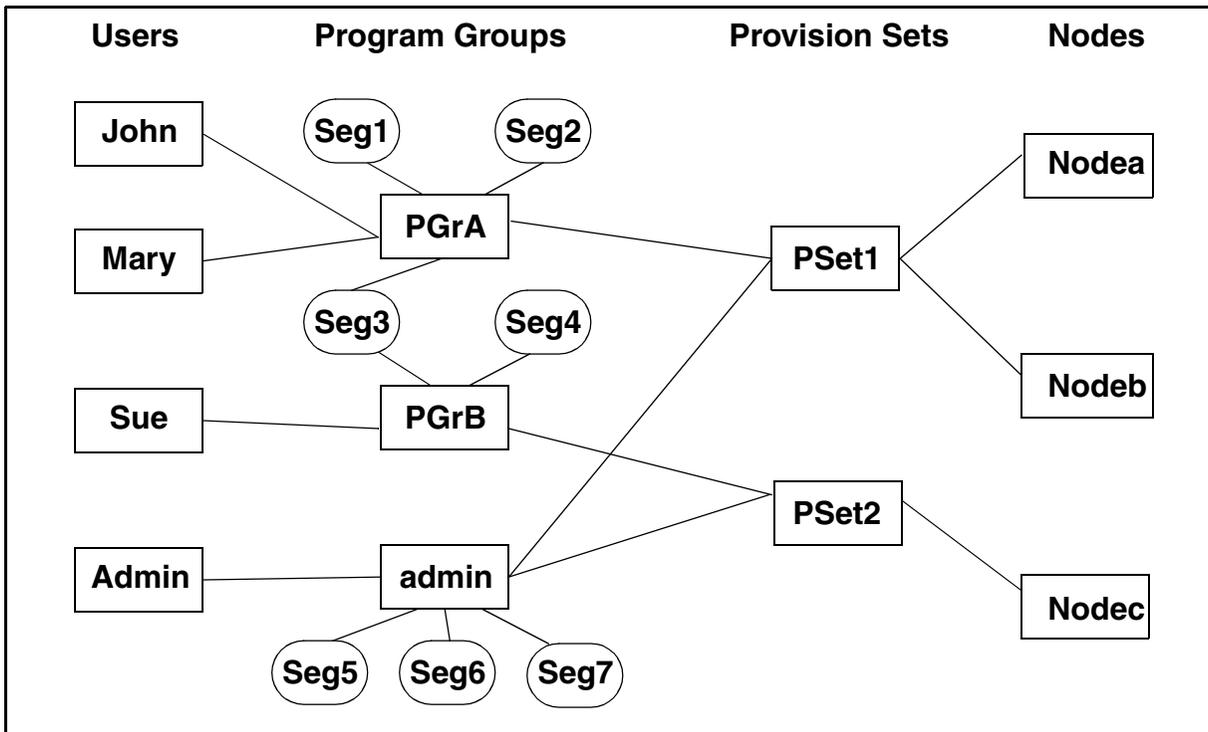
- *program group*, which is a logical grouping of users and audio segments. When a user creates an audio segment in the APS database, the audio segment is automatically associated with the active program group with which the user is associated. A segment can also be manually added to one or more program groups.

Note: The “admin” program group, which contains the admin user, is the only program group available after the APS is first installed. Thus, the admin user must, initially, create any other users and program groups that may be needed after installation.

- *node*, which represents an MS 2000 Series node to which audio can be distributed. Each node has a unique hostname and IP address by which it is known on the network. Each node can be associated with only one provision set.
- *provision set*, which is a logical relationship between one or more program groups and one or more MS 2000 Series nodes. This relationship determines the audio that can be distributed to an MS 2000 Series node. Segments are distributed to a node if the node is associated, in a provision set, with a program group containing the segments.

An example of the relationship between these administrative objects is illustrated in the following illustration.

Sample relationship between Administrative Objects



In this example, the segments (Seg1, Seg2, Seg3, Seg5, Seg6, and Seg7) contained in the program groups (PGrA and PGrB) associated with provision set PSet1 can be distributed to nodes a and b. The segments (Seg3, Seg4, Seg5, Seg6, and Seg7) contained in the program groups (PGrB and admin) associated with provision set PSet2 can be distributed to node c.

The data that a user is able to view on the Audio Management GUI screen is determined by the program group chosen by the user for the current updating session. If a user is associated with only one program group, that program group is automatically chosen as the active program group for the user. Thus, in the example shown, during an audio management updating session, John and Mary will have access to segments Seg1, Seg2, and Seg3, Sue will have access to segments Seg3 and Seg4, and the admin user will have access to segments Seg5, Seg6, and Seg7.

The following table shows possible operations that can be performed on these administrative objects through the Administration GUI.

Administration operations (Sheet 1 of 2)

Operation	User	Program Group	Provision Set	Node	Selector Types	Selector Values
Create	x	x	x	x	x	x
Delete	x	x	x	x	x	x
Add user		x				
Cut user		x				
Add segment		x				
Cut segment		x				
Add program group			x			
Cut program group			x			
Add provision set				x		
Cut provision set				x		
Add selector value					x	
Cut selector value					x	

Administration operations (Sheet 2 of 2)

Operation	User	Program Group	Provision Set	Node	Selector Types	Selector Values
Edit properties	x	x	x	x		x
Find reference to	x	x	x		x	x

Managing Selector Types and Selector Values

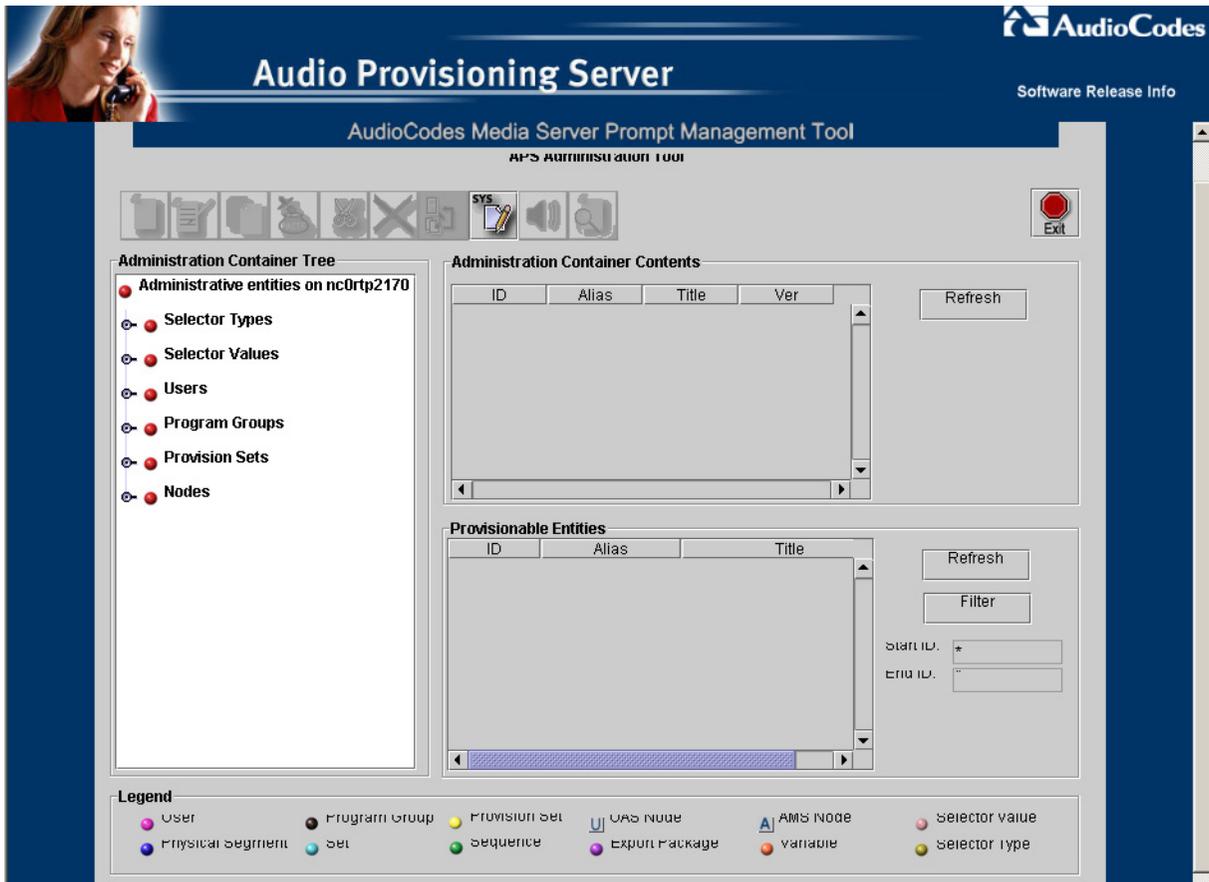
Selector Types and Selector Values are used for audio set definition and are used also during call processing in conjunction with audio variables and language versions. The APS Administration GUI enables you to manage selector types and selector values that you have added when you require selector types and selector values other than those installed with the system.

Note: Selector Types and Selector Values used for call processing cannot be changed through the APS Administration GUI. Attempting to make changes to these entities will cause an error.

APS GUI Administration function screen

The Administration Tool screen is shown in the following illustration.

Administration Tool screen



Tool bar menu buttons

This section describes tool bar menu buttons on the Administration screen.

The **New** button enables you to create new users, program groups, provision sets, or nodes.

The **Edit** button is used for editing the properties of users, program groups, provision sets, or nodes.

The **Copy** button enables you to copy a user, program group, or provision set to the clipboard.

The **Paste** button pastes a copied user, program group, provision set, or node to the location you have indicated.

You use the **Cut** button to cut (remove) a user, program group, or provision set association with another entity.

The **Delete** button deletes a user, program group, provision set, or node from the database.

The **Provision Node** button enables you to manually start provisioning to an MS 2000 Series node.

The **Edit System Parameters** button enables you to change the system parameters in the database.

The **Play** button enables you to hear the audio file associated with a physical segment.

The **Find Reference To** button finds all references to a specified administration or provisionable entity.

The **Exit** button exits you from the Administration Tool screen.

Panel descriptions

This section describes the Administration screen panels and associated buttons.

The *Administration Container Tree* panel contains Administrative Entities folders and the contents of the folders. Clicking on the “handle” icon located next to each of the Administration Container Tree folders enables you to “expand,” or show, the contents of the folder.

The *Audio Container Contents* panel contains the Contents table, which displays the contents of the currently selected administrative entity in the Administration Container Tree. The Refresh button updates the Contents table with the latest elements from the database.

The *Provisionable Entities* panel contains a table which displays packages or audio segments, depending on the filter setting. The Refresh button updates the display table with the latest audio segments or package IDs in the database. The Filter button opens the Audio Segments Filter Dialog window, which allows the user to specify either audio segments only or packages only. The Start ID and End ID fields contain the range of audio segment or package IDs that will be displayed. The default is *, which includes all the audio segments or packages in the database.

The *Legend* panel associates the node handle color with the administrative or provisionable entity.

APS GUI Audio Management function

The APS Audio Management GUI is used for managing provisionable audio entities stored in the APS database. These provisionable entities fall into two distinct groups, *audio segments* and *export packages*. Audio segments are individual audio recordings played from the MS 2000 Series node. Export packages are containers for sets of audio segments that are played locally from a gateway rather than from an MS 2000 Series node. Segments and packages each have their own range of IDs. The segment IDs, which users can specify when creating segments, range from 1 through 4286578687. Export package IDs, which are automatically assigned by the APS, range from 1 through 4294967295.

Audio Segments

Four types of audio segments are managed through the Audio Management GUI:

- *physical segment*, which is the simplest type of audio. A physical segment is a single audio file stored in the database. The text of the audio file can be as simple as a single character or as complex as multiple sentences.
- *audio set*, which associates a group of related segment types. Only one of the segments in the audio set is played during an announcement, as determined by the selector value assigned in the call processing message. If a selector value is not assigned, the default value assigned during the provisioning of the set is used. Audio sets can contain any of the four segment types, physical segments, audio sequences, audio variables, or other audio sets.
- *audio sequence*, which associates several segment types that are to be played in a specified order. The play order is determined during provisioning of the audio sequence. Audio sequences can contain any of the four segment types, physical segments, audio sets, audio variables, or other audio sequences.
- *audio variable*, which specifies a variable audio segment whose content is not determined until runtime. Audio variables are used in conjunction with language versions. Thus, the appropriate language version of an audio variable is supplied when an audio set or audio sequence containing the audio variable is played.

Note: Although the APS supports sophisticated audio provisioning capabilities such as embedding audio variables in an announcement, these capabilities may not be supported by the CS 2000 call server. Thus, before attempting to employ these sophisticated audio capabilities, you should check with your network support manager.

Export Packages

Export packages are created for frequently-played audio that can be played more efficiently at a gateway than from the MS 2000 Series node. When an audio export package is then exported, using the APS export tool, the following three files are created:

- an audio file that contains all the audio for all segments selected
- an index file that provides all the necessary information to play each audio segment
- a catalog file that contains the ancillary information from the database such as the prompt text, title, voice talent, and date recorded

These files are then distributed, using the APS distribution function, to any specified network nodes for use. Although the receiving gateway needs to know the file format, it does not need to know any details about the contents of the exported package. This provides error free provisioning based upon the APS/IPS database, guaranteeing network-wide consistency in audio identifiers. As a result, the same specific prompt is played in response to a service engine request placed to any node in the network.

To accurately identify an export package, the package must be assigned a “package format version.” This tells the gateway what types of segments the package contains and the format of the index file and catalog file. There are three format versions available:

- Package format version 2.1a contains only physical segments with IDs in the range of 1–9999 and an index file that references each segment with a 4 digit ASCII ID.
- Package format version 2.1b contains physical segments with IDs in the range of 1–4294967295 and an index file that references each segment by a 10 character alphanumeric alias.
- Package format version 3.0a contains physical segments and simple audio sets with IDs in the range of 1–4294967295. Simple audio sets are sets that contain only physical segments. Similar to package format version 2.1b, the index file references each segment by a 10–character alphanumeric alias.

The index file in an export package provides all of the necessary information required in order to play each audio segment. The version 3.0a package format index file contains the following records:

- package format version (for example, 2.1a, 2.1b, 3.0a) - It is important to note that, although package formats are not backwards-compatible with previous APS releases, the latest APS

release does support earlier versions of package formats (for example, APS06 supports package format versions 2.1a, 2.1b, and 3.0a).

- information record for each audio segment in the package, containing the following fields:
 - *segment ID*, which contains the alias of the physical segment
 - *provisionable entity type*, which defines the type of the audio segment contained in the package, including “physical segment,” “audio set,” “audio sequence,” “audio variable.”
 - for physical segments, the remaining fields are:
 - *package ID*, which contains the ID of the package used to generate the index file. The package ID, in combination with the package version and the file identification extension, “.aud” identifies the export audio file containing the audio segment.
 - *package version*, which contains the version number of the package used to generate the index file
 - *offset*, which is the starting offset for playing the audio segment, indicating the number of bytes from the start of the source file
 - *length*, which is the length, in bytes, of the audio segment
 - *segment format*, which indicates the format required in order for the audio to be played, for example, mulaw, alaw, MP3
 - *checksum*, which is used to ensure synchronization between the record in this index file, the associated record in the catalog file, and the actual audio file used
 - for audio sets, the remaining fields are:
 - *set type*, which identifies the type of the set and dictates the domain of valid selector values that can be associated with the elements of the set. This information maps to selector types in the APS database and is, thus, useful for debugging purposes.
 - *default selector value*, which identifies the set element that is to be played as the default audio segment, when necessary. This value maps to one of the selector values associated with the set type in the APS database.
 - *number of set elements*, which identifies how many set elements are contained in the set.
 - *selector value for set element*, which uniquely identifies an audio segment as an element of the set. The same selector

value cannot be referenced twice in the same set. This value maps to one of the selector values associated with the set type in the APS database.

- *segment ID for set element*, which contains the alias of the audio segment.
- for audio sequences, the remaining fields are:
 - *number of sequence elements*, which identifies how many sequence elements are contained in the sequence.
 - *segment ID for set element*, which contains the alias of the audio segment.
- for audio variables, the remaining fields are:
 - *variable type*, which identifies the type of the variable, such as “Silence,” “Duration,” “Date,” “Time,” and “Weekday.”
 - *variable subtype*, which identifies the subtype of the variable, if one exists. The subtype is determined by the type of variable. For example, if the variable type is “Time,” the valid subtypes are “12-hour time” and “24-hour time.”
 - *default language*, which specifies the default language in which the variable will be spoken if another language is not specified at run-time.
 - *provisioned variable value*, which contains the provisioned variable value, if one exists.

The audio segment file is comprised of three sections: the first contains the number of audio segments stored in the file; the second contains checksum values (which must match the checksum values in the index file) for all of the audio segments stored in the file; the third contains the actual audio, stored as contiguous audio segments.

The audio catalog file documents each audio segment in the export package. The version 3.0a package format catalog file contains the following fields for each audio segment:

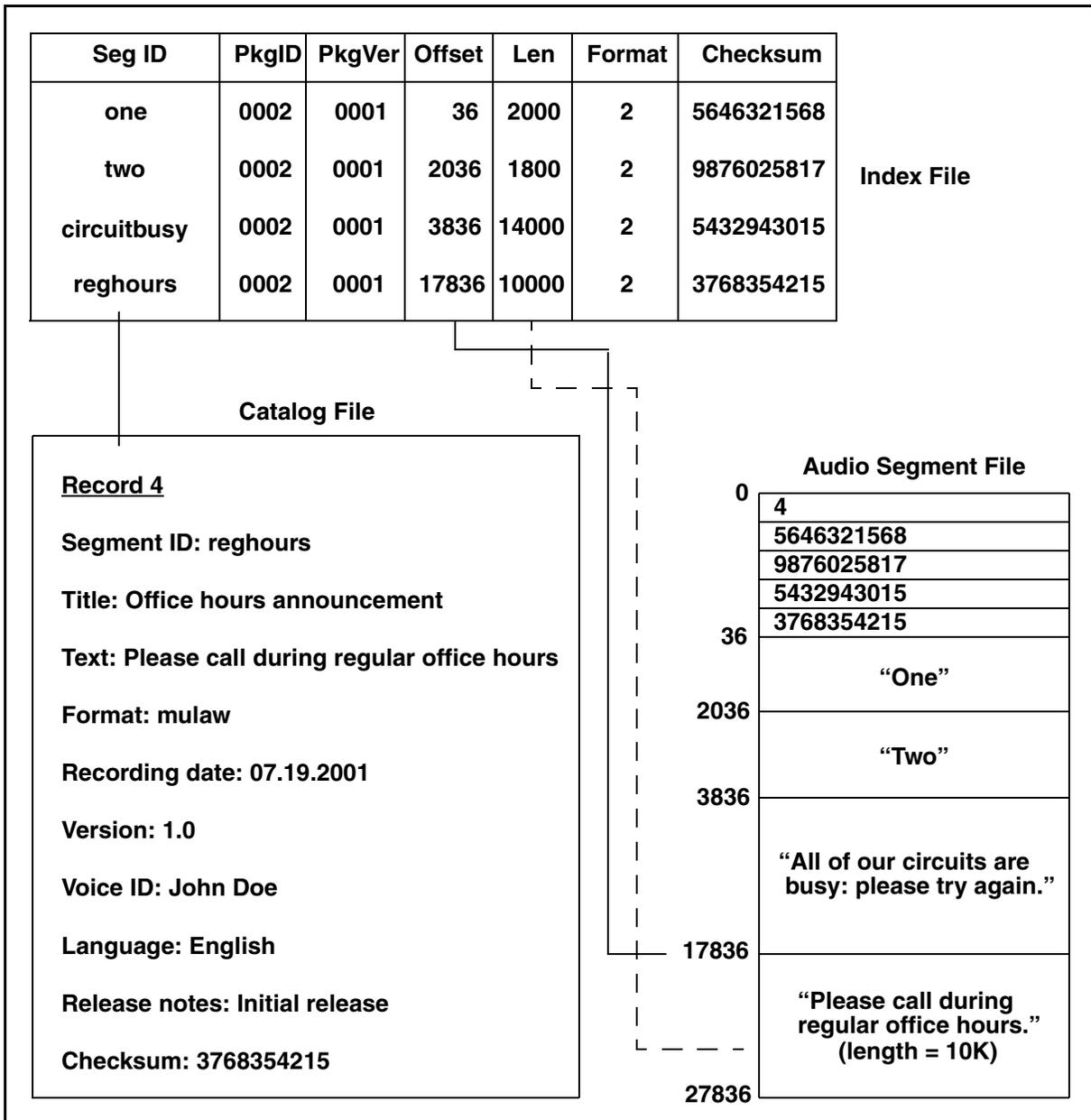
- *segment ID* - the same segment ID found in the index file
- *provisionable entity type* - which defines the type of the audio segment contained in the package, including “physical segment,” “audio set,” “audio sequence,” “audio variable.”
 - for physical segments, the remaining fields are:
 - *title*, which is a short phrase that describes the audio segment
 - *text*, which is a word or phrase contained in the audio segment
 - *format*, which is the same format information found in the index file
 - *recording date*, which is the date on which the segment was recorded
 - *version*, which is an identifier used to track multiple versions of the same audio segment
 - *voice identifier*, which is the voice talent for the audio
 - *language*, which is the language of the audio segment (for example, English)
 - *release notes*, which is an additional field that can be used to document the version of the audio
 - *checksum*, which is the same checksum value stored in the “index” and “audio segment” files, used for synchronization purposes
 - for audio sets, the remaining fields are:
 - *title*, which is a short phrase that describes the audio segment
 - *text*, which is a word or phrase contained in the audio segment
 - *version*, which is an identifier used to track multiple versions of the same audio segment
 - *release notes*, which is an additional field that can be used to document the version of the audio
 - *set type*, which is the type of the set and domain of valid selector values that can be associated with the set elements
 - *default selector type*, which is the selector value that

- identifies the default set element in the set
- *number of elements*, which is the number of set elements in the set
- *selector value for set element*, which is the selector value that uniquely identifies one of the set elements
- *identifier for set element*, which is the segment ID
- *title for set element*, which is a short phrase describing the segment
- for audio sequences, the remaining fields are:
 - *title*, which is a short phrase that describes the audio segment
 - *text*, which is a word or phrase contained in the audio segment
 - *version*, which is an identifier used to track multiple versions of the same audio segment
 - *release notes*, which is an additional field that can be used to document the version of the audio
 - *number of elements*, which is the number of elements in the sequence
 - *identifier for sequence element*, which is the segment ID
 - *title for sequence element*, which is a short phrase describing the segment
- for audio variables, the remaining fields are:
 - *title*, which is a short phrase that describes the audio segment
 - *text*, which is a word or phrase contained in the audio segment
 - *version*, which is an identifier used to track multiple versions of the same audio segment
 - *release notes*, which is an additional field that can be used to document the version of the audio
 - *variable type*, which is the type of the variable
 - *variable subtype*, which is the subtype of the variable, if one exists
 - *default language*, which is the language in which the variable is to be spoken if another language is not specified at run-time

- *provisioned variable value*, which is the provisioned value of the variable, if one exists

The basic relationship between the index file, audio file, and catalog file is depicted in the following illustration. The sample shown in this illustration also illustrates how the system performs the audio that you provision using the audio provisioning GUI.

Package Format 3.0a sample Index, Audio Segment, and Catalog Files



Audio Management GUI operations

The following table shows possible operations that can be performed on audio provisionable entities through the Audio Management GUI. The data that a user is able to view and manipulate using the Audio Management GUI is determined by the program group chosen by the user for the current updating session. If a user is associated with only one program group, that program group is automatically chosen as the active program group for the user.

Audio management operations (Sheet 1 of 2)

Operation	Package	Physical Segment	Set	Sequence	Variable
Create	x		x	x	x
Delete	x	x	x	x	x
Clone	x	x	x	x	x
Add segment	x		x	x	
Cut segment	x		x	x	
Export	x				
Lock	x				
Unlock	x				
Edit properties	x	x	x	x	x
Replace audio		x			
File upload		x			
Import		x			
Play		x			
Reorganize				x	
Find reference to		x	x	x	x

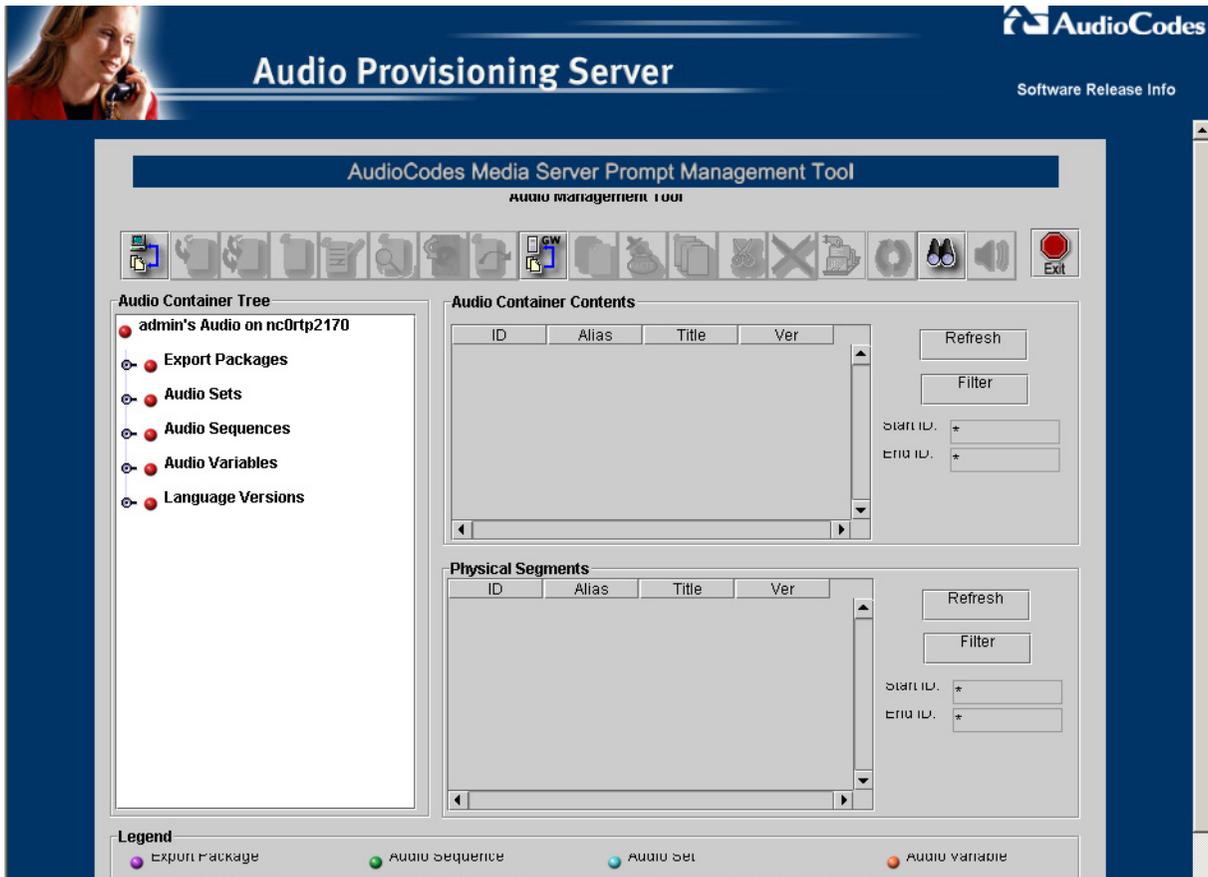
Audio management operations (Sheet 2 of 2)

Operation	Package	Physical Segment	Set	Sequence	Variable
Find	x	x	x	x	x
Set default segment			x		
Edit selector type			x		
Edit default language					x
Edit variable subtype					x
Distribute packages	x				

APS GUI Audio Management tool screen

The following illustration shows the APS GUI Audio Management tool screen.

APS Audio Management Tool Screen



Tool bar menu buttons

This section describes tool bar menu buttons on the APS Audio Management Tool screen.

The **File Upload** button is used for uploading audio files from a client machine to the APS.

The **Import** button enables you to import physical segments.

The **Bulk Import** button is used for adding one or more physical segments to a language version folder.

The **New** button creates new export packages, audio sets, audio sequences, audio variables, and language versions.

The **Edit** button enables you to edit the properties of export packages, sequences, sets, variables, and language versions.

The **Find Reference To** button finds all references to a specified segment.

The **Replace Audio** button is used for replacing the audio of a physical segment with another piece of audio.

The **Export** button is used to export an audio package from the database.

The **Distribute Packages** button distributes export packages to remote gateways.

The **Copy** button copies segments to the clipboard.

The **Paste** menu button enables you to paste copied segments into a container.

The **Clone** button is used for cloning a provisionable entity with the same properties, but a new segment ID or version.

The **Cut** button cuts (removes) a segment from a container, but not from the database.

The **Delete** button enables you to delete a provisionable entity from the database. The provisionable entity to be deleted, however, cannot be in a container.

The **Set Default Element** button enables you to change the default element of an audio set.

The **Reorder Sequence Elements** button reorders the elements of sequences. This determines the order in which the audio will play.

The **Find Provisionable Entity** button enables you to locate any provisionable entity that is stored in the database.

The **Play** button enables you to hear the audio file associated with a physical segment.

The **Exit** button exits you from the Audio Management screen.

Panel descriptions

This section describes the Audio Management screen panels and associated buttons.

The *Audio Container Tree* panel contains the Export Packages, Audio Sets, Audio Sequences, Audio Variables, and Language Versions

folders and the contents of the folders. Clicking on the “handle” icon located next to each of the Audio Container Tree folders enables you to “expand,” or show, the contents of the folder.

The *Audio Container Contents* panel contains the Contents table, which displays the contents of the currently selected provisionable entity in the Audio Container Tree. The Refresh button updates the Contents table with the latest elements in the database based on the filter settings. The Filter button opens the Filter Dialog window, which allows the user to specify the range of IDS for provisionable entities they want to see. The Start ID and End ID fields contain the range of IDs for the elements of the selected provisionable entity displayed in the Contents table. The default is asterisk (*), which includes all of the IDs for the provisionable entity selected in the Audio Container Tree.

The *Physical Segments* panel contains the physical segment table, which displays import segments or physical segments depending on how the filter is set. The Refresh button updates the Physical Segments table with the latest physical segments in the database based on the filter settings. The Filter button opens the Physical Segments Filter Dialog window, which allows the user to specify import segments only or physical segments only. The Start ID and End ID fields contain the range of physical segments IDs displayed in the Physical Segments table. The default is *, which includes all the physical segments in the database.

The *Legend* panel associates the node handle color with the container or physical segment.

MS 2000 Series and APS Configuration management procedures

The following table lists MS 2000 Series Configuration Tool procedures used for configuring the MS 2000 Series.

MS 2000 Series Configuration Tool procedures used for configuring the MS 2000 Series

Procedure and page	Interface or Tool used
Configuring and maintaining MS 2000 Series nodes with the MS 2000 Series CLUI tool on page 31	MS 2000 Series Configuration Tool
Displaying the MS 2000 Series nodes configured in the system on page 33	MS 2000 Series Configuration Tool
Configuring an MS 2000 Series node on page 34	MS 2000 Series Configuration Tool

MS 2000 Series Configuration Tool procedures used for configuring the MS 2000 Series

Procedure and page	Interface or Tool used
Backing up all MS 2000 Series node INI files on page 39	MS 2000 Series Configuration Tool
Copying a file to the SDM on page 40	MS 2000 Series Configuration Tool
Configuring the MS 2000 Series CLUI tool on page 41	MS 2000 Series Configuration Tool

The following table lists embedded web server utility procedures used for configuring the MS 2000 Series.

Embedded web server utility procedures used for configuring the MS 2000 Series

Procedure and page	Interface or Tool used
Configuring and maintaining MS 2000 Series nodes with the embedded web server utility on page 43	embedded web server utility
Performing a quick setup using the embedded web server utility on page 45	embedded web server utility
Changing network settings using the embedded web server utility on page 46	embedded web server utility
Changing regional settings using the embedded web server utility on page 50	embedded web server utility
Changing the login access for the embedded web server utility on page 52	embedded web server utility
Saving configuration to flash memory using the embedded web server utility on page 56	embedded web server utility
Resetting the IPM-1610 board using the embedded web server utility on page 57	embedded web server utility
Accessing the IPM-1610 INI file using the embedded web server utility on page 48	embedded web server utility

Embedded web server utility procedures used for configuring the MS 2000 Series

Procedure and page	Interface or Tool used
Accessing version information using the embedded web server utility on page 53	embedded web server utility
Maintaining software updates using the embedded web server utility on page 54	embedded web server utility

The following table lists configuration procedures used for identifying the APS in the CS 2000 Management Tools APS Manager network topology.

Configuration procedures used to identify an APS in the network topology

Procedure and page	Interface or Tool used
Adding an APS to the network topology on page 58	APS Manager
Deleting an APS from the network topology on page 59	APS Manager
Renaming an APS in the network topology on page 60	APS Manager
Configuring the CS 2000 Management Tool that receives traps on page 61	Command line

The following table lists APS system-specific configuration procedures.

APS system-specific configuration procedures

Procedure and page	Interface or Tool used
Configuring the SNMP agent on page 63	Command line
Configuring the APS for operation on page 69	APS GUI
Creating audio for an MS 2000 Series node on page 72	APS GUI

The following table lists APS GUI Administration general tasks.

APS GUI Administration general tasks

Procedure and page
Associate existing provision sets with a new MS 2000 Series node on page 73
Associate existing provision sets with an existing MS 2000 Series node on page 74
Playing a physical segment's audio file on page 75
Finding references to a provisionable entity on page 77
Editing APS System Parameters on page 78
Changing MS 2000 series web server access on page 81

The following table lists APS GUI Administration procedures.

APS GUI Administration procedures (Sheet 1 of 2)

Type of element	Procedure and page
Selector Type	Creating a selector type on page 84
Selector Type	Listing selector types on page 86
Selector Type	Deleting a selector type on page 87
Selector Type	Adding a selector value to a selector type on page 88
Selector Type	Cutting a selector value from a selector type on page 89
Selector Value	Creating a selector value on page 90
Selector Value	Listing selector values on page 91
Selector Value	Deleting a selector value on page 92
Selector Value	Editing a selector value on page 93
User	Creating users on page 94
User	Listing users on page 97
User	Editing user profiles on page 98
User	Deleting users from the database on page 99
Program Group	Creating a program group on page 100
Program Group	Listing program groups on page 102
Program Group	Deleting a program group on page 103
Program Group	Adding user IDs, segment IDs, or package IDs to a program group on page 104
Program Group	Cutting user IDs, segment IDs, or package IDs from a program group on page 107
Provision Set	Creating a provision set on page 109
Provision Set	Listing provision sets on page 111
Provision Set	Deleting a provision set on page 112

APS GUI Administration procedures (Sheet 2 of 2)

Type of element	Procedure and page
Provision Set	Adding program groups to a provision set on page 113
Provision Set	Cutting program groups from a provision set on page 114
MS 2000 Series Node	Creating an MS 2000 Series node on page 115
MS 2000 Series Node	Listing MS 2000 Series nodes on page 118
MS 2000 Series Node	Deleting an MS 2000 Series node on page 119
MS 2000 Series Node	Enabling provisioning of an MS 2000 Series node on page 120
MS 2000 Series Node	Disabling provisioning of an MS 2000 Series node on page 123
MS 2000 Series Node	At the APS Administration Tool screen on page 128
MS 2000 Series Node	Adding a provision set to an MS 2000 Series node on page 131
MS 2000 Series Node	Cutting a provision set from an MS 2000 Series node on page 132

The following table lists APS GUI Audio Management general tasks.

APS GUI Audio Management general tasks

Procedure and page
Adding audio to the database on page 133
Adding audio to a language folder on page 134
Deleting audio from the database on page 135
Provisioning audio in multiple languages on page 136
Building an export package on page 138

The following table lists APS GUI Audio Management procedures.

APS GUI Audio Management procedures (Sheet 1 of 3)

Type of element	Procedure and page
Physical Segment	Uploading audio files on page 139
Physical Segment	Filtering physical segments on page 142
Physical Segment	Importing physical segments on page 145
Physical Segment	Editing physical segment properties on page 149
Physical Segment	Replacing audio on page 151
Physical Segment	Cloning a physical segment on page 153
Export Package	Creating an export package on page 155
Export Package	Locking and unlocking an export package on page 157
Export Package	Adding physical segments to an export package on page 159
Export Package	Adding simple sets to an export package on page 160
Export Package	Editing export package properties on page 161
Export Package	Cloning an export package on page 162
Export Package	Exporting audio packages on page 164
Export Package	Distributing audio packages on page 167
Audio Set	Creating audio sets on page 171
Audio Set	Adding segments to an audio set on page 173
Audio Set	Changing a set type on page 176
Audio Set	Editing audio sets on page 178
Audio Set	Changing the set element selector value on page 180
Audio Set	Changing the set default element on page 182
Audio Set	Cloning an audio set on page 184
Audio Sequence	Creating sequences on page 185

APS GUI Audio Management procedures (Sheet 2 of 3)

Type of element	Procedure and page
Audio Sequence	Adding segments to an audio sequence on page 187
Audio Sequence	Reordering sequence elements on page 189
Audio Sequence	Editing audio sequences on page 191
Audio Sequence	Cloning an audio sequence on page 192
Audio Variable	Creating audio variables on page 193
Audio Variable	Editing audio variables on page 198
Audio Variable	Changing the default language on page 199
Audio Variable	Changing the variable subtype on page 200
Audio Variable	Cloning an audio variable on page 201
Language Version	Displaying language version folder contents on page 202
Language Version	Creating a language version folder on page 203
Language Version	Editing language version properties on page 208
Language Version	Adding physical segments to a language version folder on page 209
Language Version	Deleting a language version folder on page 212
Language Version	Accessing a physical segment from a language version folder on page 213
Language Version	Deleting physical segments from a language version folder on page 214
Common Operation	Finding provisionable entities on page 215
Common Operation	Finding references to a segment on page 217
Common Operation	Deleting a provisionable entity on page 218
Common Operation	Setting a container filter on page 219
Common Operation	Cutting a segment from a container on page 221
Common Operation	Correcting an invalid or non-unique alias on page 222

APS GUI Audio Management procedures (Sheet 3 of 3)

Type of element	Procedure and page
Common Operation	Correcting an invalid or non-unique segment ID on page 224
Common Operation	Correcting invalid aliases and segment IDs on page 226
Common Operation	Correcting non-unique aliases and segment IDs on page 227

The following table lists APS GUI reference Language Audio files.

APS GUI Language Audio Files

Language file
Cantonese audio files on page 229
Czech audio files on page 241
English audio files on page 280
French audio files on page 302
German audio files on page 327
Greek audio files on page 354
Hebrew audio files on page 390
Italian audio files on page 419
Japanese audio files on page 463
Mandarin audio files on page 479
Spanish audio files on page 491
Vietnamese audio files on page 527

Configuring and maintaining MS 2000 Series nodes with the MS 2000 Series CLUI tool

MS 2000 Series nodes are configured and maintained through a tool called the “Nortel Media Server 2000 Configuration Tool (MS 2000 Series CLUI)”. The MS 2000 Series CLUI runs on the CS 2000 Management Tool. The MS 2000 Series CLUI enables you to perform the following tasks:

- list all MS 2000 Series nodes that are configured
- display the configuration of an MS 2000 Series node
- configure an MS 2000 Series node
- download load files to an MS 2000 Series node
- manually back up the INI file for a specific MS 2000 Series node
- copy a file to the SDM
- request soft reset of an MS 2000 Series node
- manually back up the INI files for all MS 2000 Series nodes in the local network
- lock or unlock an MS 2000 Series node
- configure automated INI file backup for all MS 2000 Series nodes in the local network
- change login user names and passwords used with the MS 2000 Series CLUI to communicate with MS 2000 Series nodes in the local network

The MS 2000 Series CLUI is an interactive user interface performed at the command line. After you access the MS 2000 Series CLUI, you are presented with a main menu of tasks from which to select. When you have entered the number corresponding to the task you wish to perform, you are then presented either with lists of additional options from which to select or with prompts for information input.

Note: To access the MS 2000 Series CLUI, you must log into the CS 2000 Management Tool using a user name that is a member of the “succssn” and “emsadm” groups.

The following table lists the tasks you can perform through the MS 2000 Series CLUI and directs you to the appropriate procedures that show you how to perform the tasks.

Task	Procedure
display a list of MS 2000 Series nodes	Displaying the MS 2000 Series nodes configured in the system on page 33
display the current configuration of an MS 2000 Series node	Configuring an MS 2000 Series node on page 34
configure an MS 2000 Series node	Configuring an MS 2000 Series node on page 34
download load files to an MS 2000 Series node	Configuring an MS 2000 Series node on page 34
back up the INI file for a single MS 2000 Series node	Configuring an MS 2000 Series node on page 34
perform a soft reset of an MS 2000 Series node	Configuring an MS 2000 Series node on page 34
gracefully lock or unlock an MS 2000 Series node	Configuring an MS 2000 Series node on page 34
back up the INI files for all MS 2000 Series nodes	Backing up all MS 2000 Series node INI files on page 39
copy a file to the SDM	Copying a file to the SDM on page 40
configure automated backup of INI files for all MS 2000 Series nodes in the local network	Configuring the MS 2000 Series CLUI tool on page 41
change login and password used by the MS 2000 CLUI to access MS 2000 Series nodes in the local network	Configuring the MS 2000 Series CLUI tool on page 41

Displaying the MS 2000 Series nodes configured in the system

This procedure enables you to display a list of the MS 2000 Series nodes configured in the system. For each node, the display includes:

- IP address of the node
- name of the node
- name of the Gateway Controller (GWC) hosting the node

Displaying the MS 2000 Series nodes configured in the system

At the Windows desktop interface

- 1 Open a telnet connection to the CS 2000 Management Tool.
- 2 Log in with the appropriate user name.
Note: The user name must be a member of the “succssn” and “emsadm” groups.
- 3 Become the “root” user by entering the following command and then entering the “root” password when prompted:
su - root
- 4 Invoke the MS 2000 Series CLUI by entering the following on the command line:
/opt/nortel/NTsesm/bin/ms2000.sh
- 5 When prompted, enter the appropriate user name and password.
The MS 2000 Series CLUI main menu displays.
- 6 In response to the prompt, enter the number corresponding to the entry in the menu, “Display list of MS 2000 Series nodes”.
The list of MS 2000 Series nodes provisioned in the Solution displays.
- 7 Exit from the MS 2000 Series CLUI.
- 8 You have completed this procedure.

Configuring an MS 2000 Series node

This procedure enables you to configure an MS 2000 Series node. The configuration tasks that you can perform include:

- listing the current configuration information for an MS 2000 Series node
- configuring an MS 2000 Series node
- downloading load files to an MS 2000 Series node
- backing up the INI file for an MS 2000 Series node
- performing a soft reset of an MS 2000 Series node
- locking or unlocking an MS 2000 Series node

Configuring an MS 2000 Series node

At the Windows desktop interface

- 1 Open a telnet connection to the CS 2000 Management Tool.
- 2 Log in with the appropriate user name.
Note: The user name must be a member of the “succssn” and “emsadm” groups.
- 3 Become the “root” user by entering the following command and then entering the “root” password when prompted:

`su - root`
- 4 Invoke the MS 2000 Series CLUI by entering the following on the command line:

`/opt/nortel/NTsesm/bin/ms2000.sh`
- 5 When prompted, enter the appropriate user name and password.

The MS 2000 Series CLUI main menu displays.
- 6 Enter the number corresponding to the entry in the menu, “Node Maintenance and Configuration”.
- 7 In response to the prompt, enter the IP address of the MS 2000 Series node that you wish to configure.

The MS 2000 Maintenance and Configuration menu displays.

8 Determine the task on the menu that you wish to perform.

If	Do
you wish to display the current configuration of the MS 2000 Series node	step 9
you wish to configure the MS 2000 Series node	step 10
you wish to download load files to the MS 2000 Series node	step 11
you wish to back up the INI file for the MS 2000 Series node	step 12
you wish to perform a soft reset of the MS 2000 Series node	step 13
you wish to lock or unlock an MS 2000 Series node	step 14
you wish to exit from the maintenance and configuration menu	step 15

9 Enter the number corresponding to the entry in the menu, “Display this node’s current configuration”.

The current configuration information for the unit displays.

- a** Either go to step [15](#) and exit from the MS 2000 Maintenance and Configuration menu or return to step [8](#) and select another task to perform from the menu.

10 Enter the number corresponding to the entry in the menu, “Configure this node”.

Each configurable parameter of the MS 2000 Series node displays, one at a time. The current value assigned the parameter displays in brackets after the name of the parameter. In response to the prompt, you may then enter a question mark (?) to display allowable values for the parameter, you may press the Enter key to leave the current assigned value for the parameter unchanged, or you may enter a new value for the parameter.

Note: The entry for the Primary Language and Secondary Language must be the text string associated with a language file. These allowable text string entries are displayed when you enter a question mark (?) in response to the Primary Language and Secondary Language prompts. Thus, to enter English as the Primary Language, you would enter, “isoLangEnglish”.

- a In response to the question, “Would you like to write these values to the MS 2000 node?” enter either “y” (yes) or “n” (no). If you enter “y”, go to step [b](#). If you enter “n” all of the values originally displayed will remain unchanged; go to step [e](#).
 - b In response to the question, “Would you like to save the changes by backing up the INI file now?” enter either “y” (yes) or “n” (no).
 - c In response to the question, “Would you like to save file *<.ini file name>* to the SDM now?” enter either “y” (yes) or “n” (no).
 - d If you have made changes to the configuration parameters, burn the changes you have made into flash memory of the node by entering the number corresponding to the entry in the menu, “Perform a soft reset on this node”.
 - i In response to the question, “Perform Soft Reset?” enter either “y” (yes).
- The soft reset of the MS 2000 Series node is performed.
- e Either go to step [15](#) and exit from the MS 2000 Maintenance and Configuration menu, perform step [10](#) again to enter new configuration parameters, or return to step [8](#) and select another task to perform from the menu.
- 11** Enter the number in the menu corresponding to the entry in the menu, “Download load files to this node”.

The MS 2000 Restore Loads Menu displays.

- a Enter the number corresponding to the desired download load file type.
- b Enter the number corresponding to the desired download file in the next list that displays. The next step that you perform depends on the type of download you are performing:
 - If you are downloading both a .cmp and .ini file, two warnings display advising you of the service impact of the download on the node. After the download has completed, you are prompted to perform a soft reset of the node. After the soft reset has completed, you are prompted to save the files to the CS 2000 Core Manager (SDM).

Note: If you have just downloaded a file to the MS 2000 Series node that is not currently the same version of the file on the CS 2000 Core Manager (SDM), it is strongly advised that you allow the files to be copied to the CS 2000 Core Manager at this point in the procedure. Failing to do this can result in the wrong

version of the files being downloaded from the CS 2000 Core Manager in the event of re-boot in response to a hard reset (for example, a power cycle) of the MS 2000 Series node.

After the files have been saved to the CS 2000 Core Manager, exit from the MS 2000 Restore Loads Menu. Then either go to step [15](#) and exit from the Maintenance and Configuration menu or return to step [8](#) and select another task to perform from the menu.

- If you are downloading only a .cmp file, a warning displays advising you of the service impact of the download on the node.

After the download is complete, exit from the MS 2000 Restore Loads Menu. Then either go to step [15](#) and exit from the Maintenance and Configuration menu or return to step [8](#) and select another task to perform from the menu.

Note: An .ini file download should be performed after a .cmp file download to ensure proper operation of the node.

- If you are downloading only an .ini (configuration) or a .dat (call progress tones) file, a note displays prompting you to reset the node after the download has completed.

After the reset has completed, exit from the MS 2000 Restore Loads Menu. Then either go to step [15](#) and exit from the Maintenance and Configuration menu or return to step [8](#) and select another task to perform from the menu.

- 12** Enter the number corresponding to the entry in the menu, "Backup the INI file for this node".

The backup of the INI file for the MS 2000 Series node is performed.

- a** In response to the question, "Would you like to save <the downloaded file> to the SDM now?", enter either "y" (yes) or "n" (no).

Note: If you have just backed up a file to the MS 2000 Series node that is not currently the same version of the file on the CS 2000 Core Manager (SDM), it is strongly advised that you enter "y" in response to this question and allow the file to be copied to the CS 2000 Core Manager, at this point in the procedure. Failing to do this can result in the wrong version of the file being downloaded from the

Backing up all MS 2000 Series node INI files

This procedure enables you to back up .ini files for all MS 2000 Series nodes configured in the system. Only .ini files of MS 2000 Series nodes that are associated with a Gateway Controller will be backed up by this procedure.

Backing up all MS 2000 Series node INI files

At the Windows desktop interface

- 1 Open a telnet connection to the CS 2000 Management Tool.
- 2 Log in with the appropriate user name.
Note: The user name must be a member of the “succssn” and “emsadm” groups.
- 3 Become the “root” user by entering the following command and then entering the “root” password when prompted:
su - root
- 4 Invoke the MS 2000 Series CLUI by entering the following on the command line:
/opt/nortel/NTsesm/bin/ms2000.sh
- 5 When prompted, enter the appropriate user name and password.
The MS 2000 Series CLUI main menu displays.
- 6 In response to the prompt, enter the number corresponding to the entry in the menu, “Backup INI file for all nodes”.
The system displays an acknowledgement for each node as the backup of the .ini file is completed and the .ini file is copied to the SDM.
- 7 Exit from the MS 2000 Series CLUI.
- 8 You have completed this procedure.

Copying a file to the SDM

This procedure enables you to copy a file from the SSPFS server to the Supernode Data Manager (SDM).

Copying a file to the SDM

At the Windows desktop interface

- 1 Open a telnet connection to the CS 2000 Management Tool.
- 2 Log in with the appropriate user name.
Note: The user name must be a member of the “succssn” and “emsadm” groups.
- 3 Become the “root” user by entering the following command and then entering the “root” password when prompted:
su - root
- 4 Invoke the MS 2000 Series CLUI by entering the following on the command line:
/opt/nortel/NTsesm/bin/ms2000.sh
- 5 When prompted, enter the appropriate user name and password.
The MS 2000 Series CLUI main menu displays.
- 6 Enter the number corresponding to the entry in the menu, “Copy a file to the SDM”.
- 7 In response to the request to specify the file that you wish to copy to the SDM, enter the full path associated with the file and press Enter.
Note: This tool enables you to copy a file from the SSPFS server to the SDM, with the file name as it appears on the SSPFS server. Therefore, the file should be named appropriately before it is copied to the SDM. For example, an INI file should be named in the format, *<ip address>.ini*, where *<ip address>* is the address of the MS 2000 Series node.
- 8 Enter “x”, to exit.
- 9 Exit from the MS 2000 Series CLUI by entering “x”.
- 10 You have completed this procedure.

Configuring the MS 2000 Series CLUI tool

This procedure enables you to configure the MS 2000 Series CLUI tool, which includes:

- setting up the automatic daily backup of the INI file for all MS 2000 Series nodes
- setting the user name and password that the MS 2000 Series CLUI tool uses to access the MS 2000 Series nodes

Once configured, the automatic daily backup will download the INI files from each MS 2000 Series node. The five most-recent files will be saved on the CS 2000 Management Tool and the latest file will be backed up to the SDM.

You can either select the default user name and password set at the time of installation or you can establish another user name and password. Because of MS 2000 Series CLUI requirements, the user name and password for each MS 2000 Series node's access to the MS 2000 Series CLUI tool must be identical.

Note: This user name and password are used by the MS 2000 Series web interface, and can be changed only through the web interface. If you change the user name and password, you must also change the user name and password in the MS 2000 Series CLUI tool in order for the MS 2000 Series CLUI to be able to download any files.

Configuring the MS 2000 Series CLUI tool

At the Windows desktop interface

- 1 Open a telnet connection to the CS 2000 Management Tool.
- 2 Log in with the appropriate user name.

Note: The user name must be a member of the "succssn" and "emsadm" groups.

- 3 Become the "root" user by entering the following command and then entering the "root" password when prompted:

```
su - root
```

- 4 Invoke the MS 2000 Series CLUI by entering the following on the command line:

```
/opt/nortel/NTsesm/bin/ms2000.sh
```

- 5 When prompted, enter the appropriate username and password.

The MS 2000 Series CLUI main menu displays. In addition, the current CLUI configuration settings display, including the automatic INI backup time, a setting indicating whether automatic INI backup is enabled, and a setting indicating whether the default MS2000 login is used.

- 6** In response to the prompt, enter the number corresponding to the entry in the menu, "Configure CLUI tool".
 - a** In response to the question, "Would you like to enable the automated INI backup?", enter either "y" (yes) or "n" (no).
 - b** If you have responded that you want to set up the automated backup, enter the time for the backup to start in the format *hour:minute*, where *hour* is a value in the range, 00-23 and *minute* is a value in the range, 00-59.
 - c** In response to the question, "Would you like to use the default Username and Password?", enter either "y" (yes) or "n" (no).
 - d** If you indicated that you don't want to use the default user name and password, enter the new user name and password in response to the prompts.
- 7** Exit from the MS 2000 Series CLUI.
- 8** You have completed this procedure.

Configuring and maintaining MS 2000 Series nodes with the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node. The embedded web server utility serves as an emergency access interface, and is used only when the MS 2000 Series Configuration Tool is unavailable. The tasks that you can perform with the embedded web server utility include:

- modifying information for IP configuration used with the MS 2000 Series
- modifying IP settings, logging settings, SNMP settings, and Ethernet ports information
- changing configuration file (INI) parameters
- modifying MS 2000 Series node call progress tones
- modifying MS 2000 Series node system date and time
- changing the login access for the embedded web server utility
- checking version information for an MS 2000 Series node
- performing software updates to an MS 2000 Series node
- saving configuration information to IPM-1610 board flash memory
- resetting the IPM-1610 board

Access to the embedded web server utility is password-protected.

The following table lists the tasks you can perform through the embedded web server utility and directs you to the appropriate procedures that show you how to perform the tasks.

Task	Procedure
modifying information for IP control type	Performing a quick setup using the embedded web server utility on page 46
modifying IP settings, logging settings, SNMP settings, and Ethernet ports information	Changing network settings using the embedded web server utility on page 50
changing configuration file (INI) parameters	Accessing the IPM-1610 INI file using the embedded web server utility on page 48

Task	Procedure
modifying MS 2000 Series node call progress tones	Changing regional settings using the embedded web server utility on page 54
modifying MS 2000 Series node system date and time	Changing regional settings using the embedded web server utility on page 54
changing login access for the embedded web server utility	Changing the login access for the embedded web server utility on page 56
checking version information for an MS 2000 Series node	Accessing version information using the embedded web server utility on page 58
performing software updates to an MS 2000 Series nodes	Maintaining software updates using the embedded web server utility on page 60
saving configuration information to IPM-1610 board flash memory	Saving configuration to flash memory using the embedded web server utility on page 62
resetting the IPM-1610 board	Resetting the IPM-1610 board using the embedded web server utility on page 64

Performing a quick setup using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and perform a “quick setup”. The “quick setup” enables you to view or to modify the information for IP configuration used with the MS 2000 Series node.

Note: This procedure should normally be used only to view configuration information. Modifying configuration parameters through this procedure can stop the node from processing calls. Before making any changes, contact your Nortel Networks service representative.

Performing a quick setup using the embedded web server utility

At the Windows desktop interface

1 Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).

2 Enter the IP address of an MS 2000 Series node in the web-browser address field.

3 In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.

The main menu buttons located on the left side of the main screen become activated.

4 Click the Quick Setup menu button.

The Quick Setup window displays. The display shows the configuration information for the node.

5 If you are changing information, enter or modify the information in the Quick Setup window. If you are not changing information, you have completed this procedure.

Note: Before performing this step, ensure that you have contacted your Nortel Networks service representative and that you wish to change the configuration information.

6 To activate the changes for the node, click the Reset button located at the bottom of the screen, and then confirm the reset in the dialog box that displays.

The node restarts. A message informing you of the waiting period displays.

7 You have completed this procedure.

Changing network settings using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and change network settings associated with the node. These network settings include:

- IP settings
- logging settings
- SNMP settings
- Ethernet ports information

Note: Modifying network settings through this procedure can stop the node from processing calls. Before making any changes, contact your Nortel Networks service representative.

Changing network settings using the embedded web server utility

At the Windows desktop interface

- 1 Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2 Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3 In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.

The main menu buttons located on the left side of the main screen become activated.

- 4 Click the Advanced Configuration menu button.

A menu bar displays in the main window.

- 5 Click the Network Settings box in the menu bar.

The Network Settings window displays.

- 6 If you are changing information, enter or modify the information in the Network Settings window. If you are not changing information, you have completed this procedure.

Note: Before performing this step, ensure that you have contacted your Nortel Networks service representative and that you wish to change the network settings.

- 7 To activate the changes for the node, click the Submit button located at the bottom of the window.

The changes are entered into the system and the window is refreshed.

- 8** You have completed this procedure.

Accessing the IPM-1610 INI file using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and access the configuration (INI) file residing on an IPM-1610 board. Once you have copied the file to your computer, you may make changes to it and use it to overwrite the existing INI file on the IPM-1610 board.

Accessing the IPM-1610 INI file using the embedded web server utility

At the Windows desktop interface

- 1 Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2 Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3 In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.

The main menu buttons located on the left side of the main screen become activated.

- 4 Click the Advanced Configuration menu button.

A menu bar displays in the main window.

- 5 Click the Configuration File box in the menu bar.

The Configuration File window displays.

If

Do

you want to copy the IPM-1610 board's INI file to your computer

step [6](#)

you want to send a copy of a pre-defined INI file on your computer to the IPM-1610 board

step [7](#)

Note: Do not select the "Restore All Defaults" button. Selecting this button will negatively impact call processing.

- 6 To copy the INI file on the IPM-1610 board to your computer, click the Get INI FILE button in the Configuration File window. You are prompted to select a location on your computer to store the copy of the INI file. After you have completed making the desired changes to the INI file, go on to the next step.

- 7** Click the Browse button on the Configuration File window to locate the INI file on your computer that you want to send to the IPM-1610 board.
- 8** Click the Send File button on the Configuration File window to send the file to the board. The INI file on the board is over-written by the INI file that you send.
- 9** You have completed this procedure.

Changing regional settings using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and change regional settings associated with the node. These regional settings include:

- call progress tones
- voice prompt file
- date and time setting for the system

Changing the regional settings entails first locating the pre-defined call progress tone or voice prompt file on your computer and then sending this file to the MS 2000 Series IPM-1610 board.

This procedure also enables you to change the MS 2000 Series node date and time.

Changing regional settings using the embedded web server utility

At the Windows desktop interface

- 1** Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2** Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3** In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.
The main menu buttons located on the left side of the main screen become activated.
- 4** Click the Advanced Configuration menu button.
A menu bar displays in the main window.
- 5** Click the Regional Settings box in the menu bar.
The Regional Settings window displays.
- 6** To change the call progress tones or voice prompt settings, perform the following steps:
 - a** click the Browse button to locate the pre-defined file containing the new settings on your computer
 - b** after you have located the file, click the Send File button to transfer the file to the MS 2000 Series IPM-1610 board.

The file overwrites the existing file on the board. The window is refreshed and a message informs you about a waiting period.

- 7** To set a new date and time for the MS 2000 Series node, perform the following steps:
 - a** Enter the date using the YYYY, MM, and DD fields for year, month, and day, respectively.
 - b** Enter the time using the HH, MM, and SS fields for hour, minute, and second, respectively.
 - c** Click the Set Date and Time button.

The date and time are set on the IPM-1610 board. The window is refreshed and a message informs you about a waiting period.

- 8** You have completed this procedure.

Changing the login access for the embedded web server utility

This procedure enables you to change the user name and password used for accessing the embedded web server utility available for each MS 2000 Series node.

Changing the login access for the embedded web server utility

At the Windows desktop interface

- 1** Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2** Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3** In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.
The main menu buttons located on the left side of the main screen become activated.
- 4** Click the Advanced Configuration menu button.
A menu bar displays in the main window.
- 5** Click the Change Password box in the menu bar.
The Change Password window displays.
- 6** Enter the desired user name and/or password. Both the user name and password can be up to seven characters long. Then enter the password again in the “Confirm Password” field.
- 7** To activate the changes for the node, click the Change Password button.
- 8** You have completed this procedure.

Accessing version information using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and display version information pertaining to the node. This information includes:

- version ID
- DSP type
- DSP software version
- flash version
- MAC address
- Serial number
- Board type
- Module firmware

Accessing version information using the embedded web server utility

At the Windows desktop interface

- 1** Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2** Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3** In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.

The main menu buttons located on the left side of the main screen become activated.

- 4** Click the Status and Diagnostics menu button.

A menu bar displays in the main window.

- 5** Click the Versions box in the menu bar.

The Versions window displays.

- 6** You have completed this procedure.

Maintaining software updates using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and download pre-defined software files on your computer to the node's IPM-1610 board. The procedure also enables you to enter an updated license key.

Maintaining software updates using the embedded web server utility

At the Windows desktop interface

- 1 Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2 Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3 In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.

The main menu buttons located on the left side of the main screen become activated.

- 4 Click the Software Update menu button.
A menu bar displays in the main window.

If	Do
you want to download software from your computer to the node's IPM-1610 board	step 5
you want to update a license key	step 8

- 5 Click the HTTP Download box in the menu bar.
The HTTP Download window displays.
- 6 In the panel associated with the file you are downloading, click the Browse button to locate the pre-defined file on your computer that you want to send to the IPM-1610 board. After you have located the file, click the Send file button to send the file to the IPM-1610 board.
- 7 Go to step [12](#)
- 8 Click the License box in the menu bar.
The License window displays.
- 9 In the New Key field, enter the updated license key (supplied by your Nortel Networks service representative).

- 10** Click the Add Key button on the License window.
The new key information over-writes the previous key information on your computer.

Note: The current key information is displayed in the Current Key field. Information about the key and software limitations are displayed in the Status field.
- 11** To send a license key installed on your computer to the MS 2000 Series node, first locate the license key by clicking the Browse button on the License window. After you have located the license key, click the Send file button.
- 12** To commit the changed information (downloaded file or license key) to flash memory, click the Reset button located on the left side of the main screen.
- 13** You have completed this procedure.

Saving configuration to flash memory using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and save the configuration (INI) file to the IPM-1610 board's flash memory.

Saving configuration to flash memory using the embedded web server utility

At the Windows desktop interface

- 1** Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2** Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3** In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.
The main menu buttons located on the left side of the main screen become activated.
- 4** Click the Save Configuration menu button.
The Save Configuration window displays.
- 5** Click the Save Configuration button in the Save Configuration window.
A message informing you that the configuration file has been saved to IPM-1610 board flash memory displays.
- 6** You have completed this procedure.

Resetting the IPM-1610 board using the embedded web server utility

This procedure enables you to access the embedded web server utility available for each MS 2000 Series node and reset the IPM-1610 board in order to permanently save the configuration file (INI) to the board's flash memory.

Resetting the IPM-1610 board using the embedded web server utility

At the Windows desktop interface

- 1 Open a standard web-browser application such as Microsoft Internet Explorer (version 5.0 and higher) or Netscape Navigator (version 7.0 and higher).
- 2 Enter the IP address of an MS 2000 Series node in the web-browser address field.
- 3 In the Enter Network Password window that opens, enter the appropriate user name and password, and then click OK.
The main menu buttons located on the left side of the main screen become activated.
- 4 Click the Reset menu button.
The Reset window displays.
- 5 Click the Restart button in the Reset window.
The IPM-1610 board is shut down and restarted. A message informing you about a waiting period displays. The screen is refreshed.
- 6 You have completed this procedure.

Adding an APS to the network topology

The following procedure enables you to add a new audio provisioning server (APS) to the Universal Audio Server Manager interface.

Adding an APS to the network topology

At the Configuration Menu of the Universal Audio Server Manager

- 1 Select the Add APS option.
- 2 In the Add Audio Provisioning Server window, enter the following information:

- server name

Note 1: It is recommended that the server (node) name assigned the APS not exceed 20 characters in length.

Note 2: Ensure that this is the same server name entered during installation of the unit.

- IP address
 - port number used by the SNMP master agent (this must be consistent with the port number established during the installation of the server)
 - security name
- 3 Click the Add button in the window.

The APS unit appears in the Network Elements pane of the Universal Audio Server Manager main screen.

- 4 You have completed this procedure.

Deleting an APS from the network topology

This procedure enables you to delete an audio provisioning server (APS) from the Universal Audio Server Manager Interface.

Deleting an APS from the network topology

At the Network Elements pane of the Universal Audio Server Manager main screen

- 1 Select the APS for deletion.
- 2 In the Configuration menu, select the Delete APS option.
- 3 In the Delete Warning window that displays, click OK.
The system performs the deletion and updates the Network Elements pane of the Universal Audio Server main screen.
- 4 You have completed this procedure.

Renaming an APS in the network topology

This procedure enables you to rename an audio provisioning server (APS) that is currently viewable through the Universal Audio Server Manager interface.

Renaming an APS in the network topology

At the Network Elements pane of the Universal Audio Server Manager main screen

- 1 Select the APS unit to be renamed.
- 2 In the Configuration menu, select the Delete APS option.
- 3 In the Delete Warning window that displays, click OK.

The system performs the deletion and updates the Network Elements pane of the Universal Audio Server Manager main screen.

At the Configuration Menu

- 4 Select the Add APS option.
- 5 In the Add APS window, enter the following information for the renamed unit:

- new server name

Note: It is recommended that the server (node) name assigned the APS not exceed 20 characters in length.

- IP address
 - port number used by the SNMP master agent (this must be consistent with the port number established during the installation of the server)
 - security name
- 6 Click the Add button in the window.

The APS unit appears in the Network Elements pane of the Universal Audio Server main screen.

- 7 You have completed this procedure.

Configuring the CS 2000 Management Tool that receives traps

For security, an MS 2000 Series node must be identified to the CS 2000 Management Tool that receives its traps. This procedure enables you to identify an MS 2000 Series node to a CS 2000 Management Tool, list the MS 2000 Series nodes that have identified to a CS 2000 Management Tool, or to delete an MS 2000 Series node from the list of nodes that have been identified to a CS 2000 Management Tool.

Configuring the CS 2000 Management Tool that receives traps

In a telnet connection to the CS 2000 Management Tool:

- 1 Open an xterm window and log in using the “maint” login and password.
- 2 Become the “root” user by entering:
`su - root`
- 3 Enter the following at the command line:
`/opt/nortel/NTsesm/bin/SESMInventory.sh`
- 4 In response to the prompts, enter the user name and password.
- 5 Determine the task you want to perform.

If

Do

you want to identify the MS 2000 Series node to the CS 2000 Management Tool

step [6](#)

you want to list the MS 2000 Series nodes that have been identified to the CS 2000 Management Tool

step [13](#)

you want to delete the MS 2000 Series node from the list of nodes identified to the CS 2000 Management Tool

step [14](#)

-
- 6 Enter ADD in response to the prompt for a SESMInventory command.
 - 7 Enter AMS in response to the prompt for a device type.
 - 8 Enter a version in response to the prompt for a Device Version. For release SN06.2, enter 6.2.
 - 9 In response to the prompt, enter the IP address of the MS 2000 Series node.
 - 10 In response to the prompt, enter the port number, 161.

- 11** In response to the prompt, enter the IP name of the MS 2000 Series node.
- 12** In response to the prompt, enter the appropriate security name.
- | If | Do |
|--|-------------------------|
| you want to list the MS 2000 Series nodes that have been identified to the CS 2000 Management Tool | step 13 |
| you don't want to list the MS 2000 Series nodes that have been identified to the CS 2000 Management Tool | step 15 |
- 13** Enter LISTD in response to the prompt for a SESMInventory command; and then enter AMS in response to the prompt for the device type.
- The MS 2000 Series node you have added will display in a list of nodes.*
- Note:** In the display, the “version” field and its value should be ignored. This value does not reflect the Device version number that you entered previously (see step [8](#)).
- | If | Do |
|---|-------------------------|
| you want to delete an MS 2000 Series node from the list of nodes that have been identified to the CS 2000 Management Tool | step 14 |
| you don't want to delete an MS 2000 Series node from the list of nodes that have been identified to the CS 2000 Management Tool | step 15 |
- 14** Enter DEL in response to the prompt for a SESMInventory command; and then enter the IP name of the MS 2000 Series node in response to the prompt for a device name. If you wish to delete the node from the list, enter Y (yes); if you don't want to delete the node from the list, enter N (no).
- 15** In response to the prompt for a SESMInventory command, enter exit.
- 16** You have completed this procedure.

Configuring the SNMP agent

Alarms are managed, sorted, and viewed on the CS 2000 Management Tools. The alarms are delivered to the CS 2000 Management Tools server by system software known as the “Simple Network Management Protocol (SNMP) agent.” The server IP address that the SNMP agent delivers alarms to is established immediately after installation of the APS system by performing the procedure below. This procedure is also used if the IP address of the CS 2000 Management Tools server changes later on.

Configuring the SNMP agent

At your console

- 1 Perform the following procedure:
 - a telnet to the CS 2000 Management Tools server
 - b log in using the “maint” login and password
 - c become the “root” user by entering:
`su - root`
- 2 Type the following command to stop the SNMP agent:
APSagentctl stop
Note: If this command is not found, enter the full path for the command, /opt/uas/SnmpAgent/bin/APSagentctl stop
- 3 After the system response, “APS Agent terminated” displays, type the following command:
configure_agent
Note: If this command is not found, enter the full path for the command, /opt/uas/SnmpAgent/bin/configure_agent

- 4** In response to the prompt, “Enter your selection,” enter either 1 or 2
where:
- 1** specifies that new configuration data is to be entered
 - 2** specifies that previous configuration data is to be restored
-
- | If | Do |
|---------------|-------------------------|
| you entered 1 | step 5 |
| you entered 2 | step 18 |
-
- 5** In response to the prompt, “What is the element manager’s IP address?” enter either 1 or 2
where:
- 1** specifies the default IP address
 - 2** specifies that another IP address is to be entered
-
- | If | Do |
|---------------|------------------------|
| you entered 1 | step 7 |
| you entered 2 | step 6 |
-
- 6** In response to the prompt, “Enter the correct IP address” enter the IP address.
- 7** In response to the prompt, “What port does the element manager use to receive traps or alarms/logs?” enter either 1 or 2
where:
- 1** specifies the default port number, 162
 - 2** specifies that another port number is to be entered
-
- | If | Do |
|---------------|------------------------|
| you entered 1 | step 9 |
| you entered 2 | step 8 |
-
- 8** In response to the prompt, “Enter the element manager’s port for receiving traps,” enter the port number.

- 9** In response to the prompt, “Should the agent forward alarms/logs to syslog?” enter either 1 or 2

where:

- 1**
specifies “yes”

Note 1: APS system logs are available for viewing only in the var/log/ptmlog file.

Note 2: Forwarding alarms/logs to the syslog ensures backup access to this information.

- 2**
specifies “no”

If	Do
you entered 1	step 10
you entered 2	step 11

- 10** In response to the prompt, “What is the logging level?” enter either 1, 2, or 3

where:

- 1**
specifies “error messages”

- 2**
specifies “error and warning messages”

- 3**
specifies the default logging level, “error, warning, and information messages”

- 11** In response to the prompt, “What port does the agent use to receive SNMP messages from the element manager?” enter either 1 or 2

where:

1

specifies the default port number, 5161

2

specifies that another port number is to be entered

Note: If error messages display indicating that the port you have selected is already in use and cannot be used unless you specify it when you are logged in as the “root” user, either:

- log in again, restart the `configure_agent` program (see step [3](#)), select 2 when you perform this step, and enter a different port number

or

- log in as the “root” user, restart the `configure_agent` program, and select 1 again when you perform this step

Note that the port number you select must also then be set in the CS 2000 Management Tools station when the APS is added to the network topology.

If

Do

you entered 1

step [13](#)

you entered 2

step [12](#)

- 12** In response to the prompt, “Enter the agent’s port for receiving SNMP messages,” enter the port number.

- 13** In response to the prompt, “What Read community string should the agent use to authenticate SNMP GET messages?” enter either 1 or 2

where:

- 1** specifies the default, “public”
- 2** specifies that another Read community string is to be entered

Note: You can enter 2 if you do not want a public SNMP read community string.

If	Do
you entered 1	step 15
you entered 2	step 14

- 14** In response to the prompt, “Enter the new Read community string,” enter the Read community string.
- 15** In response to the prompt, “What Write community string should the agent use to authenticate SNMP SET messages?” enter either 1 or 2

where:

- 1** specifies the default, “admin”
- 2** specifies that another Write community string is to be entered

Note 1: You can enter 2 if you do not want an admin SNMP Write community string.

Note 2: Make sure that you specify the same Write community string when you add an APS to the network topology through the CS 2000 Management Tools.

If	Do
you entered 1	step 17
you entered 2	step 16

- 16** In response to the prompt, “Enter the new Write community string,” enter the Write community string.

- 17 In response to the prompt, “What SNMP version should the agent use in sending SNMP messages?” enter either 1, for v1, or 2, for v2 (default).
- 18 After the system response, “Saving information to ApsAgent.conf” and “Saving information to ApsSnmpAgent.sh” displays, a UNIX shell prompt will display. Enter, then, the following command to start the SNMP agent:
`/opt/uas/SnmpAgent/bin/APSagentctl start`
Note: This step manually restarts the SNMP agent. If the command is not used, the SNMP agent is automatically restarted when the system is rebooted.
- 19 Verify that the agent has started by entering the following command:
`more /opt/uas/aps/scripts/SnmpAgent.pid`
If the agent has started, a process id (pid) displays.
- 20 Verify that the process is running by entering:
`ps -ef | grep nnnn`
where *nnnn* is the process id that was displayed in step [19](#).
- 21 You have completed this procedure.

Configuring the APS for operation

After the APS is installed, you must add users, MS 2000 Series nodes, provision sets, and program groups before any audio provisioning can be performed. This procedure enables you to configure the APS for operation by creating a new MS 2000 Series node and the provision sets and program groups to be associated with it.

You will need the following information in order to complete this procedure:

- list of APS users to be added to the system, including user IDs, user names, and passwords
- list of MS 2000 Series nodes, including IP addresses and hostnames
- list of program group names
- list of provision set names
- correlation of users to program groups
- correlation of provision sets to program groups and MS 2000 Series nodes
- IP address of the APS
- “root” user ID and password for the APS

Configuring the APS for operation

At your console

- 1 Start the APS GUI by performing the following steps:
 - a Start up Netscape or Internet Explorer
 - b Enter the URL for the APS GUI: `http://<ip address of the APS>:8080/aps/`
 - c When the APS GUI login screen opens, enter the “admin” user ID and password, and then click OK.

At the APS Administration Tool screen

- 2 Create the program groups to be associated with the new MS 2000 Series node. For more information, refer to the procedure [Creating a program group on page 100](#).
- 3 Create a new provision set to be associated with the new MS 2000 Series node. For more information, refer to the procedure [Creating a provision set on page 109](#).

- 4 Add a MS 2000 Series node to the APS database. For more information, refer to the procedure [Creating an MS 2000 Series node on page 115](#).
- 5 Exit from the Administration Tool GUI by first closing any open dialog windows and then clicking Exit.
The APS Main Menu screen opens.
- 6 Click Audio Management.
The APS Audio Management Tool screen opens.
- 7 Upload an audio segment file and import the file into the APS database. For more information about uploading the file, refer to the procedure [Uploading audio files on page 139](#). For more information about importing the file, refer to the procedure [Importing physical segments on page 145](#).
- 8 Provision the MS 2000 Series node by performing the procedure, [At the APS Administration Tool screen on page 128](#).
- 9 Ensure that the audio has been successfully provisioned by checking the APS provisioning log.
 - a Open a telnet window to the APS and log in as “root.”
 - b Enter the following to find the provisioner log file for the APS (specified by the hostname you enter) in which you are provisioning audio.

```
cd /PROV_data  
less -i <hostname>_provisioner.log
```

The content of the provisioner log file displays.
 - c In the provisioner.log file search for the name of the node that you have provisioned, look for the date and time stamp associated with the provisioning activity, and determine whether any errors occurred during provisioning.

```
/ <node> (provides a forward search)  
? <node> (provides a backward search)
```

The following commands will be useful to you when you are examining the file: to page forward, press the space bar; to page backward, enter ctrl-b; to go to the top of the file, press the escape key (Esc), then press the Shift key and >; to go the bottom of the file, press Esc, then press the Shift key and <.
- 10 Play the new audio. For more information, refer to the procedure [Playing a physical segment's audio file on page 75](#).

- 11** If you need to change the default “admin” user password, refer to the procedure “Changing the APS GUI password” in the document **NN10337-611**, “MS 2000 Series Administration and Security,” in your MS 2000 Series document suite.
- 12** You have completed this procedure.

Creating audio for an MS 2000 Series node

Because of regional and national language differences, as well as the unique requirements associated with most announcements, pre-recorded audio segments are not provided with the MS 2000 Series. This procedure describes the steps required to create audio for your MS 2000 Series system.

Creating audio for an MS 2000 Series node

At your PC equipped with a sound card and microphone

- 1 Record the audio segments to be used in the announcement you wish to create.

Note: Although announcements can be made simply by recording them using your PC, you may choose instead to use announcements produced in a commercial recording studio.
- 2 Store the audio segments as “.raw” (rather than .wav or .mp3), 8 kHz sampling rate files in G.711 encoded mu-law or a-law format. It is strongly recommended that a commercial sound file manipulation tool be used for this purpose. For information about possible tools to use, contact your Nortel Networks service representative.
- 3 Upload the audio segment files and import the files into the APS database for processing. For more information about uploading the file, refer to the procedure [Uploading audio files on page 139](#). For more information about importing the file, refer to the procedure [Importing physical segments on page 145](#).
- 4 You have completed this procedure.

Associate existing provision sets with a new MS 2000 Series node

This procedure enables you to add a new node and associate existing provision sets and program groups with it. This procedure is normally performed in response to a traffic overload condition on an existing node.

Associate existing provision sets with a new MS 2000 Series node

At the APS Administration Tool screen

- 1 Add an MS 2000 Series node to the APS database. For more information, refer to the procedure [Creating an MS 2000 Series node on page 115](#).
- 2 Select the Provision Sets folder in the Administration Container Tree.
The Contents table is populated with the provision sets in the APS database.
- 3 Select a provision set in the Contents table to be copied into the MS 2000 Series node.
- 4 Click the Copy button on the menu tool bar.
- 5 Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with the MS 2000 Series nodes in the APS database.
- 6 Select the new MS 2000 Series node in the Contents table.
- 7 Click the Paste button on the menu tool bar.
The Paste APS Entity Result window opens.
- 8 Click OK.
- 9 You have completed this procedure.

Associate existing provision sets with an existing MS 2000 Series node

Associate existing provision sets with an existing MS 2000 Series node

At the APS Administration Tool screen

- 1 Select the Provision Sets folder in the Administration Container Tree.
The Contents table is populated with the provision sets in the APS database.
- 2 Select a provision set in the Contents table to be copied into the new MS 2000 Series node.
- 3 Click the Copy button on the menu tool bar.
- 4 Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with the MS 2000 Series nodes in the APS database.
- 5 Select the MS 2000 Series node in the Contents table.
- 6 Click the Paste button on the menu tool bar.
The Paste APS Entity Result window opens.
- 7 Click OK.
- 8 You have completed this procedure.

Playing a physical segment's audio file

This operation enables you to play audio recorded in G711 mulaw, G711 alaw, or .wav format associated with a specific version of a physical segment. Audio files in mulaw and alaw formats are converted internally when they are played. These converted files are removed from the APS when they have not been accessed for 14 days or when the original physical segment is deleted from the database.

This capability is available only for audio files that have been imported into the database.

Playing a physical segment's audio file

At the APS Administration Tool screen

- 1 Click the Filter button in the Provisionable Entities panel.

The Segments Filter Dialog window opens.

- 2 Click the Include Segments Only radio button.

- 3 Select a physical segment to play by performing one of the following steps:

- a Click OK.

The Provisionable Entities table is populated with all of the segments in the database, including physical segments, sequences, sets, and variables.

In the table, select the physical segment you wish to play, then go to step [4](#).

Note: Physical segments are identified in the table by the blue dot that precedes the ID, in the ID column.

- b Click the Physical Segments box, and then click OK.

The Provisionable Entities table is populated with all of the physical segments in the database.

In the table, select the physical segment you wish to play, then go to step [4](#).

- c Enter the ID of the physical segment you wish to play in the Start ID and End ID fields, and then click OK.

The physical segment you selected appears in the Provisionable Entities table.

Select the physical segment, then go to step [4](#).

- 4 Click the Play button on the menu tool bar.

5 You have completed this procedure.

Finding references to a provisionable entity

This procedure enables you to locate all references to a specified provisionable entity, such as an Audio Package or Physical Segment, or to an administration entity, such as a particular User or Program Group, in the database.

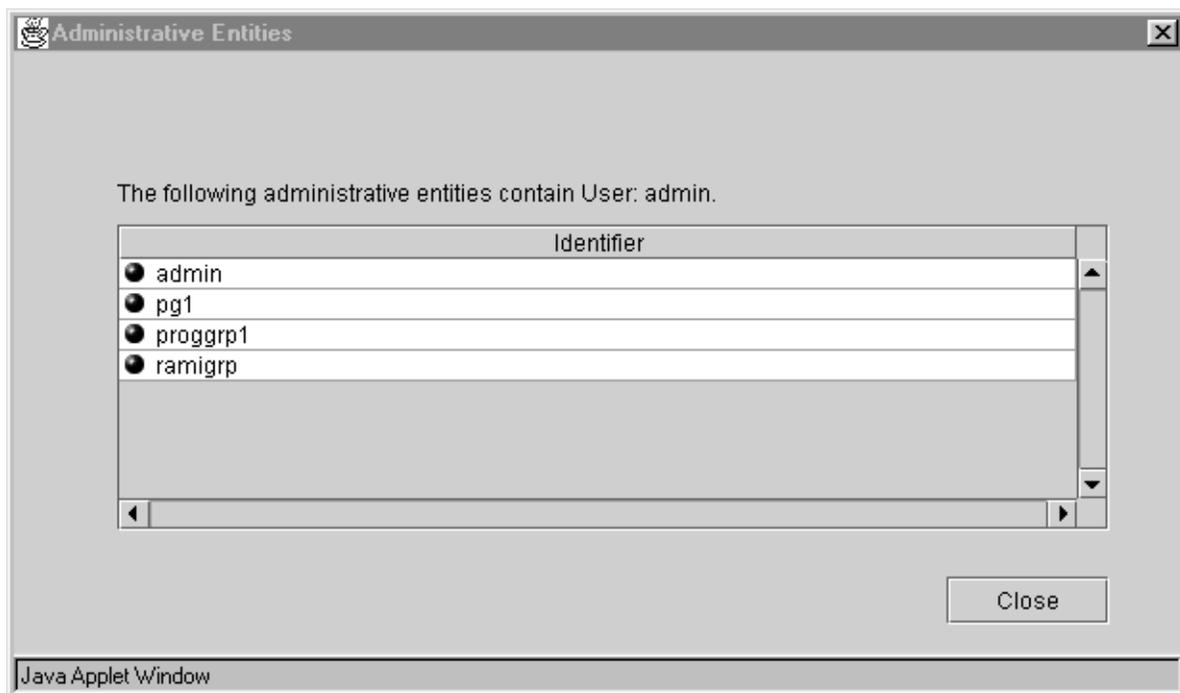
Finding references to a provisionable entity

At the APS Audio Management Tool screen

- 1 Select a provisionable or administration entity in the Contents table, the Administration Container tree, or the Provisionable Entities table.
- 2 Click the Find Reference To button on the menu tool bar.

The Administrative Entities window opens, containing a list of the Administrative entities that contain the provisionable entity being searched for.

Administrative Entities window



- 3 Click Close.
- 4 You have completed this procedure.

Editing APS System Parameters

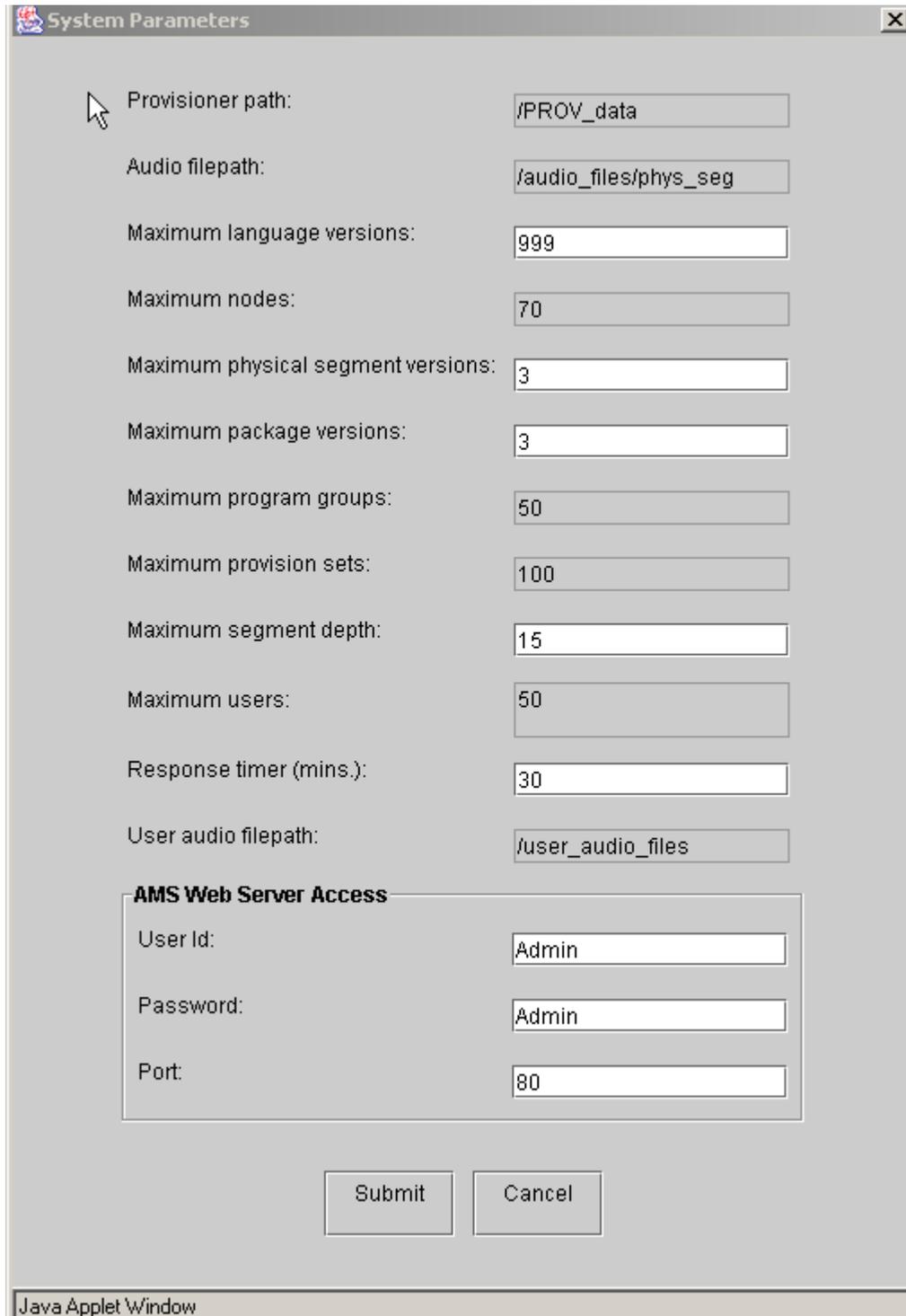
This procedure enables you to edit APS selected system parameters such as the maximum response time before logout from the APS Administration and Audio Management Tools.

Editing APS System Parameters

At the APS Administration Tool screen

- 1 Click the Edit System Parameters button on the menu tool bar.
The System Parameters window opens.

System Parameters window



The screenshot shows a Java Applet window titled "System Parameters". It contains several configuration fields and a sub-section for "AMS Web Server Access".

Provisioner path:	/PROV_data
Audio filepath:	/audio_files/phys_seg
Maximum language versions:	999
Maximum nodes:	70
Maximum physical segment versions:	3
Maximum package versions:	3
Maximum program groups:	50
Maximum provision sets:	100
Maximum segment depth:	15
Maximum users:	50
Response timer (mins.):	30
User audio filepath:	/user_audio_files

AMS Web Server Access

User Id:	Admin
Password:	Admin
Port:	80

Buttons: Submit, Cancel

Java Applet Window

2 Enter new values for any of the following fields:

- Maximum Language Versions
- Maximum Physical Segment Versions
- Maximum Package Versions
- Maximum Segment Depth
- Response Timer (in minutes)
- AMS web server access

If	Do
you want to cancel	step 3
you want to submit the operation	step 4

3 Click Cancel. Go to step [7](#).

4 Click Submit.

5 Logout of the APS GUI.

At the command line:

6 Enter the following command and then press **Enter**:

```
/opt/uas/aps/scripts/killDbServer.sh
```

7 When the message, "...Starting DB Server" displays, you have completed this procedure.

Changing MS 2000 Series web server access

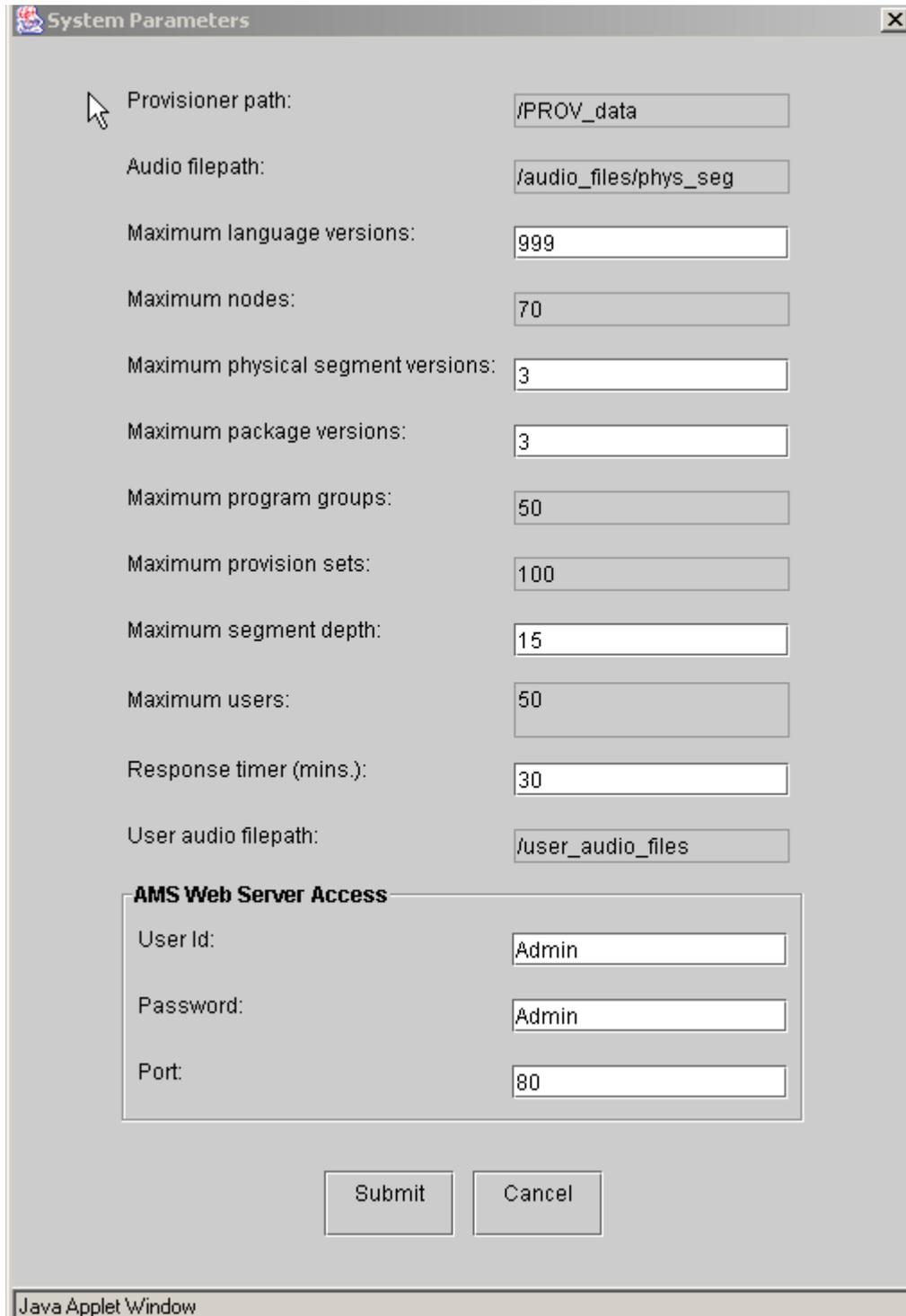
This procedure enables you to change the user id and password used for access to the MS 2000 Series web server from the APS. If the passwords for the MS 2000 Series node and the APS are not the same, audio cannot be provisioned to the MS 2000 series node.

Changing MS 2000 series web server access

At the APS Administration Tool screen

- 1 Click the Edit System Parameters button on the menu tool bar.
The System Parameters window opens.

System Parameters window



The screenshot shows a Java Applet window titled "System Parameters". It contains several configuration fields and a section for "AMS Web Server Access".

Provisioner path:	/PROV_data
Audio filepath:	/audio_files/phys_seg
Maximum language versions:	999
Maximum nodes:	70
Maximum physical segment versions:	3
Maximum package versions:	3
Maximum program groups:	50
Maximum provision sets:	100
Maximum segment depth:	15
Maximum users:	50
Response timer (mins.):	30
User audio filepath:	/user_audio_files

AMS Web Server Access

User Id:	Admin
Password:	Admin
Port:	80

Buttons: Submit, Cancel

Java Applet Window

- 2 Enter new values for any of the following fields of the AMS Web Server Access panel:
 - User id
 - password
 - port

If	Do
you want to cancel	step 3
you want to submit the operation	step 4

- 3 Click Cancel. Logout of the APS GUI and then go to step [7](#).
- 4 Click Submit.
- 5 Logout of the APS GUI.

At the command line:

- 6 Enter the following command and then press **Enter**:
`/opt/uas/aps/scripts/killDbServer.sh`
- 7 When the message, "...Starting DB Server" displays, you have completed this procedure.

Creating a selector type

Creating a selector type

At the APS Administration Tool screen

- 1 Select the Selector Types folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.
The Selector Type Properties window opens.

Selector Type Properties window

- 3 Perform the following:
 - a Enter a display name for the Selector Type.

If	Do
you want to Cancel	step 4
you want to Submit the new information	step 5

- 4 Click Cancel. Go to step [7](#).
- 5 Click Submit.

If	Do
you attempted to add a non-unique selector type	step 6
the operation was successful	step 7

- 6** Enter a unique selector type in the Non-unique Selector Type window and click Submit.
- 7** You have completed this procedure.

Listing selector types

Listing selector types

At the APS Administration Tool Screen

- 1 Select the Selector Types folder in the Administration Container Tree.

The Contents table is populated with the selector types in the APS database.

- 2 You have completed this procedure.

Deleting a selector type

This procedure enables you to delete a selector type and its associated selector values from the database.

Note: Before deleting a selector type, ensure that the deletion will not affect call processing.

Deleting a selector type

At the APS Administration Tool screen

- 1 Select the Selector Types folder in the Administration Container Tree.

The Contents table is populated with the selector types in the APS database.

- 2 In the Contents table, select the selector type to be deleted.

- 3 Click the Delete button on the menu tool bar.

The Delete Provisionable Entity Warning window opens.

If	Do
you want to submit the operation	step 4
you want to cancel	step 5

- 4 Click OK. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Adding a selector value to a selector type

Adding a selector value to a selector type

At the *APS Administration Tool* screen

- 1 Select the Selector Values folder in the Administration Container Tree.

The Contents table is populated with the selector values in the APS database.

- 2 In the Contents table, select the selector value to be copied.
- 3 Click the Copy button on the menu tool bar.
- 4 Select the Selector Types folder in the Administration Container Tree.
The Contents table is populated with the selector types in the APS database.
- 5 Select a Selector Type in the Contents table.
- 6 Click the Paste button on the menu tool bar.

If

Do

the operation was successful

step [8](#)

the selector value contains a non-unique Call Processing Value

step [7](#)

- 7 Change the Call Processing Value by performing the procedure [Editing a selector value on page 93](#).

Note: The Call Processing Selector Value is determined according to network-wide call processing requirements. Thus, care must be taken when entering this value to ensure that it and the Display Selector Value uniquely identify the Selector Value for use during call processing.

- 8 You have completed this procedure.

Cutting a selector value from a selector type

This procedure enables you to cut a selector value from a selector type.

Note: Before cutting the selector value from the selector type, ensure that the deletion will not affect call processing.

Cutting a selector value from a selector type

At the APS Administration Tool screen

- 1 Expand the Selector Types folder in the Administration Container Tree.
A list of selector types appears in the Administration Container Tree.
 - 2 In the Audio Container Tree, select a selector type containing the selector values you wish to cut.
The selector values associated with the selector type appear in the Contents table.
 - 3 In the Contents table, select the selector value to be deleted.
 - 4 Click the Cut button on the menu tool bar.
The Cut Entity from Administrative Entity Warning window opens.
- | If | Do |
|----------------------------------|------------------------|
| you want to submit the operation | step 5 |
| you want to cancel | step 6 |
- 5 Click OK. Go to step [7](#).
 - 6 Click Cancel.
 - 7 You have completed this procedure.

Creating a selector value

Creating a selector value

At the APS Administration Tool screen

- 1 Select the Selector Values folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.
The Selector Value Properties window opens.

Selector Value Properties window

- 3 Enter the following information about the selector value:
 - Display Selector Value
 - Call Processing Selector Value

If	Do
you want to cancel	step 4
you want to submit the operation	step 5

- 4 Click Cancel. Go to step [6](#).
- 5 Click Submit.
- 6 You have completed this procedure.

Listing selector values

Listing selector values

At the APS Administration Tool Screen

- 1 Select the Selector Values folder in the Administration Container Tree.
The Contents table is populated with the selector values in the APS database.
- 2 You have completed this procedure.

Deleting a selector value

This procedure enables you to delete a selector value from the database.

Note: Before deleting a selector value, ensure that the deletion will not affect call processing.

Deleting a selector value

At the APS Administration Tool screen

- 1 Select the Selector Values folder in the Administration Container Tree.

The Contents table is populated with the selector values in the APS database.

- 2 In the Contents table, select the selector value to be deleted.
- 3 Click the Delete button on the menu tool bar.

The Delete Provisionable Entity Warning window opens.

If	Do
----	----

you want to submit the operation	step 4
----------------------------------	------------------------

you want to cancel	step 5
--------------------	------------------------

- 4 Click OK. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Editing a selector value

Editing a selector value

At the APS Administration Tool screen

- 1 Select the Selector Values folder in the Administration Container Tree.

The Contents table is populated with the selector values in the APS database.

- 2 In the Contents table, select the selector value to be edited.
- 3 Click the Edit button on the menu tool bar.

The Selector Value Properties window opens.

If	Do
you want to submit the operation	step 4
you want to cancel	step 5

- 4 Click Submit. Go to step [6](#).

- 5 Click Cancel.

- 6 You have completed this procedure.

Creating users

This procedure enables you to add new users to the system.

The following is useful information to be aware of before you create new users in the audio management system:

- Permission group defines what users can do on the system, for example, what screens they can access.
 - Administration permission gives the user all permissions.
 - Audio Management permission allows the user to update audio only.
- Program group is a set of users.

Note: If a user is to have the ability to view language version folders, the user must be added to the Admin program group.

- The password and verify password are 4–8 characters, alphanumeric, and case-sensitive.
- When you create new users, it is advisable to then perform a database backup. This ensures that the new user information will be available if an emergency restoration of the database for the system is ever required.

Creating users

At the APS Administration Tool Screen

- 1 Select the Users folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.

The User Properties window opens.

User Properties window

3 Enter the following information about the user.

- User ID

Note 1: The new user ID cannot be the same as a user ID that exists in the database.

Note 2: The maximum length of a user ID is 12 characters.

- User Name
- Password
- Verify Password
- Permission Group

Note: Click the Permission Group List button to pull down a list of available Permission Groups.

- Set Cache Flag
- User Status
- User Status Comment

If

Do

you want to Submit the new user information

step [4](#)

	If	Do
	you want to Cancel the addition operation	step 5

- 4 Click Submit. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Listing users

Listing users

At the APS Administration Tool Screen

- 1 Select the Users folder in the Administration Container Tree.
The Contents table is populated with the Users in the APS database.
- 2 You have completed this procedure.

Editing user profiles

Editing user profiles

At the APS Administration Tool Screen

- 1** Select the Users folder in the Administration Container Tree.
The Contents table is populated with the users in the APS database.
- 2** Select a User in the Contents table whose profile is to be changed.
- 3** Click the Edit button on the menu tool bar.
The User Properties window opens.
- 4** Change any of the following information:
 - User Name
 - Password
 - Verify Password
 - Permission Group
 - Set Cache Flag
 - User Status
 - User Status Comment

If	Do
you want to Submit the new user information	step 5
you want to Cancel the editing operation	step 6

- 5** Click Submit. Go to step [7](#).
- 6** Click Cancel.
- 7** You have completed this procedure.

Deleting users from the database

Deleting users from the database

At the APS Administration Tool Screen

- 1 Select the Users folder in the Administration Container Tree.
The Contents table is populated with the users in the APS database.
- 2 In the Contents table, select the user to be deleted from the database.
- 3 Click the Delete button on the menu tool bar.
The Delete Provisionable Entity Warning window opens.

If	Do
you want to delete the user from the database	step 4
you want to cancel the delete operation	step 5

- 4 Click OK. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

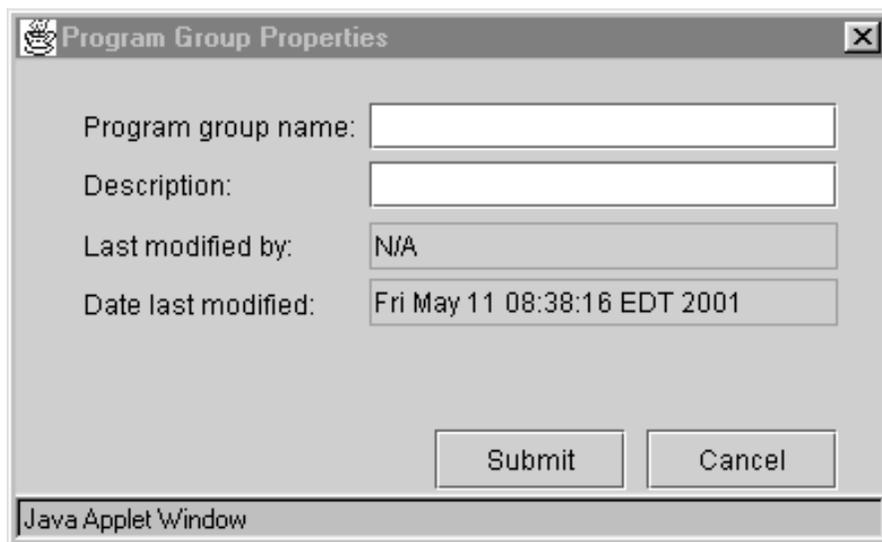
Creating a program group

Creating a program group

At the *APS Administration Tool* screen

- 1 Select the Program Groups folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.
The Program Group Properties window opens.

Program Group Properties window



Program group name:

Description:

Last modified by: N/A

Date last modified: Fri May 11 08:38:16 EDT 2001

Submit Cancel

Java Applet Window

- 3 Enter the following information:
 - Program Group Name
 - Description

Note: Program Group names cannot begin with the dollar sign (\$).

If	Do
you want to Cancel	step 4
you want to Submit the new information	step 5

- 4 Click Cancel. Go to step [7](#).

- 5 Click Submit.
- 6 Determine whether you want to add user IDs, segment IDs, or package IDs to the new program group.

If

you only want to add a program group

you want to add user IDs, segment IDs, or package IDs to the new program group

Do

step [7](#)

Procedure [Adding user IDs, segment IDs, or package IDs to a program group on page 104](#)

- 7 You have completed this procedure.

Listing program groups

Listing program groups

At the APS Administration Tool Screen

- 1 Select the Program Groups folder in the Administration Container Tree.
The Contents table is populated with the program groups in the APS database.
- 2 You have completed this procedure.

Deleting a program group

This procedure enables you to delete a program group from the database.

Note: You cannot remove a program group that is associated with a provision set. Thus, you must first remove the program group references to the provision set. For more information, see [Cutting program groups from a provision set on page 114](#).

Deleting a program group

At the APS Administration Tool screen

- 1 Select the Program Groups folder in the Administration Container Tree.

The Contents table is populated with the program groups in the APS database.

- 2 Scroll through the Contents table and select the program group to be deleted.

- 3 Click the Delete button on the menu tool bar.

The Delete Provisionable Entity Warning window opens.

If	Do
-----------	-----------

you want to delete the program group from the database
--

step 4

you want to cancel the delete operation

step 5

- 4 Click OK. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Adding user IDs, segment IDs, or package IDs to a program group

This procedure enables you to assign segment IDs, package IDs, or user IDs to an existing program group.

Note: You can both assign and remove user IDs, package IDs, and segment IDs at the same time.

Adding user IDs, segment IDs, or package IDs to a program group

At the APS Administration Tool screen

- 1 Determine whether you want to add user IDs, segment IDs, or package IDs to the program group.

If	Do
you want to add user IDs to the program group	step 2
you want to add segment IDs or package IDs to the program group	step 9

- 2 Select the Users folder in the Administration Container Tree.
The Contents table is populated with the users in the APS database.
- 3 Select a user ID in the Contents table to be copied into the program group.
Note 1: If the user is to have the ability to view language version folders, add the user to the Admin program group.
Note 2: The Admin user must not be a member of any program group other than the Admin program group.
- 4 Click the Copy button on the menu tool bar.
- 5 Select the Program Groups folder in the Administration Container Tree.
The Contents table is populated with the program groups in the APS database.
- 6 Select a program group in the Contents table.
- 7 Click the Paste button on the menu tool bar.

- 8** Determine whether you want to add other user IDs to the program group.
-
- | If | Do |
|---|-------------------------|
| you want to add other user IDs to the program group | step 3 |
| you don't want to add other user IDs to the program group | step 15 |
-
- 9** Click the Filter button in the Provisionable Entities panel. The Segments Filter Dialog window opens.
- 10** Determine whether you want to add segment IDs or package IDs to the program group.
-
- | If | Do |
|--|-------------------------|
| you want to add segment IDs to the program group | step 11 |
| you want to add package IDs to the program group | step 12 |
-
- 11** Click the Include Segments Only radio button.
- a** Select the type of segments to be included by checking the appropriate boxes.
- Note:** The system default is to include all segments if you don't check any of the boxes.
- b** Click OK.
- The Provisionable Entities table is populated with audio packages in the APS database of the type that you selected.*
- c** Select the appropriate ID in the Provisionable Entities table to be copied to the Program Group.
- d** Click the Copy button on the menu tool bar. Go to step [13](#).
- Note 1:** To add the segment IDs, you must be a member of the program group to which the segment IDs are being added. If necessary, log out and then log back in as an appropriate user.
- Note 2:** The Admin user must not be a member of any program group other than the Admin program group.
- 12** Click the Include Packages Only radio button.
- a** Click OK.

The Provisionable Entities table is populated with audio packages in the APS database.

- b** Select the appropriate ID in the Provisionable Entities table to be copied to the Program Group.
- c** Click the Copy button on the menu tool bar.

Note 1: To add the package IDs, you must be a member of the program group to which the package IDs are being added. If necessary, log out and then log back in as an appropriate user.

Note 2: The Admin user must not be a member of any program group other than the Admin program group.

- 13** Select the Program Groups folder in the Administration Container Tree.

The Contents table is populated with the program groups in the APS database.

- 14** Select a program group in the Contents table.
- 15** You have completed this procedure.

Cutting user IDs, segment IDs, or package IDs from a program group

This procedure enables you to cut segment IDs, package IDs, or user IDs from an existing program group.

Note: You can both add and cut user IDs, package IDs, and segment IDs at the same time.

Cutting user IDs, segment IDs, or package IDs from a program group

At the APS Administration Tool screen

- 1 Expand the Program Groups folder in the Administration Container Tree.

The Administration Container Tree is populated with the program groups in the APS database.

- 2 In the Administration Container Tree, click the program group that contains the user ID, segment ID, or package ID to be cut.

The Contents table is populated with the contents of the selected program group.

- 3 Select a user ID, segment ID, and/or package ID in the Contents table to be cut from the program group.

- 4 Click the Cut button on the menu tool bar.

The Cut Entity from Administrative Entity Warning window opens.

If	Do
you want to Cancel	step 5
you want to Submit the operation	step 7

- 5 Click Cancel. Go to step [11](#).

- 6 Click OK.

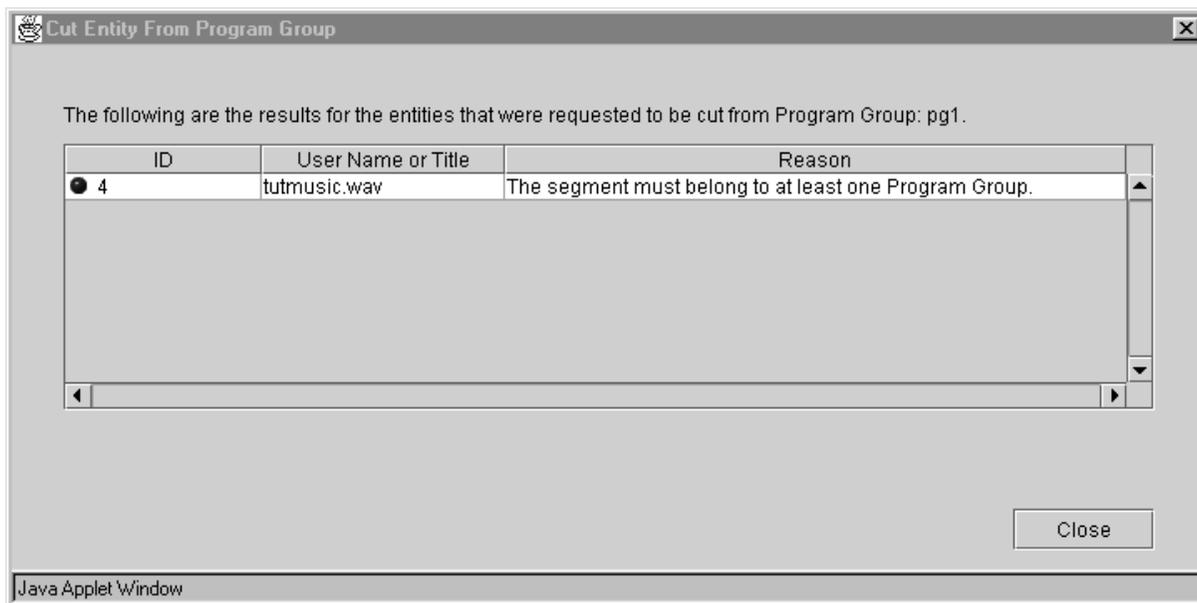
The Cut Entity from Administrative Entity window opens.

If	Do
you wish to view detail about the operation	step 7
you don't wish to view detail about the operation	step 10

- 7 Click View Detail.

The Cut Entity from Program Group window opens.

Cut Entity from Program Group window



a Examine the detail.

If

you were unable to cut a segment or package ID because they would, as a result, no longer be associated with any program group

the operation was successful, or the operation was unsuccessful because you selected an invalid entity ID or due to an unspecified database error

Do

step [8](#)

step [10](#)

- 8** Click Close in the Cut Entity from Program Group window.
 - a** Create a temporary program group to contain the entities that you are trying to cut. Ensure that you also add a user to the program group. For more information, see the procedure [Creating a program group on page 100](#).
 - b** Perform this procedure again, starting at step [1](#).
- 9** Click Close in the Cut Entity from Program Group window.
- 10** Click Close in the Cut Entity from Administration Entity window.
- 11** You have completed this procedure.

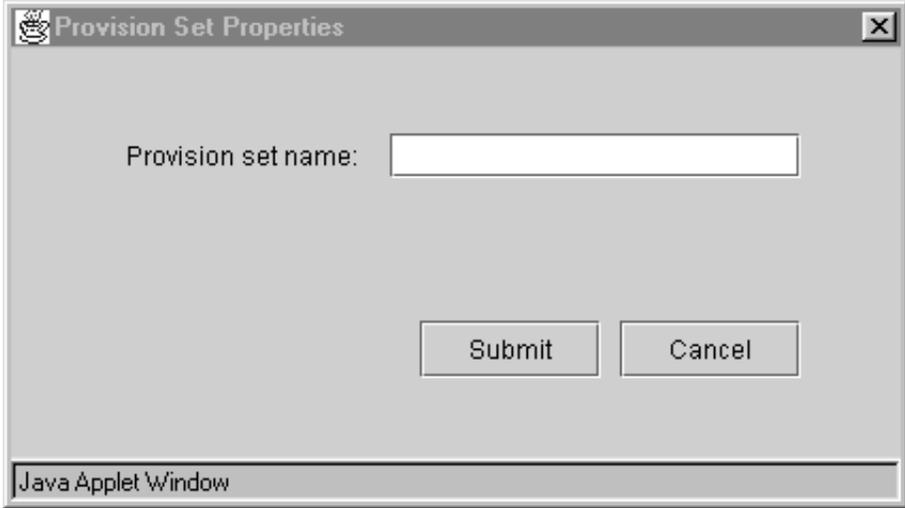
Creating a provision set

Creating a provision set

At the APS Administration Tool screen

- 1 Select the Provision Sets folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.
The Provision Set Properties window opens.

Provision Set Properties window



- a Enter the new Provision Set name.

If	Do
you want to Submit the new information	step 4
you want to Cancel the new information	step 3

- 3 Click Cancel. Go to step [13](#).
- 4 Click Submit.

- 5** Determine whether you want to add program groups to the new provision set.
-
- | If | Do |
|---|-------------------------|
| you only want to add a provision set | step 13 |
| you want to add program groups to the new provision set | step 6 |
-
- 6** Select the Program Groups folder in the Administration Container Tree.
- The Contents table is populated with the program groups in the APS database.*
- 7** Select a program group in the Contents table to be copied into the new provision set.
- 8** Click the Copy button on the menu tool bar.
- 9** Select the Provision Sets folder in the Administration Container Tree.
- The Contents table is populated with the provision sets in the APS database.*
- 10** Select the new provision set in the Contents table.
- 11** Click the Paste button on the menu tool bar.
- 12** Determine whether you want to add other program groups to the new provision set.
-
- | If | Do |
|---|-------------------------|
| you want to add other program groups to the new provision set | step 6 |
| you don't want to add other program groups to the new provision set | step 13 |
-
- 13** You have completed this procedure.

Listing provision sets

Listing provision sets

At the APS Administration Tool Screen

- 1** Expand the Provision Sets folder in the Administration Container Tree.

A list of provision sets appears in the Administration Container Tree.

- 2** In the Administration Container Tree, expand the provision set whose contents you wish to view.

The Contents table is populated with the contents of the selected provision set.

- 3** You have completed this procedure.

Deleting a provision set

This procedure enables you to delete a provision set from the database.

Note: You cannot remove a provision set that is associated with an MS 2000 Series node. Thus, you must first remove the provision set references to the node.

Deleting a provision set

At the APS Administration Tool screen

- 1 Select the Provision Sets folder in the Administration Container Tree.

The Contents table is populated with the provision sets in the APS database.

- 2 Scroll through the Contents table and select the provision set to be deleted.

- 3 Click the Delete button on the menu tool bar.

The Delete Provisionable Entity Warning window opens.

If	Do
you want to delete the provision set from the database	step 4
you want to cancel the delete operation	step 5

- 4 Click OK.

Note: If an “ASAM Provisional Entity List” displays indicating that the provision set cannot be deleted because it is associated with an MS 2000 Series node, the MS 2000 Series node can be deleted. See [Cutting a provision set from an MS 2000 Series node on page 132](#).

- a Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Adding program groups to a provision set

Adding program groups to a provision set

At the APS Administration Tool screen

- 1** Select the Program Groups folder in the Administration Container Tree.
The Contents table is populated with the program groups in the APS database.
- 2** Select a program group in the Contents table to be copied into the provision set.
- 3** Click the Copy button on the menu tool bar.
- 4** Select the Provision Sets folder in the Administration Container Tree.
The Contents table is populated with the provision sets in the APS database.
- 5** Select a provision set in the Contents table.
- 6** Click the Paste button on the menu tool bar.
- 7** You have completed this procedure.

Cutting program groups from a provision set

Cutting program groups from a provision set

At the *APS Administration Tool* screen

- 1 Expand the Provision Sets folder in the Administration Container Tree.

The Administration Container Tree is populated with the provision sets in the APS database.

- 2 In the Administration Container Tree, select the provision set that contains program group whose association with the provision set is to be cut.

The Contents table is populated with the contents of the selected provision set.

- 3 Select a program group in the Contents table to be cut from the provision set.

- 4 Click the Cut button on the menu tool bar.

The Cut Entity from Administrative Entity Warning window opens.

If

Do

you want to Submit the request to cut the program group

step [5](#)

you want to Cancel the request

step [6](#)

- 5 Click OK. Go to step [7](#).
- 6 Click Cancel.
- 7 You have completed this procedure.

Creating an MS 2000 Series node

Creating an MS 2000 Series node

At the APS Administration Tool screen

- 1 Select the Nodes folder in the Administration Container Tree.
- 2 Click the New button on the menu tool bar.
The Node Properties window opens.

Node Properties window

Node Properties

Node Type: Version:

Node name: Last modified by:

IP address: Last modified date:

Last Provision Date

Day: Month: Year:

Misc

Provision Enabled:

Last Provision Primary Language:

Last Provision Secondary Language:

Available Memory (KBytes):

Provision set size (Kbytes):

Prov. set size as % of avail. memory:

3 Enter or read information in the following fields:

- Node Type

Note: Select AMS.

- Node Name
- IP Address
- Last Provision Date panel

All audio files in the APS database created on or after this date will be provisioned to the node. When you add a node, the system default date is entered as the Last Provision Date. Adjust the date, if required, through the pull-down lists.

- Misc panel

This panel contains fields pertaining to audio provisioning for this node:

- Provision Enabled

This field determines whether audio can be provisioned to this node.

- Last Provision Primary Language

This read-only field shows the primary language that was last defined for this node.

- Last Provision Secondary Language

This read-only field shows the secondary language that was last defined for this node.

- Memory available (Bytes)

This read-only field shows the amount of memory that is still available for provisioning on this node

- Provision set size (Kbytes)

This read-only field shows how much memory the current provision set associated with this node uses

- Prov. set size as % of avail. memory

This read-only field shows the provision set size as a percentage of the available memory. It is determined through the following calculation:

$$(\text{Provision set size} / \text{Memory available}) \times 100\%$$

If

you want to Cancel

Do

step [4](#)

	If	Do
	you want to Submit the new information	step 5
4	Click Cancel. Go to step 7 .	
5	Click Submit.	
6	Determine whether you want to add a provision set to the new MS 2000 Series node.	
	If	Do
	you only want to add a new MS 2000 Series node	step 7
	you want to add a provision set to the new MS 2000 Series node	Procedure Adding a provision set to an MS 2000 Series node on page 131
7	You have completed this procedure.	

Listing MS 2000 Series nodes

Listing MS 2000 Series nodes

At the APS Administration Tool Screen

- 1 Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with the MS 2000 Series nodes in the APS database.
- 2 You have completed this procedure.

Deleting an MS 2000 Series node

Deleting an MS 2000 Series node

At the APS Administration Tool screen

- 1 Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with the nodes in the APS database.
- 2 Scroll through the Contents table and select the node to be deleted.
- 3 Click the Delete button on the menu tool bar.
The Delete Provisionable Entity Warning window opens.

If**Do**

you want to delete the MS 2000 Series node from the database

step [4](#)

you want to cancel the delete operation

step [5](#)

- 4 Click OK. Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Enabling provisioning of an MS 2000 Series node

Enabling provisioning of an MS 2000 Series node

At the APS Administration Tool screen

- 1 Select the Nodes folder in the Administration Container Tree.

The Contents table is populated with nodes in the APS database.

- 2 Determine whether you want to change the Last Provision Date for the node. All audio files in the APS database created on or after this date will be distributed to the node during the next audio distribution cycle.

Note: In the event that a complete re-installation of a node is required due to an error condition, resetting the Last Provision Date to the system default will ensure that all audio files provisioned in the APS database will be restored to the node.

If	Do
you want to change the Last Provision Date for the node	step 3
you don't want to change the Last Provision Date for the node	step 10

- 3 Click the node entry in the Contents table.
 - a Click the Edit button on the menu tool bar.

The Node Properties window opens.

Node Properties window

The screenshot shows the 'Node Properties' window with the following fields and values:

- Node Type: AMS (selected in dropdown)
- Version: 420.108.213
- Node name: AMS_1R
- Last modified by: admin
- IP address: 192.168.20.41
- Last modified date: 22 17:50:33 EDT 2003

Last Provision Date panel:

- Day: 19 (selected in dropdown)
- Month: August (selected in dropdown)
- Year: 2003 (selected in dropdown)
- Reset button

Misc panel:

- Provision Enabled: ENABLED (selected in dropdown)
- Last Provision Primary Language: eng
- Last Provision Secondary Language: spa
- Available Memory (KBytes): 10000
- Provision set size (Kbytes): 1484
- Prov. set size as % of avail. memory: 14.84

Buttons: Submit, Cancel

- 4 Select "AMS" in the pull-down menu of the Node Type field.
- 5 In the Last Provision Date panel determine the date that you wish to use.

If

you want to change the Last Provision Date to the system default

you want to change the Last Provision Date to a date other than the system default

Do

step [6](#)

step [7](#)

- 6 Click the Reset button in the Last Provision Date panel.
The Last Provision Date is filled with the system default date.

- a** Go to step [8](#).
- 7** Click the Day, Month, and Year list buttons, respectively, and select an entry in each list.
- 8** In the Misc panel, ensure that Provision Enabled is set to "Enabled".
- 9** Click Submit.
- 10** Click the Enable column box associated with the MS 2000 Series node for which provisioning is to be enabled.
A check mark appears in the Enable column box.
- 11** You have completed this procedure.

Disabling provisioning of an MS 2000 Series node

Disabling provisioning of an MS 2000 Series node

At the APS Administration Tool screen

- 1** Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with nodes in the APS database.
- 2** Click the Enable column box associated with the MS 2000 Series node for which provisioning is to be disabled.
The check mark in the Enable column box disappears.
- 3** You have completed this procedure.

Provisioning an MS 2000 Series node

Audio is normally provisioned to MS 2000 Series nodes automatically, on a scheduled periodic basis. You may also occasionally need to provision audio to a node manually. This procedure describes how to do this.

Storage for provisioned audio

An MS 2000 Series node is normally configured to support real-time provisioning. This means that a node's audio storage memory is divided into two equal parts, each containing 10 Mbyte of storage. One part serves as the active memory while the other serves as the inactive memory. The active memory provides audio for active calls. The inactive memory is available to hold audio being provisioned to the node either through the automatic process or through the manual process. Thus, the node can continue to provide audio for active calls while it is being provisioned with new audio. After the provisioning is completed, the roles of the two memory parts are automatically switched and the inactive memory, containing the newly provisioned audio, becomes the active memory, ready to provide audio for new calls.

It is also possible to provision audio that requires more than 10 Mbyte of a node's storage memory. In that case, however, real-time provisioning on the node cannot be supported. In addition, when the node is to be provisioned with new audio, it must be removed from service and re-booted, and existing calls using the node for audio are dropped.

The MS 2000 Series nodes in a system are all normally provisioned with the same audio. The nodes in this kind of configuration are controlled by the same Gateway Controller. In addition, the total number of nodes configured in the system ensures compliance with the "n+1" engineering requirement that enough nodes are always available to provide announcements for the projected call demand even if one of the nodes is removed from service. When audio to be provisioned to a node exceeds the node's available 20 Mbyte audio storage memory capacity, requiring that the audio be stored on two nodes rather than only on one, twice the normal number of nodes must be configured in the system in order to provide the required redundant audio availability. In this configuration, the group of nodes containing the first part of the audio collection must all be controlled by one Gateway Controller and the group of nodes containing the second part of the audio collection must all be controlled by another Gateway Controller.

Provisioning error conditions

Prior to the provisioning process, the APS builds a segment configuration file and a binary audio file for the audio being provisioned. During the provisioning process, these two files are sent to the MS 2000 Series node, through HTTP. Thus, during the provisioning process errors may be caused by the APS database, by the HTTP interface, by the MS 2000 Series node, or by the distribution and communication between the MS 2000 Series node and the APS.

If an error occurs while you are attempting to provision a node, the error is logged in the error dialog box on the terminal screen and on the CS 2000 Management Tool, in the Audio Distributor Manager log file:

Errors that you may see described in the error dialog box include:

- “The audio provisioned is too big to fit into the available audio memory in the device - cannot update any audio.” This message indicates that the MS 2000 Series node cannot receive any more audio. The size of the provision file exceeds the available memory for audio provisioning.
- “Cannot communicate TPNCP commands to the AMS device - cannot update any audio.” This message indicates that problems have occurred in communicating with the MS 2000 Series node from the APS. This may be because the MS 2000 Series node is powered off or because it is not accessible on the network.
- “Cannot communicate via HTTP to the AMS device - cannot update any audio.” This message indicates that problems have occurred during attempts by the APS to communicate with the MS 2000 Series node through the HTTP interface. The web server interface user account ID and password stored in the APS system parameters table may differ from those in the web server account on the MS 2000 Series node.
- “An internal APS server problem is encountered; please check on the log for further information - cannot update any audio.” This message indicates that problems have occurred in communicating with the MS 2000 Series node from the APS. This may be because the MS 2000 Series node is powered off or because it is not accessible on the network.
- “An AMS unspecified error is encountered - please contact the administrator.” Because the error is unspecified, you should view the Audio Distributor Manager log file, on the CS 2000 Management Tool, at location, */opt/uas/aps/log/admanager<date>.log*

The errors that you may see logged to the Audio Distributor Manager log file include:

- problems with the APS database, indicated in log messages such as
 - Oracle Error: xxxxxx
 - Error writing to DB
 - Problem opening segments file
 - Error reading from DB
 - Error getting node ip address
 - Problem opening directory: xxxxx
 - Error getting node ip address
 - Invalid type of segment with id
 - Error creating variable in the database in get lng display
 - Error creating set in the database getting elements disp values

Depending on the error, first verify that the Oracle DB is up and running by logging into the APS Audio Management GUI and viewing audio segments. Another possible cause is an error on an audio segment id. To check for this, access the audio segment in the APS GUI and try to play it locally. Another cause may be that the audio id is missing on the APS file system but is referenced in the database.

- problems in communication between the APS and MS 2000 Series node, through HTTP, indicated in log messages such as
 - HttpURLConnection: call to connect failed
 - HttpURLConnection::sentGet: send failed
 - HttpURLConnection: error sending crlf
 - HttpURLConnection::sendPost: error reading
 - HttpResponse::parseUnauthHdr: missing nonce parameter
 - HttpUpload: connect error
 - HttpUpload: sendPost failed
 - HttpUpload: connect error

To resolve the error, verify that the MS 2000 Series node is up and on the network by accessing the MS 2000 Series node web server. Verify that the APS and MS 2000 Series node user account ids and passwords agree. To adjust the APS MS 2000 Series user id and password, perform the procedure [Editing APS System Parameters on page 78](#)

- problems in communication with the MS 2000 Series node (connection type issues), indicated in log messages such as:
 - Unable to open remoteBoard
 - Error getting event from board
 - Error contacting device
 - Timed out waiting on request
 - Problem contacting the MS 2000 Series node - aborting provisioning
 - Problem gathering information from the MS 2000 Series node - aborting provisioning
 - Failed to send voice prompt file to the MS 2000 Series node
 - Failed to receive confirmation of VP download from the MS 2000 Series node
 - Failed to send segments file to the MS 2000 Series node
 - Failed to receive MS 2000 Series node audio buffer switch confirmation
 - The MS 2000 Series node is not ready for provisioning at this time

To resolve the error, verify that the MS 2000 Series node can be accessed on the network by accessing the web server on the MS 2000 Series node and logging in. Verify that the APS and MS 2000 Series node web server user account ids and passwords agree.

- the MS 2000 Series node does not need provisioning; there were no audio changes since the last provisioning request.
- another full, automated provisioner is already running; two provisioners cannot run simultaneously, indicated by the message, "Another provisioning request is currently in process, cannot provision."
- the audio being provisioned to the node was not properly set up; for example, a provision set may not have been defined for the node to which the set is being provisioned.
- the memory requirement for audio provisioning exceeds the allocated memory space that is available. The MS 2000 Series node has a maximum 20-Mbyte memory for storage of audio. If the 10 Mbyte memory storage limit for new audio is exceeded by the size of the provision set, the message "There was not enough available memory on the MS 2000 Series node ..." displays. In addition, when you check the Node Properties window the "Prov. set size as % of avail. memory" field in the Misc panel will display the total

percentage of the available memory space that is used by the provision set, in red, along with an appropriate warning message. Before continuing, you should ensure that the system is appropriately configured to support this kind of provisioning activity (see the section entitled, [Storage for provisioned audio on page 124](#) for additional information).

You may also see potential error conditions displayed in a dialog box after you have requested manual provisioning. One such warning alerts you that proceeding with manual provisioning could result in any active calls being dropped. This condition normally occurs after you have just provisioned a node on which a call is still active and you have submitted another request to provision the node. The roles of the two memory parts, “active” and “inactive” have been switched as the result of the first provisioning activity and the system has determined that the next provisioning activity will occur on the memory part that is still supporting the call. Although the system will allow you to overwrite this memory part, it will drop the active call.

Provisioning an MS 2000 Series node

At the APS Administration Tool screen

- 1 Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with MS 2000 nodes in the APS database.
- 2 Determine whether you want to change the Last Provision Date for the node. All audio files in the APS database created on or after this date will be distributed to the node during the next audio distribution cycle.

Note: In the event that a complete re-installation of a node is required due to an error condition, resetting the Last Provision Date to the system default will ensure that all audio files provisioned in the APS database will be restored to the node.

If	Do
you want to change the Last Provision Date for the node	step 3
you don't want to change the Last Provision Date for the node	step 7

- 3 Click the node entry in the Contents table.
 - a Click the Edit button on the menu tool bar.

The Node Properties window opens.

Node Properties window

The screenshot shows the 'Node Properties' window with the following fields and values:

- Node Type: AMS
- Version: 420.108.213
- Node name: AMS_1R
- Last modified by: admin
- IP address: 192.168.20.41
- Last modified date: 22 17:50:33 EDT 2003

The 'Last Provision Date' panel contains:

- Day: 19
- Month: August
- Year: 2003
- Reset button

The 'Misc' panel contains:

- Provision Enabled: ENABLED
- Last Provision Primary Language: eng
- Last Provision Secondary Language: spa
- Available Memory (KBytes): 10000
- Provision set size (Kbytes): 1484
- Prov. set size as % of avail. memory: 14.84
- Submit button
- Cancel button

- 4 In the Last Provision Date panel determine the date that you wish to use.

If	Do
you want to change the Last Provision Date to the system default	step 5
you want to change the Last Provision Date to a date other than the system default	step 6

- 5 Click the Reset button in the Last Provision Date panel.
The Last Provision Date is filled with the system default date.
- a Click Submit.

Adding a provision set to an MS 2000 Series node

Adding a provision set to an MS 2000 Series node

At the APS Administration Tool screen

- 1** Select the Provision Sets folder in the Administration Container Tree.
The Contents table is populated with the provision sets in the APS database.
- 2** Select a provision set in the Contents table to be copied into the new MS 2000 Series node.
- 3** Click the Copy button on the menu tool bar.
- 4** Select the Nodes folder in the Administration Container Tree.
The Contents table is populated with the MS 2000 Series nodes in the APS database.
- 5** Select the MS 2000 Series node in the Contents table to which the provision set is to be added.
- 6** Click the Paste button on the menu tool bar.
- 7** You have completed this procedure.

Cutting a provision set from an MS 2000 Series node

Cutting a provision set from an MS 2000 Series node

At the *APS Administration Tool* screen

- 1 Expand the Nodes folder in the Administration Container Tree.
The Administration Container Tree is populated with MS 2000 Series nodes in the APS database.
- 2 In the Administration Container Tree, click the MS 2000 Series node from which a provision set is to be cut.
The contents table is populated with provision sets contained by the specified MS 2000 Series node.
- 3 In the Contents table, select the provision set to be deleted.
- 4 Click the Cut button on the menu tool bar.
The Cut Entity from Administrative Entity Warning window opens.

If**Do**

you want to cut the provision set from the MS 2000 Series node

step [5](#)

you want to cancel

step [6](#)

- 5 Click OK. Go to step [7](#).
- 6 Click Cancel.
- 7 You have completed this procedure.

Adding audio to the database

Adding audio to the database

At the APS Audio Management Tool screen

- 1 Click the File Upload button on the menu tool bar. For more information, see the procedure [Uploading audio files on page 139](#).
- 2 Include import segments only. For more information, see the procedure [Importing physical segments on page 145](#).
- 3 Import the uploaded audio files to the APS database. For more information, see the procedure [Importing physical segments on page 145](#).
- 4 Include physical segment only. For more information, see the procedure [Filtering physical segments on page 142](#).
- 5 You have completed this procedure.

Adding audio to a language folder

Adding audio to a language folder

At the APS Audio Management Tool screen

- 1 Select a language version subfolder with a selector type of Variable Audio.
- 2 Click the Bulk Import button to add physical segments to the language version folder. For more information, see the procedure [Adding physical segments to a language version folder on page 209](#).

Note: Performing a bulk import of segments to language version folder is a database-, cpu-, and network-intensive operation. Therefore, bulk import operations should be coordinated in order to minimize the impact on APS GUI users.

- 3 You have completed this procedure.

Deleting audio from the database

Deleting audio from the database

At the APS Audio Management Tool screen

- 1 Click the Find button on the menu tool bar. For more information, see the procedure [Finding provisionable entities on page 215](#).
- 2 Cut the provisionable entities from the container. For more information, see the procedure [Cutting a segment from a container on page 221](#).
- 3 Click the Delete button on the menu tool bar. For more information, see the procedure [Deleting a provisionable entity on page 218](#).
- 4 You have completed this procedure.

Provisioning audio in multiple languages

Audio can be provisioned in multiple languages. For example, to create the phrase, “Today is Monday,” an audio set is created. The set type in the audio set is specified as “weekday.” Then the audio physical segment, “Today is <selector value>,” is added to the audio set with a selector value, “Monday.” In order to provision the set, the selector value must be specified as the default. When the audio physical segment is added, an audio variable must be created. For the phrase above, the audio variable type would be specified as “weekday” and the subtype as “Monday.” The default language in which “Monday” is to be played, and any required variable values, would then be specified. The audio variable, as defined, would thus reference the language version folder for the correct recording of the audio. The audio variable would then be added to the set.

The same process would be followed for each language in which “Monday” is to be played. Each set could then be added to an audio sequence. At runtime the information would then be provisioned to a MS 2000 Series node or gateway and the audio physical segment would be played in the order specified for the sequence, in the language specified.

Provisioning audio in multiple languages

At the APS Audio Management Tool screen

- 1 Create an audio set and specify a set type. For more information, see the procedure [Creating audio sets on page 171](#).
- 2 Add segments to the set and specify selector values and a default set element. For more information, see the procedure [Adding segments to an audio set on page 173](#).
- 3 Create an audio variable and specify the variable type, variable subtype, default language, and variable value. For more information, see the procedure [Creating audio variables on page 193](#).
- 4 Bulk add the segments to a language version folder. For more information, see the procedure [Adding physical segments to a language version folder on page 209](#).
- 5 Add the audio variable to the audio set. For more information, see the procedure [Adding segments to an audio set on page 173](#).

- 6** Add the audio set to the audio sequence. For more information, see the procedure [Adding segments to an audio sequence on page 187](#).
- 7** Reorder the elements of the sequence. For more information, see the procedure [Reordering sequence elements on page 189](#).
- 8** You have completed this procedure.

Building an export package

Building an export package

At the APS Audio Management Tool screen

- 1 Upload the audio files from the client machine to the APS. For more information, see the procedure [Uploading audio files on page 139](#).
- 2 Import the uploaded audio files to the APS database. For more information, see the procedure [Importing physical segments on page 145](#).
- 3 Set the physical segments filter to include only physical segments. For more information, see the procedure [Filtering physical segments on page 142](#).
- 4 Create a new audio sets folder. For more information, see the procedure [Creating audio sets on page 171](#).
- 5 Add physical segments to the audio sets folder. For more information, see the procedure [Adding segments to an audio set on page 173](#).
- 6 Add the simple set to an audio package. For more information, see the procedure [Adding simple sets to an export package on page 160](#).
- 7 Add physical segments to an audio package. For more information, see the procedure [Adding physical segments to an export package on page 159](#).
- 8 Lock the audio package. For more information, see the procedure [Locking and unlocking an export package on page 157](#).
- 9 Export the audio package. For more information, see the procedure [Exporting audio packages on page 164](#).
- 10 FTP the export file from your export directory to a remote gateway. For more information, see the procedure [Distributing audio packages on page 167](#).
- 11 You have completed this procedure.

Uploading audio files

This procedure enables you to upload individual audio files and zip files containing multiple audio files from the client machine to the APS. Up to five files can be uploaded at one time, with a total uploaded file size of 5MB allowed. The audio files are uploaded either to your import directory or to your bulk import directory.

Note 1: Files can be zipped using any standard WinZip software. After uploading is complete, the audio management software automatically unzips the zipped files.

Note 2: Only language-specific variables with special, reserved file names (for example, eng0, the file name for “zero” spoken in English in a rising tone) can be imported from the bulk import directory.

Note 3: Complex announcements for features like Call Forwarding Remote Access (CFRA) cannot be imported from the bulk import directory.

Uploading audio files

At the APS Audio Management Tool screen

- 1 Click the File Upload button on the menu tool bar.
The APS File Upload page opens in a new browser window.

APS File Upload window

APS File Upload

Please select the file/s you want to upload - use the BROWSE button

Select an audio file (aud, zip,..)		Browse...
Select an audio file (aud, zip,..)		Browse...
Select an audio file (aud, zip,..)		Browse...
Select an audio file (aud, zip,..)		Browse...
Select an audio file (aud, zip,..)		Browse...

Please choose the directory you want the file/s uploaded to

▼

- 2 Enter up to five files that reside on the client file system.
- 3 Specify if the files are uploaded to the import or bulk import directory.
- 4 Click the Upload File(s) button to upload the specified files to the APS.

Note: Further action must not be taken until the system completes uploading the selected files to the APS.

The system uploads the files to the APS, and if any of the files have the .ZIP extension, the system extracts the files contained in the file. The files appear in the import or bulk import directory.

- 5 In the APS File Upload Result window, the system displays the file name, file content, and file size for each specified file, and also the number of files that it has unzipped. Examine this information to ensure that the files were uploaded correctly.

Check for non-zero file sizes and ensure that all the .ZIP files have been extracted.

- 6** Click the Exit button on the menu tool bar.
- 7** You have completed this procedure.

Filtering physical segments

This procedure enables you to set the filter for the Physical Segments table to display a selected range, or type, of physical segments in the database.

You can enter an asterisk (*), as a wildcard, for either the start ID or the end ID, when specifying a range of physical segments. Entering an asterisk for both the start ID and the end ID of the range indicates all items. Entering either a start ID that is greater than the end ID or an invalid value causes an error. The start ID and end ID fields are only enabled when Include Physical Segments Only is selected in the Physical Segments Filter Dialog screen.

Although you can specify either that only import segments or only physical segments will display, you can specify only for physical segments that either the latest version or all versions will display.

Filtering physical segments

At the APS Audio Management Tool screen

- 1 Click the Filter button in the Physical Segments panel.
The Physical Segments Filter window opens.

Physical Segments Filter window

Physical Segments Filter Dialog

Include Segments

Include Import Segments Only Include Physical Segments Only

ID Range

Start ID: * End ID: *

Include Versions

Latest Version Only All Versions

OK Cancel

Warning: Applet Window

If	Do
you want to include physical segments only	step 2
you want to include import segments only	step 3
you want to cancel	step 4

- 2 Click the Include Physical Segments Only radio button.
 - a Enter a start ID and an end ID, or keep the default.
 - b Click the radio button to include latest versions or click the radio button to include all versions.
 - c Click OK.

The Physical Segments table is populated with the physical segments of the type you specified.

Note: If you enter an invalid filter setting, click OK in the Invalid Filter Settings window. Repeat step 2a.

Importing physical segments

This procedure enables you to import a physical segment, uploaded from a client machine, into the database.

Importing physical segments

At the APS Audio Management Tool screen

- 1 Click the Filter button in the Physical Segments panel.
The Physical Segments Filter window opens.
- 2 Click the Include Import Segments Only radio button.
- 3 Click OK.
- 4 Select an import segment in the Physical Segments table.
Note: To select more than one import segment hold down the Shift or Ctrl key on your keyboard and click with your left mouse button.
- 5 Click the Import button on the menu tool bar.
The Physical Segment Property window opens.

Physical Segment Property window

The screenshot shows a Java Applet Window titled "Physical Segment Property". The window contains the following fields and controls:

- ID: 0 (with a checkbox for "User specified")
- Version: 0
- Alias: (empty text box)
- Title: 549_dtmf1237890.raw
- Audio file name: 549_dtmf1237890.raw
- Format: MUPCM mulaw physical (dropdown menu)
- Language: English (dropdown menu)
- Keep in cache
- Description: (empty text area)
- Originator: admin
- Origination date: May 14, 2001
- Last modified by: admin
- Last modified date: May 14, 2001
- Recording date (mm/dd/yyyy): 05/14/2001
- Voice talent: (empty text box)
- Release notes: (empty text area)
- User Defined Field 1: Field type: Time, Field value: 12 Hour Time
- User Defined Field 2: Field type: Time, Field value: 12 Hour Time
- Submit and Cancel buttons

6 Enter the following information about the physical segment.

- ID
- Alias
- Title
- Format (mandatory)

Note: If the segment is to played on an MS 2000 Series node, the segment must be in G.711 mu-law or a-law format.

- Language
- Keep in cache
- Description
- Recording Date (mandatory)

- Voice Talent
- Release Notes
- User Defined Field 1
- User Defined Field 2

If	Do
you want to cancel	step 7
you want to submit the operation	step 8

7 Click Cancel. Go to step [10](#).

8 Click Submit.

If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
you entered an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
the operation was successful	step 9

9 Verify that the segment has been imported.

a Click the Filter button in the Physical Segments panel.

The Physical Segments Filter window opens.

b Click the Include Physical Segments Only radio button.

c Enter a Start ID and End ID to narrow your search.

Note: You can enter the ID shown in the Import Physical Segment Result window in the Start ID and End ID fields to cause the physical segment just imported to display in the Physical Segments table.

d Click either the include Latest Version Only or All Versions radio button.

e Click OK.

The Physical Segments table is populated with the physical segments in the database that match the filter criteria you have specified.

- f** Look in the Physical Segments table for your imported physical segment.
- 10** You have completed this procedure.

Editing physical segment properties

Editing physical segment properties

At the APS Audio Management Tool screen

- 1 Select the physical segment you want to edit in the Physical Segments table, the Contents table, or the Audio Container tree.
- 2 Click the Edit button on the menu tool bar.
The Physical Segment Property window opens.
- 3 Enter changes for the following information about the physical segment.
 - ID
 - Alias
 - Title
 - Release Notes
 - Format
 - Language
 - Keep in cache
 - Description
 - Recording Date
 - Voice Talent
 - User Defined Field 1
 - User Defined Field 2

If	Do
you want to cancel	step 4
you want to submit the operation	step 5

- 4 Click Cancel. Go to step [6](#).
- 5 Click Submit.

If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
the operation was successful	step 6

6 You have completed this procedure.

Replacing audio

This procedure enables you to replace an existing physical segment with audio in the import directory.

Replacing audio

At the APS Audio Management Tool screen

- 1 Select a physical segment in the Physical Segments table, the Contents table, or the Audio Container tree.
- 2 Click the Replace Audio button on the menu tool bar.

The Replace Audio window opens with the segment ID and the list of available audio segments in the user's import directory.

Replace Audio window

Segment ID: 38

Import Audio File Name:

ID 0: 548_dtmf1231234.raw

Format: MUPCM mulaw physical

Submit Cancel

Java Applet Window

- 3 Select an audio file in the Import Audio File Name audio list to replace the file in the database.

- 4 Select the format of the new audio file.

If	Do
you want to submit the operation	step 5
you want to cancel	step 6

- 5 Click Submit.
 - a Click Refresh in the Physical Segments panel.
The version number of the replaced audio is updated.
 - b Go to step [7](#).
- 6 Click Cancel.
- 7 You have completed this procedure.

Cloning a physical segment

This procedure enables you to clone a physical segment in order to create either a new physical segment with a new ID or a new version of the current physical segment. The audio associated with the new physical segment is the same as that of the cloned physical segment.

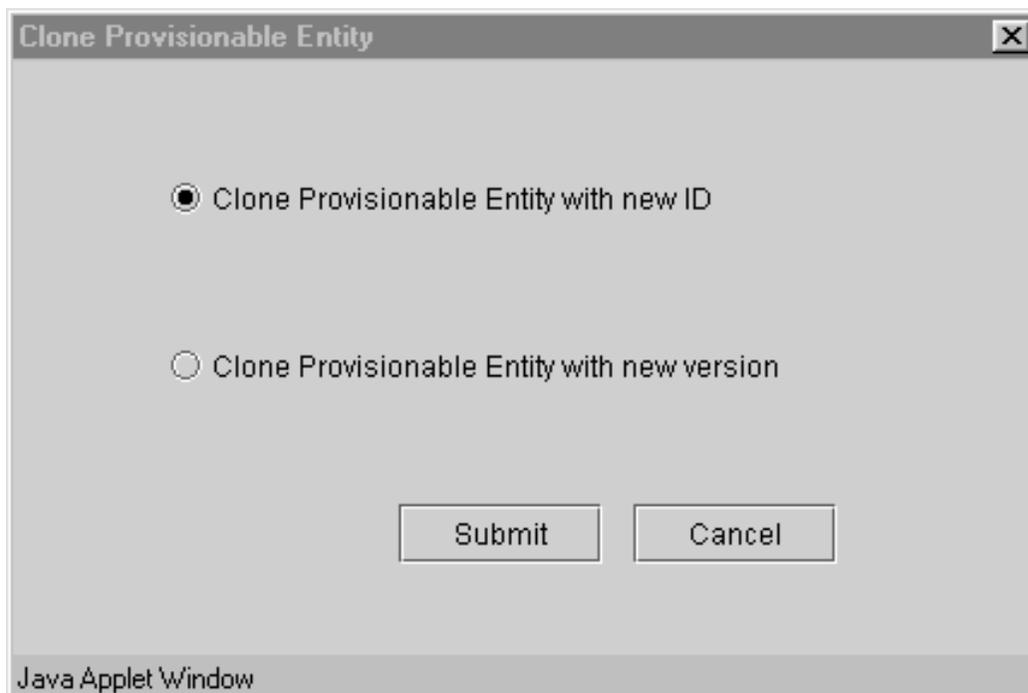
By default, a maximum of three versions of a physical segment can be stored in the database. The Maximum Physical Segment Versions system parameter can, however, be changed in the database.

Cloning a physical segment

At the APS Audio Management Tool screen

- 1 Select a physical segment in the Audio Container Tree, the Contents table, or the Physical Segments table.
- 2 Click the Clone button on the menu tool bar.
The Clone Provisionable Entity window opens.

Clone Provisionable Entity window



If	Do
you want to clone the provisionable entity with a new ID	step 3
you want to clone a provisionable entity with a new version	step 4
you want to cancel	step 5
<p>3 Click Submit.</p> <p><i>The Clone Provisionable Entity window opens.</i></p> <p>a Enter an Alias and Segment ID for the new physical segment.</p> <p>b Click Submit.</p>	
If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
you entered an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
the operation was successful	step 6
<p>4 Click the Clone Provisionable Entity with new version radio button.</p> <p>a Click Submit. Go to step 6.</p> <p>5 Click Cancel.</p> <p>6 You have completed this procedure.</p>	

Creating an export package

Creating an export package

At the *APS Audio Management Tool* screen

- 1 Select the Export Packages folder in the Audio Container tree.
- 2 Click the New button on the menu tool bar.

The Audio Package Properties window opens with a Package ID of 0.

Audio Package Properties window

The screenshot shows the 'Audio Package Properties' window with the following fields and values:

ID:	0	Originator:	admin
Version:	0	Origination date:	May 14, 2001
Alias:	0	Last modified by:	N/A
Title:	Default Title		
Description:	Default description		
Last exported by:	N/A		
Last export date:	N/A		
Lock status:	Unlocked		
Locked/unlocked by:	N/A		
Package format version:	2.1 a		

Buttons: Submit, Cancel

Java Applet Window

- 3 Enter the following information about the package.

- Alias
- Title

- Description
- Package Format Version

If**Do**

you want to cancel

step [4](#)

you want to submit the operation

step [5](#)

4 Click Cancel. Go to step [6](#).**5** Click Submit.

If**Do**you entered an invalid or
non-unique aliasProcedure [Correcting an
invalid or non-unique alias on
page 222](#)

the operation was successful

step [6](#)

6 You have completed this procedure.

Locking and unlocking an export package

This procedure enables you to lock and unlock an export package. An export package can be locked to prevent other users from making changes to it. An export package must be locked before it can be exported to a gateway. A locked export package must first be unlocked before it can be edited or before its content can be changed.

Each time that you unlock an export package, the system creates a new version in the database. By default, the database stores only three versions of an export package. The Maximum Package Versions system parameter can, however, be changed in the database.

Note: The same person who unlocks the package must also lock the package for export.

Locking and unlocking an export package

At the APS Audio Management Tool screen

- 1 Select the Export Packages folder in the Audio Container tree.
The Contents table is populated with the export packages in the APS database.
- 2 Click within the Locked box to lock or unlock the selected export package.
The Change Package Lock Status window opens.

If	Do
you are attempting to lock an audio package and the audio package is already locked	step 3
you are attempting to lock an audio package and the audio package is unlocked by a different user	step 4
you are attempting to lock an audio package and the audio package contains a non-simple set	step 5
if the lock or unlock operation was successful	step 6

- 3 An error dialog window opens.
 - a Read the error message.
 - b Click OK in the error dialog window.
 - c Go to step [2](#).

- 4** An error dialog window opens.
 - a** Read the error message.
 - b** Click OK in the error dialog window.
 - c** Inform the other user that you are locking the export package.
 - d** Go to step [7](#).
- 5** An error dialog window opens.
 - a** Read the error message.
 - b** Click OK in the error dialog window.
 - c** Cut the non-simple set from the export package. For more information, see the procedure [Cutting a segment from a container on page 221](#).
 - d** Go to step [7](#).
- 6** Click OK.
- 7** You have completed this procedure.

Adding physical segments to an export package

This procedure enables you to add physical segments to an export package.

Note: A physical segment cannot be added to an export package when either the export package or the segment is invalid, or when the segment ID is out of the acceptable range for the format version of the export package.

Adding physical segments to an export package

At the APS Audio Management Tool screen

- 1 Click the Refresh button in the Physical Segments panel.
- 2 Select a physical segment in the Physical Segments table.
- 3 Click the COPY button on the menu tool bar.
- 4 Select the Export Packages folder in the Audio Container tree.
- 5 Select an export package in the Contents table.
- 6 Unlock the export package if it is locked. For more information, see the procedure [Locking and unlocking an export package on page 157](#).
- 7 Click the Paste button on the menu tool bar.
- 8 You have completed this procedure.

Adding simple sets to an export package

This procedure enables you to add simple sets (sets that contain only physical segments) to an export package.

Adding simple sets to an export package

At the APS Audio Management Tool screen

- 1 Expand the Audio Sets folder in the Audio Container tree.
- 2 Select an audio set that contains only physical segments.
The Contents table is populated with the contents of the Audio Set.
- 3 Click the Copy button on the menu tool bar.
- 4 Select the Export Packages folder in the Audio Container tree.
- 5 Select an export package in the Contents table.
- 6 Unlock the export package if it is locked. For more information, see the procedure [Locking and unlocking an export package on page 157](#).
- 7 Click the Paste button on the menu tool bar.
- 8 You have completed this procedure.

Editing export package properties

Editing export package properties

At the *APS Audio Management Tool* screen

1 Select the Export Packages folder in the Audio Container tree.
The Contents table is populated with the export packages in the APS database.

2 Select an export package in the Contents table.

3 Click the Edit button on the menu tool bar.

The Audio Package Properties window opens.

4 Change any of the following information about the export package:

- Alias

Note: If you change the alias, it will change for all versions.

- Title
- Description

If

Do

you want to cancel

step [5](#)

you want to submit the operation

step [6](#)

5 Click Cancel. Go to step [7](#).

6 Click Submit.

If

Do

you entered an invalid or non-unique alias

Procedure [Correcting an invalid or non-unique alias on page 222](#)

the operation was successful

step [7](#)

7 You have completed this procedure.

Cloning an export package

This procedure enables you to clone an export package in order to create either a new export package with a new ID or a new version of the current export package.

Note: By default, the database stores a maximum of three versions of an export package. The Maximum Package Versions system parameter can, however, be changed in the database.

Cloning an export package

At the APS Audio Management Tool screen

- 1 Select the Export Packages folder in the Audio Container tree.
The Contents table is populated with a list of export packages.
- 2 Select an export package in the Contents table that you want to clone.
- 3 Click the Clone button on the menu tool bar.
The Clone Provisionable Entity window opens.

If	Do
you want to clone the export package with a new ID	step 4
you want to clone the export package with a new version	step 5
you want to cancel	step 6

- 4 Click Submit.
The Input window opens.
 - a Enter the Alias for the new export package or leave it blank.
 - b Click OK. Go to step [7](#).
- 5 Click the Clone Provisionable Entity with new version radio button.

Note 1: If you are attempting to clone an export package with a new ID, this operation can be performed on either a locked or an unlocked export package.

Note 2: If you are attempting to clone the export package with a new version, this operation can be performed only on a locked export package. If the package is unlocked, first click the Cancel button in the Clone Provisionable Entity window,

lock the package (see the procedure [Locking and unlocking an export package on page 157](#)), and then click the Clone button on the menu tool bar. When the Clone Provisionable Entity window opens, click the Clone Provisionable Entity with new version radio button.

- a Click Submit. Go to step [7](#).
- 6** Click Cancel.
- 7** You have completed this procedure.

Exporting audio packages

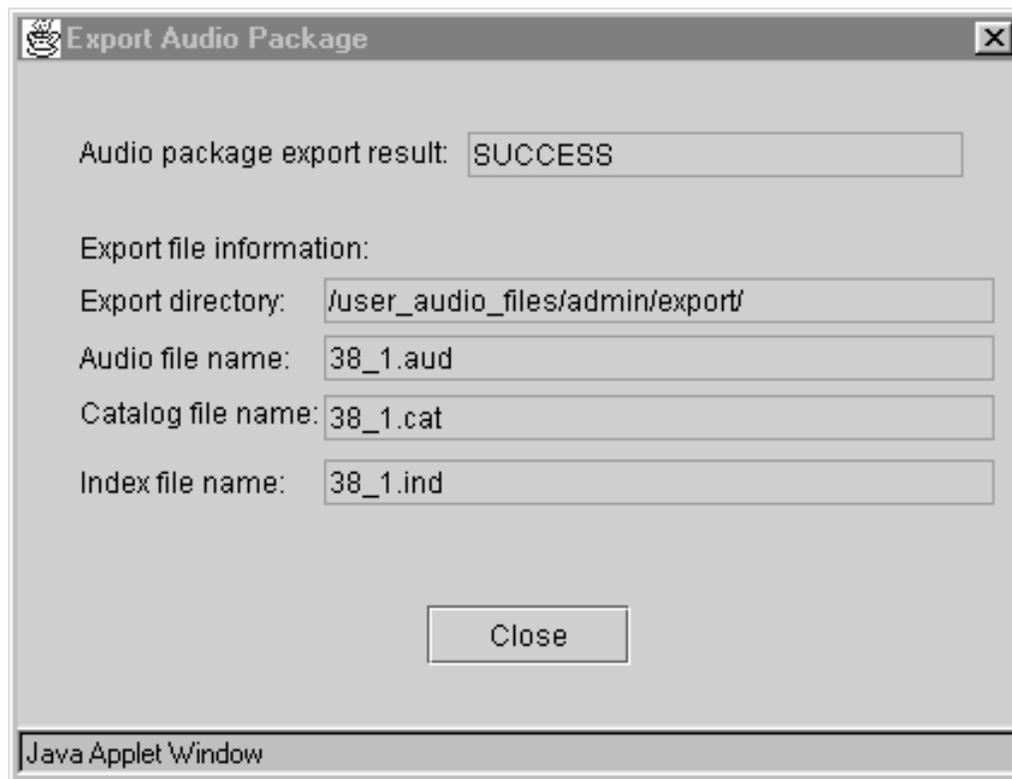
This procedure enables you to export any audio package that contains physical segments and simple sets (simple sets contain only physical segments) out of the database in files of a published format.

Exporting audio packages

At the APS Audio Management Tool screen

- 1** Select the Export Packages folder in the Audio Container tree.
The Contents table is populated with the export packages in the database.
- 2** In the Contents table, select a locked audio package to export. (Lock the package if it is not locked; for more information, see the procedure [Locking and unlocking an export package on page 157.](#))
- 3** Click the Export button on the menu tool bar.
The Export Audio Package window opens.
- 4** Enter the reason for exporting the audio package and then click OK.
The Export Audio Package window opens.

Export Audio Package window



- 5 Read the export result and export file information.
- 6 Click Close.

If	Do
you attempted to export an audio package that another user deleted	step 7
you attempted to export an unlocked audio package	step 8
you attempted to export an audio package that contains invalid physical segments	step 9
you attempted to export an audio package that contains a non-simple set	step 10
the export operation was successful	step 11

- 7 An error dialog window opens.
 - a Read the error message.

Distributing audio packages

This procedure enables you to distribute exported audio packages to a network node such as a Nortel Networks Passport Packet Voice Gateway (PVG). Either a single export package or multiple export packages can be distributed to a network node during one transaction.

Note 1: When an audio package is exported, each of the three files created has the same name but a different extension. For example, if a package ID 25, version 3 is exported, the three files, “25_3.aud,” “25_3.cat,” and “25_3.ind” will be created. When an export package is distributed to a PVG gateway, all three of the files are transferred and the names of the files, as generated during the export function, are preserved in the gateway destination directory.

Note 2: In order to distribute audio packages, an FTP server that accepts the APS export package files must be running on the target gateway.

Distributing audio packages

At the APS Audio Management Tool screen

- 1 Click the Distribute Packages button on the menu tool bar.
The Package Distribution to Gateways window opens.

Package Distribution to Gateways window

APS
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Package Distribution to Gateways

Choose one or more export packages for user: *admin* , group: *admin*

.X	Package ID	Version	Last Export Date	Package Format
<input type="checkbox"/>	Package 25	1	Thu Sep 14 19:26:41 EDT 2000	2.1b
<input type="checkbox"/>	Package 26	1	Thu Sep 14 19:26:50 EDT 2000	3.0a
<input type="checkbox"/>	Package 26	2	Thu Sep 14 19:27:40 EDT 2000	3.0a
<input type="checkbox"/>	Package 26	3	Fri Sep 15 15:53:10 EDT 2000	3.0a
<input type="checkbox"/>	Package 26	4	Tue Oct 24 16:24:58 EDT 2000	3.0a
<input type="checkbox"/>	Package 26	5	Tue Oct 24 16:48:52 EDT 2000	3.0a
<input type="checkbox"/>	Package 2	1	Fri Aug 11 12:08:39 EDT 2000	2.1b
<input type="checkbox"/>	Package 3	1	Tue Aug 08 16:36:14 EDT 2000	3.0a
<input type="checkbox"/>	Package 27	1	Fri Jan 26 10:56:13 EST 2001	2.1a
<input type="checkbox"/>	Package 27	2	Fri Jan 26 12:11:28 EST 2001	2.1a
<input type="checkbox"/>	Package 27	3	Thu Feb 22 07:07:37 EST 2001	2.1a
<input type="checkbox"/>	Package 29	2	Wed Jan 31 13:09:14 EST 2001	NA
<input type="checkbox"/>	Package 31	2	Wed Jan 31 13:39:18 EST 2001	3.0a
<input type="checkbox"/>	Package 38	1	Tue Feb 06 10:29:51 EST 2001	NA
<input type="checkbox"/>	Package 31	1	Tue Feb 13 07:54:11 EST 2001	3.0a

Select all displayed packages

Enter Gateway FTP Information

Gateway IP Address	<input type="text"/>	FTP User ID	<input type="text"/>
Full Path to the Destination Directory	<input type="text"/>	FTP Password	<input type="text"/>

Select a Gateway type PVG ▾

Distribute Selected Package(s)

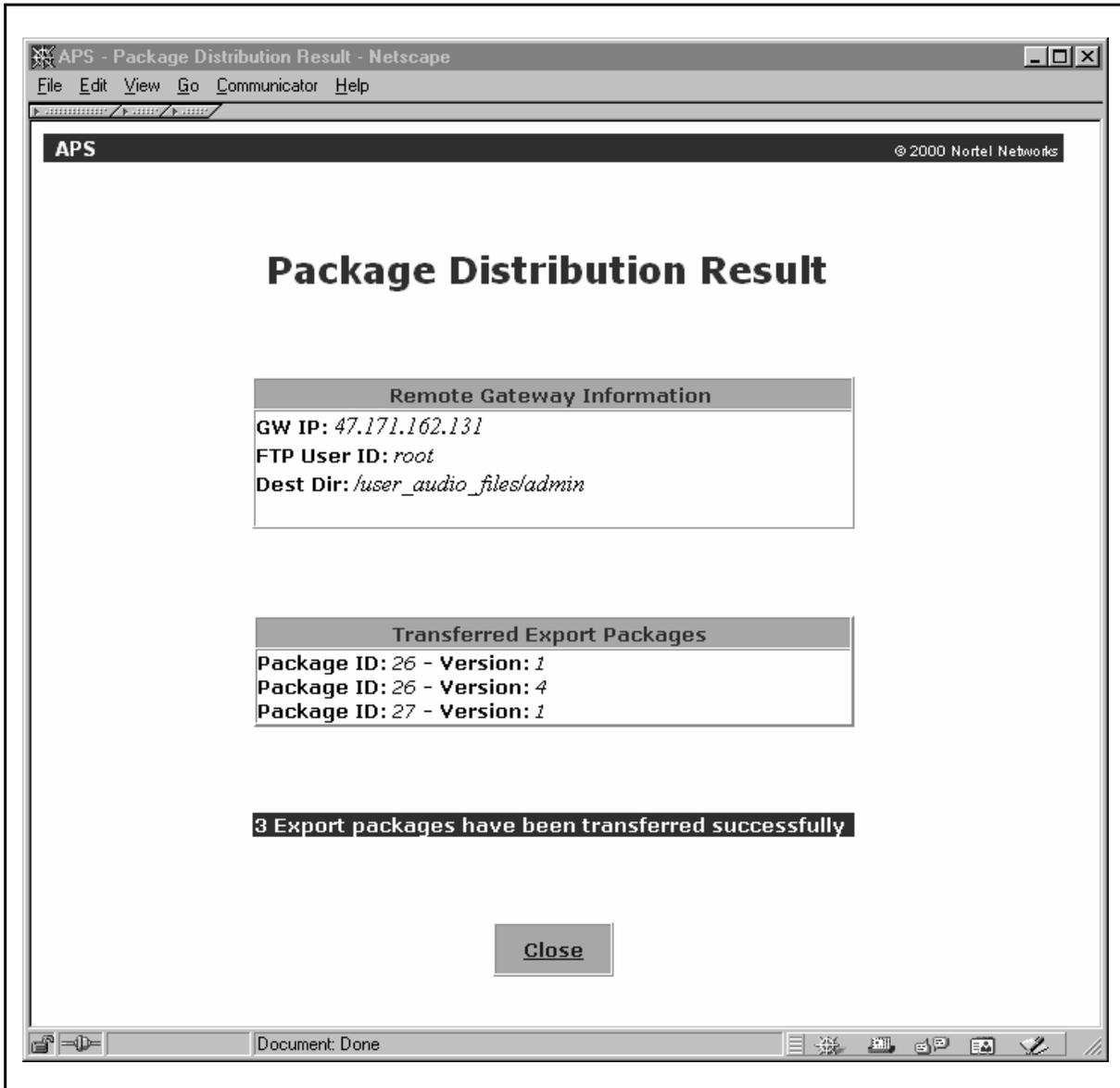
Close

- 2** Enter the following information about the export package:
- Package ID (click the box next to each package to be distributed, or click the “Select all displayed packages” box to include all packages for distribution)
 - Gateway IP (address)
 - Absolute Path of the Dest Dir
 - Note:** Enter the full path of the destination directory.
 - FTP User ID
 - FTP Password
 - Select a GW type
 - Note:** Click the GW type entry cell to pull down a list of available gateway types. If you don’t choose a gateway type, the system defaults to “PVG.”

If	Do
you want to cancel	step 3
you want to submit the operation	step 4

- 3** Click Close.
- a** Go to step [5](#).
- 4** Click Distribute Selected Package(s).
The Package Distribution Result window opens.

Package Distribution Result window



- a After verifying the information about the file transfer, click Close.
- 5 You have completed this procedure.

Creating audio sets

Creating audio sets

At the APS Audio Management Tool screen

- 1 Select the Audio Sets folder in the Audio Container tree.
- 2 Click the New button on the menu tool bar.
The Audio Set Properties window opens.

Audio Set Properties window

Audio Set Properties

ID: User specified

Originator:

Alias:

Origination date:

Title:

Last modified by:

Set type: ▼

Last modified date:

Description:

Java Applet Window

- 3 Enter the following information about the audio set:
 - ID
 - Alias
 - Title
 - Set Type
 - Description

If

you want to cancel

Dostep [4](#)

	If	Do
	you want to submit the operation	step 5
4	Click Cancel. Go to step 6 .	
5	Click Submit.	
	If	Do
	you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
	you entered an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
	you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
	you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
	the operation was successful	step 6
6	You have completed this procedure.	

Adding segments to an audio set

This procedure enables you to add other audio sets, physical segments, audio sequences, and audio variables to an audio set.

The selector values used within a set must be unique. For example, if you have an audio set with a set type “weekday,” you cannot have two “Monday” selector values for the contents within the set. If all of the selector values in the set have been used (in this case, “Monday” through “Friday”), and you want to add an additional segment with an existing selector value in the set, then you must cut that segment that has the selector value you want to use.

You can add more than one segment into an audio set at the same time. If you decide to add more than one segment, it is important to be aware of the maximum number of selector values that are available for assignment to each segment. For example, if you want to add three physical segments into an audio set with a set type of “time,” which has two defined selector values (12 hour time, 24 hour time), the system will not add the third physical segment because an additional selector value is not available for the set.

ATTENTION

You must assign a default segment to the audio set in order to provision the audio set to an MS 2000 Series node. To identify an audio set that does not have a default segment, expand the Audio Sets folder in the Audio Container tree. Those items with black dots positioned next to them in the Set Contents table do not have a default segment provisioned.

Adding segments to an audio set

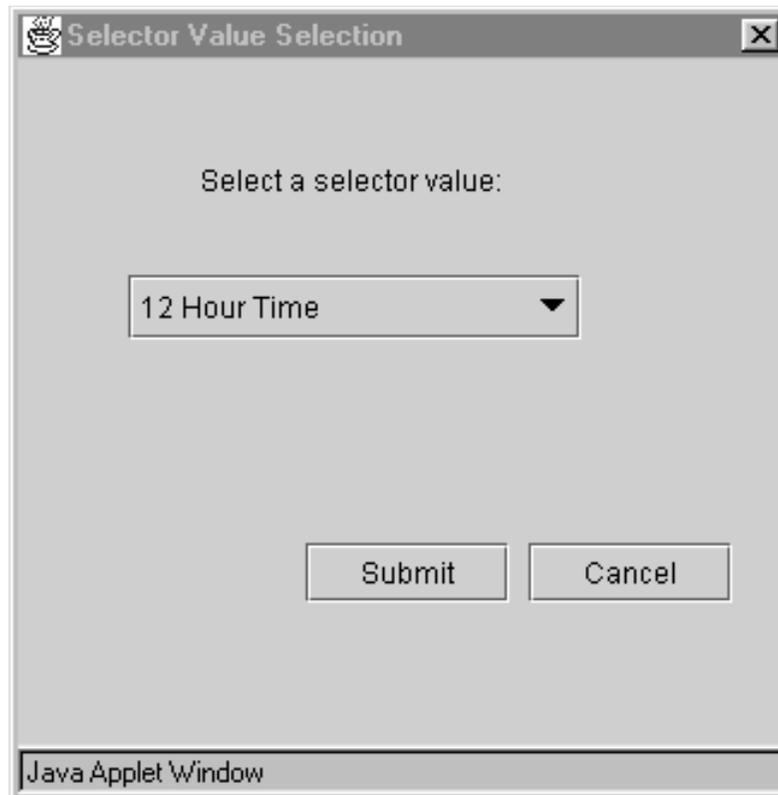
At the APS Audio Management Tool screen

- 1 Expand the Audio Sets folder in the Audio Container tree.

If	Do
you want to add an audio set to an audio set	step 2
you want to add a physical segment to an audio set	step 3

If	Do
you want to add a sequence to an audio set	step 4
you want to add an audio variable to an audio set	step 5

- 2** Select an audio set in the Audio Container tree. Go to step [6](#).
- 3** Click the Refresh button in the physical segments panel.
The Physical Segments table is populated with the physical segments stored in the database.
 - a** Select a segment in the Physical Segments table to be copied to an audio set.
 - b** Go to step [6](#).
- 4** Select an Audio Sequence folder in the Audio Container tree.
The Contents table is populated with the audio sequences in the APS database.
 - a** Select an audio sequence in the Contents table to be copied to an audio set.
 - b** Go to step [6](#).
- 5** Select the Audio Variables folder in the Audio Container tree.
The Contents table is populated with the audio variables in the APS database.
 - a** Select an audio variable in the Contents table to be copied to an audio set.
- 6** Click the Copy button on the menu tool bar.
- 7** In the Audio Container tree, select an audio set to which the copied entity is to be added.
- 8** Click the Paste button on the menu tool bar.
The Selector Value Selection window opens.

Selector Value Selection window

- 9 Click the pull-down menu and select a Selector Value.

If	Do
you want to accept the selector value	step 10
you want to cancel the selector value	step 11

- 10 Click Submit to accept the selector value.
The Default Set Element Prompt window opens.
- a Click the Yes button if you want the selector value to be the default, or click the No button if you do not want the selector value to be the default.
 - b Go to step [12](#).
- 11 Click Cancel.
- 12 You have completed this procedure.

Changing a set type

This procedure enables you to change the set type in the Contents table.

Note: Before you can change the set type of an audio set, the set must be empty.

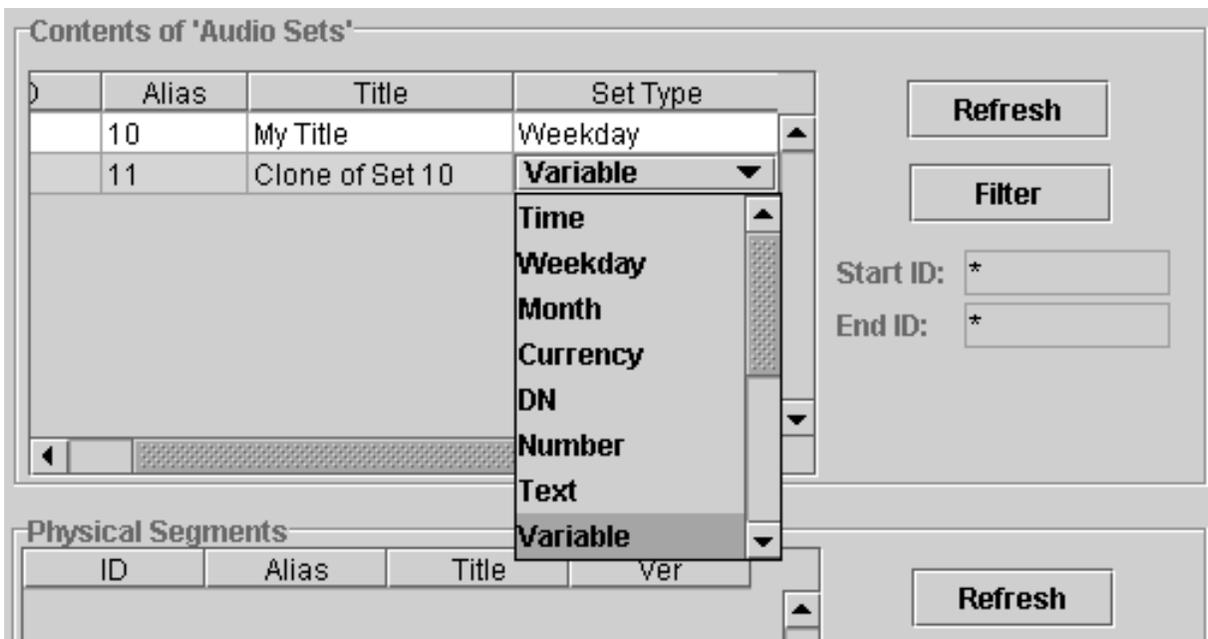
Changing a set type

At the APS Audio Management Tool screen

- 1 Select the Audio Sets folder in the Audio Container tree.
The Contents table is populated with a list of audio sets.
- 2 In the Contents table, select an audio set to be changed.
- 3 In the Contents table, click the Set Type entry cell associated with the audio set you have selected to pull down the menu of available set types.

A pull-down menu containing available set types opens.

Pull-down menu for Set Type



- 4 Click a set type in the menu.

The system changes the set type for the selected audio set.

If**Do**

the set is not empty

step [5](#)you want to cancel the set type
changestep [6](#)

the operation was successful

step [7](#)

-
- 5** Click OK in the Change Set Type window.
- a** Cut the segments from the audio set. For more information on cutting segments, see [Cutting a segment from a container on page 221](#).
- b** Go to step [2](#).
- 6** Repeat step [3](#) and select the previous set type of the audio set.
- 7** You have completed this procedure.

Editing audio sets

This procedure enables you to edit the properties of an audio set in the database.

Note: Before you can change the set type of an audio set, the set must be empty.

Editing audio sets

At the APS Audio Management Tool screen

- 1 Select the Audio Sets folder in the Audio Container tree.
The Contents table is populated with a list of audio sets.
- 2 Select an audio set in the Contents table.
- 3 Click the Edit button on the menu tool bar.
The Audio Set Properties window opens.
- 4 Change the information in any of the following fields:
 - Alias
 - Title
 - Set Type
 - Description

If	Do
you want to cancel	step 5
you want to submit the operation	step 6

- 5 Click Cancel. Go to step [8](#).

- 6 Click Submit.

If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
you attempted to change the set type of a non-empty set	Step 7
the operation was successful	step 8

- 7 Click OK in the Edit Set Result window.
 - a Select the audio sets folder in the Audio Container tree.

- b** Select the audio set that is not empty.
The Contents table is populated with the contents of the audio set.
 - c** Cut the segments from the audio set.
Note: For more information on cutting segments, see [Cutting a segment from a container on page 221](#).
 - d** Return to step [1](#).
- 8** You have completed this procedure.

Changing the set element selector value

This procedure enables you to change the selector value of a set element in the Contents table.

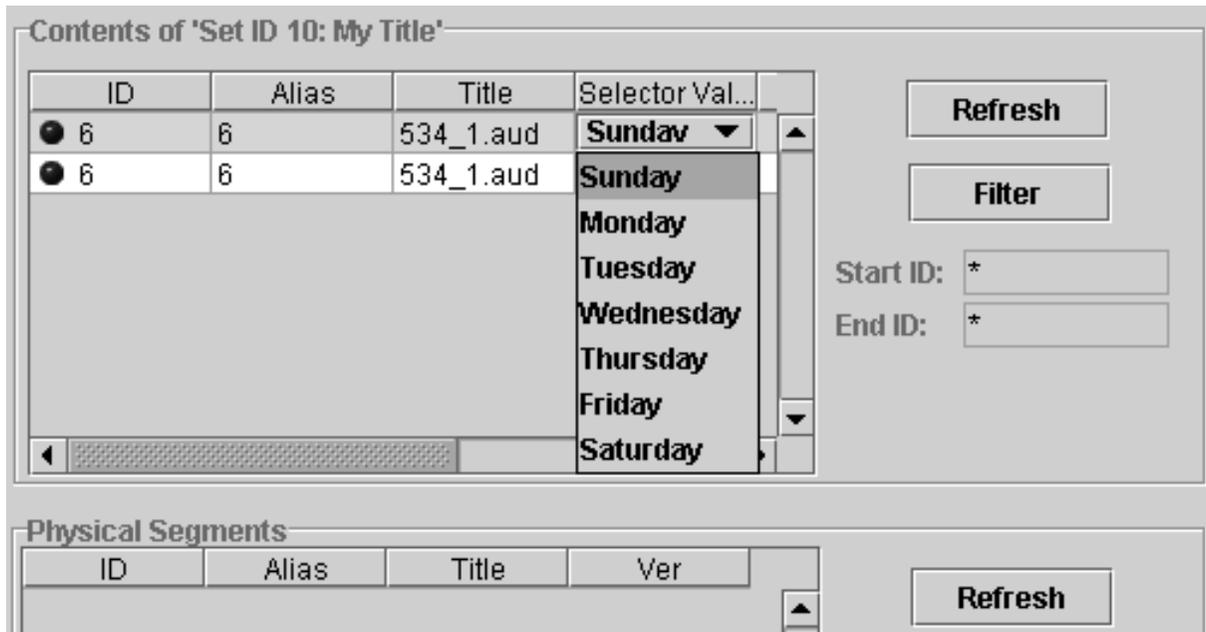
The selector values within a set must be unique. For example, if you have an audio set with a set type “weekday,” you cannot have two “Monday” selector values within the set. If all of the selector values in the set have been used (in this case, “Monday” through “Friday”), and you want to add an additional segment with an existing selector value in the set, then you must cut that segment that has the selector value you want to use.

Changing the set element selector value

At the APS Audio Management Tool screen

- 1** Expand the Audio Sets folder in the Audio Container tree.
A list of audio sets appears in the Audio Container tree.
- 2** Select an audio set in the Audio Container tree.
The Contents table is populated with the elements in the Audio set.
- 3** In the Contents table, select the element to be changed.
- 4** In the Contents table, click the Selector Value associated with the element that you have selected to pull down the menu of available selector values.
The pull-down menu containing available selector values opens.

Pull-down menu for Selector Value



- 5 Click a selector type in the menu.
The system changes the selector value for the selected element.

If	Do
the selector value you want to change is the default	step 6
the change was successful	step 7

- 6 Click OK in the Change Selector Value window.
- Select the set ID in the Audio Container tree that has the selector value you want to change.
 - Click the Set Default Element button on the menu tool bar.
The Set Default Element window opens.
 - From the pull-down menu select None. This specifies that there is no default element in the segment.
 - Repeat steps [2](#) through [5](#) in this procedure.
- 7 You have completed this procedure.

Changing the set default element

This procedure enables you to change the set default element for an audio set.



CAUTION

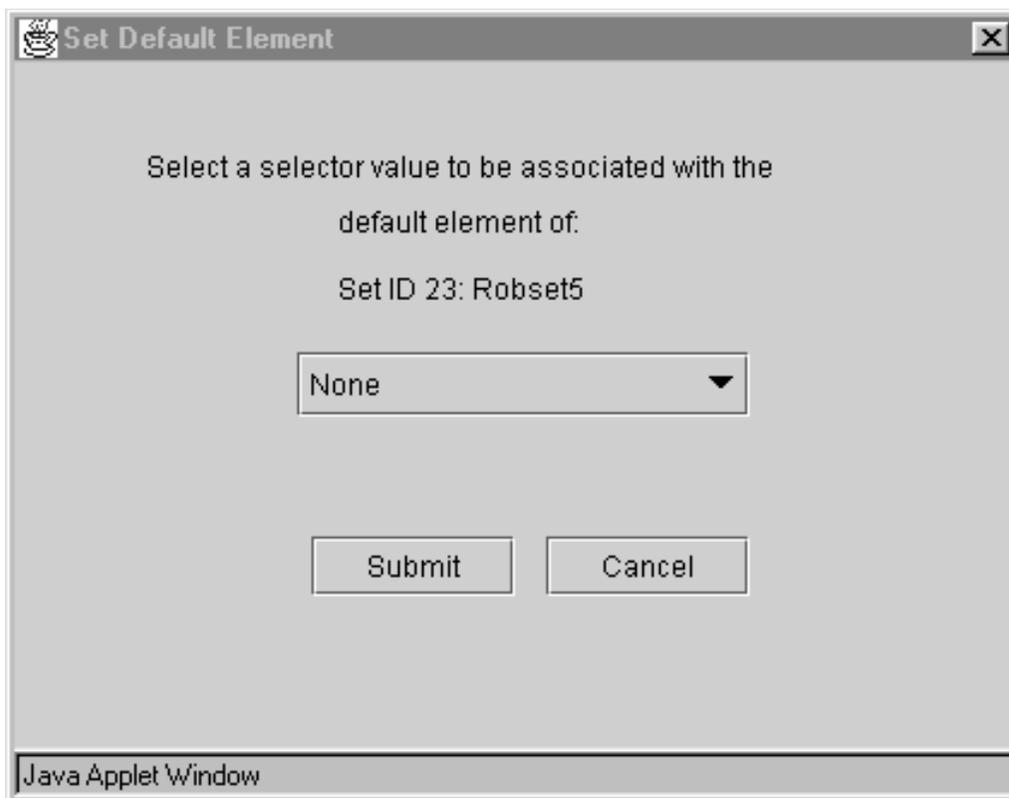
An audio set that does not have a default element selected (that is, the default element is set to “none”) will not be provisioned to an MS 2000 Series node.

Changing the set default element

At the APS Audio Management Tool screen

- 1** Expand the Audio Sets folder in the Audio Container tree.
A list of audio sets appears in the Audio Container tree.
- 2** Select an audio set in the Audio Container tree in which the set default element is to be changed.
The Contents table is populated with the contents of the audio set.
- 3** Click the Set Default Element button on the menu tool bar.
The Set Default Element window opens.

Set Default Element window



- 4 Click on the pull-down menu.
 - 5 Select a selector value to associate with the default element or select None to disassociate a selector value with a default element.
- | If | Do |
|---|------------------------|
| you want to submit the default element change | step 6 |
| you want to cancel | step 7 |
- 6 Click Submit. Go to step [8](#).
In the Contents table, a check mark appears in the Default box associated with the selector value that you set as the default.
 - 7 Click Cancel.
 - 8 You have completed this procedure.

Cloning an audio set

This procedure enables you to clone an audio set to create a new set identical to the cloned set, except for the ID and alias.

Cloning an audio set

At the APS Audio Management Tool screen

- 1 Select the Audio Sets folder in the Audio Container tree.
The Contents table is populated with a list of audio sets.
- 2 In the Contents table, select the audio set to be cloned.
- 3 Click the Clone button on the menu tool bar.
The Clone Provisionable Entity window opens.
- 4 If desired, enter a new alias or a new segment ID.

If

Do

you want to cancel

step [5](#)

you want to submit the operation

step [6](#)

-
- 5 Click Cancel. Go to step [7](#).

- 6 Click Submit.

If

Do

you entered an invalid or non-unique alias

Procedure [Correcting an invalid or non-unique alias on page 222](#)

you entered an invalid or non-unique segment ID

Procedure [Correcting an invalid or non-unique segment ID on page 224](#)

you entered both an invalid alias and an invalid segment ID

Procedure [Correcting invalid aliases and segment IDs on page 226](#)

you entered both a non-unique alias and a non-unique segment ID

Procedure [Correcting non-unique aliases and segment IDs on page 227](#)

the operation was successful

step [7](#)

-
- 7 You have completed this procedure.

Creating sequences

Creating sequences

At the *APS Audio Management Tool* screen

- 1 Select the Audio Sequences folder in the Audio Container tree.
- 2 Click the New button on the menu tool bar.

The Audio Sequence Properties window opens.

Audio Sequence Properties window

The screenshot shows a Java Applet Window titled "Audio Sequence Properties". The window contains the following fields and controls:

- ID:** A text box containing "0".
- Originator:** A text box containing "admin".
- Aliases:** An empty text box.
- Origination date:** A text box containing "May 14, 2001".
- Title:** A text box containing "Default Title".
- Last modified by:** A text box containing "admin".
- Description:** A text area containing "Default description".
- User specified:** A checkbox that is currently unchecked.
- Last modified date:** A text box containing "May 14, 2001".
- Buttons:** "Submit" and "Cancel" buttons are located at the bottom right.

The status bar at the bottom of the window reads "Java Applet Window".

- 3 Enter information for the following fields in the Audio Sequence Properties window:

- Segment ID
- Alias
- Title
- Description

If

you want to cancel

Do

step [4](#)

	If	Do
	you want to submit the operation	step 5
4	Click Cancel. Go to step 6 .	
5	Click Submit.	
	If	Do
	you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
	you entered an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
	you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
	you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
	the operation was successful	step 6
6	You have completed this procedure.	

Adding segments to an audio sequence

This procedure enables you to add segments to an audio sequence.

You can add other audio sequences, physical segments, audio variables, and audio sets to an audio sequence. In addition, you can add the same segment to an audio sequence more than once.

The system automatically positions the contents of the audio sequence based on the order in which the elements were added. You can also reorder the positions of the elements within an audio sequence. For more information on reordering elements, see [Reordering sequence elements on page 189](#).

Adding segments to an audio sequence

At the APS Audio Management Tool screen

- 1 Expand the Audio Sequences folder in the Audio Container tree.
A list of audio sequences appears in the Audio Container tree.
- 2 Select the type of segment that you want to add to the audio sequence.

If	Do
you want to add a physical segment to the audio sequence	step 3
you want to add an audio sequence to an audio sequence	step 4
you want to add an audio variable to an audio sequence	step 5
you want to add an audio set to an audio sequence	step 6

- 3 Click the Refresh button in the Physical Segments panel.
A list of physical segments appears in the Physical Segments table.
 - a Select one or more physical segments in the Physical Segments table.
Note: To select more than one physical segment, hold down the Shift or Ctrl key on your keyboard and click with your left mouse button.
 - b Go to step [7](#).

- 4 Select another audio sequence in the Audio Container tree that you want to add to the audio sequence.
Note: To select more than one audio sequence, hold down the Shift or Ctrl key on your keyboard and click with your left mouse button.
 - a Go to step 7.
- 5 Expand the Audio Variables folder in the Audio Container tree.
A list of audio variables appears in the Audio Container tree.
 - a Select an audio variable in the Audio Container tree that you want to add to the audio sequence.
Note: To select more than one audio variable, hold down the Shift or Ctrl key on your keyboard and click with your left mouse button.
 - b Go to step 7.
- 6 Expand the Audio Sets folder in the Audio Container tree.
A list of audio sets appears in the Audio Container tree.
 - a Select an audio set in the Audio Container tree.
Note: To select more than one audio set, hold down the Shift or Ctrl key on your keyboard and click with your left mouse button.
- 7 Click the Copy button on the menu tool bar.
- 8 Select an audio sequence in the Audio Container tree to which the copied entity is to be added.
- 9 Click the Paste button on the menu tool bar.
- 10 You have completed this procedure.

Reordering sequence elements

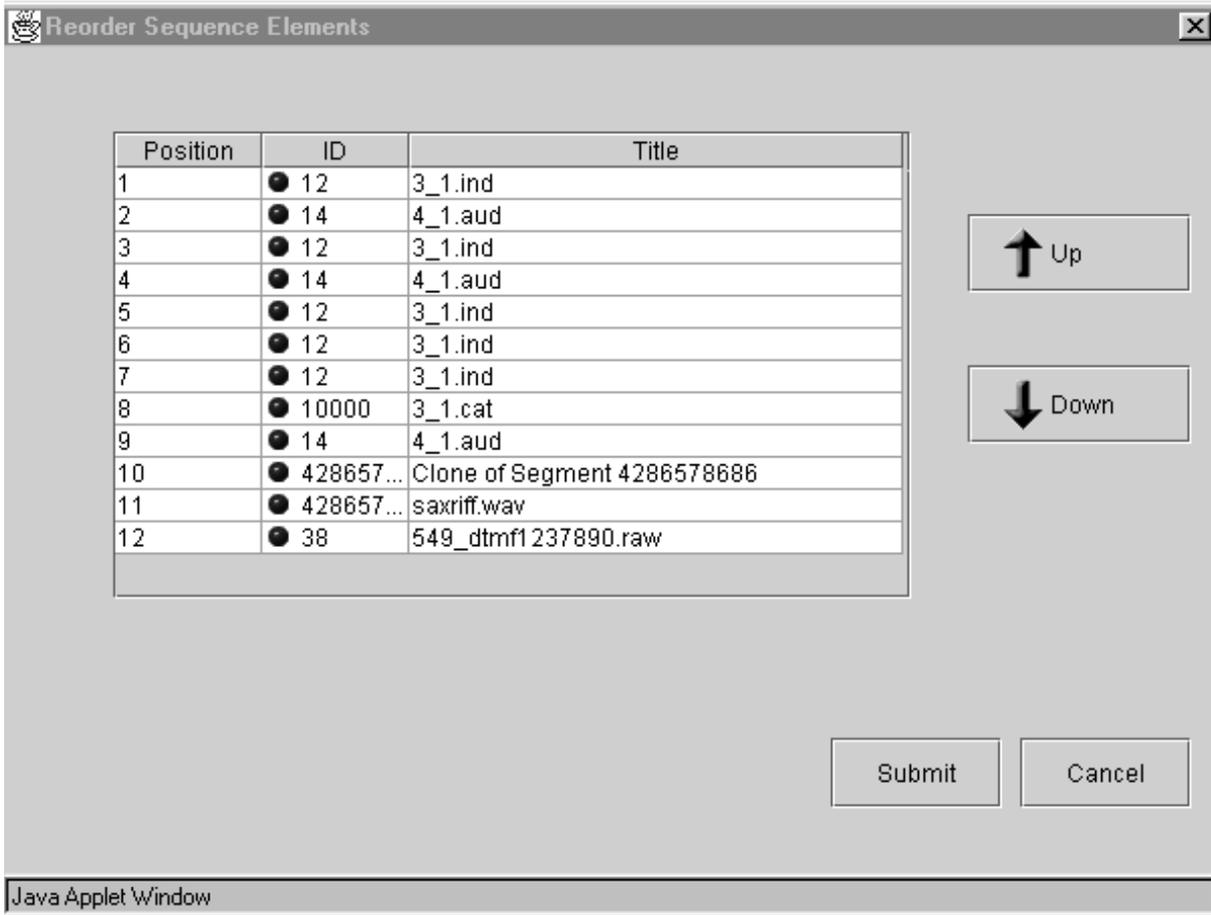
This procedure enables you to reorder the elements in an audio sequence. The order of the elements in the audio sequence determines the order in which the audio will play.

Reordering sequence elements

At the APS Audio Management Tool screen

- 1** Expand the Audio Sequences folder in the Audio Container tree.
The Audio Container tree is populated with the audio sequences in the database.
- 2** Select an audio sequence in the Audio Container tree.
The Contents table is populated with the elements in the selected audio sequence.
- 3** Click the Reorder Sequence Elements button on the menu tool bar.
The Reorder Sequence Elements window opens.

Reorder Sequence Elements window



4 Select an element that you would like to reorder in the audio sequence.

5 Click the Up or Down button until you are satisfied with the position of the element.

If

Do

you want to submit the changes

step [6](#)

you want to cancel the changes

step [7](#)

6 Click Submit. Go to step [8](#).

7 Click Cancel.

8 You have completed this procedure.

Editing audio sequences

Editing audio sequences

At the *APS Audio Management Tool* screen

- 1 Select the Audio Sequences folder in the Audio Container tree.
The Contents table is populated with the audio sequences in the APS database.
- 2 Select an audio sequence in the Contents table you want to edit.
- 3 Click the Edit button on the menu tool bar.
The Audio Sequence Properties window opens.
- 4 Change the information in any of the following fields:
 - Alias
 - Title
 - Description

If	Do
you want to cancel	step 5
you want to submit the operation	step 6

- 5 Click Cancel. Go to step [7](#).
- 6 Click Submit.

If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
the operation was successful	step 7

- 7 You have completed this procedure.

Cloning an audio sequence

This procedure enables you to clone an audio sequence to create a new sequence identical to the cloned sequence, except for the ID and alias.

Cloning an audio sequence

At the APS Audio Management Tool screen

- 1 Select the Audio Sequences folder in the Audio Container tree.
The Contents table is populated with a list of audio sequences.
- 2 Select an audio sequence in the Contents table.
- 3 Click the Clone button on the menu tool bar.
The Clone Provisionable Entity window opens.
- 4 Enter segment ID and alias information for the cloned audio sequence.

If	Do
you want to cancel	step 5
you want to submit the operation	step 6

- 5 Click Cancel. Go to step [7](#).
- 6 Click Submit.

If	Do
you enter an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
you enter an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
the operation was successful	step 7

- 7 You have completed this procedure.

Creating audio variables

An audio variable is an audio segment whose content is not determined until runtime. The content is determined by the request the audio server receives to play a message containing the variable. This procedure enables you to create audio variables.

Creating audio variables

At the APS Audio Management Tool screen

- 1 Select the Audio Variables folder in the Audio Container tree.
- 2 Click the New button on the menu tool bar.

The Audio Variable Properties window opens.

Audio Variable Properties window

Audio Variable Properties

ID: User Specified

Originator:

Alias:

Origination date:

Title:

Last modified by:

Last modified date:

Variable type:

Description:

Sub type:

Specify variable value

Default language:

Variable Value

Day:

Month:

Year:

Weekday:

Hour(s): Minute(s): AM PM

Value:

Java Applet Window

- 3 Enter values in the appropriate fields in the window for the variable you are creating.

The possible types of audio variables that you may create are shown in the table below. Certain of these variable types, those whose content is fixed, also have predefined subtypes and values. Only variable types that have fixed content that doesn't vary have predefined subtypes and values. For example, the values (names) of the twelve months of the year are fixed and do not vary.

Note: Entering a variable value is optional. If you check the "Specify variable value" box, you can enter a variable value for the audio variable you are defining. If you enter a variable value, this value will take precedence over the value supplied (through translations) in the call processing message requesting that this audio variable be played. For example, if you enter "Monday" as the variable value for a "Weekday" variable type, "Monday" will be played in the language you have designated, at runtime.

Predefined variable types (Sheet 1 of 3)

Variable type	Subtype	Value
Time	12 hour	
	24 hour	
Weekday		Sunday
		Monday
		Tuesday
		Wednesday
		Thursday
		Friday
		Saturday
Month		January
		February
		March
		April

Predefined variable types (Sheet 2 of 3)

Variable type	Subtype	Value
		May
		June
		July
		August
		September
		October
		November
		December
Currency	Belgian Franc	
	Canadian dollar	
	Chinese yuan renminbi	
	German mark	
	Spanish peseta	
	euro	
	French franc	
	British pound	
	Hong Kong Dollar	
	Irish pound	
	Italian lire	
	Japanese yen	
	Korean won	
	Malayan ringgit	
	Netherlands guilder	

Predefined variable types (Sheet 3 of 3)

Variable type	Subtype	Value
DN	Philippine peso	
	Portuguese escudo	
	Thai baht	
	US Dollar	
	North American DN	
Number	Generic DN	
	Cardinal	
Silence (not supported in the current release)	Ordinal	
	Duration (not supported in the current release)	
Date		Day (1–31)
		Month (Jan–Dec)
		Year
String		
Tone (not supported in the current release)		
Text (not supported in the current release)		

If

you want to cancel

you want to submit the operation

Dostep [4](#)step [5](#)**4** Click Cancel. Go to step [6](#).

5 Click Submit.

If	Do
you entered an invalid or non-unique alias	Procedure Correcting an invalid or non-unique alias on page 222
you entered an invalid or non-unique segment ID	Procedure Correcting an invalid or non-unique segment ID on page 224
you entered both an invalid alias and an invalid segment ID	Procedure Correcting invalid aliases and segment IDs on page 226
you entered both a non-unique alias and a non-unique segment ID	Procedure Correcting non-unique aliases and segment IDs on page 227
the operation was successful	step 6

6 You have completed this procedure.

Editing audio variables

Editing audio variables

At the *APS Audio Management Tool* screen

- 1 Select the Audio Variables folder in the Audio container tree.
The Contents table is populated with a list of audio variables.
- 2 Select an audio variable in the Contents table that you want to edit.
- 3 Click the Edit button on the menu tool bar.
The Audio Variable Properties window opens.
- 4 You can edit the following fields:
 - Alias
 - Title
 - Variable type
 - Subtype
 - Description
 - Default language
 - Variable value

If

you want to cancel the changes

you want to submit the changes

Do

step [5](#)

step [6](#)

- 5 Click Cancel. Go to step [7](#).

- 6 Click Submit.

If

you entered an invalid or non-unique alias

the operation was successful

Do

Procedure [Correcting an invalid or non-unique alias on page 222](#)

step [7](#)

- 7 You have completed this procedure.

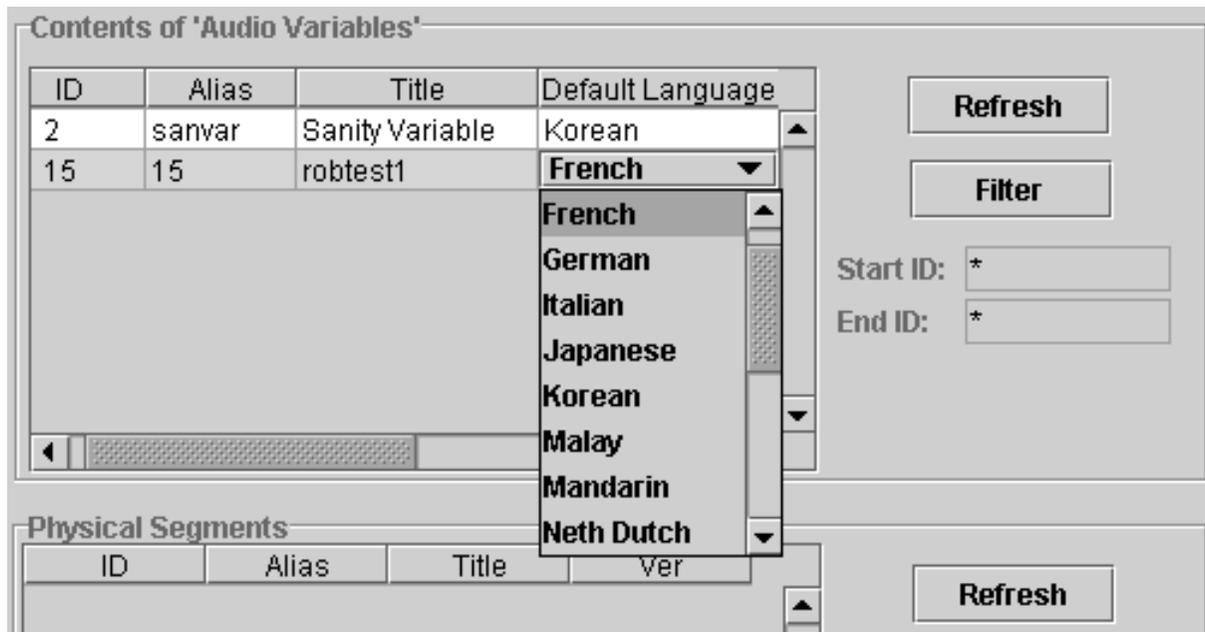
Changing the default language

Changing the default language

At the APS Audio Management Tool screen

- 1 Select the Audio Variables folder in the Audio Container tree.
The Contents table is populated with a list of audio variables.
- 2 Select an audio variable in the Contents table for which the default language is to be changed.
- 3 In the Contents table, click on the Default Language entry associated with the audio variable you selected to pull down the menu of available default languages.
The pull-down menu containing available languages opens.

Pull-down menu for Default Language



- 4 Click on a language in the menu.
The system changes the default language for the selected audio variable.
- 5 You have completed this procedure.

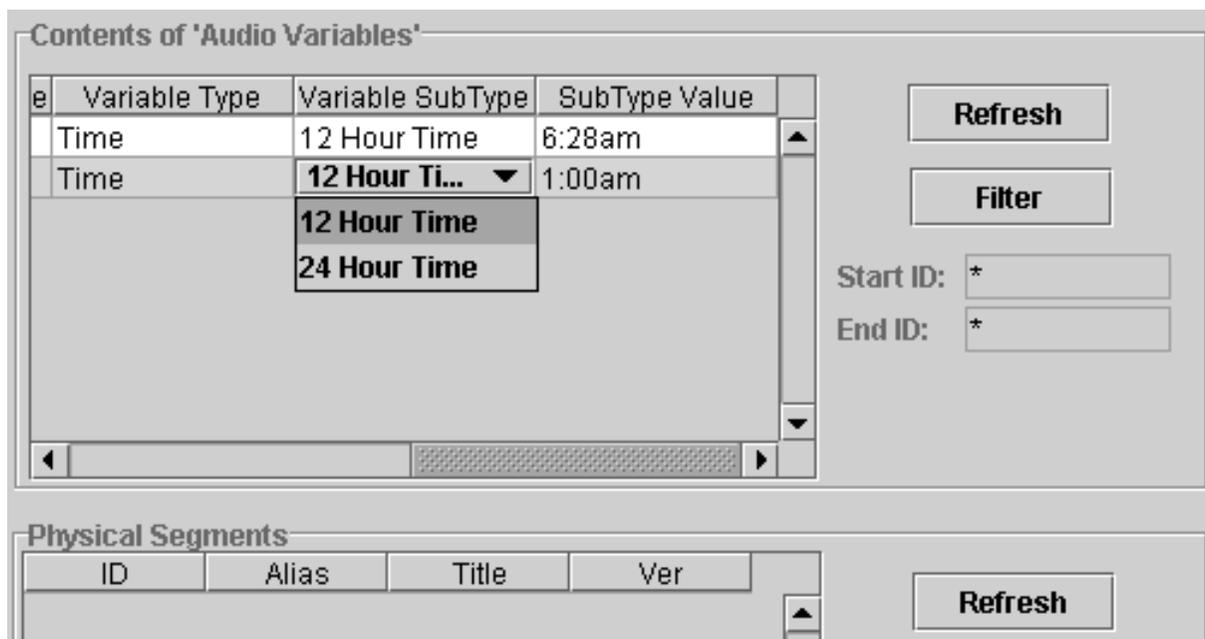
Changing the variable subtype

Changing the variable subtype

At the *APS Audio Management Tool* screen

- 1 Select the Audio Variables folder in the Audio Container tree.
The Contents table is populated with a list of audio variables.
- 2 Select an audio variable in the Contents table.
- 3 Use the bottom scroll bar to move to the Variable SubType column.
- 4 Click the Variable SubType cell to pull down the menu of available subtypes.
The pull-down menu containing available subtypes opens.

Pull-down menu for Variable Subtypes



- 5 Select a subtype in the menu.
The system changes the subtype for the selected audio variable.
- 6 You have completed this procedure.

Cloning an audio variable

Cloning an audio variable

At the *APS Audio Management Tool* screen

- 1 Select the Audio Variables folder in the Audio Container tree.
The Contents table is populated with a list of audio variables.
- 2 Select an audio variable in the Contents table.
- 3 Click the Clone button on the menu tool bar.
The Clone Provisionable Entity window opens.
- 4 If desired, enter a new alias or a new segment ID.

If

Do

you want to cancel

step [5](#)

you want to submit the operation

step [6](#)

-
- 5 Click Cancel. Go to step [7](#).

- 6 Click Submit.

If

Do

you entered an invalid or non-unique alias

Procedure [Correcting an invalid or non-unique alias on page 222](#)

you entered an invalid or non-unique segment ID

Procedure [Correcting an invalid or non-unique segment ID on page 224](#)

you entered both an invalid alias and an invalid segment ID

Procedure [Correcting invalid aliases and segment IDs on page 226](#)

you entered both a non-unique alias and a non-unique segment ID

Procedure [Correcting non-unique aliases and segment IDs on page 227](#)

the operation was successful

step [7](#)

-
- 7 You have completed this procedure.

Displaying language version folder contents

Language versions are containers that hold the audio needed to announce multi-language variables or other language version subfolders. The system maintains a language version tree which it uses during runtime to find the correct audio for resolving multi-language variables. For example, if the MS 2000 Series node receives a request to play a “date” type variable with a value of 20010322, it determines the component audio needed for the date (year, month, and day) and plays the date in the language set during runtime or in the provisioned default language.

An MS 2000 Series node supports the following variables in different languages: time, duration, currency, numbers, silence, character strings, directory number, weekday, month, and date.

This procedure enables you to display the contents of the Language Versions folder in the container contents list.

If the folder contains subfolders, the system displays the language version ID, selector type, selector value, default value fields, and column headers for each subfolder.

If the folder contains audio segments, the system displays the segment ID, alias, title, and version of each segment.

If the folder is empty, the system displays the column headers appropriate to the type of selected language version folder. If the user assigns “variable audio” as the selector type, the system displays column headers for segment ID, alias, title, and version. For other selector types, the system displays column headers for language version ID, selector type, selector value, and default value.

Displaying language version folder contents

At the APS Audio Management Tool screen

- 1 Expand the Language Versions folder in the Audio Container tree.

A list of language version subfolders appears in the Audio Container tree.

- 2 Select a language version subfolder.

The Contents table is populated with the physical segments contained in the language version subfolder.

- 3 You have completed this procedure.

Creating language version folders and subfolders

This procedure enables you to create language version folders and subfolders to contain all of the audio spoken in a single language. A language version folder can contain either regular audio or special subfolders that enable you to store customized audio created in different forms, such as audio spoken by a female voice, audio spoken by a male voice, or audio spoken by a special voice talent. The numbers and types of language folders and subfolders that you create are determined by the capability of your network to handle audio in multiple languages.

Creating a language version folder

At the APS Audio Management Tool screen

- 1 Select the Language Versions folder in the Audio Container tree.
- 2 Determine whether you are creating a new language version folder or if you are creating subfolders under an existing language version folder or subfolder.

If	Do
you want to create a new language version folder	step 6
you want to create a subfolder under an existing language version folder or subfolder	step 3

- 3 Navigate (by clicking on the handle icons) through the Language Versions tree, located in the Audio Container tree, and select the folder to which you want to add a subfolder.

A list of existing folders displays below the selected folder in the Audio Container tree.

- a In the list, highlight the folder to which you want to add a subfolder.

The Contents panel displays the content of the folder.

If	Do
the folder contains physical audio segments	step b
the folder is empty	step d

- b** You must delete (using the Delete button on the menu tool bar) all of the segments from the folder before proceeding to the next step.

Note: If the segment is also included in another audio set or audio sequence, you will need to cut the segment from those containers before you can complete this deletion. For a procedure used to cut segments from other containers, see [Cutting a segment from a container on page 221](#).

- c** Go to step [e](#).
- d** Determine whether the New button, located on the menu tool bar, is enabled.

If	Do
the New button is enabled	step 6
the New button is not enabled	step e

- e** Click the Edit button, located on the menu tool bar.
The Language Version Property Editor window opens.

Language Version Property Editor window.

- f In the Language Version Property Editor window for the subfolder, enter the following information:
- **Set type** - This field determines the content of the folder. Choose any set type other than “Variable Audio.” A language version folder or subfolder with the “Variable Audio” set type cannot contain any subfolders.
 - **Selector value** - This field defines the form of the contents of the folder relative to the set type of the parent folder. For example, if the set type of the parent folder is “Gender,” then the selector value of the subfolder would be either “Female,” “Male,” or “Neutral.”
 - **Is default** - This field enables you to designate the “default element,” or the form of the audio the system will play in the absence of specific instruction in call processing translations.

If

you want to cancel

Dostep [4](#)

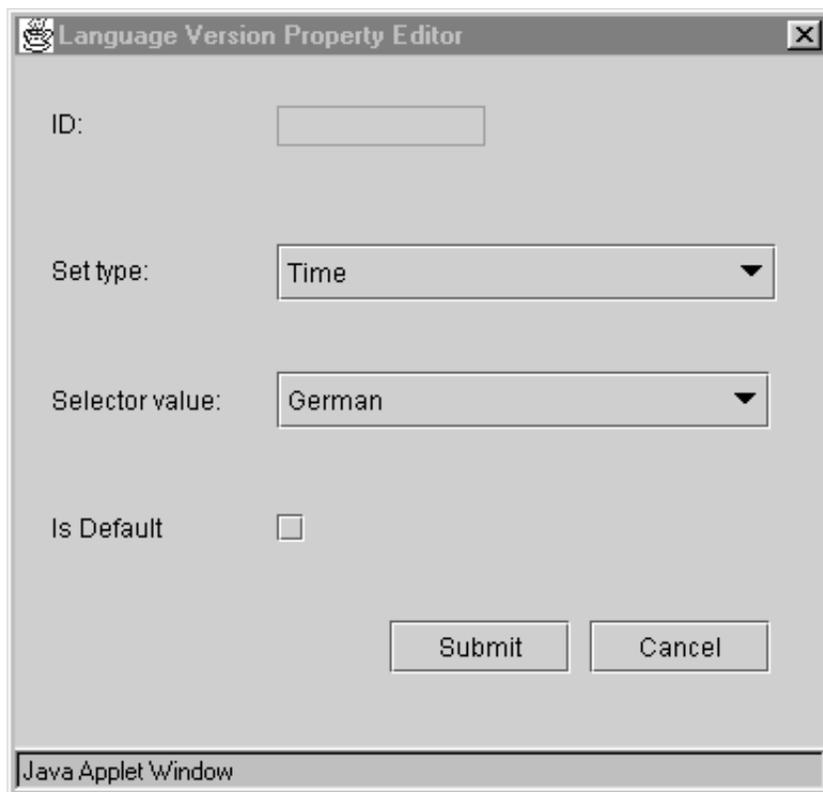
you want to submit the operation

step [5](#)

- 4 Click Cancel. Go to step [10](#).
- 5 Submit the changes and prepare the folder for adding a subfolder.
 - a Click Submit.
 - b Click the handle icon located next to the Language Versions tree to close the tree display.
 - c Click the handle icon located next to the Language Versions tree again, to open the tree display.
 - d In the tree display, click the folder that you just finished editing.
- 6 Click the New button on the menu tool bar.

The Language Version Property Editor window opens.

Language Version Property Editor window.



Language Version Property Editor

ID:

Set type:

Selector value:

Is Default

Java Applet Window

- 7 In the Language Version Property Editor window for the new subfolder, enter the following information:
- **Set type** - This field determines the content of the folder.
Note: A language version folder or subfolder with the “Variable Audio” set type cannot contain any subfolders.
 - **Selector value** - This field defines the form of the contents of the folder relative to the set type of the parent folder. For example, if the set type of the parent folder is “Gender,” then the selector value of the subfolder can be either “Female,” “Male,” or “Neutral.”
 - **Is default** - This field enables you to designate the “default element,” or the form of the audio the system will play in the absence of specific instruction in call processing translations.

If	Do
you want to cancel	step 8
you want to submit the operation	step 9

- 8 Click Cancel. Go to step [10](#).
- 9 Click Submit.
- 10 You have completed this procedure.

Editing language version properties

This procedure enables you to change the properties of a language version folder.

The system allows you to change the selector type of a folder to any of the selector types listed in the menu only if the folder does not contain subfolders or physical segments. Since selector type “language” is reserved for the implicit root node of the Language Version tree, it does not appear in the menu. In addition, the system does not display in the menu selector values already used for other children of the parent. If the purpose of the folder is to contain audio, you should assign it selector type “Variable Audio.”

If you assign the edited language folder as the default element for the parent, then the system turns off the current default for the parent.

Editing language version properties

At the APS Audio Management Tool screen

- 1 Expand the Language Versions folder in the Audio Container tree.

A list of language version subfolders appears in the Audio Container tree.

- 2 Select a language version subfolder you want to edit.
- 3 Click the Edit button on the menu tool bar.

The Language Version Property Editor window opens.

- 4 In the Language Version Property Editor window, select the following:

- Set type
- Selector value
- Is default

If

you want to cancel

you want to submit the operation

Do

step [5](#)

step [6](#)

- 5 Click Cancel. Go to step [7](#).
- 6 Click Submit.
- 7 You have completed this procedure.

Adding physical segments to a language version folder

This procedure enables you to add one or more physical segments to a language version folder. The physical segments can be either new segments or replacements for existing segments.

Note: Before performing this procedure, raw audio files must be placed in the bulk import directory through FTP. For more information on importing raw audio files see [Importing physical segments on page 145](#). In addition, a language version folder, which either does or does not contain physical segments, and which has a selector type “Variable Audio” must already exist.

For the appropriate audio file names refer to the audio reference files listed in [APS GUI Language Audio Files on page 30](#).

Adding physical segments to a language version folder

At the APS Audio Management Tool screen

- 1 Select the Language Versions folder in the Audio Container tree.
The Contents table is populated with a list of language version subfolders.
- 2 Select a language version subfolder that has the selector type, “Variable Audio.”
- 3 Click the Bulk Import button on the menu tool bar.
The Confirm Bulk Add Language Version window opens.
Note: Performing a bulk import of segments to language version folder is a database-, cpu-, and network-intensive operation. Therefore, bulk import operations should be coordinated in order to minimize the impact on APS GUI users.
- 4 Click OK.
The Language Version Audio Properties window opens.

Language Version Audio Properties window

Language Version Audio Properties

Format: MUPCM mulaw physical

Language:

Voice Talent:

Recording Date (mm/dd/yyyy):

Keep in Cache

Description:

Release Notes:

User Defined Field 1

Field Type: Time

Field Value: 12 Hour Time

User Defined Field 2

Field Type: Time

Field Value: 12 Hour Time

Originator: admin

Origination Date: May 31, 2001

Modified By: admin

Modification Date: May 31, 2001

Submit Cancel

Java Applet Window

- 5 Enter the following information about the physical segments:
- Description
 - Language

- Release Notes
- Format (mandatory)
- Voice Talent
- Recording Date (mandatory)
- Keep in Cache
- User Defined Field 1
- User Defined Field 2

Note: The system applies the information you enter to every physical segment that you add or replace in the language version folder.

If	Do
you want to cancel	step 6
you want to submit the operation	step 7

6 Click Cancel. Go to step [8](#).

7 Click Submit.

The system displays the processed segments in the Contents table.

8 You have completed this procedure.

Deleting a language version folder

This procedure enables you to delete a language version folder, its subfolders, and variable audio.

Note: The target folder is not the default element for the parent folder unless it is the only child of the parent folder.

Deleting a language version folder

At the APS Audio Management Tool screen

- 1 Select the Language Versions folder in the Audio Container tree.
The Contents table is populated with a list of language version subfolders.
- 2 Select the language version subfolder to be deleted.
- 3 Click the Delete button on the menu tool bar.
The Delete Language Version Warning window opens.

If	Do
you want to cancel	step 4
you want to submit the deletion	step 5

- 4 Click Cancel. Go to step [6](#).
- 5 Click OK.
- 6 You have completed this procedure.

Accessing a physical segment from a language version folder

Accessing a physical segment from a language version folder

At the APS Audio Management Tool screen

- 1 Expand the Language Versions folder in the Audio Container Tree.
A list of language version subfolders displays in the Audio Container Tree.
- 2 In the Audio Container Tree, select the language version subfolder from which segments are to be accessed.
The Contents table is populated with the segments in the language version subfolder.
- 3 Select a physical segment in the Contents table.
- 4 You can perform the following operations to the physical segment:
 - a Edit the physical segment. For more information, see the procedure [Editing physical segment properties on page 149](#).
 - b Replace the physical segment using the Replace Audio button located on the tool bar menu.
 - c Find reference to the physical segment. For more information, see the procedure [Finding references to a segment on page 217](#).
 - d Copy a physical segment. For more information, see the procedures [Adding segments to an audio set on page 173](#) and [Adding segments to an audio sequence on page 187](#).
 - e Clone a physical segment. For more information, see the procedure [Cloning a physical segment on page 153](#).
 - f Delete the segment from the folder. For more information, see the procedure [Deleting physical segments from a language version folder on page 214](#).
- 5 You have completed this procedure.

Deleting physical segments from a language version folder

Deleting physical segments from a language version folder

At the APS Audio Management Tool screen

- 1 Select the Language Versions folder in the Audio Container tree.
A list of language version subfolders displays in the Audio Container Tree
- 2 Select the language version subfolder from which segments are to be deleted.
- 3 Select a physical segment in the Contents table.
- 4 Click the Delete button on the menu tool bar.
A confirmation dialog window opens.
- 5 Click OK.
The system removes the selected physical segments from the language version subfolder and the database.
- 6 You have completed this procedure.

Finding provisionable entities

This procedure enables you to locate one or more IDs related to the selected provisionable entity in the database that meet the search criteria.

The search criteria fields: ID, Title, Alias, Originator, Modified By, and Description provide the option to check the Match Whole Word box. The search criteria fields: Origination Date and Modification Date provide the option to check the Exact box, Before box, or After box.

Finding provisionable entities

At the APS Audio Management Tool screen

- 1 Click the Find Provisionable Entity button on the menu tool bar.
The Find window opens.

Find window

The screenshot shows a Java Applet Window titled "Find". The window contains the following search criteria:

- Search Criteria**
 - Provisionable Entity Types**
 - Physical Segment
 - Export Package
 - Audio Sequence
 - Audio Set
 - Audio Variable
 - Common Attributes**
 - ID: Match whole word
 - Title: Match whole word
 - Alias: Match whole word
 - Originator: Match whole word
 - Modified By: Match whole word
 - Description: Match whole word
 - Origination Date: Day Month Year
 - Before
 - After
 - Exact
 - Modification Date: Day Month Year
 - Before
 - After
 - Exact

Buttons: Submit, Cancel

Java Applet Window

- 2 Click the radio button next to the provisionable entity type that you want to find in the database.
- 3 Enter any of the following information in the search criteria fields:

Note: If you do not enter anything in the search criteria fields, the system will find all IDs for the specified provisionable entity.

- ID
- Title
- Alias
- Originator
- Modified by
- Description
- Origination Date
- Modification Date

If**Do**

you want to submit the request

step [4](#)

you want to cancel the request

step [5](#)

- 4 Click Submit.
The system displays a list of provisionable entities in the Provisionable Entity List window.
 - a Click the Close button after you have finished reviewing the list of IDs found.
 - b Go to step [6](#).
- 5 Click Cancel.
- 6 You have completed this procedure.

Finding references to a segment

This procedure enables you to locate all references to the specified segment in the database.

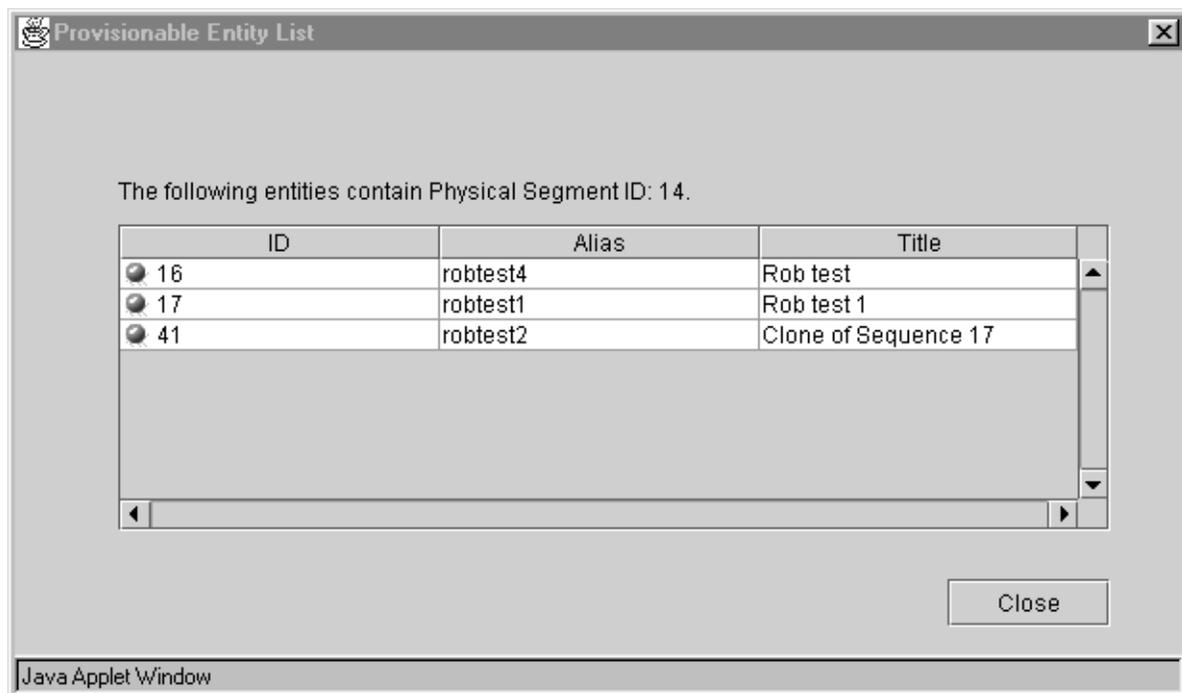
Finding references to a segment

At the APS Audio Management Tool screen

- 1 Select a segment in the Contents table, the Audio Container tree, or the Physical Segments table.
- 2 Click the Find Reference To button on the menu tool bar.

The Provisionable Entity List window opens, containing a list of provisionable entities that contain the segment.

Provisionable Entity List window



- 3 Click Close.
- 4 You have completed this procedure.

Deleting a provisionable entity

This procedure enables you to delete a provisionable entity from the database. An item to be deleted cannot be contained in another item.

Note 1: When used to delete physical segments or export packages from the database, this procedure automatically removes the association between the segment or package from any program groups.

Note 2: The segments in a container do not have to be removed before a provisionable entity can be deleted.

Deleting a provisionable entity

At the APS Audio Management Tool screen

- 1 Select a provisionable entity to delete in the Audio Container Tree, the Contents table, or the Physical Segments table.
- 2 Click the Delete button on the menu tool bar.

The Delete Provisionable Entity Warning window opens.

If	Do
you want to submit the deletion	step 3
you want to cancel	step 4
the segment is contained in another provisionable entity	step 5

- 3 Click OK. Go to step [7](#).
- 4 Click Cancel. Go to step [7](#).
- 5 The Provisionable Entity window opens. The system informs you that the segment must be cut from the list of provisionable entities before you can delete the entity.
- 6 Click Close.
- 7 You have completed this procedure.

Setting a container filter

Setting a container filter

At the *APS Audio Management Tool* screen

- 1 Select a folder in the Audio Container tree for which you want to set a container filter.
- 2 Click the Filter button in the Contents panel.

The Filter window opens. The Start ID and End ID default to the wildcard ().*

Note: An asterisk (*) entered in the start ID and end ID fields indicates all IDs for the provisionable entity type. Numeric start and end IDs can be entered instead. Entering either a start ID that is greater than the end ID or an invalid value will cause an error.

Filter window

Filter

ID Range

Start ID: * End ID: *

Include Versions

Latest version only All versions

OK Cancel

Java Applet Window

- 3** Enter a Start ID and End ID or keep the default values.
-
- | If | Do |
|---|------------------------|
| you want to include the latest version only | step 4 |
| you want to include all versions | step 5 |
| you want to cancel | step 6 |
-
- 4** Click the Latest Version Only radio button.
- a** Click OK.
 - b** Go to step [7](#).
- 5** Enter a Start ID and End ID or keep the current settings.
- a** Click the All Versions Radio button.
 - b** Click OK.
 - c** Go to step [7](#).
- 6** Click Cancel.
- 7** You have completed this procedure.

Cutting a segment from a container

This section describes how to cut a segment from a container such as a package, sequence, or set.

Cutting a segment from a container

At the APS Audio Management Tool screen

- 1 Select the desired containers folder in the Audio Container tree.
- 2 Expand the provisionable entity in the Audio Container tree that contains the segment you wish to cut.

The Contents table is populated with the segments contained in the provisionable entity.

- 3 In the Contents table, select the segment you wish to cut.

Note: You can select more than one segment by holding down the Shift or Ctrl key on your keyboard and click with your left mouse button.

- 4 Click the Cut button on the menu tool bar.

A Warning window opens.

Note: You cannot cut the default segment from a set unless it is the last entity in the set or unless all segments in the set have been selected to be cut.

If	Do
you want to submit the change	step 5
you want to cancel the cut operation	step 6

- 5 Click OK. Go to step [7](#).
- 6 Click Cancel.
- 7 You have completed this procedure.

Correcting an invalid or non-unique alias

This procedure enables you to correct an invalid or non-unique alias when you are performing one of the Audio Management procedures.

An alias must be less than or equal to 10 characters. If the alias is a number, it must not be a valid segment ID, unless it is the segment ID of the physical segment to which the alias is being assigned. For example, if a physical segment is labeled with segment ID “52,” the alias can also be “52,” an alphabetic string like “fiftytwo,” or a numeric value that is not a valid segment ID like “9999999999.” The alias, in this instance, cannot be a valid segment ID like “47.”

Correcting an invalid or non-unique alias

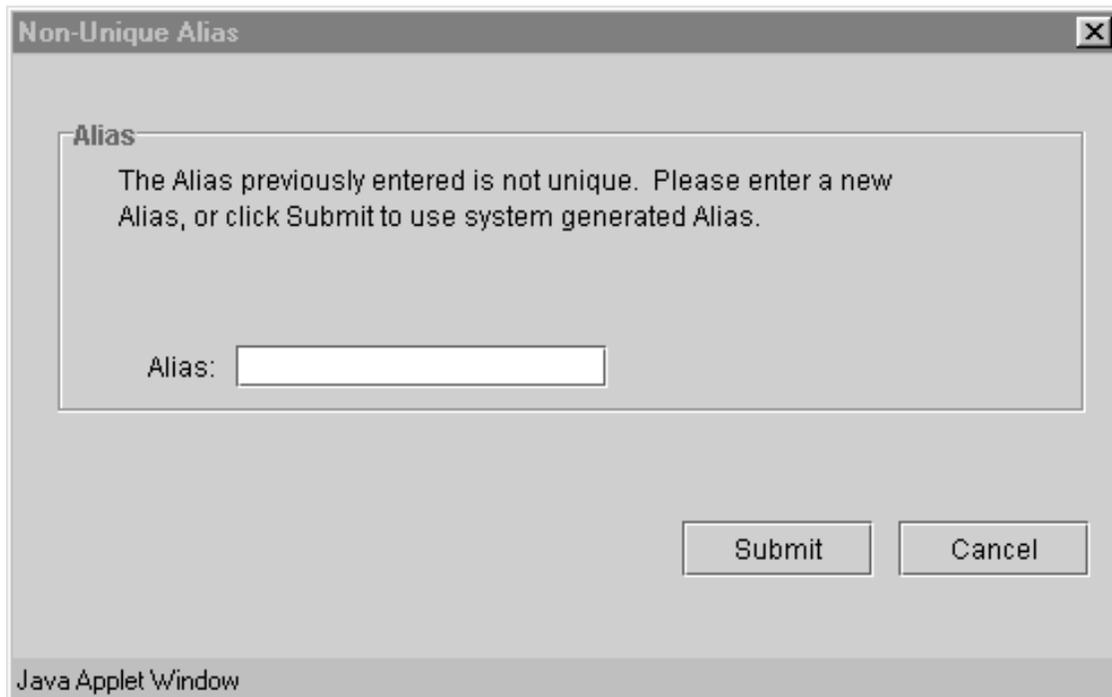
At the APS Audio Management Tool screen

- 1 Determine whether an invalid alias or a non-unique alias is to be corrected.

If	Do
you have entered a non-unique alias	step 2
you have entered an invalid alias	step 3

- 2 The Non-Unique Alias window opens.

Non-Unique Alias window



Perform one of the following steps:

- a** Enter a unique alias and click Submit. Go to step [4](#).
The system accepts the unique alias.
 - b** Do not enter a unique alias and click Submit. Go to step [4](#).
The system assigns a unique alias.
 - c** Click Cancel. Click OK. Go to step [4](#).
The system cancels the operation.
- 3** Click OK in the error dialog window.
 - a** In the editor screen where the error occurred, enter a valid alias.
 - b** Click Submit.
- 4** You have completed this procedure. Return to the step in the procedure from which this procedure was referred.

Correcting an invalid or non-unique segment ID

This procedure enables you to correct an invalid or non-unique segment ID when you are performing one of the Audio Management procedures.

A segment ID must be less than or equal to 10 characters, a valid number, and within the range of segment IDs.

Correcting an invalid or non-unique segment ID

At the APS Audio Management Tool screen

- 1 Determine whether an invalid segment ID or a non-unique segment ID is to be corrected.

If	Do
----	----

you have entered a non-unique segment ID
--

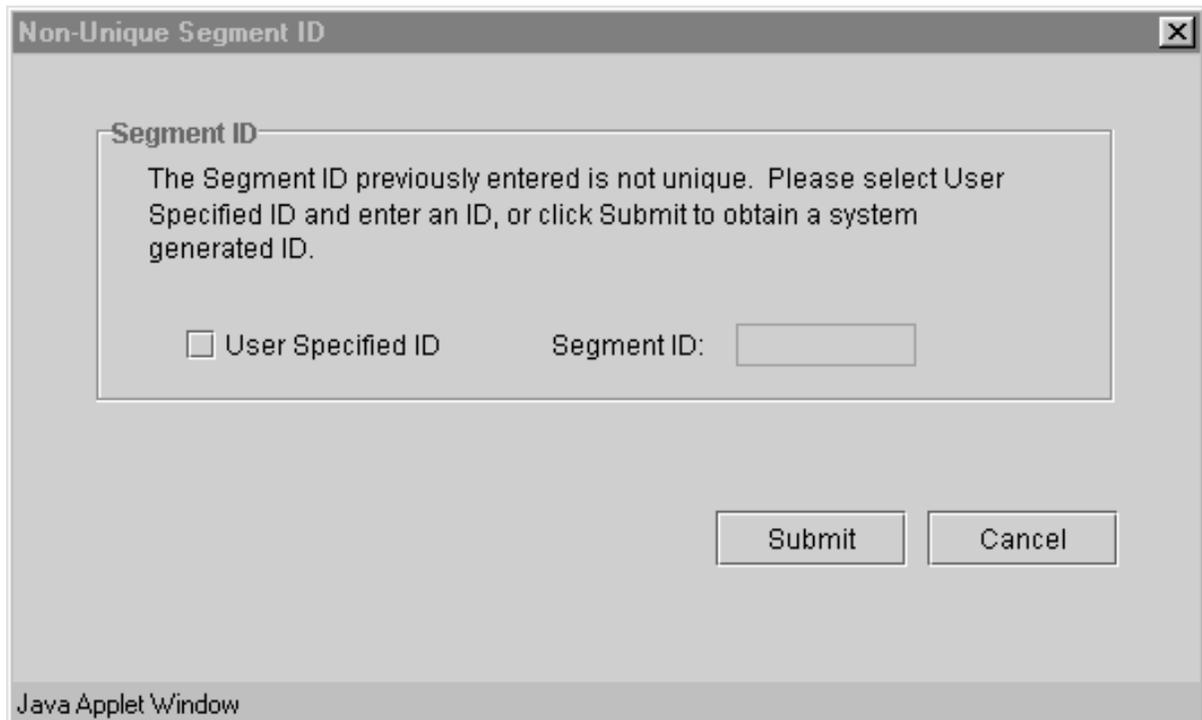
step 2

you have entered an invalid segment ID
--

step 3

- 2 The Non-Unique Segment ID window opens.

Non-Unique Segment ID window



Perform one of the following steps:

- a** Enter a unique segment ID and click Submit. Go to step [4](#).
The system accepts the unique segment ID.
 - b** Do not enter a unique segment ID and click Submit. Go to step [4](#).
The system assigns a unique segment ID.
 - c** Click Cancel. Click OK. Go to step [4](#).
The system cancels the operation.
- 3** Click OK in the error dialog window.
 - a** In the editor screen where the error occurred, enter a valid segment ID.
 - b** Click Submit.
- 4** You have completed this procedure. Return to the step in the procedure from which this procedure was referred.

Correcting invalid aliases and segment IDs

This procedure enables you to correct both invalid aliases and invalid segment IDs at one time, when both elements are determined to be in error while one of the Audio Management procedures is being performed.

An alias must be less than or equal to 10 characters. If the alias is a number, it must not be a valid segment ID, excluding the assigned segment ID for a new physical segment.

A segment ID must be less than or equal to 10 characters, a valid number, and within the range of segment IDs.

Correcting invalid aliases and segment IDs

At the APS Audio Management Tool screen

- 1 The Invalid Segment ID window opens.
 - a Click OK.
- 2 The Invalid Alias window opens.
 - a Click OK.
- 3 Enter a valid segment ID and a valid alias in the property editor screen where the error occurred.
 - a Click Submit.
- 4 You have completed this procedure. Return to the step in the procedure from which this procedure was referred.

Correcting non-unique aliases and segment IDs

This section enables you to correct both non-unique aliases and non-unique segment IDs at one time, when both elements are determined to be in error while one of the Audio Management procedures is being performed.

An alias must be less than or equal to 10 characters. If the alias is a number, it must not be a valid segment ID, excluding the assigned segment ID for a new physical segment.

A segment ID must be less than or equal to 10 characters, a valid number, and within the range of segment IDs.

Correcting non-unique aliases and segment IDs

At the APS Audio Management Tool screen

- 1 The Non-Unique Segment ID and Alias window opens.

Non-Unique Segment ID and Alias window

Segment ID

The Segment ID previously entered is not unique. Please click on User Specified ID and enter an ID, or click Submit to obtain a system generated ID.

User specified ID Segment ID:

Alias

The Alias previously entered is not unique. Please enter a new Alias, or click Submit to use a system generated Alias.

Alias:

Submit Cancel

Java Applet Window

Perform the following steps:

- a Enter a unique segment ID.
 - b Enter a unique alias.
 - c Click Submit.
- 2 You have completed this procedure. Return to the step in the procedure from which this procedure was referred.

Cantonese audio files

Note 1: Audio file names cnt508–cnt610 are optional. Only record the files when the user provisions the string functionality on the system.

Note 2: Record audio file names cnt908–cnt1486 if you provision currency on the system.

Cantonese audio (Sheet 1 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
ling	zero	flat	cnt0
		rising	cnt1
		falling	cnt2
yat	one	flat	cnt8
		rising	cnt9
		falling	cnt10
yi	two	flat	cnt12
		rising	cnt13
		falling	cnt14
saam	three	flat	cnt16
		rising	cnt17
		falling	cnt18
sei	four	flat	cnt20
		rising	cnt21
		falling	cnt22
ng	five	flat	cnt24
		rising	cnt25
		falling	cnt26

Cantonese audio (Sheet 2 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
luk	six	flat	cnt28
		rising	cnt29
		falling	cnt30
chat	seven	flat	cnt32
		rising	cnt34
		falling	cnt35
baat	eight	flat	cnt36
		rising	cnt37
		falling	cnt38
gau	nine	flat	cnt40
		rising	cnt41
		falling	cnt42
sap	ten	flat	cnt56
		rising	cnt57
		falling	cnt58
baak	hundred	flat	cnt132
		rising	cnt133
		falling	cnt134
chin	thousand	flat	cnt496
		rising	cnt497
		falling	cnt498
optional	a	flat	cnt508
		rising	cnt509
		falling	cnt510
optional	b	flat	cnt512
		rising	cnt513
		falling	cnt514

Cantonese audio (Sheet 3 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
optional	c	flat	cnt516
		rising	cnt517
		falling	cnt518
optional	d	flat	cnt520
		rising	cnt521
		falling	cnt522
optional	e	flat	cnt524
		rising	cnt525
		falling	cnt526
optional	f	flat	cnt528
		rising	cnt529
		falling	cnt530
optional	g	flat	cnt532
		rising	cnt533
		falling	cnt534
optional	h	flat	cnt536
		rising	cnt537
		falling	cnt538
optional	i	flat	cnt540
		rising	cnt541
		falling	cnt542
optional	j	flat	cnt544
		rising	cnt545
		falling	cnt546
optional	k	flat	cnt548
		rising	cnt549
		falling	cnt550

Cantonese audio (Sheet 4 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
optional	l	flat	cnt552
		rising	cnt553
		falling	cnt554
optional	m	flat	cnt556
		rising	cnt557
		falling	cnt558
optional	n	flat	cnt560
		rising	cnt561
		falling	cnt562
optional	o	flat	cnt564
		rising	cnt565
		falling	cnt566
optional	p	flat	cnt568
		rising	cnt569
		falling	cnt570
optional	q	flat	cnt572
		rising	cnt573
		falling	cnt574
optional	r	flat	cnt576
		rising	cnt577
		falling	cnt578
optional	s	flat	cnt580
		rising	cnt581
		falling	cnt582
optional	t	flat	cnt584
		rising	cnt585
		falling	cnt586

Cantonese audio (Sheet 5 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
optional	u	flat	cnt588
		rising	cnt589
		falling	cnt590
optional	v	flat	cnt592
		rising	cnt593
		falling	cnt594
optional	w	flat	cnt596
		rising	cnt597
		falling	cnt598
optional	x	flat	cnt600
		rising	cnt601
		falling	cnt602
optional	y	flat	cnt604
		rising	cnt605
		falling	cnt606
optional	z	flat	cnt608
		rising	cnt609
		falling	cnt610
foo	negative	flat	cnt616
		rising	cnt617
		falling	cnt618
ling	and	flat	cnt620
		rising	cnt621
		falling	cnt622
siu si	hour	flat	cnt624
		rising	cnt625
		falling	cnt626

Cantonese audio (Sheet 6 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
fan	minute	flat	cnt632
		rising	cnt633
		falling	cnt634
miu	second	flat	cnt640
		rising	cnt641
		falling	cnt642
jeng ho	pound sign (#)	flat	cnt896
		rising	cnt897
		falling	cnt898
sing ho	asterisk (*)	flat	cnt900
		rising	cnt901
		falling	cnt902
seung-ng	a.m.	flat	cnt908
		rising	cnt909
		falling	cnt910
ha-ng	p.m.	flat	cnt912
		rising	cnt913
		falling	cnt914
Dollar	dollar (US)	flat	cnt1200
		rising	cnt1201
		falling	cnt1202
Cent	cent (US)	flat	cnt1208
		rising	cnt1209
		falling	cnt1210
Mark	mark (Germany)	flat	cnt1216
		rising	cnt1217
		falling	cnt1218

Cantonese audio (Sheet 7 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
Pfennig	pfennig (Germany)	flat	cnt1224
		rising	cnt1225
		falling	cnt1226
Yen	yen (Japan)	flat	cnt1232
		rising	cnt1233
		falling	cnt1234
Lira	lira (Italy)	flat	cnt1240
		rising	cnt1241
		falling	cnt1242
Guilder	guilder (Netherlands)	flat	cnt1248
		rising	cnt1249
		falling	cnt1250
Cent	cent (Netherlands)	flat	cnt1256
		rising	cnt1257
		falling	cnt1258
Pound	pound (UK)	flat	cnt1264
		rising	cnt1265
		falling	cnt1266
pence	pence (UK)	flat	cnt1276
		rising	cnt1277
		falling	cnt1278
euro	euro (Euro)	flat	cnt1280
		rising	cnt1281
		falling	cnt1282
eurocent	eurocent (Euro)	flat	cnt1288
		rising	cnt1289
		falling	cnt1290

Cantonese audio (Sheet 8 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
franc	franc (France)	flat	cnt1296
		rising	cnt1297
		falling	cnt1298
centime	centime (France)	flat	cnt1304
		rising	cnt1305
		falling	cnt1306
peseta	peseta (Spain)	flat	cnt1312
		rising	cnt1313
		falling	cnt1314
peso	peso (Philippines)	flat	cnt1328
		rising	cnt1329
		falling	cnt1330
centavo	centavo (Philippines)	flat	cnt1336
		rising	cnt1337
		falling	cnt1338
ringgit	ringgit (Malaysia)	flat	cnt1344
		rising	cnt1345
		falling	cnt1346
sen	sen (Malaysia)	flat	cnt1352
		rising	cnt1353
		falling	cnt1354
baht	baht (Thailand)	flat	cnt1360
		rising	cnt1361
		falling	cnt1362
satang	satang (Thailand)	flat	cnt1368
		rising	cnt1369
		falling	cnt1370

Cantonese audio (Sheet 9 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
won	won	flat	cnt1376
	(Korea)	rising	cnt1377
		falling	cnt1378
franc	franc	flat	cnt1384
	(Belgium)	rising	cnt1385
		falling	cnt1386
centime	centime	flat	cnt1392
	(Belgium)	rising	cnt1393
		falling	cnt1394
dollar	dollar	flat	cnt1400
	(Canada)	rising	cnt1401
		falling	cnt1402
cent	cent	flat	cnt1408
	(Canada)	rising	cnt1409
		falling	cnt1410
dollar	dollar	flat	cnt1416
	(Hong Kong)	rising	cnt1417
		falling	cnt1418
cent	cent	flat	cnt1424
	(Hong Kong)	rising	cnt1425
		falling	cnt1426
gok	gok	flat	cnt1488
	(Hong Kong)	rising	cnt1489
		falling	cnt1490
escudo	escudo	flat	cnt1432
	(Portugal)	rising	cnt1433
		falling	cnt1434

Cantonese audio (Sheet 10 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
centavo	centavo (Portugal)	flat	cnt1440
		rising	cnt1441
		falling	cnt1442
yuan	yuan (China)	flat	cnt1448
		rising	cnt1449
		falling	cnt1450
jiao	jiao (China)	flat	cnt1456
		rising	cnt1457
		falling	cnt1458
fen	fen (China)	flat	cnt1464
		rising	cnt1465
		falling	cnt1466
pound	pound (Ireland)	flat	cnt1472
		rising	cnt1473
		falling	cnt1474
pence	pence (Ireland)	flat	cnt1484
		rising	cnt1485
		falling	cnt1486
sing kei	week	flat	cnt920
		rising	cnt921
		falling	cnt922
yuet	month	flat	cnt924
		rising	cnt925
		falling	cnt926
nian	year	flat	cnt928
		rising	cnt929
		falling	cnt930

Cantonese audio (Sheet 11 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
yat	day	flat	cnt932
		rising	cnt933
		falling	cnt934
dai	prefix for ordinal	flat	cnt936
		rising	cnt937
		falling	cnt938
goh	suffix for ordinal	flat	cnt940
		rising	cnt941
		falling	cnt942
maan	ten-thousand	flat	cnt944
		rising	cnt945
		falling	cnt946
yik	hundred-million	flat	cnt948
		rising	cnt949
		falling	cnt950
dian	hour used in telling time	flat	cnt952
		rising	cnt953
		falling	cnt954
yat	day (for Sunday)	flat	cnt956
		rising	cnt957
		falling	cnt958
ling chen	used for telling time from midnight to 5:59 am	flat	cnt960
		rising	cnt961
		falling	cnt962
shang wu	used for telling time from 6 am to 11:59 am	flat	cnt964
		rising	cnt965
		falling	cnt966

Cantonese audio (Sheet 12 of 12)

Cantonese phrase or English equivalent	English	Phrase intonation	File name
zhong wu	used for telling time from noon to 12:59 pm	flat	cnt968
		rising	cnt969
		falling	cnt970
xia wu	used for telling time from 1 pm to 5:59 pm	flat	cnt972
		rising	cnt973
		falling	cnt974
wan shang	used for telling time from 6 pm to 11:59 pm	flat	cnt976
		rising	cnt977
		falling	cnt978
zheng	word for "o'clock", used when minutes are zero	flat	cnt980
		rising	cnt981
		falling	cnt982

Czech audio files

Note 1: Only record audio file names ces1200-ces4070 if the user provisions audio files for this currency.

Note 2: Audio files names ces508-ces610 are used for strings functionality. Recording of this audio is optional and the content of the recording can be any word.

Note 3: Audio files names ces972-ces1010 are used for currency values between 2 and 4.

Note 4: Audio files names ces1096-ces1138 are used for months when spoken in dates.

Note 5: Audio files names ces1140-ces1170 are used with ordinal hundreds, thousands, millions, and billions.

Czech audio (Sheet 1 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
nula	zero	flat	ces0
		rising	ces1
		falling	ces2
yeden	one (masc.)	flat	ces8
		rising	ces9
		falling	ces10
dva	two (masc.)	flat	ces12
		rising	ces13
		falling	ces14
thri	three	flat	ces16
		rising	ces17
		falling	ces18
chtyrhi	four	flat	ces20
		rising	ces21
		falling	ces22

Czech audio (Sheet 2 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
pyet	five	flat	ces24
		rising	ces25
		falling	ces26
shest	six	flat	ces28
		rising	ces29
		falling	ces30
sedium	seven	flat	ces32
		rising	ces33
		falling	ces34
osum	eight	flat	ces36
		rising	ces37
		falling	ces38
devyet	nine	flat	ces40
		rising	ces41
		falling	ces42
deset	ten	flat	ces56
		rising	ces57
		falling	ces58
yedenatst	eleven	flat	ces60
		rising	ces61
		falling	ces62
dvanatst	twelve	flat	ces64
		rising	ces65
		falling	ces66
trhinastst	thirteen	flat	ces68
		rising	ces69
		falling	ces70

Czech audio (Sheet 3 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
chtrnatst	fourteen	flat	ces72
		rising	ces73
		falling	ces74
patnatst	fifteen	flat	ces76
		rising	ces77
		falling	ces78
shestnatst	sixteen	flat	ces80
		rising	ces81
		falling	ces82
sedumnatst	seventeen	flat	ces84
		rising	ces85
		falling	ces86
osumnatst	eighteen	flat	ces88
		rising	ces89
		falling	ces90
devatenatst	nineteen	flat	ces92
		rising	ces93
		falling	ces94
dvatset	twenty	flat	ces96
		rising	ces97
		falling	ces98
trhitset	thirty	flat	ces100
		rising	ces101
		falling	ces102
chtyrhitset	forty	flat	ces104
		rising	ces105
		falling	ces106

Czech audio (Sheet 4 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
padesat	fifty	flat	ces108
		rising	ces109
		falling	ces110
shedesat	sixty	flat	ces112
		rising	ces113
		falling	ces114
sedmdesat	seventy	flat	ces116
		rising	ces117
		falling	ces118
osmdesat	eighty	flat	ces120
		rising	ces121
		falling	ces122
devadesat	ninety	flat	ces124
		rising	ces125
		falling	ces126
sto	hundred	flat	ces128
		rising	ces129
		falling	ces130
tiseets	thousand	flat	ces496
		rising	ces497
		falling	ces498
miliaun	million	flat	ces500
		rising	ces501
		falling	ces502
miliarda	billion	flat	ces504
		rising	ces505
		falling	ces506

Czech audio (Sheet 5 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
optional	a	flat	ces508
		rising	ces509
		falling	ces510
optional	b	flat	ces512
		rising	ces513
		falling	ces514
optional	c	flat	ces516
		rising	ces517
		falling	ces518
optional	d	flat	ces520
		rising	ces521
		falling	ces522
optional	e	flat	ces524
		rising	ces525
		falling	ces526
optional	f	flat	ces528
		rising	ces529
		falling	ces530
optional	g	flat	ces532
		rising	ces533
		falling	ces534
optional	h	flat	ces536
		rising	ces537
		falling	ces538
optional	i	flat	ces540
		rising	ces541
		falling	ces542

Czech audio (Sheet 6 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
optional	j	flat	ces544
		rising	ces545
		falling	ces546
optional	k	flat	ces548
		rising	ces549
		falling	ces550
optional	l	flat	ces552
		rising	ces553
		falling	ces554
optional	m	flat	ces556
		rising	ces557
		falling	ces558
optional	n	flat	ces560
		rising	ces561
		falling	ces562
optional	o	flat	ces564
		rising	ces565
		falling	ces566
optional	p	flat	ces568
		rising	ces569
		falling	ces570
optional	q	flat	ces572
		rising	ces573
		falling	ces574
optional	r	flat	ces576
		rising	ces577
		falling	ces578

Czech audio (Sheet 7 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
optional	s	flat	ces580
		rising	ces581
		falling	ces582
optional	t	flat	ces584
		rising	ces585
		falling	ces586
optional	u	flat	ces588
		rising	ces589
		falling	ces590
optional	v	flat	ces592
		rising	ces593
		falling	ces594
optional	w	flat	ces596
		rising	ces597
		falling	ces598
optional	x	flat	ces600
		rising	ces601
		falling	ces602
optional	y	flat	ces604
		rising	ces605
		falling	ces606
optional	z	flat	ces608
		rising	ces609
		falling	ces610
meenus	negative	flat	ces616
		rising	ces617
		falling	ces618

Czech audio (Sheet 8 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
a	and	flat	ces620
		rising	ces621
		falling	ces622
hodina	hour	flat	ces624
		rising	ces625
		falling	ces626
hodin	hours	flat	ces628
		rising	ces629
		falling	ces630
minuta	minute	flat	ces632
		rising	ces633
		falling	ces634
minut	minutes	flat	ces636
		rising	ces637
		falling	ces638
sekunda	second	flat	ces640
		rising	ces641
		falling	ces642
sekund	seconds	flat	ces644
		rising	ces645
		falling	ces646
leden	January	flat	ces648
		rising	ces649
		falling	ces650
oonor	February	flat	ces652
		rising	ces653
		falling	ces654

Czech audio (Sheet 9 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
brhezen	March	flat	ces656
		rising	ces657
		falling	ces658
duben	April	flat	ces660
		rising	ces661
		falling	ces662
kvyeten	May	flat	ces664
		rising	ces665
		falling	ces666
cherven	June	flat	ces668
		rising	ces669
		falling	ces670
chervenets	July	flat	ces672
		rising	ces673
		falling	ces674
srpen	August	flat	ces676
		rising	ces677
		falling	ces678
zarhee	September	flat	ces680
		rising	ces681
		falling	ces682
rheeyen	October	flat	ces684
		rising	ces685
		falling	ces686
listopad	November	flat	ces688
		rising	ces689
		falling	ces690

Czech audio (Sheet 10 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
prosinets	December	flat	ces692
		rising	ces693
		falling	ces694
nedyele	Sunday	flat	ces696
		rising	ces697
		falling	ces698
pondyeele	Monday	flat	ces700
		rising	ces701
		falling	ces702
ooteree	Tuesday	flat	ces704
		rising	ces705
		falling	ces706
strheda	Wednesday	flat	ces708
		rising	ces709
		falling	ces710
chtvrtek	Thursday	flat	ces712
		rising	ces713
		falling	ces714
patek	Friday	flat	ces716
		rising	ces717
		falling	ces718
sobota	Saturday	flat	ces720
		rising	ces721
		falling	ces722
nultee	zeroeth	flat	ces724
		rising	ces725
		falling	ces726

Czech audio (Sheet 11 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
prvnyee	first	flat	ces728
		rising	ces729
		falling	ces730
druheee	second (masc.)	flat	ces732
		rising	ces733
		falling	ces734
trhetyee	third	flat	ces736
		rising	ces737
		falling	ces738
chtvrtee	fourth (masc.)	flat	ces740
		rising	ces741
		falling	ces742
patee	fifth (masc.)	flat	ces744
		rising	ces745
		falling	ces746
shestee	sixth (masc.)	flat	ces748
		rising	ces749
		falling	ces750
sedmee	seventh (masc.)	flat	ces752
		rising	ces753
		falling	ces754
osmee	eighth (masc.)	flat	ces756
		rising	ces757
		falling	ces758
devatee	ninth (masc.)	flat	ces760
		rising	ces761
		falling	ces762

Czech audio (Sheet 12 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
desatee	tenth (masc.)	flat	ces764
		rising	ces765
		falling	ces766
yedenatstee	eleventh (masc.)	flat	ces768
		rising	ces769
		falling	ces770
dvanatstee	twelfth (masc.)	flat	ces772
		rising	ces773
		falling	ces774
trhinatstee	thirteenth (masc.)	flat	ces776
		rising	ces777
		falling	ces778
chtrnatstee	fourteenth (masc.)	flat	ces780
		rising	ces781
		falling	ces782
patnatstee	fifteenth (masc.)	flat	ces784
		rising	ces785
		falling	ces786
shestnatstee	sixteenth (masc.)	flat	ces788
		rising	ces789
		falling	ces790
sedumnatstee	seventeenth (masc.)	flat	ces792
		rising	ces793
		falling	ces794
osumnatstee	eighteenth (masc.)	flat	ces796
		rising	ces797
		falling	ces798

Czech audio (Sheet 13 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
devatenatstee	nineteenth (masc.)	flat	ces800
		rising	ces801
		falling	ces802
dvatsatee	twentieth (masc.)	flat	ces804
		rising	ces805
		falling	ces806
trhitsatee	thirtieth (masc.)	flat	ces808
		rising	ces809
		falling	ces810
chtyrhitsatee	fortieth (masc.)	flat	ces812
		rising	ces813
		falling	ces814
padesatee	fiftieth (masc.)	flat	ces816
		rising	ces817
		falling	ces818
shedesatee	sixtieth (masc.)	flat	ces820
		rising	ces821
		falling	ces822
sedumdesatee	seventieth (masc.)	flat	ces824
		rising	ces825
		falling	ces826
osumdesatee	eightieth (masc.)	flat	ces828
		rising	ces829
		falling	ces830
devadesatee	ninetieth (masc.)	flat	ces832
		rising	ces833
		falling	ces834

Czech audio (Sheet 14 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
stee	one-hundredth (masc.)	flat	ces836
		rising	ces837
		falling	ces838
tiseetsee	thousandth (masc.)	flat	ces872
		rising	ces873
		falling	ces874
miliontee	millionth (masc.)	flat	ces880
		rising	ces881
		falling	ces882
miliardtee	billionth (masc.)	flat	ces888
		rising	ces889
		falling	ces890
mrheezhka	pound sign (#)	flat	ces896
		rising	ces897
		falling	ces898
hvyezdichka	asterisk (*)	flat	ces900
		rising	ces901
		falling	ces902
ranho	a.m.	flat	ces908
		rising	ces909
		falling	ces910
odpoledne	p.m.	flat	ces912
		rising	ces913
		falling	ces914
dolar	dollar (US)	flat	ces1200
		rising	ces1201
		falling	ces1202

Czech audio (Sheet 15 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
dolaroo	dollars	flat	ces1204
	(US)	rising	ces1205
		falling	ces1206
tsent	cent	flat	ces1208
	(US)	rising	ces1209
		falling	ces1210
tsentoo	cents	flat	ces1212
	(US)	rising	ces1213
		falling	ces1214
mark	mark	flat	ces1216
	(Germany)	rising	ces1217
		falling	ces1218
marks	marks	flat	ces1220
	(Germany)	rising	ces1221
		falling	ces1222
pfennig	pfennig	flat	ces1224
	(Germany)	rising	ces1225
		falling	ces1226
pfennigs	pfennigs	flat	ces1228
	(Germany)	rising	ces1229
		falling	ces1230
yen	yen	flat	ces1232
	(Japan)	rising	ces1233
		falling	ces1234
yens	yens	flat	ces1236
	(Japan)	rising	ces1237
		falling	ces1238

Czech audio (Sheet 16 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
lira	lira (Italy)	flat	ces1240
		rising	ces1241
		falling	ces1242
lire	liras (Italy)	flat	ces1244
		rising	ces1245
		falling	ces1246
guilder	guilder (Netherlands)	flat	ces1248
		rising	ces1249
		falling	ces1250
guilders	guilders (Netherlands)	flat	ces1252
		rising	ces1253
		falling	ces1254
cent	cent (Netherlands)	flat	ces1256
		rising	ces1257
		falling	ces1258
cent	cents (Netherlands)	flat	ces1260
		rising	ces1261
		falling	ces1262
pound	pound (UK)	flat	ces1264
		rising	ces1265
		falling	ces1266
pounds	pounds (UK)	flat	ces1268
		rising	ces1269
		falling	ces1270
penny	penny (UK)	flat	ces1272
		rising	ces1273
		falling	ces1274

Czech audio (Sheet 17 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
pence	pence (UK)	flat	ces1276
		rising	ces1277
		falling	ces1278
e-uro	euro (Euro)	flat	ces1280
		rising	ces1281
		falling	ces1282
e-ur	euros (Euro)	flat	ces1284
		rising	ces1285
		falling	ces1286
e-urotsent	eurocent (Euro)	flat	ces1288
		rising	ces1289
		falling	ces1290
e-urotsentoo	eurocents (Euro)	flat	ces1292
		rising	ces1293
		falling	ces1294
frank	franc (France)	flat	ces1296
		rising	ces1297
		falling	ces1298
frankoo	francs (France)	flat	ces1300
		rising	ces1301
		falling	ces1302
tsentime	centime (France)	flat	ces1304
		rising	ces1305
		falling	ces1306
tsentimoo	centimes (France)	flat	ces1308
		rising	ces1309
		falling	ces1310

Czech audio (Sheet 18 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
peseta	peseta (Spain)	flat	ces1312
		rising	ces1313
		falling	ces1314
pesetas	pesetas (Spain)	flat	ces1316
		rising	ces1317
		falling	ces1318
peso	peso (Philippines)	flat	ces1328
		rising	ces1329
		falling	ces1330
pesos	pesos (Philippines)	flat	ces1332
		rising	ces1333
		falling	ces1334
centavo	centavo (Philippines)	flat	ces1336
		rising	ces1337
		falling	ces1338
centavos	centavos (Philippines)	flat	ces1340
		rising	ces1341
		falling	ces1342
ringgit	ringgit (Malaysia)	flat	ces1344
		rising	ces1345
		falling	ces1346
ringgits	ringgits (Malaysia)	flat	ces1348
		rising	ces1349
		falling	ces1350
sen	sens (Malaysia)	flat	ces1356
		rising	ces1357
		falling	ces1358

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Czech phrase or English equivalent	English	Phrase intonation	File name
sens	sen	flat	ces1352
	(Malaysia)	rising	ces1353
		falling	ces1354
baht	baht	flat	ces1360
	(Thailand)	rising	ces1361
		falling	ces1362
bahts	bahts	flat	ces1364
	(Thailand)	rising	ces1365
		falling	ces1366
satang	satang	flat	ces1368
	(Thailand)	rising	ces1369
		falling	ces1370
satangs	satangs	flat	ces1372
	(Thailand)	rising	ces1373
		falling	ces1374
won	won	flat	ces1376
	(Korea)	rising	ces1377
		falling	ces1378
wons	wons	flat	ces1380
	(Korea)	rising	ces1381
		falling	ces1382
franc	franc	flat	ces1384
	(Belgium)	rising	ces1385
		falling	ces1386
francs	francs	flat	ces1388
	(Belgium)	rising	ces1389
		falling	ces1390

Czech audio (Sheet 20 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
centime	centime (Belgium)	flat	ces1392
		rising	ces1393
		falling	ces1394
centimes	centimes (Belgium)	flat	ces1396
		rising	ces1397
		falling	ces1398
dollar	dollar (Canada)	flat	ces1400
		rising	ces1401
		falling	ces1402
dollars	dollars (Canada)	flat	ces1404
		rising	ces1405
		falling	ces1406
cent	cent (Canada)	flat	ces1408
		rising	ces1409
		falling	ces1410
cents	cents (Canada)	flat	ces1412
		rising	ces1413
		falling	ces1414
dollar	dollar (Hong Kong)	flat	ces1416
		rising	ces1417
		falling	ces1418
dollars	dollars (Hong Kong)	flat	ces1420
		rising	ces1421
		falling	ces1422
cent	cent (Hong Kong)	flat	ces1424
		rising	ces1425
		falling	ces1426

Czech audio (Sheet 21 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
cents	cents (Hong Kong)	flat	ces1428
		rising	ces1429
		falling	ces1430
gok	gok (Hong Kong)	flat	ces1488
		rising	ces1489
		falling	ces1490
Goks	goks (Hong Kong)	flat	ces1492
		rising	ces1493
		falling	ces1494
escudo	escudo (Portugal)	flat	ces1432
		rising	ces1433
		falling	ces1434
escudos	escudos (Portugal)	flat	ces1436
		rising	ces1437
		falling	ces1438
centavo	centavo (Portugal)	flat	ces1440
		rising	ces1441
		falling	ces1442
centavos	centavos (Portugal)	flat	ces1444
		rising	ces1445
		falling	ces1446
yuan	yuan (China)	flat	ces1448
		rising	ces1449
		falling	ces1450
yuans	yuans (China)	flat	ces1452
		rising	ces1453
		falling	ces1454

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Czech phrase or English equivalent	English	Phrase intonation	File name
jiao	jiao (China)	flat	ces1456
		rising	ces1457
		falling	ces1458
jiaos	jiaos (China)	flat	ces1460
		rising	ces1461
		falling	ces1462
fen	fen (China)	flat	ces1464
		rising	ces1465
		falling	ces1466
fens	fens (China)	flat	ces1468
		rising	ces1469
		falling	ces1470
pound	pound (Ireland)	flat	ces1472
		rising	ces1473
		falling	ces1474
pounds	pounds (Ireland)	flat	ces1476
		rising	ces1477
		falling	ces1478
penny	penny (Ireland)	flat	ces1480
		rising	ces1481
		falling	ces1482
pence	pence (Ireland)	flat	ces1484
		rising	ces1485
		falling	ces1486
shekel	shekel (Israel)	flat	ces4000
		rising	ces4001
		falling	ces4002

Czech audio (Sheet 23 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
shekels	shekels (Israel)	flat	ces4004
		rising	ces4005
		falling	ces4006
agoro	agoro (Israel)	flat	ces4008
		rising	ces4009
		falling	ces4010
agoros	agoros (Israel)	flat	ces4012
		rising	ces4013
		falling	ces4014
koruna	koruna (Czech)	flat	ces4016
		rising	ces4017
		falling	ces4018
korun	korunas (Czech)	flat	ces4020
		rising	ces4021
		falling	ces4022
haleru	haleru (Czech)	flat	ces4024
		rising	ces4025
		falling	ces4026
haleroo	halerus (Czech)	flat	ces4028
		rising	ces4029
		falling	ces4030
lira	lira (Turkey)	flat	ces4032
		rising	ces4033
		falling	ces4034
lire	lire (Turkey)	flat	ces4036
		rising	ces4037
		falling	ces4038

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Czech phrase or English equivalent	English	Phrase intonation	File name
dratshma	drachma (Greece)	flat	ces4040
		rising	ces4041
		falling	ces4042
drachmas	drachmas (Greece)	flat	ces4044
		rising	ces4045
		falling	ces4046
dong	dong (Vietnam)	flat	ces4048
		rising	ces4049
		falling	ces4050
dongs	dongs (Vietnam)	flat	ces4052
		rising	ces4053
		falling	ces4054
rupi-e	rupee (India)	flat	ces4056
		rising	ces4057
		falling	ces4058
rupi-ee	rupees (India)	flat	ces4060
		rising	ces4061
		falling	ces4062
paisa	paisa (India)	flat	ces4064
		rising	ces4065
		falling	ces4066
paisoo	paisas (India)	flat	ces4068
		rising	ces4069
		falling	ces4070
yedna	one (fem.)	flat	ces920
		rising	ces921
		falling	ces922

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Czech phrase or English equivalent	English	Phrase intonation	File name
yedno	one (neuter)	flat	ces924
		rising	ces925
		falling	ces926
dvye	two (fem. and neuter)	flat	ces928
		rising	ces929
		falling	ces930
sta	hundreds (200 to 400)	flat	ces932
		rising	ces933
		falling	ces934
set	hundreds (500 to 900)	flat	ces936
		rising	ces937
		falling	ces938
tiseetse	thousands (2000 to 4000)	flat	ces940
		rising	ces941
		falling	ces942
miliauny	millions (2 million to 4 million)	flat	ces944
		rising	ces945
		falling	ces946
miliaunoo	millions (5 million through <i>n</i> million)	flat	ces948
		rising	ces949
		falling	ces950
miliardy	billions (2 billion to 4 billion)	flat	ces952
		rising	ces953
		falling	ces954
miliard	billions (5 billion through <i>n</i> billion)	flat	ces956
		rising	ces957
		falling	ces958

Czech audio (Sheet 26 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
hodiny	hours (for 2 to 4 hours)	flat	ces960
		rising	ces961
		falling	ces962
minuty	minutes (for 2 to 4 minutes)	flat	ces964
		rising	ces965
		falling	ces966
sekundy	seconds (for 2 to r seconds)	flat	ces968
		rising	ces969
		falling	ces970
dolary	dollars (US)	flat	ces972
		rising	ces973
		falling	ces974
tsenty	cents (US)	flat	ces976
		rising	ces977
		falling	ces978
e-ura	euros (Euro)	flat	ces980
		rising	ces981
		falling	ces982
e-urotsenty	eurocents (Euro)	flat	ces984
		rising	ces985
		falling	ces986
rupie	rupees (India)	flat	ces988
		rising	ces989
		falling	ces990
paisy	paisas (India)	flat	ces992
		rising	ces993
		falling	ces994

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Czech phrase or English equivalent	English	Phrase intonation	File name
franky	francs (France)	flat	ces996
		rising	ces997
		falling	ces998
tsentimy	centimes (France)	flat	ces1000
		rising	ces1001
		falling	ces1002
koruny	korunas (Czech)	flat	ces1004
		rising	ces1005
		falling	ces1006
halaery	halerus (Czech)	flat	ces1008
		rising	ces1009
		falling	ces1010
perv-nee-ho	first (for dates)	flat	ces1012
		rising	ces1013
		falling	ces1014
droo-heh-ho	second (for dates)	flat	ces1016
		rising	ces1017
		falling	ces1018
trzh-et-ee-ho	third (for dates)	flat	ces1020
		rising	ces1021
		falling	ces1022
chet-vert-eh-ho	fourth (for dates)	flat	ces1024
		rising	ces1025
		falling	ces1026
pah-teh-ho	fifth (for dates)	flat	ces1028
		rising	ces1029
		falling	ces1030

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Czech phrase or English equivalent	English	Phrase intonation	File name
shes-teh-ho	sixth (for dates)	flat	ces1032
		rising	ces1033
		falling	ces1034
sed-meh-ho	seventh (for dates)	flat	ces1036
		rising	ces1037
		falling	ces1038
ausmeh-ho	eighth (for dates)	flat	ces1040
		rising	ces1041
		falling	ces1042
deh-vah-teh-ho	ninth (for dates)	flat	ces1044
		rising	ces1045
		falling	ces1046
deh-sah-teh-ho	tenth (for dates)	flat	ces1048
		rising	ces1049
		falling	ces1050
yedenatsteho	eleventh (for dates)	flat	ces1052
		rising	ces1053
		falling	ces1054
dvanatsteho	twelfth (for dates)	flat	ces1056
		rising	ces1057
		falling	ces1058
trhiniatsteho	thirteenth (for dates)	flat	ces1060
		rising	ces1061
		falling	ces1062
chtrnatsteho	fourteenth (for dates)	flat	ces1064
		rising	ces1065
		falling	ces1066

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Czech phrase or English equivalent	English	Phrase intonation	File name
patnatsteho	fifteenth (for dates)	flat	ces1068
		rising	ces1069
		falling	ces1070
shestnatsteho	sixteenth (for dates)	flat	ces1072
		rising	ces1073
		falling	ces1074
sedumnatsteho	seventeenth (for dates)	flat	ces1076
		rising	ces1077
		falling	ces1078
osumnatsteho	eighteenth (for dates)	flat	ces1080
		rising	ces1081
		falling	ces1082
devatenatsteho	nineteenth (for dates)	flat	ces1084
		rising	ces1085
		falling	ces1086
dvatsateho	twentieth (for dates)	flat	ces1088
		rising	ces1089
		falling	ces1090
trhitsateho	thirtieth (for dates)	flat	ces1092
		rising	ces1093
		falling	ces1094
ledna	january	flat	ces1096
		rising	ces1097
		falling	ces1098
oonora	february	flat	ces1100
		rising	ces1101
		falling	ces1102

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Czech phrase or English equivalent	English	Phrase intonation	File name
brhezna	march	flat	ces1104
		rising	ces1105
		falling	ces1106
dubna	april	flat	ces1108
		rising	ces1109
		falling	ces1110
kvyetena	may	flat	ces1112
		rising	ces1113
		falling	ces1114
chervena	june	flat	ces1116
		rising	ces1117
		falling	ces1118
chervenetsa	july	flat	ces1120
		rising	ces1121
		falling	ces1122
srpena	august	flat	ces1124
		rising	ces1125
		falling	ces1126
rheeyena	october	flat	ces1128
		rising	ces1129
		falling	ces1130
listopada	november	flat	ces1132
		rising	ces1133
		falling	ces1134
prosinetsa	december	flat	ces1136
		rising	ces1137
		falling	ces1138

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Czech phrase or English equivalent	English	Phrase intonation	File name
dvouh	two	flat	ces1140
		rising	ces1141
		falling	ces1142
trzhee	three	flat	ces1144
		rising	ces1145
		falling	ces1146
chetirz	four	flat	ces1148
		rising	ces1149
		falling	ces1150
pyeti	five	flat	ces1152
		rising	ces1153
		falling	ces1154
shesti	six	flat	ces1156
		rising	ces1157
		falling	ces1158
sedmi	seven	flat	ces1160
		rising	ces1161
		falling	ces1162
osmi	eight	flat	ces1164
		rising	ces1165
		falling	ces1166
devee	nine	flat	ces1168
		rising	ces1169
		falling	ces1170
poolnots	midnight (00:00 a.m.)	flat	ces1172
		rising	ces1173
		falling	ces1174

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Czech phrase or English equivalent	English	Phrase intonation	File name
po poolnotsi	after midnight	flat	ces1176
	(00:01 a.m. to 00:59a.m.)	rising	ces1177
		falling	ces1178
ranho	morning	flat	ces1180
	(1:00 a.m. to 11:00 a.m.)	rising	ces1181
		falling	ces1182
poledne	noon	flat	ces1184
	(12:00 p.m.)	rising	ces1185
		falling	ces1186
odpoledne	afternoon	flat	ces1188
	(12:01 p.m. to 4:00 p.m.)	rising	ces1189
		falling	ces1190
vecher	evening	flat	ces1192
	(5:00 p.m. to 7:00 p.m.)	rising	ces1193
		falling	ces1194
v notsi	night	flat	ces1196
	(8:00 p.m. to 11:00 p.m.)	rising	ces1197
		falling	ces1198
druha	second	flat	ces1500
	(fem)	rising	ces1501
		falling	ces1502
chtvrta	fourth	flat	ces1504
	(fem)	rising	ces1505
		falling	ces1506
pata	fifth	flat	ces1508
	(fem)	rising	ces1509
		falling	ces1510

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Czech phrase or English equivalent	English	Phrase intonation	File name
shesta	sixth	flat	ces1512
	(fem)	rising	ces1513
		falling	ces1514
sedma	seventh	flat	ces1516
	(fem)	rising	ces1517
		falling	ces1518
osma	eighth	flat	ces1520
	(fem)	rising	ces1521
		falling	ces1522
devata	ninth	flat	ces1524
	(fem)	rising	ces1525
		falling	ces1526
desata	tenth	flat	ces1528
	(fem)	rising	ces1529
		falling	ces1530
yedenatsta	eleventh	flat	ces1532
	(fem)	rising	ces1533
		falling	ces1534
dvanatsta	twelfth	flat	ces1536
	(fem)	rising	ces1537
		falling	ces1538
trhinatsta	thirteenth	flat	ces1540
	(fem)	rising	ces1541
		falling	ces1542
chtrnatsta	fourteenth	flat	ces1544
	(fem)	rising	ces1545
		falling	ces1546

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Czech phrase or English equivalent	English	Phrase intonation	File name
patnatsta	fifteenth	flat	ces1548
	(fem)	rising	ces1549
		falling	ces1550
shestnatsta	sixteenth	flat	ces1552
	(fem)	rising	ces1553
		falling	ces1554
sedumnatsta	seventeenth	flat	ces1556
	(fem)	rising	ces1557
		falling	ces1558
osumnatsta	eighteenth	flat	ces1560
	(fem)	rising	ces1561
		falling	ces1562
devatenatsta	nineteenth	flat	ces1564
	(fem)	rising	ces1565
		falling	ces1566
dvatsata	twentieth	flat	ces1568
	(fem)	rising	ces1569
		falling	ces1570
trhitsata	thirtieth	flat	ces1572
	(fem)	rising	ces1573
		falling	ces1574
chtyrhitsata	fortieth	flat	ces1576
	(fem)	rising	ces1577
		falling	ces1578
padeasata	fiftieth	flat	ces1580
	(fem)	rising	ces1581
		falling	ces1582

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Czech phrase or English equivalent	English	Phrase intonation	File name
shedesata	sixtieth	flat	ces1584
	(fem)	rising	ces1585
		falling	ces1586
sedumdesata	seventieth	flat	ces1588
	(fem)	rising	ces1589
		falling	ces1590
osumdesata	eightieth	flat	ces1592
	(fem)	rising	ces1593
		falling	ces1594
devadesata	ninetieth	flat	ces1596
	(fem)	rising	ces1597
		falling	ces1598
sta	hundredth	flat	ces1600
	(fem)	rising	ces1601
		falling	ces1602
tiseetsa	thousandth	flat	ces1604
	(fem)	rising	ces1605
		falling	ces1606
milionta	millionth	flat	ces1608
	(fem)	rising	ces1609
		falling	ces1610
miliardta	billionth	flat	ces1612
	(fem)	rising	ces1613
		falling	ces1614
druhae	second	flat	ces1616
	(neuter)	rising	ces1617
		falling	ces1618

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Czech phrase or English equivalent	English	Phrase intonation	File name
chvrtae	fourth (neuter)	flat	ces1620
		rising	ces1621
		falling	ces1622
patae	fifth (neuter)	flat	ces1624
		rising	ces1625
		falling	ces1626
shestae	sixth (neuter)	flat	ces1628
		rising	ces1629
		falling	ces1630
sedmae	seventh (neuter)	flat	ces1632
		rising	ces1633
		falling	ces1634
osmae	eighth (neuter)	flat	ces1636
		rising	ces1637
		falling	ces1638
devatae	ninth (neuter)	flat	ces1640
		rising	ces1641
		falling	ces1642
desatae	tenth (neuter)	flat	ces1644
		rising	ces1645
		falling	ces1646
yedenatstae	eleventh (neuter)	flat	ces1648
		rising	ces1649
		falling	ces1650
dvanatstae	twelfth (neuter)	flat	ces1652
		rising	ces1653
		falling	ces1654

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Czech phrase or English equivalent	English	Phrase intonation	File name
trhinatstae	thirteenth (neuter)	flat	ces1656
		rising	ces1657
		falling	ces1658
chtrnatstae	fourteenth (neuter)	flat	ces1660
		rising	ces1661
		falling	ces1662
patnatstae	fifteenth (neuter)	flat	ces1664
		rising	ces1665
		falling	ces1666
shestnatstae	sixteenth (neuter)	flat	ces1668
		rising	ces1669
		falling	ces1670
sedumnatstae	seventeenth (neuter)	flat	ces1672
		rising	ces1673
		falling	ces1674
osumnatstae	eighteenth (neuter)	flat	ces1676
		rising	ces1677
		falling	ces1678
devatenatstae	nineteenth (neuter)	flat	ces1680
		rising	ces1681
		falling	ces1682
dvatsatae	twentieth (neuter)	flat	ces1684
		rising	ces1685
		falling	ces1686
trhisatae	thirtieth (neuter)	flat	ces1688
		rising	ces1689
		falling	ces1690

Czech audio (Sheet 38 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
chtyrhitsatae	fortieth (neuter)	flat	ces1692
		rising	ces1693
		falling	ces1694
padesatae	fiftieth (neuter)	flat	ces1696
		rising	ces1697
		falling	ces1698
shedesatae	sixtieth (neuter)	flat	ces1700
		rising	ces1701
		falling	ces1702
sedumdesatae	seventieth (neuter)	flat	ces1704
		rising	ces1705
		falling	ces1706
osumdesatae	eightieth (neuter)	flat	ces1708
		rising	ces1709
		falling	ces1710
devadesatae	ninetieth (neuter)	flat	ces1712
		rising	ces1713
		falling	ces1714
stae	hundredth (neuter)	flat	ces1716
		rising	ces1717
		falling	ces1718
tiseetsae	thousandth (neuter)	flat	ces1720
		rising	ces1721
		falling	ces1722

Czech audio (Sheet 39 of 39)

Czech phrase or English equivalent	English	Phrase intonation	File name
miliontae	millionth (neuter)	flat	ces1724
		rising	ces1725
		falling	ces1726
miliardtae	billionth (neuter)	flat	ces1728
		rising	ces1729
		falling	ces1730

English audio files

Note 1: Use audio file names eng508-eng610 for the multilanguage strings functionality. Recording of this audio is optional and the content of the recording can be any word. This audio is required when the string functionality is used.

Note 2: Record audio file names eng1200-eng1486 if the user provisions audio for this particular occurrence.

English audio (Sheet 1 of 22)

English phrase	Phrase intonation	File name
zero	flat	eng0
	rising	eng1
	falling	eng2
o	flat	eng4
	rising	eng5
	falling	eng6
one	flat	eng8
	rising	eng9
	falling	eng10
two	flat	eng12
	rising	eng13
	falling	eng14
three	flat	eng16
	rising	eng17
	falling	eng18
four	flat	eng20
	rising	eng21
	falling	eng22

English audio (Sheet 2 of 22)

English phrase	Phrase intonation	File name
five	flat	eng24
	rising	eng25
	falling	eng26
six	flat	eng28
	rising	eng29
	falling	eng30
seven	flat	eng32
	rising	eng33
	falling	eng34
eight	flat	eng36
	rising	eng37
	falling	eng38
nine	flat	eng40
	rising	eng41
	falling	eng42
ten	flat	eng56
	rising	eng57
	falling	eng58
eleven	flat	eng60
	rising	eng61
	falling	eng62
twelve	flat	eng64
	rising	eng65
	falling	eng66
thirteen	flat	eng68
	rising	eng69
	falling	eng70

English audio (Sheet 3 of 22)

English phrase	Phrase intonation	File name
fourteen	flat	eng72
	rising	eng73
	falling	eng74
fifteen	flat	eng76
	rising	eng77
	falling	eng78
sixteen	flat	eng80
	rising	eng81
	falling	eng82
seventeen	flat	eng84
	rising	eng85
	falling	eng86
eighteen	flat	eng88
	rising	eng89
	falling	eng90
nineteen	flat	eng92
	rising	eng93
	falling	eng94
twenty	flat	eng96
	rising	eng97
	falling	eng98
thirty	flat	eng100
	rising	eng101
	falling	eng102
forty	flat	eng104
	rising	eng105
	falling	eng106

English audio (Sheet 4 of 22)

English phrase	Phrase intonation	File name
fifty	flat	eng108
	rising	eng109
	falling	eng110
sixty	flat	eng112
	rising	eng113
	falling	eng114
seventy	flat	eng116
	rising	eng117
	falling	eng118
eighty	flat	eng120
	rising	eng121
	falling	eng122
ninety	flat	eng124
	rising	eng125
	falling	eng126
hundred	flat	eng44
	rising	eng45
	falling	eng46
one-hundred	flat	eng132
	rising	eng133
	falling	eng134
two-hundred	flat	eng136
	rising	eng137
	falling	eng138
three-hundred	flat	eng140
	rising	eng141
	falling	eng142

English audio (Sheet 5 of 22)

English phrase	Phrase intonation	File name
four-hundred	flat	eng144
	rising	eng145
	falling	eng146
five-hundred	flat	eng148
	rising	eng149
	falling	eng150
six-hundred	flat	eng152
	rising	eng153
	falling	eng154
seven-hundred	flat	eng156
	rising	eng157
	falling	eng158
eight-hundred	flat	eng160
	rising	eng161
	falling	eng162
nine-hundred	flat	eng164
	rising	eng165
	falling	eng166
thousand	flat	eng496
	rising	eng497
	falling	eng498
million	flat	eng500
	rising	eng501
	falling	eng502
billion	flat	eng504
	rising	eng505
	falling	eng506

English audio (Sheet 6 of 22)

English phrase	Phrase intonation	File name
a	flat	eng508
	rising	eng509
	falling	eng510
b	flat	eng512
	rising	eng513
	falling	eng514
c	flat	eng516
	rising	eng517
	falling	eng518
d	flat	eng520
	rising	eng521
	falling	eng522
e	flat	eng524
	rising	eng525
	falling	eng526
f	flat	eng528
	rising	eng529
	falling	eng530
g	flat	eng532
	rising	eng533
	falling	eng534
h	flat	eng536
	rising	eng537
	falling	eng538
i	flat	eng540
	rising	eng541
	falling	eng542

English audio (Sheet 7 of 22)

English phrase	Phrase intonation	File name
j	flat	eng544
	rising	eng545
	falling	eng546
k	flat	eng548
	rising	eng549
	falling	eng550
l	flat	eng552
	rising	eng553
	falling	eng554
m	flat	eng556
	rising	eng557
	falling	eng558
n	flat	eng560
	rising	eng561
	falling	eng562
o	flat	eng564
	rising	eng565
	falling	eng566
p	flat	eng568
	rising	eng569
	falling	eng570
q	flat	eng572
	rising	eng573
	falling	eng574
r	flat	eng576
	rising	eng577
	falling	eng578

English audio (Sheet 8 of 22)

English phrase	Phrase intonation	File name
s	flat	eng580
	rising	eng581
	falling	eng582
t	flat	eng584
	rising	eng585
	falling	eng586
u	flat	eng588
	rising	eng589
	falling	eng590
v	flat	eng592
	rising	eng593
	falling	eng594
w	flat	eng596
	rising	eng597
	falling	eng598
x	flat	eng600
	rising	eng601
	falling	eng602
y	flat	eng604
	rising	eng605
	falling	eng606
z	flat	eng608
	rising	eng609
	falling	eng610
negative	flat	eng616
	rising	eng617
	falling	eng618

English audio (Sheet 9 of 22)

English phrase	Phrase intonation	File name
and	flat	eng620
	rising	eng621
	falling	eng622
hour	flat	eng624
	rising	eng625
	falling	eng626
hours	flat	eng628
	rising	eng629
	falling	eng630
minute	flat	eng632
	rising	eng633
	falling	eng634
minutes	flat	eng636
	rising	eng637
	falling	eng638
second	flat	eng640
	rising	eng641
	falling	eng642
seconds	flat	eng644
	rising	eng645
	falling	eng646
January	flat	eng648
	rising	eng649
	falling	eng650
February	flat	eng652
	rising	eng653
	falling	eng654

English audio (Sheet 10 of 22)

English phrase	Phrase intonation	File name
March	flat	eng656
	rising	eng657
	falling	eng658
April	flat	eng660
	rising	eng661
	falling	eng662
May	flat	eng664
	rising	eng665
	falling	eng666
June	flat	eng668
	rising	eng669
	falling	eng670
July	flat	eng672
	rising	eng673
	falling	eng674
August	flat	eng676
	rising	eng677
	falling	eng678
September	flat	eng680
	rising	eng681
	falling	eng682
October	flat	eng684
	rising	eng685
	falling	eng686
November	flat	eng688
	rising	eng689
	falling	eng690

English audio (Sheet 11 of 22)

English phrase	Phrase intonation	File name
December	flat	eng692
	rising	eng693
	falling	eng694
Sunday	flat	eng696
	rising	eng697
	falling	eng698
Monday	flat	eng700
	rising	eng701
	falling	eng702
Tuesday	flat	eng704
	rising	eng705
	falling	eng706
Wednesday	flat	eng708
	rising	eng709
	falling	eng710
Thursday	flat	eng712
	rising	eng713
	falling	eng714
Friday	flat	eng716
	rising	eng717
	falling	eng718
Saturday	flat	eng720
	rising	eng721
	falling	eng722
first (ordinal number)	flat	eng728
	rising	eng729
	falling	eng730

English audio (Sheet 12 of 22)

English phrase	Phrase intonation	File name
second	flat	eng732
	rising	eng733
	falling	eng734
third	flat	eng736
	rising	eng737
	falling	eng738
fourth	flat	eng740
	rising	eng741
	falling	eng742
fifth	flat	eng744
	rising	eng745
	falling	eng746
sixth	flat	eng748
	rising	eng749
	falling	eng750
seventh	flat	eng752
	rising	eng753
	falling	eng754
eighth	flat	eng756
	rising	eng757
	falling	eng758
ninth	flat	eng760
	rising	eng761
	falling	eng762
tenth	flat	eng764
	rising	eng765
	falling	eng766

English audio (Sheet 13 of 22)

English phrase	Phrase intonation	File name
eleventh	flat	eng768
	rising	eng769
	falling	eng770
twelfth	flat	eng772
	rising	eng773
	falling	eng774
thirteenth	flat	eng776
	rising	eng777
	falling	eng778
fourteenth	flat	eng780
	rising	eng781
	falling	eng782
fifteenth	flat	eng784
	rising	eng785
	falling	eng786
sixteenth	flat	eng788
	rising	eng789
	falling	eng790
seventeenth	flat	eng792
	rising	eng793
	falling	eng794
eighteenth	flat	eng796
	rising	eng797
	falling	eng798
nineteenth	flat	eng800
	rising	eng801
	falling	eng802

English audio (Sheet 14 of 22)

English phrase	Phrase intonation	File name
twentieth	flat	eng804
	rising	eng805
	falling	eng806
thirtieth	flat	eng808
	rising	eng809
	falling	eng810
fortieth	flat	eng812
	rising	eng813
	falling	eng814
fiftieth	flat	eng816
	rising	eng817
	falling	eng818
sixtieth	flat	eng820
	rising	eng821
	falling	eng822
seventieth	flat	eng824
	rising	eng825
	falling	eng826
eightieth	flat	eng828
	rising	eng829
	falling	eng830
ninetieth	flat	eng832
	rising	eng833
	falling	eng834
one-hundredth	flat	eng836
	rising	eng837
	falling	eng838

English audio (Sheet 15 of 22)

English phrase	Phrase intonation	File name
two-hundredth	flat	eng840
	rising	eng841
	falling	eng842
three-hundredth	flat	eng844
	rising	eng845
	falling	eng846
four-hundredth	flat	eng848
	rising	eng849
	falling	eng850
five-hundredth	flat	eng852
	rising	eng853
	falling	eng854
six-hundredth	flat	eng856
	rising	eng857
	falling	eng858
seven-hundredth	flat	eng860
	rising	eng861
	falling	eng862
eight-hundredth	flat	eng864
	rising	eng865
	falling	eng866
nine-hundredth	flat	eng868
	rising	eng869
	falling	eng870
thousandth	flat	eng872
	rising	eng873
	falling	eng874

English audio (Sheet 16 of 22)

English phrase	Phrase intonation	File name
millionth	flat	eng880
	rising	eng881
	falling	eng882
billionth	flat	eng888
	rising	eng889
	falling	eng890
pound (#)	flat	eng896
	rising	eng897
	falling	eng898
star (*)	flat	eng900
	rising	eng901
	falling	eng902
a.m.	flat	eng908
	rising	eng909
	falling	eng910
p.m.	flat	eng912
	rising	eng913
	falling	eng914
dollar (US)	flat	eng1200
	rising	eng1201
	falling	eng1202
dollars (US)	flat	eng1204
	rising	eng1205
	falling	eng1206
cent (US)	flat	eng1208
	rising	eng1209
	falling	eng1210

English audio (Sheet 17 of 22)

English phrase	Phrase intonation	File name
cents (US)	flat	eng1212
	rising	eng1213
	falling	eng1214
mark (German)	flat	eng1216
	rising	eng1217
	falling	eng1218
marks (German)	flat	eng1220
	rising	eng1221
	falling	eng1222
pfennig (German)	flat	eng1224
	rising	eng1225
	falling	eng1226
pfennigs (German)	flat	eng1228
	rising	eng1229
	falling	eng1230
yen (Japan)	flat	eng1232
	rising	eng1233
	falling	eng1234
lira (Italy)	flat	eng1240
	rising	eng1241
	falling	eng1242
guilder (Netherlands)	flat	eng1248
	rising	eng1249
	falling	eng1250
guilders (Netherlands)	flat	eng1252
	rising	eng1253
	falling	eng1254

English audio (Sheet 18 of 22)

English phrase	Phrase intonation	File name
cent	flat	eng1256
(Netherlands)	rising	eng1257
	falling	eng1258
cents	flat	eng1260
(Netherlands)	rising	eng1261
	falling	eng1262
pound	flat	eng1264
(British)	rising	eng1265
	falling	eng1266
pence	flat	eng1276
(British)	rising	eng1277
	falling	eng1278
euro	flat	eng1280
	rising	eng1281
	falling	eng1282
euros	flat	eng1284
	rising	eng1285
	falling	eng1286
eurocent	flat	eng1288
	rising	eng1289
	falling	eng1290
eurocents	flat	eng1292
	rising	eng1293
	falling	eng1294
franc	flat	eng1296
(France)	rising	eng1297
	falling	eng1298

English audio (Sheet 19 of 22)

English phrase	Phrase intonation	File name
francs (France)	flat	eng1300
	rising	eng1301
	falling	eng1302
centime (France)	flat	eng1308
	rising	eng1309
	falling	eng1310
peseta (Spain)	flat	eng1312
	rising	eng1313
	falling	eng1314
pesetas (Spain)	flat	eng1316
	rising	eng1317
	falling	eng1318
peso (Philippines)	flat	eng1328
	rising	eng1329
	falling	eng1330
centavo (Philippines)	flat	eng1336
	rising	eng1337
	falling	eng1338
centavos (Philippines)	flat	eng1340
	rising	eng1341
	falling	eng1342
ringgit (Malaysia)	flat	eng1344
	rising	eng1345
	falling	eng1346
sen (Malaysia)	flat	eng1352
	rising	eng1353
	falling	eng1354

English audio (Sheet 20 of 22)

English phrase	Phrase intonation	File name
baht	flat	eng1360
(Thailand)	rising	eng1361
	falling	eng1362
satang	flat	eng1368
(Thailand)	rising	eng1369
	falling	eng1370
won	flat	eng1376
(Korea)	rising	eng1377
	falling	eng1378
franc	flat	eng1384
(Belgium)	rising	eng1385
	falling	eng1386
francs	flat	eng1388
(Belgium)	rising	eng1389
	falling	eng1390
centime	flat	eng1392
(Belgium)	rising	eng1393
	falling	eng1394
dollar	flat	eng1400
(Canada)	rising	eng1401
	falling	eng1402
dollars	flat	eng1404
(Canada)	rising	eng1405
	falling	eng1406
cent	flat	eng1408
(Canada)	rising	eng1409
	falling	eng1410

English audio (Sheet 21 of 22)

English phrase	Phrase intonation	File name
cents	flat	eng1412
(Canada)	rising	eng1413
	falling	eng1414
dollar	flat	eng1416
(Hong Kong)	rising	eng1417
	falling	eng1418
dollars	flat	eng1420
(Hong Kong)	rising	eng1421
	falling	eng1422
cent	flat	eng1424
(Hong Kong)	rising	eng1425
	falling	eng1426
cents	flat	eng1428
(Hong Kong)	rising	eng1429
	falling	eng1430
gok	flat	eng1488
(Hong Kong)	rising	eng1489
	falling	eng1490
goks	flat	eng1492
(Hong Kong)	rising	eng1493
	falling	eng1494
escudo	flat	eng1432
(Portugal)	rising	eng1433
	falling	eng1434
escudos	flat	eng1436
(Portugal)	rising	eng1437
	falling	eng1438

English audio (Sheet 22 of 22)

English phrase	Phrase intonation	File name
centavo	flat	eng1440
(Portugal)	rising	eng1441
	falling	eng1442
centavos	flat	eng1444
(Portugal)	rising	eng1445
	falling	eng1446
yuan renminbi (China)	flat	eng1448
	rising	eng1449
	falling	eng1450
jiao	flat	eng1456
(China)	rising	eng1457
	falling	eng1458
fen	flat	eng1464
(China)	rising	eng1465
	falling	eng1466
pound	flat	eng1472
(Ireland)	rising	eng1473
	falling	eng1474
pounds	flat	eng1476
(Ireland)	rising	eng1477
	falling	eng1478
pence	flat	eng1484
(Ireland)	rising	eng1485
	falling	eng1486

French audio files

Note 1: Audio file names fra508–fra610 are optional. Only record the files when the user provisions the string functionality on the system.

Note 2: Record audio file names fra1200–fra1476 if you provision currency on the system.

Note 3: French does not have a 12-hour format or an equivalent to the English a.m. and p.m. The flexibility of the MS 2000 Series software allows the user to provision 12-hour time on the system. Audio file names fra908–fra1526 are required if you provision 12-hour format.

French audio (Sheet 1 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
ze'ro	zero	flat	fra0
		rising	fra1
		falling	fra2
un	one (masculine)	flat	fra8
		rising	fra9
		falling	fra10
une	one (feminine)	flat	fra1504
		rising	fra1505
		falling	fra1506
"et un"	"and one" (masculine)	flat	fra1508
		rising	fra1509
		falling	fra1510
"et une"	"and one" (feminine)	flat	fra1512
		rising	fra1513
		falling	fra1514

French audio (Sheet 2 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
deux	two	flat	fra12
		rising	fra13
		falling	fra14
trois	three	flat	fra16
		rising	fra17
		falling	fra18
quatre	four	flat	fra20
		rising	fra21
		falling	fra22
cinq	five	flat	fra24
		rising	fra25
		falling	fra26
six	six	flat	fra28
		rising	fra29
		falling	fra30
sept	seven	flat	fra32
		rising	fra33
		falling	fra34
huit	eight	flat	fra36
		rising	fra37
		falling	fra38
neuf	nine	flat	fra40
		rising	fra41
		falling	fra42
dix	ten	flat	fra56
		rising	fra57
		falling	fra58

French audio (Sheet 3 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
onze	eleven	flat	fra60
		rising	fra61
		falling	fra62
douze	twelve	flat	fra64
		rising	fra65
		falling	fra66
treize	thirteen	flat	fra68
		rising	fra69
		falling	fra70
quatorze	fourteen	flat	fra72
		rising	fra73
		falling	fra74
quinze	fifteen	flat	fra76
		rising	fra77
		falling	fra78
seize	sixteen	flat	fra80
		rising	fra81
		falling	fra82
dix-sept	seventeen	flat	fra84
		rising	fra85
		falling	fra86
dix-huit	eighteen	flat	fra88
		rising	fra89
		falling	fra90
dix-neuf	nineteen	flat	fra92
		rising	fra93
		falling	fra94

French audio (Sheet 4 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
vingt	twenty	flat	fra96
		rising	fra97
		falling	fra98
trente	thirty	flat	fra100
		rising	fra101
		falling	fra102
quarante	forty	flat	fra104
		rising	fra105
		falling	fra106
cinquante	fifty	flat	fra108
		rising	fra109
		falling	fra110
soixante	sixty	flat	fra112
		rising	fra113
		falling	fra114
soixante-dix	seventy	flat	fra116
		rising	fra117
		falling	fra118
quatre-vingts	eighty	flat	fra120
		rising	fra121
		falling	fra122
quatre-vingt-dix	ninety	flat	fra124
		rising	fra125
		falling	fra126
cent	one-hundred	flat	fra132
		rising	fra133
		falling	fra134

French audio (Sheet 5 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
deux cents	two-hundred	flat	fra136
		rising	fra137
		falling	fra138
trois cents	three-hundred	flat	fra140
		rising	fra141
		falling	fra142
quatre cents	four-hundred	flat	fra144
		rising	fra145
		falling	fra146
cinq cents	five-hundred	flat	fra148
		rising	fra149
		falling	fra150
six cents	six-hundred	flat	fra152
		rising	fra153
		falling	fra154
sept cents	seven-hundred	flat	fra156
		rising	fra157
		falling	fra158
huit cents	eight-hundred	flat	fra160
		rising	fra161
		falling	fra162
neuf cents	nine-hundred	flat	fra164
		rising	fra165
		falling	fra166
mille	[one] thousand	flat	fra496
		rising	fra497
		falling	fra498

French audio (Sheet 6 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
deux mille	two-thousand	flat	fra176
		rising	fra177
		falling	fra178
trois mille	three-thousand	flat	fra180
		rising	fra181
		falling	fra182
quarte mille	four-thousand	flat	fra184
		rising	fra185
		falling	fra186
cinq mille	five-thousand	flat	fra188
		rising	fra189
		falling	fra190
six mille	six-thousand	flat	fra192
		rising	fra193
		falling	fra194
sept mille	seven-thousand	flat	fra196
		rising	fra197
		falling	fra198
huit mille	eight-thousand	flat	fra200
		rising	fra201
		falling	fra202
neuf mille	nine-thousand	flat	fra204
		rising	fra205
		falling	fra206
million	million	flat	fra500
		rising	fra501
		falling	fra502

French audio (Sheet 7 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
millions	millions	flat	fra1500
		rising	fra1501
		falling	fra1502
milliard	billion	flat	fra504
		rising	fra505
		falling	fra506
optional	a	flat	fra508
		rising	fra509
		falling	fra510
optional	b	flat	fra512
		rising	fra513
		falling	fra514
optional	c	flat	fra516
		rising	fra517
		falling	fra518
optional	d	flat	fra520
		rising	fra521
		falling	fra522
optional	e	flat	fra524
		rising	fra525
		falling	fra526
optional	f	flat	fra528
		rising	fra529
		falling	fra530
optional	g	flat	fra532
		rising	fra533
		falling	fra534

French audio (Sheet 8 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
optional	h	flat	fra536
		rising	fra537
		falling	fra538
optional	i	flat	fra540
		rising	fra541
		falling	fra542
optional	j	flat	fra544
		rising	fra545
		falling	fra546
optional	k	flat	fra548
		rising	fra549
		falling	fra550
optional	l	flat	fra552
		rising	fra553
		falling	fra554
optional	m	flat	fra556
		rising	fra557
		falling	fra558
optional	n	flat	fra560
		rising	fra561
		falling	fra562
optional	o	flat	fra564
		rising	fra565
		falling	fra566
optional	p	flat	fra568
		rising	fra569
		falling	fra570

French audio (Sheet 9 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
optional	q	flat	fra572
		rising	fra573
		falling	fra574
optional	r	flat	fra576
		rising	fra577
		falling	fra578
optional	s	flat	fra580
		rising	fra581
		falling	fra582
optional	t	flat	fra584
		rising	fra585
		falling	fra586
optional	u	flat	fra588
		rising	fra589
		falling	fra590
optional	v	flat	fra592
		rising	fra593
		falling	fra594
optional	w	flat	fra596
		rising	fra597
		falling	fra598
optional	x	flat	fra600
		rising	fra601
		falling	fra602
optional	y	flat	fra604
		rising	fra605
		falling	fra606

French audio (Sheet 10 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
optional	z	flat	fra608
		rising	fra609
		falling	fra610
moins	negative	flat	fra616
		rising	fra617
		falling	fra618
et	and	flat	fra620
		rising	fra621
		falling	fra622
heure	hour	flat	fra624
		rising	fra625
		falling	fra626
heures	hours	flat	fra628
		rising	fra629
		falling	fra630
minute	minute	flat	fra632
		rising	fra633
		falling	fra634
minutes	minutes	flat	fra636
		rising	fra637
		falling	fra638
seconde	second	flat	fra640
		rising	fra641
		falling	fra642
secondes	seconds	flat	fra644
		rising	fra645
		falling	fra646

French audio (Sheet 11 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
janvier	January	flat	fra648
		rising	fra649
		falling	fra650
fe'vrier	February	flat	fra652
		rising	fra653
		falling	fra654
mars	March	flat	fra656
		rising	fra657
		falling	fra658
avril	April	flat	fra660
		rising	fra661
		falling	fra662
mai	May	flat	fra664
		rising	fra665
		falling	fra666
juin	June	flat	fra668
		rising	fra669
		falling	fra670
juillet	July	flat	fra672
		rising	fra673
		falling	fra674
aou^t	August	flat	fra676
		rising	fra677
		falling	fra678
septembre	September	flat	fra680
		rising	fra681
		falling	fra682

French audio (Sheet 12 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
octobre	October	flat	fra684
		rising	fra685
		falling	fra686
novembre	November	flat	fra688
		rising	fra689
		falling	fra690
de'cembre	December	flat	fra692
		rising	fra693
		falling	fra694
dimanche	Sunday	flat	fra696
		rising	fra697
		falling	fra698
lundi	Monday	flat	fra700
		rising	fra701
		falling	fra702
mardi	Tuesday	flat	fra704
		rising	fra705
		falling	fra706
mercredi	Wednesday	flat	fra708
		rising	fra709
		falling	fra710
jeudi	Thursday	flat	fra712
		rising	fra713
		falling	fra714
vendredi	Friday	flat	fra716
		rising	fra717
		falling	fra718

French audio (Sheet 13 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
samedi	Saturday	flat	fra720
		rising	fra721
		falling	fra722
premier	first (masc)	flat	fra728
		rising	fra729
		falling	fra730
premiere	first (feminine)	flat	fra1516
		rising	fra1517
		falling	fra1518
fraxieme	second	flat	fra732
		rising	fra733
		falling	fra734
troisieme	third	flat	fra736
		rising	fra737
		falling	fra738
quatrieme	fourth	flat	fra740
		rising	fra741
		falling	fra742
cinquieme	fifth	flat	fra744
		rising	fra745
		falling	fra746
sixieme	sixth	flat	fra748
		rising	fra749
		falling	fra750
septieme	seventh	flat	fra752
		rising	fra753
		falling	fra754

French audio (Sheet 14 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
huitieme	eighth	flat	fra756
		rising	fra757
		falling	fra758
neuvieme	ninth	flat	fra760
		rising	fra761
		falling	fra762
dixieme	tenth	flat	fra764
		rising	fra765
		falling	fra766
onzieme	eleventh	flat	fra768
		rising	fra769
		falling	fra770
douzieme	twelfth	flat	fra772
		rising	fra773
		falling	fra774
treizieme	thirteenth	flat	fra776
		rising	fra777
		falling	fra778
quatorzieme	fourteenth	flat	fra780
		rising	fra781
		falling	fra782
quinzieme	fifteenth	flat	fra784
		rising	fra785
		falling	fra786
seizieme	sixteenth	flat	fra788
		rising	fra789
		falling	fra790

French audio (Sheet 15 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
dix-septieme	seventeenth	flat	fra792
		rising	fra793
		falling	fra794
dix-huitieme	eighteenth	flat	fra796
		rising	fra797
		falling	fra798
dix-neuvieme	nineteenth	flat	fra800
		rising	fra801
		falling	fra802
vingtieme	twentieth	flat	fra804
		rising	fra805
		falling	fra806
trentieme	thirtieth	flat	fra808
		rising	fra809
		falling	fra810
quarantieme	fortieth	flat	fra812
		rising	fra813
		falling	fra814
cinquantieme	fiftieth	flat	fra816
		rising	fra817
		falling	fra818
soixantieme	sixtieth	flat	fra820
		rising	fra821
		falling	fra822
soixante-dixieme	seventieth	flat	fra824
		rising	fra825
		falling	fra826

French audio (Sheet 16 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
quatre-vingtieme	eightieth	flat	fra828
		rising	fra829
		falling	fra830
quatre-vingt-dizieme	ninetieth	flat	fra832
		rising	fra833
		falling	fra834
un centieme	one-hundredth	flat	fra836
		rising	fra837
		falling	fra838
deux centiemes	two-hundredth	flat	fra840
		rising	fra841
		falling	fra842
trois centiemes	three-hundredth	flat	fra844
		rising	fra845
		falling	fra846
quatre centiemes	four-hundredth	flat	fra848
		rising	fra849
		falling	fra850
cinq centiemes	five-hundredth	flat	fra852
		rising	fra853
		falling	fra854
six centiemes	six-hundredth	flat	fra856
		rising	fra857
		falling	fra858
sept centiemes	seven-hundredth	flat	fra860
		rising	fra861
		falling	fra862

French audio (Sheet 17 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
huit centiemes	eight-hundredth	flat	fra864
		rising	fra865
		falling	fra866
neuf centiemes	nine-hundredth	flat	fra868
		rising	fra869
		falling	fra870
millieme	thousandth	flat	fra872
		rising	fra873
		falling	fra874
millionieme	millionth	flat	fra880
		rising	fra881
		falling	fra882
livre	pound sign (#)	flat	fra896
		rising	fra897
		falling	fra898
asterisque	asterisk (*)	flat	fra900
		rising	fra901
		falling	fra902
Dollar	dollar (US)	flat	fra1200
		rising	fra1201
		falling	fra1202
Dollars	dollars (US)	flat	fra1204
		rising	fra1205
		falling	fra1206
Cent	cent (US)	flat	fra1208
		rising	fra1209
		falling	fra1210

French audio (Sheet 18 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
Cents	cents	flat	fra1212
	(US)	rising	fra1213
		falling	fra1214
Mark	mark	flat	fra1216
	(Germany)	rising	fra1217
		falling	fra1218
Marks	marks	flat	fra1220
	(Germany)	rising	fra1221
		falling	fra1222
Pfennig	pfennig	flat	fra1224
	(Germany)	rising	fra1225
		falling	fra1226
Pfennigs	pfennigs	flat	fra1228
	(Germany)	rising	fra1229
		falling	fra1230
Yen	yen	flat	fra1232
	(Japan)	rising	fra1233
		falling	fra1234
Yens	yens	flat	fra1236
	(Japan)	rising	fra1237
		falling	fra1238
Lira	lira	flat	fra1240
	(Italy)	rising	fra1241
		falling	fra1242
Lire	liras	flat	fra1244
	(Italy)	rising	fra1245
		falling	fra1246

French audio (Sheet 19 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
Guilder	guilder (Netherlands)	flat	fra1248
		rising	fra1249
		falling	fra1250
Guilders	guilders (Netherlands)	flat	fra1252
		rising	fra1253
		falling	fra1254
Cent	cent (Netherlands)	flat	fra1256
		rising	fra1257
		falling	fra1258
Cents	cents (Netherlands)	flat	fra1260
		rising	fra1261
		falling	fra1262
Pound	pound (UK)	flat	fra1264
		rising	fra1265
		falling	fra1266
Pounds	pounds (UK)	flat	fra1268
		rising	fra1269
		falling	fra1270
penny	penny (UK)	flat	fra1272
		rising	fra1273
		falling	fra1274
pence	pence (UK)	flat	fra1276
		rising	fra1277
		falling	fra1278
euro	euro (Euro)	flat	fra1280
		rising	fra1281
		falling	fra1282

French audio (Sheet 20 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
euros	euros	flat	fra1284
	(Euro)	rising	fra1285
		falling	fra1286
eurocent	eurocent	flat	fra1288
	(Euro)	rising	fra1289
		falling	fra1290
eurocents	eurocents	flat	fra1292
	(Euro)	rising	fra1293
		falling	fra1294
franc	franc	flat	fra1296
	(France)	rising	fra1297
		falling	fra1298
francs	francs	flat	fra1300
	(France)	rising	fra1301
		falling	fra1302
centime	centime	flat	fra1304
	(France)	rising	fra1305
		falling	fra1306
centimes	centimes	flat	fra1308
	(France)	rising	fra1309
		falling	fra1310
peseta	peseta	flat	fra1312
	(Spain)	rising	fra1313
		falling	fra1314
pesetas	pesetas	flat	fra1316
	(Spain)	rising	fra1317
		falling	fra1318

French audio (Sheet 21 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
peso	peso (Philippines)	flat	fra1328
		rising	fra1329
		falling	fra1330
pesos	pesos (Philippines)	flat	fra1332
		rising	fra1333
		falling	fra1334
centavo	centavo (Philippines)	flat	fra1336
		rising	fra1337
		falling	fra1338
centavos	centavos (Philippines)	flat	fra1340
		rising	fra1341
		falling	fra1342
ringgit	ringgit (Malaysia)	flat	fra1344
		rising	fra1345
		falling	fra1346
ringgits	ringgits (Malaysia)	flat	fra1348
		rising	fra1349
		falling	fra1350
sen	sen (Malaysia)	flat	fra1352
		rising	fra1353
		falling	fra1354
sens	sens (Malaysia)	flat	fra1356
		rising	fra1357
		falling	fra1358
baht	baht (Thailand)	flat	fra1360
		rising	fra1361
		falling	fra1362

French audio (Sheet 22 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
bahts	bahts (Thailand)	flat	fra1364
		rising	fra1365
		falling	fra1366
satang	satang (Thailand)	flat	fra1368
		rising	fra1369
		falling	fra1370
satangs	satangs (Thailand)	flat	fra1372
		rising	fra1373
		falling	fra1374
won	won (Korea)	flat	fra1376
		rising	fra1377
		falling	fra1378
wons	wons (Korea)	flat	fra1380
		rising	fra1381
		falling	fra1382
franc	franc (Belgium)	flat	fra1384
		rising	fra1385
		falling	fra1386
francs	francs (Belgium)	flat	fra1388
		rising	fra1389
		falling	fra1390
centime	centime (Belgium)	flat	fra1392
		rising	fra1393
		falling	fra1394
centimes	centimes (Belgium)	flat	fra1396
		rising	fra1397
		falling	fra1398

French audio (Sheet 23 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar (Canada)	flat	fra1400
		rising	fra1401
		falling	fra1402
dollars	dollars (Canada)	flat	fra1404
		rising	fra1405
		falling	fra1406
cent	cent (Canada)	flat	fra1408
		rising	fra1409
		falling	fra1410
cents	cents (Canada)	flat	fra1412
		rising	fra1413
		falling	fra1414
dollar	dollar (Hong Kong)	flat	fra1416
		rising	fra1417
		falling	fra1418
dollars	dollars (Hong Kong)	flat	fra1420
		rising	fra1421
		falling	fra1422
cent	cent (Hong Kong)	flat	fra1424
		rising	fra1425
		falling	fra1426
cents	cents (Hong Kong)	flat	fra1428
		rising	fra1429
		falling	fra1430
gok	gok (Hong Kong)	flat	fra1488
		rising	fra1489
		falling	fra1490

French audio (Sheet 24 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
goks	goks (Hong Kong)	flat	fra1492
		rising	fra1493
		falling	fra1494
escudo	escudo (Portugal)	flat	fra1432
		rising	fra1433
		falling	fra1434
escudos	escudos (Portugal)	flat	fra1436
		rising	fra1437
		falling	fra1438
centavo	centavo (Portugal)	flat	fra1440
		rising	fra1441
		falling	fra1442
centavos	centavos (Portugal)	flat	fra1444
		rising	fra1445
		falling	fra1446
yuan	yuan (China)	flat	fra1448
		rising	fra1449
		falling	fra1450
yuans	yuans (China)	flat	fra1452
		rising	fra1453
		falling	fra1454
jiao	jiao (China)	flat	fra1456
		rising	fra1457
		falling	fra1458
jiaos	jiaos (China)	flat	fra1460
		rising	fra1461
		falling	fra1462

French audio (Sheet 25 of 25)

French phrase or English equivalent	English	Phrase intonation	File name
fen	fen (China)	flat	fra1464
		rising	fra1465
		falling	fra1466
fens	fens (China)	flat	fra1468
		rising	fra1469
		falling	fra1470
pound	pound (Ireland)	flat	fra1472
		rising	fra1473
		falling	fra1474
pounds	pounds (Ireland)	flat	fra1476
		rising	fra1477
		falling	fra1478
penny	penny (Ireland)	flat	fra1480
		rising	fra1481
		falling	fra1482
pence	pence (Ireland)	flat	fra1484
		rising	fra1485
		falling	fra1486
a.m.	a.m.	flat	fra908
		rising	fra909
		falling	fra910
p.m.	p.m.	flat	fra912
		rising	fra913
		falling	fra914
midnight	midnight	flat	fra1524
		rising	fra1525
		falling	fra1526

German audio files

Note 1: Audio file names deu508–deu610 are optional. Only record the files if the user provisions the string functionality on the system.

Note 2: Only record audio file names deu1200–deu1214 and deu1232–deu1278 if the user provisions currency on the system.

German audio (Sheet 1 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
null	zero	flat	deu0
		rising	deu1
		falling	deu2
eins	one (neutral - counting)	flat	deu8
		rising	deu9
		falling	deu10
zwei	two	flat	deu12
		rising	deu13
		falling	deu14
drei	three	flat	deu16
		rising	deu17
		falling	deu18
vier	four	flat	deu20
		rising	deu21
		falling	deu22
fuenf	five	flat	deu24
		rising	deu25
		falling	deu26
sechs	six	flat	deu28
		rising	deu29
		falling	deu30

German audio (Sheet 2 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
sieben	seven	flat	deu32
		rising	deu33
		falling	deu34
acht	eight	flat	deu36
		rising	deu37
		falling	deu38
neun	nine	flat	deu40
		rising	deu41
		falling	deu42
zehn	ten	flat	deu56
		rising	deu57
		falling	deu58
elf	eleven	flat	deu60
		rising	deu61
		falling	deu62
zwoelf	twelve	flat	deu64
		rising	deu65
		falling	deu66
dreizehn	thirteen	flat	deu68
		rising	deu69
		falling	deu70
vierzehn	fourteen	flat	deu72
		rising	deu73
		falling	deu74
fuenfzehn	fifteen	flat	deu76
		rising	deu77
		falling	deu78

German audio (Sheet 3 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
sechszehn	sixteen	flat	deu80
		rising	deu81
		falling	deu82
siebzehn	seventeen	flat	deu84
		rising	deu85
		falling	deu86
achtzehn	eighteen	flat	deu88
		rising	deu89
		falling	deu90
neunzehn	nineteen	flat	deu92
		rising	deu93
		falling	deu94
zwanzig	twenty	flat	deu96
		rising	deu97
		falling	deu98
dreizig	thirty	flat	deu100
		rising	deu101
		falling	deu102
vierzig	forty	flat	deu104
		rising	deu105
		falling	deu106
fuenfzig	fifty	flat	deu108
		rising	deu109
		falling	deu110
sechzig	sixty	flat	deu112
		rising	deu113
		falling	deu114

German audio (Sheet 4 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
siebzig	seventy	flat	deu116
		rising	deu117
		falling	deu118
achtzig	eighty	flat	deu120
		rising	deu121
		falling	deu122
neunzig	ninety	flat	deu124
		rising	deu125
		falling	deu126
einhundert	one-hundred	flat	deu132
		rising	deu133
		falling	deu134
zweihundert	two-hundred	flat	deu136
		rising	deu137
		falling	deu138
dreihundert	three-hundred	flat	deu140
		rising	deu141
		falling	deu142
vierhundert	four-hundred	flat	deu144
		rising	deu145
		falling	deu146
fuenfhundert	five-hundred	flat	deu148
		rising	deu149
		falling	deu150
sechshundert	six-hundred	flat	deu152
		rising	deu153
		falling	deu154

German audio (Sheet 5 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
siebenhundert	seven-hundred	flat	deu156
		rising	deu157
		falling	deu158
achthundert	eight-hundred	flat	deu160
		rising	deu161
		falling	deu162
neunhundert	nine-hundred	flat	deu164
		rising	deu165
		falling	deu166
ein	one (masculine)	flat	deu1500
		rising	deu1501
		falling	deu1502
eine	one (masculine)	flat	deu1504
		rising	deu1505
		falling	deu1506
tausend	thousand	flat	deu496
		rising	deu497
		falling	deu498
eintausend	one-thousand	flat	deu172
		rising	deu173
		falling	deu174
zweitausend	two-thousand	flat	deu176
		rising	deu177
		falling	deu178
dreitausend	three-thousand	flat	deu180
		rising	deu181
		falling	deu182

German audio (Sheet 6 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
viertausend	four-thousand	flat	deu184
		rising	deu185
		falling	deu186
fuenftausend	five-thousand	flat	deu188
		rising	deu189
		falling	deu190
sechstausend	six-thousand	flat	deu192
		rising	deu193
		falling	deu194
siebentausend	seven-thousand	flat	deu196
		rising	deu197
		falling	deu198
achttausend	eight-thousand	flat	deu200
		rising	deu201
		falling	deu202
neuntausend	nine-thousand	flat	deu204
		rising	deu205
		falling	deu206
Million	million (singular)	flat	deu500
		rising	deu501
		falling	deu502
Millionen	million (plural)	flat	deu1544
		rising	deu1545
		falling	deu1546
Billion	billion	flat	deu504
		rising	deu505
		falling	deu506

German audio (Sheet 7 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
"ein und"	"1 and"	flat	deu1508
		rising	deu1509
		falling	deu1510
"zwei und"	"2 and"	flat	deu1512
		rising	deu1513
		falling	deu1514
"drei und"	"3 and"	flat	deu1516
		rising	deu1517
		falling	deu1518
"vier und"	"4 and"	flat	deu1520
		rising	deu1521
		falling	deu1522
"fuenf und"	"5 and"	flat	deu1524
		rising	deu1525
		falling	deu1526
"sechs und"	"6 and"	flat	deu1528
		rising	deu1529
		falling	deu1530
"sieben und"	"7 and"	flat	deu1532
		rising	deu1533
		falling	deu1534
"acht und"	"8 and"	flat	deu1536
		rising	deu1537
		falling	deu1538
"neun und"	"9 and"	flat	deu1540
		rising	deu1541
		falling	deu1542

German audio (Sheet 8 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
optional	a	flat	deu508
		rising	deu509
		falling	deu510
optional	b	flat	deu512
		rising	deu513
		falling	deu514
optional	c	flat	deu516
		rising	deu517
		falling	deu518
optional	d	flat	deu520
		rising	deu521
		falling	deu522
optional	e	flat	deu524
		rising	deu525
		falling	deu526
optional	f	flat	deu528
		rising	deu529
		falling	deu530
optional	g	flat	deu532
		rising	deu533
		falling	deu534
optional	h	flat	deu536
		rising	deu537
		falling	deu538
optional	i	flat	deu540
		rising	deu541
		falling	deu542

German audio (Sheet 9 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
optional	j	flat	its544
		rising	deu545
		falling	deu546
optional	k	flat	deu548
		rising	deu549
		falling	deu550
optional	l	flat	deu552
		rising	deu553
		falling	deu554
optional	m	flat	deu556
		rising	deu557
		falling	deu558
optional	n	flat	deu560
		rising	deu561
		falling	deu562
optional	o	flat	deu564
		rising	deu565
		falling	deu566
optional	p	flat	deu568
		rising	deu569
		falling	deu570
optional	q	flat	deu572
		rising	deu573
		falling	deu574
optional	r	flat	deu576
		rising	deu577
		falling	deu578

German audio (Sheet 10 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
optional	s	flat	deu580
		rising	deu581
		falling	deu582
optional	t	flat	deu584
		rising	deu585
		falling	deu586
optional	u	flat	deu588
		rising	deu589
		falling	deu590
optional	v	flat	deu592
		rising	deu593
		falling	deu594
optional	w	flat	deu596
		rising	deu597
		falling	deu598
optional	x	flat	deu600
		rising	deu601
		falling	deu602
optional	y	flat	deu604
		rising	deu605
		falling	deu606
optional	z	flat	deu608
		rising	deu609
		falling	deu610
minus	negative	flat	deu616
		rising	deu617
		falling	deu618

German audio (Sheet 11 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
und	and	flat	deu620
		rising	deu621
		falling	deu622
Stunde	hour	flat	deu624
		rising	deu625
		falling	deu626
Stunden	hours	flat	deu628
		rising	deu629
		falling	deu630
Minute	minute	flat	deu632
		rising	deu633
		falling	deu634
Minuten	minutes	flat	deu636
		rising	deu637
		falling	deu638
Sekunde	second	flat	deu640
		rising	deu641
		falling	deu642
Sekunden	seconds	flat	deu644
		rising	deu645
		falling	deu646
Uhr	clock	flat	deu1584
		rising	deu1585
		falling	deu1586
Null	null	flat	deu1588
		rising	deu1589
		falling	deu1590

German audio (Sheet 12 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Januar	January	flat	deu648
		rising	deu649
		falling	deu650
Februar	February	flat	deu652
		rising	deu653
		falling	deu654
Maerz	March	flat	deu656
		rising	deu657
		falling	deu658
April	April	flat	deu660
		rising	deu661
		falling	deu662
Mai	May	flat	deu664
		rising	deu665
		falling	deu666
Juni	June	flat	deu668
		rising	deu669
		falling	deu670
Juli	July	flat	deu672
		rising	deu673
		falling	deu674
August	August	flat	deu676
		rising	deu677
		falling	deu678
September	September	flat	deu680
		rising	deu681
		falling	deu682

German audio (Sheet 13 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Oktober	October	flat	deu684
		rising	deu685
		falling	deu686
November	November	flat	deu688
		rising	deu689
		falling	deu690
Dezember	December	flat	deu692
		rising	deu693
		falling	deu694
Sonntag	Sunday	flat	deu696
		rising	deu697
		falling	deu698
Montag	Monday	flat	deu700
		rising	deu701
		falling	deu702
Dienstag	Tuesday	flat	deu704
		rising	deu705
		falling	deu706
Mittwoch	Wednesday	flat	deu708
		rising	deu709
		falling	deu710
Donnerstag	Thursday	flat	deu712
		rising	deu713
		falling	deu714
Freitag	Friday	flat	deu716
		rising	deu717
		falling	deu718

German audio (Sheet 14 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Samstag	Saturday	flat	deu720
		rising	deu721
		falling	deu722
erste	first (masc)	flat	deu728
		rising	deu729
		falling	deu730
zweite	second	flat	deu732
		rising	deu733
		falling	deu734
dritte	third	flat	deu736
		rising	deu737
		falling	deu738
vierte	fourth	flat	deu740
		rising	deu741
		falling	deu742
fuenfte	fifth	flat	deu744
		rising	deu745
		falling	deu746
sechste	sixth	flat	deu748
		rising	deu749
		falling	deu750
siebte	seventh	flat	deu752
		rising	deu753
		falling	deu754
achte	eighth	flat	deu756
		rising	deu757
		falling	deu758

German audio (Sheet 15 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
neunte	ninth	flat	deu760
		rising	deu761
		falling	deu762
zehnte	tenth	flat	deu764
		rising	deu765
		falling	deu766
elfte	eleventh	flat	deu768
		rising	deu769
		falling	deu770
zwoelfte	twelfth	flat	deu772
		rising	deu773
		falling	deu774
dreizehnte	thirteenth	flat	deu776
		rising	deu777
		falling	deu778
vierzehnte	fourteenth	flat	deu780
		rising	deu781
		falling	deu782
fuenfzehnt	fifteenth	flat	deu784
		rising	deu785
		falling	deu786
sechszehnte	sixteenth	flat	deu788
		rising	deu789
		falling	deu790
siebzehnte	seventeenth	flat	deu792
		rising	deu793
		falling	deu794

German audio (Sheet 16 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
achtzehnte	eighteenth	flat	deu796
		rising	deu797
		falling	deu798
neunzehnte	nineteenth	flat	deu800
		rising	deu801
		falling	deu802
zwanzigste	twentieth	flat	deu804
		rising	deu805
		falling	deu806
dreissigste	thirtieth	flat	deu808
		rising	deu809
		falling	deu810
vierzigste	fortieth	flat	deu812
		rising	deu813
		falling	deu814
fuenfzigste	fiftieth	flat	deu816
		rising	deu817
		falling	deu818
sechzigste	sixtieth	flat	deu820
		rising	deu821
		falling	deu822
siebzigste	seventieth	flat	deu824
		rising	deu825
		falling	deu826
achtzigste	eightieth	flat	deu828
		rising	deu829
		falling	deu830

German audio (Sheet 17 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
neunzigste	ninetieth	flat	deu832
		rising	deu833
		falling	deu834
einhundertste	one-hundredth	flat	deu836
		rising	deu837
		falling	deu838
zweihundertste	two-hundredth	flat	deu840
		rising	deu841
		falling	deu842
dreihundertste	three-hundredth	flat	deu844
		rising	deu845
		falling	deu846
vierhundertste	four-hundredth	flat	deu848
		rising	deu849
		falling	deu850
fuenfhundertste	five-hundredth	flat	deu852
		rising	deu853
		falling	deu854
sechshundertste	six-hundredth	flat	deu856
		rising	deu857
		falling	deu858
siebenhundertste	seven-hundredth	flat	deu860
		rising	deu861
		falling	deu862
achthundertste	eight-hundredth	flat	deu864
		rising	deu865
		falling	deu866

German audio (Sheet 18 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
neunhundertste	nine-hundredth	flat	deu868
		rising	deu869
		falling	deu870
tausendste	thousandth	flat	deu872
		rising	deu873
		falling	deu874
eintausendste	one-thousandth	flat	deu1548
		rising	deu1549
		falling	deu1550
zweitausendste	two-thousandth	flat	deu1552
		rising	deu1553
		falling	deu1554
dreitausendste	three-thousandth	flat	deu1556
		rising	deu1557
		falling	deu1558
viertausendste	four-thousandth	flat	deu1560
		rising	deu1561
		falling	deu1562
fuenftausendste	five-thousandth	flat	deu1564
		rising	deu1565
		falling	deu1566
sechstausendste	six-thousandth	flat	deu1568
		rising	deu1569
		falling	deu1570
siebentausendste	seven-thousandth	flat	deu1572
		rising	deu1573
		falling	deu1574

German audio (Sheet 19 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
achttausendste	eight-thousandth	flat	deu1576
		rising	deu1577
		falling	deu1578
neuntausendste	nine-thousandth	flat	deu1580
		rising	deu1581
		falling	deu1582
millionste	millionth	flat	deu880
		rising	deu881
		falling	deu882
billionste	billionth	flat	deu888
		rising	deu889
		falling	deu890
Nummer-Zeichen	pound sign (#)	flat	deu896
		rising	deu897
		falling	deu898
Stern	asterisk (*)	flat	deu900
		rising	deu901
		falling	deu902
Dollar	dollar (US)	flat	deu1200
		rising	deu1201
		falling	deu1202
Dollar	dollars (US)	flat	deu1204
		rising	deu1205
		falling	deu1206
Cent	cent (US)	flat	deu1208
		rising	deu1209
		falling	deu1210

German audio (Sheet 20 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Cents	cents	flat	deu1212
	(US)	rising	deu1213
		falling	deu1214
Mark	mark	flat	deu1216
	(Germany)	rising	deu1217
		falling	deu1218
Mark	marks	flat	deu1220
	(Germany)	rising	deu1221
		falling	deu1222
Pfennig	pfennig	flat	deu1224
	(Germany)	rising	deu1225
		falling	deu1226
Pfennige	pfennigs	flat	deu1228
	(Germany)	rising	deu1229
		falling	deu1230
Yen	yen	flat	deu1232
	(Japan)	rising	deu1233
		falling	deu1234
Yens	yens	flat	deu1236
	(Japan)	rising	deu1237
		falling	deu1238
Lira	lira	flat	deu1240
	(Italy)	rising	deu1241
		falling	deu1242
Lire	liras	flat	deu1244
	(Italy)	rising	deu1245
		falling	deu1246

German audio (Sheet 21 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Guilder	guilder (Netherlands)	flat	deu1248
		rising	deu1249
		falling	deu1250
Guilder	guilders (Netherlands)	flat	deu1252
		rising	deu1253
		falling	deu1254
Cent	cent (Netherlands)	flat	deu1256
		rising	deu1257
		falling	deu1258
Cent	cents (Netherlands)	flat	deu1260
		rising	deu1261
		falling	deu1262
Pound	pound (UK)	flat	deu1264
		rising	deu1265
		falling	deu1266
Pound	pounds (UK)	flat	deu1268
		rising	deu1269
		falling	deu1270
penny	penny (UK)	flat	deu1272
		rising	deu1273
		falling	deu1274
pence	pence (UK)	flat	deu1276
		rising	deu1277
		falling	deu1278
euro	euro (Euro)	flat	deu1280
		rising	deu1281
		falling	deu1282

German audio (Sheet 22 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
euros	euros	flat	deu1284
	(Euro)	rising	deu1285
		falling	deu1286
eurocent	eurocent	flat	deu1288
	(Euro)	rising	deu1289
		falling	deu1290
eurocents	eurocents	flat	deu1292
	(Euro)	rising	deu1293
		falling	deu1294
franc	franc	flat	deu1296
	(France)	rising	deu1297
		falling	deu1298
francs	francs	flat	deu1300
	(France)	rising	deu1301
		falling	deu1302
centime	centime	flat	deu1304
	(France)	rising	deu1305
		falling	deu1306
centimes	centimes	flat	deu1308
	(France)	rising	deu1309
		falling	deu1310
peseta	peseta	flat	deu1312
	(Spain)	rising	deu1313
		falling	deu1314
pesetas	pesetas	flat	deu1316
	(Spain)	rising	deu1317
		falling	deu1318

German audio (Sheet 23 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
peso	peso (Philippines)	flat	deu1328
		rising	deu1329
		falling	deu1330
pesos	pesos (Philippines)	flat	deu1332
		rising	deu1333
		falling	deu1334
centavo	centavo (Philippines)	flat	deu1336
		rising	deu1337
		falling	deu1338
centavos	centavos (Philippines)	flat	deu1340
		rising	deu1341
		falling	deu1342
ringgit	ringgit (Malaysia)	flat	deu1344
		rising	deu1345
		falling	deu1346
ringgits	ringgits (Malaysia)	flat	deu1348
		rising	deu1349
		falling	deu1350
sen	sen (Malaysia)	flat	deu1352
		rising	deu1353
		falling	deu1354
sens	sens (Malaysia)	flat	deu1356
		rising	deu1357
		falling	deu1358
baht	baht (Thailand)	flat	deu1360
		rising	deu1361
		falling	deu1362

German audio (Sheet 24 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
bahts	bahts (Thailand)	flat	deu1364
		rising	deu1365
		falling	deu1366
satang	satang (Thailand)	flat	deu1368
		rising	deu1369
		falling	deu1370
satangs	satangs (Thailand)	flat	deu1372
		rising	deu1373
		falling	deu1374
won	won (Korea)	flat	deu1376
		rising	deu1377
		falling	deu1378
wons	wons (Korea)	flat	deu1380
		rising	deu1381
		falling	deu1382
franc	franc (Belgium)	flat	deu1384
		rising	deu1385
		falling	deu1386
francs	francs (Belgium)	flat	deu1388
		rising	deu1389
		falling	deu1390
centime	centime (Belgium)	flat	deu1392
		rising	deu1393
		falling	deu1394
centimes	centimes (Belgium)	flat	deu1396
		rising	deu1397
		falling	deu1398

German audio (Sheet 25 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar (Canada)	flat	deu1400
		rising	deu1401
		falling	deu1402
dollars	dollars (Canada)	flat	deu1404
		rising	deu1405
		falling	deu1406
cent	cent (Canada)	flat	deu1408
		rising	deu1409
		falling	deu1410
cents	cents (Canada)	flat	deu1412
		rising	deu1413
		falling	deu1414
dollar	dollar (Hong Kong)	flat	deu1416
		rising	deu1417
		falling	deu1418
dollars	dollars (Hong Kong)	flat	deu1420
		rising	deu1421
		falling	deu1422
cent	cent (Hong Kong)	flat	deu1424
		rising	deu1425
		falling	deu1426
cents	cents (Hong Kong)	flat	deu1428
		rising	deu1429
		falling	deu1430
Gok	gok (Hong Kong)	flat	deu1488
		rising	deu1489
		falling	deu1490

German audio (Sheet 26 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
Goks	goks (Hong Kong)	flat	deu1492
		rising	deu1493
		falling	deu1494
escudo	escudo (Portugal)	flat	deu1432
		rising	deu1433
		falling	deu1434
escudos	escudos (Portugal)	flat	deu1436
		rising	deu1437
		falling	deu1438
centavo	centavo (Portugal)	flat	deu1440
		rising	deu1441
		falling	deu1442
centavos	centavos (Portugal)	flat	deu1444
		rising	deu1445
		falling	deu1446
yuan	yuan (China)	flat	deu1448
		rising	deu1449
		falling	deu1450
yuans	yuans (China)	flat	deu1452
		rising	deu1453
		falling	deu1454
jiao	jiao (China)	flat	deu1456
		rising	deu1457
		falling	deu1458
jiaos	jiaos (China)	flat	deu1460
		rising	deu1461
		falling	deu1462

German audio (Sheet 27 of 27)

German phrase or English equivalent	English	Phrase intonation	File name
fen	fen (China)	flat	deu1464
		rising	deu1465
		falling	deu1466
fens	fens (China)	flat	deu1468
		rising	deu1469
		falling	deu1470
pound	pound (Ireland)	flat	deu1472
		rising	deu1473
		falling	deu1474
pounds	pounds (Ireland)	flat	deu1476
		rising	deu1477
		falling	deu1478
penny	penny (Ireland)	flat	deu1480
		rising	deu1481
		falling	deu1482
pence	pence (Ireland)	flat	deu1484
		rising	deu1485
		falling	deu1486

Greek audio files

Note 1: Only record audio file names ell1200-ell4070 if the user provisions audio files for this currency.

Note 2: Audio files names ell508-ell610 are used for strings functionality. Recording of this audio is optional and the content of the recording can be any word.

Note 3: Audio files names ell920-ell966 are used for months when spoken in dates.

Greek audio (Sheet 1 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
midhEn	zero	flat	ell0
		rising	ell1
		falling	ell2
Ena	one	flat	ell8
		rising	ell9
		falling	ell10
dhlo	two	flat	ell12
		rising	ell13
		falling	ell14
trla	three	flat	ell16
		rising	ell17
		falling	ell18
tEssera	four	flat	ell20
		rising	ell21
		falling	ell22
pEnte	five	flat	ell24
		rising	ell25
		falling	ell26

Greek audio (Sheet 2 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
Eksi	six	flat	ell28
		rising	ell29
		falling	ell30
eptA	seven	flat	ell32
		rising	ell33
		falling	ell34
oktO	eight	flat	ell36
		rising	ell37
		falling	ell38
ennEa	nine	flat	ell40
		rising	ell41
		falling	ell42
dhEka	ten	flat	ell56
		rising	ell57
		falling	ell58
Enteka	eleven	flat	ell60
		rising	ell61
		falling	ell62
dhOdheka	twelve	flat	ell64
		rising	ell65
		falling	ell66
dhekatrla	thirteen	flat	ell68
		rising	ell69
		falling	ell70
dhekatEssera	fourteen	flat	ell72
		rising	ell73
		falling	ell74

Greek audio (Sheet 3 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dhekaPente	fifteen	flat	ell76
		rising	ell77
		falling	ell78
dhekaEksi	sixteen	flat	ell80
		rising	ell81
		falling	ell82
dhekaeptA	seventeen	flat	ell84
		rising	ell85
		falling	ell86
dhekaokto	eighteen	flat	ell88
		rising	ell89
		falling	ell90
dhekaennEa	nineteen	flat	ell92
		rising	ell93
		falling	ell94
Ikosi	twenty	flat	ell96
		rising	ell97
		falling	ell98
triAnta	thirty	flat	ell100
		rising	ell101
		falling	ell102
sarAnta	forty	flat	ell104
		rising	ell105
		falling	ell106
penInta	fifty	flat	ell108
		rising	ell109
		falling	ell110

Greek audio (Sheet 4 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
ekslnta	sixty	flat	ell112
		rising	ell113
		falling	ell114
evdholmnta	seventy	flat	ell116
		rising	ell117
		falling	ell118
oghdhonta	eighty	flat	ell120
		rising	ell121
		falling	ell122
enenlnta	ninety	flat	ell124
		rising	ell125
		falling	ell126
ekatO	one-hundred	flat	ell132
		rising	ell133
		falling	ell134
dhiakOsia	two-hundred	flat	ell136
		rising	ell137
		falling	ell138
triakOsia	three-hundred	flat	ell140
		rising	ell141
		falling	ell142
tetrakOsia	four-hundred	flat	ell144
		rising	ell145
		falling	ell146
pentakOsia	five-hundred	flat	ell148
		rising	ell149
		falling	ell150

Greek audio (Sheet 5 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
eksakOsia	six-hundred	flat	ell152
		rising	ell153
		falling	ell154
eptakOsia	seven-hundred	flat	ell156
		rising	ell157
		falling	ell158
oktakOsia	eight-hundred	flat	ell160
		rising	ell161
		falling	ell162
enniakOsia	nine-hundred	flat	ell164
		rising	ell165
		falling	ell166
chllia	thousand	flat	ell496
		rising	ell497
		falling	ell498
ekatommlrio	million	flat	ell500
		rising	ell501
		falling	ell502
dhisekatommlrio	billion	flat	ell504
		rising	ell505
		falling	ell506
optional	a	flat	ell508
		rising	ell509
		falling	ell510
optional	b	flat	ell512
		rising	ell513
		falling	ell514

Greek audio (Sheet 6 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
optional	c	flat	ell516
		rising	ell517
		falling	ell518
optional	d	flat	ell520
		rising	ell521
		falling	ell522
optional	e	flat	ell524
		rising	ell525
		falling	ell526
optional	f	flat	ell528
		rising	ell529
		falling	ell530
optional	g	flat	ell532
		rising	ell533
		falling	ell534
optional	h	flat	ell536
		rising	ell537
		falling	ell538
optional	i	flat	ell540
		rising	ell541
		falling	ell542
optional	j	flat	ell544
		rising	ell545
		falling	ell546
optional	k	flat	ell548
		rising	ell549
		falling	ell550

Greek audio (Sheet 7 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
optional	l	flat	ell552
		rising	ell553
		falling	ell554
optional	m	flat	ell556
		rising	ell557
		falling	ell557
optional	n	flat	ell560
		rising	ell561
		falling	ell562
optional	o	flat	ell564
		rising	ell565
		falling	ell566
optional	p	flat	ell568
		rising	ell569
		falling	ell570
optional	q	flat	ell572
		rising	ell573
		falling	ell574
optional	r	flat	ell576
		rising	ell577
		falling	ell578
optional	s	flat	ell580
		rising	ell581
		falling	ell582
optional	t	flat	ell584
		rising	ell585
		falling	ell586

Greek audio (Sheet 8 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
optional	u	flat	ell588
		rising	ell5589
		falling	ell590
optional	v	flat	ell592
		rising	ell593
		falling	ell594
optional	w	flat	ell596
		rising	ell597
		falling	ell598
optional	x	flat	ell600
		rising	ell601
		falling	ell602
optional	y	flat	ell604
		rising	ell605
		falling	ell606
optional	z	flat	ell608
		rising	ell609
		falling	ell610
mlon	negative	flat	ell616
		rising	ell617
		falling	ell618
ke	and	flat	ell620
		rising	ell621
		falling	ell622
Ora	hour	flat	ell624
		rising	ell625
		falling	ell626

Greek audio (Sheet 9 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
Ores	hours	flat	ell628
		rising	ell629
		falling	ell630
leptO	minute	flat	ell632
		rising	ell633
		falling	ell634
leptA	minutes	flat	ell636
		rising	ell637
		falling	ell638
dhefterOlepto	second	flat	ell640
		rising	ell641
		falling	ell642
dhefterOlepta	seconds	flat	ell644
		rising	ell645
		falling	ell646
ianuArios	January	flat	ell648
		rising	ell649
		falling	ell650
fevruArios	February	flat	ell652
		rising	ell653
		falling	ell654
mArtios	March	flat	ell656
		rising	ell657
		falling	ell658
aprllios	April	flat	ell660
		rising	ell661
		falling	ell662

Greek audio (Sheet 10 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
mAios	May	flat	ell664
		rising	ell665
		falling	ell666
iUnios	June	flat	ell668
		rising	ell669
		falling	ell670
iUlios	July	flat	ell672
		rising	ell673
		falling	ell674
Avghustos	August	flat	ell676
		rising	ell677
		falling	ell678
septEmvrios	September	flat	ell680
		rising	ell681
		falling	ell682
oktOvrios	October	flat	ell684
		rising	ell685
		falling	ell686
noEmvrios	November	flat	ell688
		rising	ell689
		falling	ell690
dhekEmvrios	December	flat	ell692
		rising	ell693
		falling	ell694
kiriakl	Sunday	flat	ell696
		rising	ell697
		falling	ell698

Greek audio (Sheet 11 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dhitEra	Monday	flat	ell700
		rising	ell701
		falling	ell702
trlti	Tuesday	flat	ell704
		rising	ell705
		falling	ell706
tetArti	Wednesday	flat	ell708
		rising	ell709
		falling	ell710
pEmpti	Thursday	flat	ell712
		rising	ell713
		falling	ell714
paraskil	Friday	flat	ell716
		rising	ell717
		falling	ell718
sAvvato	Saturday	flat	ell720
		rising	ell721
		falling	ell722
prOtos	first (masc.)	flat	ell728
		rising	ell729
		falling	ell730
dhEfteros	second (masc.)	flat	ell732
		rising	ell733
		falling	ell734
trltos	third (masc.)	flat	ell736
		rising	ell737
		falling	ell738

Greek audio (Sheet 12 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
tEartos	fourth (masc.)	flat	ell740
		rising	ell741
		falling	ell742
pEmptos	fifth (masc.)	flat	ell744
		rising	ell745
		falling	ell746
Ektos	sixth (masc.)	flat	ell748
		rising	ell749
		falling	ell750
Evdhomos	seventh (masc.)	flat	ell752
		rising	ell753
		falling	ell754
Oghdhoos	eighth (masc.)	flat	ell756
		rising	ell757
		falling	ell758
Enatos	ninth (masc.)	flat	ell760
		rising	ell761
		falling	ell762
dhEkatos	tenth (masc.)	flat	ell764
		rising	ell765
		falling	ell766
endhEkatos	eleventh (masc.)	flat	ell768
		rising	ell769
		falling	ell770
dhodhEkatos	twelfth (masc.)	flat	ell772
		rising	ell773
		falling	ell774

Greek audio (Sheet 13 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
eikostOs	twentieth (masc.)	flat	ell804
		rising	ell805
		falling	ell806
triakostOs	thirtieth (masc.)	flat	ell808
		rising	ell809
		falling	ell810
tessarakostOs	fortieth (masc.)	flat	ell812
		rising	ell813
		falling	ell814
pentikostOs	fiftieth (masc.)	flat	ell816
		rising	ell817
		falling	ell818
eksikostOs	sixtieth (masc.)	flat	ell820
		rising	ell821
		falling	ell822
evdhomikostOs	seventieth (masc.)	flat	ell824
		rising	ell825
		falling	ell826
oghdhoikostOs	eightieth (masc.)	flat	ell828
		rising	ell829
		falling	ell830
enenikostOs	ninetieth (masc.)	flat	ell832
		rising	ell833
		falling	ell834
ekatostOs	one-hundreth (masc.)	flat	ell836
		rising	ell837
		falling	ell838

Greek audio (Sheet 14 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dhiakosioſtOs	two-hundreth (masc.)	flat	ell840
		rising	ell841
		falling	ell842
triakosioſtOs	three-hundreth (masc.)	flat	ell844
		rising	ell845
		falling	ell846
tetrakosioſtOs	four-hundreth (masc.)	flat	ell848
		rising	ell849
		falling	ell850
pentakosioſtOs	five-hundreth (masc.)	flat	ell852
		rising	ell853
		falling	ell854
eksakosioſtOs	six-hundreth (masc.)	flat	ell856
		rising	ell857
		falling	ell858
eptakosioſtOs	seven-hundreth (masc.)	flat	ell860
		rising	ell861
		falling	ell862
oktakosioſtOs	eight-hundreth (masc.)	flat	ell864
		rising	ell865
		falling	ell866
enniakosioſtOs	nine-hundreth (masc.)	flat	ell868
		rising	ell869
		falling	ell870
chilioſtOs	thousandth (masc.)	flat	ell872
		rising	ell873
		falling	ell874

Greek audio (Sheet 15 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
ekatommiriostOs	millionth (masc.)	flat	ell880
		rising	ell881
		falling	ell882
dhisekatommiriostOs	billionth (masc.)	flat	ell888
		rising	ell889
		falling	ell890
dhlesi	pound sign (#)	flat	ell896
		rising	ell897
		falling	ell898
asterlskos	asterisk (*)	flat	ell900
		rising	ell901
		falling	ell902
metA mesimvrlan	a.m	flat	ell908
		rising	ell909
		falling	ell910
ml.ml	p.m	flat	ell912
		rising	ell913
		falling	ell914
dholArio	dollar (US)	flat	ell1200
		rising	ell1201
		falling	ell1202
dholAria	dollars (US)	flat	ell1204
		rising	ell1205
		falling	ell1206
sent	cent (US)	flat	ell1208
		rising	ell1209
		falling	ell1210

Greek audio (Sheet 16 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
sents	cents	flat	ell1212
	(US)	rising	ell1213
		falling	ell1214
mark	mark	flat	ell1216
	(Germany)	rising	ell1217
		falling	ell1218
marks	marks	flat	ell1220
	(Germany)	rising	ell1221
		falling	ell1222
pfennig	pfennig	flat	ell1224
	(Germany)	rising	ell1225
		falling	ell1226
pfennigs	pfennigs	flat	ell1228
	(Germany)	rising	ell1229
		falling	ell1230
ghen	yen	flat	ell1232
	(Japan)	rising	ell1233
		falling	ell1234
yens	yens	flat	ell1236
	(Japan)	rising	ell1237
		falling	ell1238
lira	lira	flat	ell1240
	(Italy)	rising	ell1241
		falling	ell1242
lire	liras	flat	ell1244
	(Italy)	rising	ell1245
		falling	ell1246

Greek audio (Sheet 17 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
guilder	guilder (Netherlands)	flat	ell1248
		rising	ell1249
		falling	ell1250
guilders	guilders (Netherlands)	flat	ell1252
		rising	ell1253
		falling	ell1254
cent	cent (Netherlands)	flat	ell1256
		rising	ell1257
		falling	ell1258
cent	cents (Netherlands)	flat	ell1260
		rising	ell1261
		falling	ell1262
pound	pound (UK)	flat	ell1264
		rising	ell1265
		falling	ell1266
pounds	pounds (UK)	flat	ell1268
		rising	ell1269
		falling	ell1270
penny	penny (UK)	flat	ell1272
		rising	ell1273
		falling	ell1274
pence	pence (UK)	flat	ell1276
		rising	ell1277
		falling	ell1278
irO	euro (Euro)	flat	ell1280
		rising	ell1281
		falling	ell1282

Greek audio (Sheet 18 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
irO	euros	flat	ell1284
	(Euro)	rising	ell1285
		falling	ell1286
leptO tu irO	eurocent	flat	ell1288
	(Euro)	rising	ell1289
		falling	ell1290
leptA tu irO	eurocents	flat	ell1292
	(Euro)	rising	ell1293
		falling	ell1294
frAghko	franc	flat	ell1296
	(France)	rising	ell1297
		falling	ell1298
frAghka	francs	flat	ell1300
	(France)	rising	ell1301
		falling	ell1302
dhekAra	centime	flat	ell1304
	(France)	rising	ell1305
		falling	ell1306
dhekAres	centimes	flat	ell1308
	(France)	rising	ell1309
		falling	ell1310
peseta	peseta	flat	ell1312
	(Spain)	rising	ell1313
		falling	ell1314
pesetas	pesetas	flat	ell1316
	(Spain)	rising	ell1317
		falling	ell1318

Greek audio (Sheet 19 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
peso	peso (Philippines)	flat	ell1328
		rising	ell1329
		falling	ell1330
pesos	pesos (Philippines)	flat	ell1332
		rising	ell1333
		falling	ell1334
centavo	centavo (Philippines)	flat	ell1336
		rising	ell1337
		falling	ell1338
centavos	centavos (Philippines)	flat	ell1340
		rising	ell1341
		falling	ell1342
ringgit	ringgit (Malaysia)	flat	ell1344
		rising	ell1345
		falling	ell1346
ringgits	ringgits (Malaysia)	flat	ell1348
		rising	ell1349
		falling	ell1350
sen	sen (Malaysia)	flat	ell1352
		rising	ell1353
		falling	ell1354
sens	sens (Malaysia)	flat	ell1356
		rising	ell1357
		falling	ell1358
baht	baht (Thailand)	flat	ell1360
		rising	ell1361
		falling	ell1362

Greek audio (Sheet 20 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
bahts	bahts (Thailand)	flat	ell1364
		rising	ell1365
		falling	ell1366
satang	satang (Thailand)	flat	ell1368
		rising	ell1369
		falling	ell1370
satangs	satangs (Thailand)	flat	ell1372
		rising	ell1373
		falling	ell1374
won	won (Korea)	flat	ell1376
		rising	ell1377
		falling	ell1378
wons	wons (Korea)	flat	ell1380
		rising	ell1381
		falling	ell1382
franc	franc (Belgium)	flat	ell1384
		rising	ell1385
		falling	ell1386
francs	francs (Belgium)	flat	ell1388
		rising	ell1389
		falling	ell1390
centime	centime (Belgium)	flat	ell1392
		rising	ell1393
		falling	ell1394
centimes	centimes (Belgium)	flat	ell1396
		rising	ell1397
		falling	ell1398

Greek audio (Sheet 21 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar (Canada)	flat	ell1400
		rising	ell1401
		falling	ell1402
dollars	dollars (Canada)	flat	ell1404
		rising	ell1405
		falling	ell1406
cent	cent (Canada)	flat	ell1408
		rising	ell1409
		falling	ell1410
cents	cents (Canada)	flat	ell1412
		rising	ell1413
		falling	ell1414
dollar	dollar (Hong Kong)	flat	ell1416
		rising	ell1417
		falling	ell1418
dollars	dollars (Hong Kong)	flat	ell1420
		rising	ell1421
		falling	ell1422
cent	cent (Hong Kong)	flat	ell1424
		rising	ell1425
		falling	ell1426
cents	cents (Hong Kong)	flat	ell1428
		rising	ell1429
		falling	ell1430
gok	gok (Hong Kong)	flat	ell1488
		rising	ell1489
		falling	ell1490

Greek audio (Sheet 22 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
goks	goks (Hong Kong)	flat	ell1492
		rising	ell1493
		falling	ell1494
escudo	escudo (Portugal)	flat	ell1432
		rising	ell1433
		falling	ell1434
escudos	escudos (Portugal)	flat	ell1436
		rising	ell1437
		falling	ell1438
centavo	centavo (Portugal)	flat	ell1440
		rising	ell1441
		falling	ell1442
centavos	centavos (Portugal)	flat	ell1444
		rising	ell1445
		falling	ell1446
yuan	yuan (China)	flat	ell1448
		rising	ell1449
		falling	ell1450
yuans	yuans (China)	flat	ell1452
		rising	ell1453
		falling	ell1454
jiao	jiao (China)	flat	ell1456
		rising	ell1457
		falling	ell1458
jiaos	jiaos (China)	flat	ell1460
		rising	ell1461
		falling	ell1462

Greek audio (Sheet 23 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
fen	fen (China)	flat	ell1464
		rising	ell1465
		falling	ell1466
fens	fens (China)	flat	ell1468
		rising	ell1469
		falling	ell1470
pound	pound (Ireland)	flat	ell1472
		rising	ell1473
		falling	ell1474
pounds	pounds (Ireland)	flat	ell1476
		rising	ell1477
		falling	ell1478
penny	penny (Ireland)	flat	ell1480
		rising	ell1481
		falling	ell1482
pence	pence (Ireland)	flat	ell1484
		rising	ell1485
		falling	ell1486
sekEl	shekel (Israel)	flat	ell4000
		rising	ell4001
		falling	ell4002
shekels	shekels (Israel)	flat	ell4004
		rising	ell4005
		falling	ell4016
agoro	agoro (Israel)	flat	ell4008
		rising	ell4009
		falling	ell4010

Greek audio (Sheet 24 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
agoros	agoros	flat	ell4012
	(Israel)	rising	ell4013
		falling	ell4014
korOna tsechlas	koruna	flat	ell4016
	(Czech)	rising	ell4017
		falling	ell4018
korunas	korunas	flat	ell4020
	(Czech)	rising	ell4021
		falling	ell4022
haleru	haleru	flat	ell4024
	(Czech)	rising	ell4025
		falling	ell4026
halaeroo	halerus	flat	ell4028
	(Czech)	rising	ell4029
		falling	ell4030
llra	lira	flat	ell4032
	(Turkey)	rising	ell4033
		falling	ell4034
lire	lire	flat	ell4036
	(Turkey)	rising	ell4037
		falling	ell4038
ellinikl dhrachml	drachma	flat	ell4040
	(Greek)	rising	ell4041
		falling	ell4042
drachmas	drachmas	flat	ell4044
	(Greek)	rising	ell4045
		falling	ell4046

Greek audio (Sheet 25 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
ntoghk	dong (Vietnamese)	flat	ell4048
		rising	ell4049
		falling	ell4050
dongs	dongs (Vietnamese)	flat	ell4052
		rising	ell4053
		falling	ell4054
rupla	rupee (India)	flat	ell4056
		rising	ell4057
		falling	ell4058
ruples	rupees (India)	flat	ell4060
		rising	ell4061
		falling	ell4062
pAiza	paise (India)	flat	ell4064
		rising	ell4065
		falling	ell4066
pAizes	paisas (India)	flat	ell4068
		rising	ell4069
		falling	ell4070
ianoiarlu	January	flat	ell920
		rising	ell921
		falling	ell922
fevroiarlu	February	flat	ell924
		rising	ell925
		falling	ell926
martlu	March	flat	ell928
		rising	ell929
		falling	ell930

Greek audio (Sheet 26 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
aprillu	April	flat	ell932
		rising	ell933
		falling	ell934
malu	May	flat	ell936
		rising	ell937
		falling	ell938
ioinlu	June	flat	ell940
		rising	ell941
		falling	ell942
ioillu	July	flat	ell944
		rising	ell945
		falling	ell946
avghUstu	August	flat	ell948
		rising	ell949
		falling	ell950
septemvrlu	September	flat	ell952
		rising	ell953
		falling	ell954
oktovrlu	October	flat	ell956
		rising	ell957
		falling	ell958
noemvrlu	November	flat	ell960
		rising	ell961
		falling	ell962
dhekemvrlu	December	flat	ell964
		rising	ell965
		falling	ell966

Greek audio (Sheet 27 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
to mesimEri	midnight	flat	ell968
		rising	ell969
		falling	ell970
ta mesAnichta	noon	flat	ell972
		rising	ell973
		falling	ell974
ekatOn	hundred (101 to 199)	flat	ell976
		rising	ell977
		falling	ell978
chiliAdhes	thousands	flat	ell980
		rising	ell981
		falling	ell982
ekatommlria	millions	flat	ell984
		rising	ell985
		falling	ell986
dhisekatommlria	billions	flat	ell988
		rising	ell989
		falling	ell990
mla	one (fem.)	flat	ell992
		rising	ell993
		falling	ell994
tris	three (fem.)	flat	ell996
		rising	ell997
		falling	ell998
tEsseris	four (fem.)	flat	ell1000
		rising	ell1001
		falling	ell1002

Greek audio (Sheet 28 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dhekatrels	thirteen (fem.)	flat	ell1004
		rising	ell1005
		falling	ell1006
dhekatEsseris	fourteen (fem.)	flat	ell1008
		rising	ell1009
		falling	ell1010
elkosi	twenty (fem.)	flat	ell1012
		rising	ell1013
		falling	ell1014
dhiakOsies	two-hundred (fem.)	flat	ell1016
		rising	ell1017
		falling	ell1018
triakOsies	three-hundred (fem.)	flat	ell1020
		rising	ell1021
		falling	ell1022
tetrakOsies	four-hundred (fem.)	flat	ell1024
		rising	ell1025
		falling	ell1026
pentakOsies	five-hundred (fem.)	flat	ell1028
		rising	ell1029
		falling	ell1030
eksakOsies	six-hundred (fem.)	flat	ell1032
		rising	ell1033
		falling	ell1034
eptakOsies	seven-hundred (fem.)	flat	ell1036
		rising	ell1037
		falling	ell1038

Greek audio (Sheet 29 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
oktakOsies	eight-hundred (fem.)	flat	ell1040
		rising	ell1041
		falling	ell1042
enniakOsies	nine-hundred (fem.)	flat	ell1044
		rising	ell1045
		falling	ell1046
prOti	first (fem.)	flat	ell1048
		rising	ell1049
		falling	ell1050
dhEfteri	second (fem.)	flat	ell1052
		rising	ell1053
		falling	ell1054
trlti	third (fem.)	flat	ell1056
		rising	ell1057
		falling	ell1058
tEtarti	fourth (fem.)	flat	ell1060
		rising	ell1061
		falling	ell1062
pEmpti	fifth (fem.)	flat	ell1064
		rising	ell1065
		falling	ell1066
Ekti	sixth (fem.)	flat	ell1068
		rising	ell1069
		falling	ell1070
Evdhomi	seventh (fem.)	flat	ell1072
		rising	ell1073
		falling	ell1074

Greek audio (Sheet 30 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
Oghdhoi	eighth (fem.)	flat	ell1076
		rising	ell1077
		falling	ell1078
Enati	ninth (fem.)	flat	ell1080
		rising	ell1081
		falling	ell1082
dhEkati	tenth (fem.)	flat	ell1084
		rising	ell1085
		falling	ell1086
endhEkati	eleventh (fem.)	flat	ell1088
		rising	ell1089
		falling	ell1090
dhodhEkati	twelfth (fem.)	flat	ell1092
		rising	ell1093
		falling	ell1094
eikostl	twentieth (fem.)	flat	ell1096
		rising	ell1097
		falling	ell1098
triakostl	thirtieth (fem.)	flat	ell1100
		rising	ell1101
		falling	ell1102
tessarakostl	fortieth (fem.)	flat	ell1104
		rising	ell1105
		falling	ell1106
pentikostl	fiftieth (fem.)	flat	ell1108
		rising	ell1109
		falling	ell1110

Greek audio (Sheet 31 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
eksikostl	sixtieth	flat	ell1112
	(fem.)	rising	ell1113
		falling	ell1114
evdhomikostl	seventieth	flat	ell1116
	(fem.)	rising	ell1117
		falling	ell1118
oghdhoikostl	eightieth	flat	ell1120
	(fem.)	rising	ell1121
		falling	ell1122
enenikostl	ninetieth	flat	ell1124
	(fem.)	rising	ell1125
		falling	ell1126
ekatostl	one-hundredth	flat	ell1128
	(fem.)	rising	ell1129
		falling	ell1130
dhiakosiosl	two-hundredth	flat	ell1132
	(fem.)	rising	ell1133
		falling	ell1134
triakosiosl	three-hundredth	flat	ell1136
	(fem.)	rising	ell1137
		falling	ell1138
tetrakosiosl	four-hundredth	flat	ell1140
	(fem.)	rising	ell1141
		falling	ell1142
pentakosiosl	five-hundredth	flat	ell1144
	(fem.)	rising	ell1145
		falling	ell1146

Greek audio (Sheet 32 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
eksakosiotl	six-hundredth (fem.)	flat	ell1148
		rising	ell1149
		falling	ell1150
eptakosiotl	seven-hundredth (fem.)	flat	ell1152
		rising	ell1153
		falling	ell1154
oktakosiotl	eight-hundredth (fem.)	flat	ell1156
		rising	ell1157
		falling	ell1158
enniakosiotl	nine-hundredth (fem.)	flat	ell1160
		rising	ell1161
		falling	ell1162
chiliotl	thousandth (fem.)	flat	ell1164
		rising	ell1165
		falling	ell1166
ekatommiriotl	millionth (fem.)	flat	ell1168
		rising	ell1169
		falling	ell1170
dhisekatommiriotl	billionth (fem.)	flat	ell1172
		rising	ell1173
		falling	ell1174
dhEkatos	teenth (for 13 - 19(masc.))	flat	ell1176
		rising	ell1177
		falling	ell1178
dhEkati	teenth (for 13 - 19 (fem.))	flat	ell1180
		rising	ell1181
		falling	ell1182

Greek audio (Sheet 33 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
dhEkato	teenth	flat	ell1184
	(for 13 - 19 (neuter))	rising	ell1185
		falling	ell1186
prOto	first	flat	ell1500
	(neuter)	rising	ell1501
		falling	ell1502
dhEftero	second	flat	ell1504
	(neuter)	rising	ell1505
		falling	ell1506
trIto	third	flat	ell1508
	(neuter)	rising	ell1509
		falling	ell1510
tEtarto	fourth	flat	ell1512
	(neuter)	rising	ell1513
		falling	ell1514
pEmpto	fifth	flat	ell1516
	(neuter)	rising	ell1517
		falling	ell1518
Ekto	sixth	flat	ell1520
	(neuter)	rising	ell1521
		falling	ell1522
Evdhomo	seventh	flat	ell1524
	(neuter)	rising	ell1525
		falling	ell1526
Oghdhoo	eighth	flat	ell1528
	(neuter)	rising	ell1529
		falling	ell1530

Greek audio (Sheet 34 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
Enato	ninth	flat	ell1532
	(neuter)	rising	ell1533
		falling	ell1534
dhEkato	tenth	flat	ell1536
	(neuter)	rising	ell1537
		falling	ell1538
endhEkato	eleventh	flat	ell1540
	(neuter)	rising	ell1541
		falling	ell1542
dhodhEkato	twelfth	flat	ell1544
	(neuter)	rising	ell1545
		falling	ell1546
eikostO	twentieth	flat	ell1548
	(neuter)	rising	ell1549
		falling	ell1550
triakostO	thirtieth	flat	ell1552
	(neuter)	rising	ell1553
		falling	ell1554
tessarakostO	fortieth	flat	ell1556
	(neuter)	rising	ell1557
		falling	ell1558
pentikostO	fiftieth	flat	ell1560
	(neuter)	rising	ell1561
		falling	ell1562
eksikostO	sixtieth	flat	ell1564
	(neuter)	rising	ell1565
		falling	ell1566

Greek audio (Sheet 35 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
evdhomikostO	seventieth (neuter)	flat	ell1568
		rising	ell1569
		falling	ell1570
oghdhoikostO	eightieth (neuter)	flat	ell1572
		rising	ell1573
		falling	ell1574
enenikostO	ninetieth (neuter)	flat	ell1576
		rising	ell1577
		falling	ell1578
ekatostO	one-hundredth (neuter)	flat	ell1580
		rising	ell1581
		falling	ell1582
dhiakosiosO	two-hundredth (neuter)	flat	ell1584
		rising	ell1585
		falling	ell1586
triakosiosO	three-hundredth (neuter)	flat	ell1588
		rising	ell1589
		falling	ell1590
tetrakosiosO	four-hundredth (neuter)	flat	ell1592
		rising	ell1593
		falling	ell1594
pentakosiosO	five-hundredth (neuter)	flat	ell1596
		rising	ell1597
		falling	ell1598
eksakosiosO	six-hundredth (neuter)	flat	ell1600
		rising	ell1601
		falling	ell1602

Greek audio (Sheet 36 of 36)

Greek phrase or English equivalent	English	Phrase intonation	File name
eptakosioſtO	seven-hundredth	flat	ell1604
	(neuter)	rising	ell1605
		falling	ell1606
oktakosioſtO	eight-hundredth	flat	ell1608
	(neuter)	rising	ell1609
		falling	ell1610
enniakosioſtO	nine-hundredth	flat	ell1612
	(neuter)	rising	ell1613
		falling	ell1614
chilioſtO	thousandth	flat	ell1616
	(neuter)	rising	ell1617
		falling	ell1618
ekatommirioſtO	millionth	flat	ell1620
	(neuter)	rising	ell1621
		falling	ell1622
dhisekatommirioſtO	billionth	flat	ell1624
	(neuter)	rising	ell1625
		falling	ell1626

Hebrew audio files

Note 1: Only record audio file names heb 1216-heb1278 and heb 1312-heb 4070 if the user provisions audio files for this currency.

Note 2: Audio files names heb 508-heb 610 are used for strings functionality. Recording of this audio is optional and the content of the recording can be any word.

Hebrew audio (Sheet 1 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
efes	zero	flat	heb0
		rising	heb1
		falling	heb2
ekhad	one	flat	heb8
		rising	heb9
		falling	heb10
shna'yeem	two	flat	heb12
		rising	heb13
		falling	heb14
shlosa	three	flat	heb16
		rising	heb17
		falling	heb18
arba'a	four	flat	heb20
		rising	heb21
		falling	heb22
khamisha	five	flat	heb24
		rising	heb25
		falling	heb26

Hebrew audio (Sheet 2 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
sheesha	six	flat	heb28
		rising	heb29
		falling	heb30
sheev'a	seven	flat	heb32
		rising	heb33
		falling	heb34
shmona	eight	flat	heb36
		rising	heb37
		falling	heb38
teesh'a	nine	flat	heb40
		rising	heb41
		falling	heb42
asarah	ten	flat	heb56
		rising	heb57
		falling	heb58
akhad asar	eleven	flat	heb60
		rising	heb61
		falling	heb62
shnaym asar	twelve	flat	heb64
		rising	heb65
		falling	heb66
shlosa asar	thirteen	flat	heb68
		rising	heb69
		falling	heb70
arba'a asar	fourteen	flat	heb72
		rising	heb73
		falling	heb74

Hebrew audio (Sheet 3 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
khamisha asar	fifteen	flat	heb76
		rising	heb77
		falling	heb78
shisha asar	sixteen	flat	heb80
		rising	heb81
		falling	heb82
sheev'a asar	seventeen	flat	heb84
		rising	heb85
		falling	heb86
shmona asar	eighteen	flat	heb88
		rising	heb89
		falling	heb90
teesh'a asar	nineteen	flat	heb92
		rising	heb93
		falling	heb94
esreem	twenty	flat	heb96
		rising	heb97
		falling	heb98
shlosheem	thirty	flat	heb100
		rising	heb101
		falling	heb102
arba'eem	forty	flat	heb104
		rising	heb105
		falling	heb106
khameesheem	fifty	flat	heb108
		rising	heb109
		falling	heb110

Hebrew audio (Sheet 4 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
sheesheem	sixty	flat	heb112
		rising	heb113
		falling	heb114
sheeveem	seventy	flat	heb116
		rising	heb117
		falling	heb118
shmoneem	eighty	flat	heb120
		rising	heb121
		falling	heb122
teesh'eem	ninety	flat	heb124
		rising	heb125
		falling	heb126
may'a	one-hundred	flat	heb132
		rising	heb133
		falling	heb134
mata'yeem	two-hundred	flat	heb136
		rising	heb137
		falling	heb138
shlosh may'ot	three-hundred	flat	heb140
		rising	heb141
		falling	heb142
arba may'ot	four-hundred	flat	heb144
		rising	heb145
		falling	heb146
khamaysh may'ot	five-hundred	flat	heb148
		rising	heb149
		falling	heb150

Hebrew audio (Sheet 5 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
shaysh may'ot	six-hundred	flat	heb152
		rising	heb153
		falling	heb154
shva may'ot	seven-hundred	flat	heb156
		rising	heb157
		falling	heb158
shmone may'ot	eight-hundred	flat	heb160
		rising	heb161
		falling	heb162
tsha may'ot	nine-hundred	flat	heb164
		rising	heb165
		falling	heb166
alpa'yim	two-thousand	flat	heb176
		rising	heb177
		falling	heb178
shloshet alafim	three-thousand	flat	heb180
		rising	heb181
		falling	heb182
arba'at alafim	four-thousand	flat	heb184
		rising	heb185
		falling	heb186
khamayshet alafim	five-thousand	flat	heb188
		rising	heb189
		falling	heb190
shayshet alafim	six-thousand	flat	heb192
		rising	heb193
		falling	heb194

Hebrew audio (Sheet 6 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
sheev'at alafim	seven-thousand	flat	heb196
		rising	heb197
		falling	heb198
shmonat alafim	eight-thousand	flat	heb200
		rising	heb201
		falling	heb202
teesh'at alafim	nine-thousand	flat	heb204
		rising	heb205
		falling	heb206
'elef	thousand	flat	heb496
		rising	heb497
		falling	heb498
milyon	million	flat	heb500
		rising	heb501
		falling	heb502
milyard	billion	flat	heb504
		rising	heb505
		falling	heb506
optional	a	flat	heb508
		rising	heb509
		falling	heb510
optional	b	flat	heb512
		rising	heb513
		falling	heb514
optional	c	flat	heb516
		rising	heb517
		falling	heb518

Hebrew audio (Sheet 7 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
optional	d	flat	heb520
		rising	heb521
		falling	heb522
optional	e	flat	heb524
		rising	heb525
		falling	heb526
optional	f	flat	heb528
		rising	heb529
		falling	heb530
optional	g	flat	heb532
		rising	heb533
		falling	heb534
optional	h	flat	heb536
		rising	heb537
		falling	heb538
optional	i	flat	heb540
		rising	heb541
		falling	heb542
optional	j	flat	heb544
		rising	heb545
		falling	heb546
optional	k	flat	heb548
		rising	heb549
		falling	heb550
optional	l	flat	heb552
		rising	heb553
		falling	heb554

Hebrew audio (Sheet 8 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
optional	m	flat	heb556
		rising	heb557
		falling	heb557
optional	n	flat	heb560
		rising	heb561
		falling	heb562
optional	o	flat	heb564
		rising	heb565
		falling	heb566
optional	p	flat	heb568
		rising	heb569
		falling	heb570
optional	q	flat	heb572
		rising	heb573
		falling	heb574
optional	r	flat	heb576
		rising	heb577
		falling	heb578
optional	s	flat	heb580
		rising	heb581
		falling	heb582
optional	t	flat	heb584
		rising	heb585
		falling	heb586
optional	u	flat	heb588
		rising	heb589
		falling	heb590

Hebrew audio (Sheet 9 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
optional	v	flat	heb592
		rising	heb593
		falling	heb594
optional	w	flat	heb596
		rising	heb597
		falling	heb598
optional	x	flat	heb600
		rising	heb601
		falling	heb602
optional	y	flat	heb604
		rising	heb605
		falling	heb606
optional	z	flat	heb608
		rising	heb609
		falling	heb610
meenoos	negative	flat	heb616
		rising	heb617
		falling	heb618
ve	and	flat	heb620
		rising	heb621
		falling	heb622
sha'a	hour	flat	heb624
		rising	heb625
		falling	heb626
sha'ot	hours	flat	heb628
		rising	heb629
		falling	heb630

Hebrew audio (Sheet 10 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
daka	minute	flat	heb632
		rising	heb633
		falling	heb634
dakot	minutes	flat	heb636
		rising	heb637
		falling	heb638
shneeya	second	flat	heb640
		rising	heb641
		falling	heb642
shneeyot	seconds	flat	heb644
		rising	heb645
		falling	heb646
yanoor'ar	January	flat	heb648
		rising	heb649
		falling	heb650
febroy'ar	February	flat	heb652
		rising	heb653
		falling	heb654
mars	March	flat	heb656
		rising	heb657
		falling	heb658
april	April	flat	heb660
		rising	heb661
		falling	heb662
ma'i	May	flat	heb664
		rising	heb665
		falling	heb666

Hebrew audio (Sheet 11 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
yoonee	June	flat	heb668
		rising	heb669
		falling	heb670
yoolee	July	flat	heb672
		rising	heb673
		falling	heb674
agoost	August	flat	heb676
		rising	heb677
		falling	heb678
september	September	flat	heb680
		rising	heb681
		falling	heb682
aktober	October	flat	heb684
		rising	heb685
		falling	heb686
november	November	flat	heb688
		rising	heb689
		falling	heb690
daytzeber	December	flat	heb692
		rising	heb693
		falling	heb694
yom reeshon	Sunday	flat	heb696
		rising	heb697
		falling	heb698
yom shayni	Monday	flat	heb700
		rising	heb701
		falling	heb702

Hebrew audio (Sheet 12 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
yom shleeshee	Tuesday	flat	heb704
		rising	heb705
		falling	heb706
yom reeve'ee	Wednesday	flat	heb708
		rising	heb709
		falling	heb710
yom khameeshee	Thursday	flat	heb712
		rising	heb713
		falling	heb714
yom sheeshee	Friday	flat	heb716
		rising	heb717
		falling	heb718
yom shabbat	Saturday	flat	heb720
		rising	heb721
		falling	heb722
ha-reeshon	first (masc.)	flat	heb728
		rising	heb729
		falling	heb730
ha-shaynee	second (masc.)	flat	heb732
		rising	heb733
		falling	heb734
ha-shleeshee	third (masc.)	flat	heb736
		rising	heb737
		falling	heb738
ha-reeve'ee	fourth (masc.)	flat	heb740
		rising	heb741
		falling	heb742

Hebrew audio (Sheet 13 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
ha-khameeshee	fifth (masc.)	flat	heb744
		rising	heb745
		falling	heb746
ha-sheeshee	sixth (masc.)	flat	heb748
		rising	heb749
		falling	heb750
ha-shvee'ee	seventh (masc.)	flat	heb752
		rising	heb753
		falling	heb754
ha-shmeenee	eighth (masc.)	flat	heb756
		rising	heb757
		falling	heb758
ha-tshee'ee	ninth (masc.)	flat	heb760
		rising	heb761
		falling	heb762
ha-aseeree	tenth (masc.)	flat	heb764
		rising	heb765
		falling	heb766
ha-me'ah	one-hundreth	flat	heb836
		rising	heb837
		falling	heb838
soolameet	pound sign (#)	flat	heb896
		rising	heb897
		falling	heb898
kokhaveet	asterisk (*)	flat	heb900
		rising	heb901
		falling	heb902

Hebrew audio (Sheet 14 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
ba-boker	a.m	flat	heb908
	(6 a.m. - 11 a.m.)	rising	heb909
		falling	heb910
akhar ha-tzahara'yim	p.m	flat	heb912
	(1 p.m. - 5 p.m.)	rising	heb913
		falling	heb914
dolar	dollar	flat	heb1200
	(US)	rising	heb1201
		falling	heb1202
do'lareem	dollars	flat	heb1204
	(US)	rising	heb1205
		falling	heb1206
sent	cent	flat	heb1208
	(US)	rising	heb1209
		falling	heb1210
sent	cents	flat	heb1212
	(US)	rising	heb1213
		falling	heb1214
mark	mark	flat	heb1216
	(Germany)	rising	heb1217
		falling	heb1218
marks	marks	flat	heb1220
	(Germany)	rising	heb1221
		falling	heb1222
pfennig	pfennig	flat	heb1224
	(Germany)	rising	heb1225
		falling	heb1226

Hebrew audio (Sheet 15 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
pfennigs	pfennigs (Germany)	flat	heb1228
		rising	heb1229
		falling	heb1230
yen	yen (Japan)	flat	heb1232
		rising	heb1233
		falling	heb1234
yens	yens (Japan)	flat	heb1236
		rising	heb1237
		falling	heb1238
lira	lira (Italy)	flat	heb1240
		rising	heb1241
		falling	heb1242
lire	liras (Italy)	flat	heb1244
		rising	heb1245
		falling	heb1246
guilder	guilder (Netherlands)	flat	heb1248
		rising	heb1249
		falling	heb1250
guilders	guilders (Netherlands)	flat	heb1252
		rising	heb1253
		falling	heb1254
cent	cent (Netherlands)	flat	heb1256
		rising	heb1257
		falling	heb1258
cent	cents (Netherlands)	flat	heb1260
		rising	heb1261
		falling	heb1262

Hebrew audio (Sheet 16 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
pound	pound (UK)	flat	heb1264
		rising	heb1265
		falling	heb1266
pounds	pounds (UK)	flat	heb1268
		rising	heb1269
		falling	heb1270
penny	penny (UK)	flat	heb1272
		rising	heb1273
		falling	heb1274
pence	pence (UK)	flat	heb1276
		rising	heb1277
		falling	heb1278
ayro	euro (Euro)	flat	heb1280
		rising	heb1281
		falling	heb1282
ayro	euros (Euro)	flat	heb1284
		rising	heb1285
		falling	heb1286
sent ayro	eurocent (Euro)	flat	heb1288
		rising	heb1289
		falling	heb1290
sent ayro	eurocents (Euro)	flat	heb1292
		rising	heb1293
		falling	heb1294
frank	franc (France)	flat	heb1296
		rising	heb1297
		falling	heb1298

Hebrew audio (Sheet 17 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
frankeem	francs (France)	flat	heb1300
		rising	heb1301
		falling	heb1302
senteem	centime (France)	flat	heb1304
		rising	heb1305
		falling	heb1306
senteemeem	centimes (France)	flat	heb1308
		rising	heb1309
		falling	heb1310
peseta	peseta (Spain)	flat	heb1312
		rising	heb1313
		falling	heb1314
pesetas	pesetas (Spain)	flat	heb1316
		rising	heb1317
		falling	heb1318
peso	peso (Phillipines)	flat	heb1328
		rising	heb1329
		falling	heb1330
pesos	pesos (Phillipines)	flat	heb1332
		rising	heb1333
		falling	heb1334
centavo	centavo (Phillipines)	flat	heb1336
		rising	heb1337
		falling	heb1338
centavos	centavos (Phillipines)	flat	heb1340
		rising	heb1341
		falling	heb1342

Hebrew audio (Sheet 18 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
ringgit	ringgit (Malaysia)	flat	heb1344
		rising	heb1345
		falling	heb1346
ringgits	ringgits (Malaysia)	flat	heb1348
		rising	heb1349
		falling	heb1350
sen	sen (Malaysia)	flat	heb1352
		rising	heb1353
		falling	heb1354
sens	sens (Malaysia)	flat	heb1356
		rising	heb1357
		falling	heb1358
baht	baht (Thailand)	flat	heb1360
		rising	heb1361
		falling	heb1362
bahts	bahts (Thailand)	flat	heb1364
		rising	heb1365
		falling	heb1366
satang	satang (Thailand)	flat	heb1368
		rising	heb1369
		falling	heb1370
satangs	satangs (Thailand)	flat	heb1372
		rising	heb1373
		falling	heb1374
won	won (Korea)	flat	heb1376
		rising	heb1377
		falling	heb1378

Hebrew audio (Sheet 19 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
wons	wons	flat	heb1380
	(Korea)	rising	heb1381
		falling	heb1382
franc	franc	flat	heb1384
	(Belgium)	rising	heb1385
		falling	heb1386
francs	francs	flat	heb1388
	(Belgium)	rising	heb1389
		falling	heb1390
centime	centime	flat	heb1392
	(Belgium)	rising	heb1393
		falling	heb1394
centimes	centimes	flat	heb1396
	(Belgium)	rising	heb1397
		falling	heb1398
dollar	dollar	flat	heb1400
	(Canada)	rising	heb1401
		falling	heb1402
dollars	dollars	flat	heb1404
	(Canada)	rising	heb1405
		falling	heb1406
cent	cent	flat	heb1408
	(Canada)	rising	heb1409
		falling	heb1410
cents	cents	flat	heb1412
	(Canada)	rising	heb1413
		falling	heb1414

Hebrew audio (Sheet 20 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar (Hong Kong)	flat	heb1416
		rising	heb1417
		falling	heb1418
dollars	dollars (Hong Kong)	flat	heb1420
		rising	heb1421
		falling	heb1422
cent	cent (Hong Kong)	flat	heb1424
		rising	heb1425
		falling	heb1426
cents	cents (Hong Kong)	flat	heb1428
		rising	heb1429
		falling	heb1430
gok	gok (Hong Kong)	flat	heb1488
		rising	heb1489
		falling	heb1490
Goks	goks (Hong Kong)	flat	heb1492
		rising	heb1493
		falling	heb1494
escudo	escudo (Portugal)	flat	heb1432
		rising	heb1433
		falling	heb1434
escudos	escudos (Portugal)	flat	heb1436
		rising	heb1437
		falling	heb1438
centavo	centavo (Portugal)	flat	heb1440
		rising	heb1441
		falling	heb1442

Hebrew audio (Sheet 21 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
centavos	centavos	flat	heb1444
	(Portugal)	rising	heb1445
		falling	heb1446
yuan	yuan	flat	heb1448
	(China)	rising	heb1449
		falling	heb1450
yuans	yuans	flat	heb1452
	(China)	rising	heb1453
		falling	heb1454
jiao	jiao	flat	heb1456
	(China)	rising	heb1457
		falling	heb1458
jiaos	jiaos	flat	heb1460
	(China)	rising	heb1461
		falling	heb1462
fen	fen	flat	heb1464
	(China)	rising	heb1465
		falling	heb1466
fens	fens	flat	heb1468
	(China)	rising	heb1469
		falling	heb1470
pound	pound	flat	heb1472
	(Ireland)	rising	heb1473
		falling	heb1474
pounds	pounds	flat	heb1476
	(Ireland)	rising	heb1477
		falling	heb1478

Hebrew audio (Sheet 22 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
penny	penny (Ireland)	flat	heb1480
		rising	heb1481
		falling	heb1482
pence	pence (Ireland)	flat	heb1484
		rising	heb1485
		falling	heb1486
shekel	shekel (Israel)	flat	heb4000
		rising	heb4001
		falling	heb4002
shekeleem	shekels (Israel)	flat	heb4004
		rising	heb4005
		falling	heb4006
agoro	agoro (Israel)	flat	heb4008
		rising	heb4009
		falling	heb4010
agorot	agoros (Israel)	flat	heb4012
		rising	heb4013
		falling	heb4014
koruna	koruna (Czech)	flat	heb4016
		rising	heb4017
		falling	heb4018
korunas	korunas (Czech)	flat	heb4020
		rising	heb4021
		falling	heb4022
haleru	haleru (Czech)	flat	heb4024
		rising	heb4025
		falling	heb1426

Hebrew audio (Sheet 23 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
halerus	halerus (Czech)	flat	heb4028
		rising	heb4029
		falling	heb4030
lira	lira (Turkey)	flat	heb4032
		rising	heb4033
		falling	heb4034
lire	lire (Turkey)	flat	heb4036
		rising	heb4037
		falling	heb4038
drachma	drachma (Greece)	flat	heb4040
		rising	heb4041
		falling	heb4042
drachmas	drachmas (Greece)	flat	heb4044
		rising	heb4045
		falling	heb4046
dong	dong (Vietnam)	flat	heb4048
		rising	heb4049
		falling	heb4050
dongs	dongs (Vietnam)	flat	heb4052
		rising	heb4053
		falling	heb4054
rupee	rupee (India)	flat	heb4056
		rising	heb4057
		falling	heb4058
rupees	rupees (India)	flat	heb4060
		rising	heb4061
		falling	heb4062

Hebrew audio (Sheet 24 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
paisa	paisa (India)	flat	heb4064
		rising	heb4065
		falling	heb4066
paisas	paisas (India)	flat	heb4068
		rising	heb4069
		falling	heb4070
akhat	one (fem.)	flat	heb920
		rising	heb921
		falling	heb922
shta'yem	two (fem.)	flat	heb924
		rising	heb925
		falling	heb926
shalosh	three (fem.)	flat	heb928
		rising	heb929
		falling	heb930
arba	four (fem.)	flat	heb932
		rising	heb933
		falling	heb934
khamaysh	five (fem.)	flat	heb936
		rising	heb937
		falling	heb938
shaysh	six (fem.)	flat	heb940
		rising	heb941
		falling	heb942
sheva	seven (fem.)	flat	heb944
		rising	heb945
		falling	heb946

Hebrew audio (Sheet 25 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
shmone	eight (fem.)	flat	heb948
		rising	heb949
		falling	heb950
'taysha	nine (fem.)	flat	heb952
		rising	heb953
		falling	heb954
'eser	ten (fem.)	flat	heb956
		rising	heb957
		falling	heb958
akhat esray	eleven (fem.)	flat	heb960
		rising	heb961
		falling	heb962
shtaym esray	twelve (fem.)	flat	heb964
		rising	heb965
		falling	heb966
shlosh esray	thirteen (fem.)	flat	heb968
		rising	heb969
		falling	heb970
arba esray	fourteen (fem.)	flat	heb972
		rising	heb973
		falling	heb974
khamaysh esray	fifteen (fem.)	flat	heb976
		rising	heb977
		falling	heb978
shaysh esray	sixteen (fem.)	flat	heb980
		rising	heb981
		falling	heb982

Hebrew audio (Sheet 26 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
shva esray	seventeen (fem.)	flat	heb984
		rising	heb985
		falling	heb986
shmone esray	eighteen (fem.)	flat	heb988
		rising	heb989
		falling	heb990
tsha esray	nineteen (fem.)	flat	heb992
		rising	heb993
		falling	heb994
ha-reeshona	first (fem.)	flat	heb996
		rising	heb997
		falling	heb998
ha-sheneeya	second (fem.)	flat	heb1000
		rising	heb1001
		falling	heb1002
ha-shleesheet	third (fem.)	flat	heb1004
		rising	heb1005
		falling	heb1006
ha-revee'eet	fourth (fem.)	flat	heb1008
		rising	heb1009
		falling	heb1010
ha-khameesheet	fifth (fem.)	flat	heb1012
		rising	heb1013
		falling	heb1014
ha-sheesheet	sixth (fem.)	flat	heb1016
		rising	heb1017
		falling	heb1018

Hebrew audio (Sheet 27 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
ha-shvee'eet	seventh (fem.)	flat	heb1020
		rising	heb1021
		falling	heb1022
ha-shmeeneet	eighth (fem.)	flat	heb1024
		rising	heb1025
		falling	heb1026
ha-tshee'eet	ninth (fem.)	flat	heb1028
		rising	heb1029
		falling	heb1030
ha-aseereet	tenth (fem.)	flat	heb1032
		rising	heb1033
		falling	heb1034
oo	and (appearing before consonant)	flat	heb1036
		rising	heb1037
		falling	heb1038
va	and (appearing before consonant)	flat	heb1040
		rising	heb1041
		falling	heb1042
be	in	flat	heb1044
		rising	heb1045
		falling	heb1046
ha	rank	flat	heb1048
		rising	heb1049
		falling	heb1050
sha'atayim	2 hours	flat	heb1052
		rising	heb1053
		falling	heb1054

Hebrew audio (Sheet 28 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
shtay	two	flat	heb1056
	(for 2 minutes)	rising	heb1057
		falling	heb1058
shnay	two	flat	heb1060
	(for 2 billion/million)	rising	heb1061
		falling	heb1062
khatzot	midnight	flat	heb1064
		rising	heb1065
		falling	heb1066
tzahara'yim	noon	flat	heb1068
		rising	heb1069
		falling	heb1070
lifnot boker	before morning (1 a.m. - 5 a.m.)	flat	heb1072
		rising	heb1073
		falling	heb1074
ba-erev	in the evening (6 p.m. - 8 p.m.)	flat	heb1076
		rising	heb1077
		falling	heb1078
ba-layla	in the night (9 p.m. - 11 p.m.)	flat	heb1080
		rising	heb1081
		falling	heb1082
va-reva	and quarter	flat	heb1084
		rising	heb1085
		falling	heb1086

Hebrew audio (Sheet 29 of 29)

Hebrew phrase or English equivalent	English	Phrase intonation	File name
va-khaytzi	and half	flat	heb1088
		rising	heb1089
		falling	heb1090
aseret alafim	ten-thousand	flat	heb1092
		rising	heb1093
		falling	heb1094

Italian audio files

Note 1: Audio file names ita508–ita610, ita896–ita898, and ita900–ita902 are optional. Record the audio if the user provisions the strings functionality on the system.

Note 2: Record audio file names ita728–ita1978 if the user provisions ordinal numbers on the system.

Note 3: Use audio file names ita728–ita762 and ita1200–ita1278 when this number is the entire number.

Note 4: Use audio file names ita1856–ita1890 and ita1980–ita2014 when this number is part of a larger number.

Note 5: Record audio file names ita1200–ita1278 if the user provisions currency on the system.

Note 6: Record audio file names ita1596–ita1610 if the user provisions the 12-hour clock.

Italian audio (Sheet 1 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
zero	zero	flat	ita0
		rising	ita1
		falling	ita2
uno	one (neutral - counting)	flat	ita8
		rising	ita9
		falling	ita10
due	two	flat	ita12
		rising	ita13
		falling	ita14
tre	three	flat	ita16
		rising	ita17
		falling	ita18

Italian audio (Sheet 2 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
quattro	four	flat	ita20
		rising	ita21
		falling	ita22
cinque	five	flat	ita24
		rising	ita25
		falling	ita26
sei	six	flat	ita28
		rising	ita29
		falling	ita30
sette	seven	flat	ita32
		rising	ita33
		falling	ita34
otto	eight	flat	ita36
		rising	ita37
		falling	ita38
nove	nine	flat	ita40
		rising	ita41
		falling	ita42
dieci	ten	flat	ita56
		rising	ita57
		falling	ita58
undici	eleven	flat	ita60
		rising	ita61
		falling	ita62
dodici	twelve	flat	ita64
		rising	ita65
		falling	ita66

Italian audio (Sheet 3 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
tredici	thirteen	flat	ita68
		rising	ita69
		falling	ita70
quattordici	fourteen	flat	ita72
		rising	ita73
		falling	ita74
quindici	fifteen	flat	ita76
		rising	ita77
		falling	ita78
sixteen	sedici	flat	ita80
		rising	ita81
		falling	ita82
diciassette	seventeen	flat	ita84
		rising	ita85
		falling	ita86
diciotto	eighteen	flat	ita88
		rising	ita89
		falling	ita90
diciannove	nineteen	flat	ita92
		rising	ita93
		falling	ita94
venti	twenty	flat	ita96
		rising	ita97
		falling	ita98
trenta	thirty	flat	ita100
		rising	ita101
		falling	ita102

Italian audio (Sheet 4 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
quaranta	forty	flat	ita104
		rising	ita105
		falling	ita106
cinquanta	fifty	flat	ita108
		rising	ita109
		falling	ita110
sessenta	sixty	flat	ita112
		rising	ita113
		falling	ita114
settanta	seventy	flat	ita116
		rising	ita117
		falling	ita118
ottanta	eighty	flat	ita120
		rising	ita121
		falling	ita122
novanta	ninety	flat	ita124
		rising	ita125
		falling	ita126
cento	one-hundred	flat	ita132
		rising	ita133
		falling	ita134
duecento	two-hundred	flat	ita136
		rising	ita137
		falling	ita138
trecento	three-hundred	flat	ita140
		rising	ita141
		falling	ita142

Italian audio (Sheet 5 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
quattrocento	four-hundred	flat	ita144
		rising	ita145
		falling	ita146
cinquecento	five-hundred	flat	ita148
		rising	ita149
		falling	ita150
seicento	six-hundred	flat	ita152
		rising	ita153
		falling	ita154
settecento	seven-hundred	flat	ita156
		rising	ita157
		falling	ita158
ottocento	eight-hundred	flat	ita160
		rising	ita161
		falling	ita162
novecento	nine-hundred	flat	ita164
		rising	ita165
		falling	ita166
ventuno	twenty-one	flat	ita208
		rising	ita209
		falling	ita210
ventidue	twenty-two	flat	ita212
		rising	ita213
		falling	ita214
ventitre	twenty-three	flat	ita216
		rising	ita217
		falling	ita218

Italian audio (Sheet 6 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
ventiquattro	twenty-four	flat	ita220
		rising	ita221
		falling	ita222
venticinque	twenty-five	flat	ita224
		rising	ita225
		falling	ita226
ventisei	twenty-six	flat	ita228
		rising	ita229
		falling	ita230
ventisette	twenty-seven	flat	ita232
		rising	ita233
		falling	ita234
ventiotto	twenty-eight	flat	ita236
		rising	ita237
		falling	ita238
ventinove	twenty-nine	flat	ita240
		rising	ita241
		falling	ita242
trentuno	thirty-one	flat	ita244
		rising	ita245
		falling	ita246
quarantuno	forty-one	flat	ita280
		rising	ita281
		falling	ita282
cinquantuno	fifty-one	flat	ita316
		rising	ita317
		falling	ita318

Italian audio (Sheet 7 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
sessantuno	sixty-one	flat	ita352
		rising	ita353
		falling	ita354
settantuno	seventy-one	flat	ita388
		rising	ita389
		falling	ita390
ottantuno	eighty-one	flat	ita424
		rising	ita425
		falling	ita426
novantuno	ninety-one	flat	ita460
		rising	ita461
		falling	ita462
un	one (masculine)	flat	ita1520
		rising	ita1521
		falling	ita1522
ventun	twenty-one (masculine)	flat	ita1524
		rising	ita1525
		falling	ita1526
trentun	thirty-one (masculine)	flat	ita1528
		rising	ita1529
		falling	ita1530
quarantun	forty-one (masculine)	flat	ita1532
		rising	ita1533
		falling	ita1534
cinquantun	fifty-one (masculine)	flat	ita1536
		rising	ita1537
		falling	ita1538

Italian audio (Sheet 8 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
sessantun	sixty-one	flat	ita1540
	(masculine)	rising	ita1541
		falling	ita1542
settantun	seventy-one	flat	ita1544
	(masculine)	rising	ita1545
		falling	ita1546
ottantun	eighty-one	flat	ita1548
	(masculine)	rising	ita1549
		falling	ita1550
novantun	ninety-one	flat	ita1552
	(masculine)	rising	ita1553
		falling	ita1554
una	one	flat	ita1556
	(feminine)	rising	ita1557
		falling	ita1558
ventuna	twenty-one	flat	ita1560
	(feminine)	rising	ita1561
		falling	ita1562
trentuna	thirty-one	flat	ita1564
	(feminine)	rising	ita1565
		falling	ita1566
quarantuna	forty-one	flat	ita1568
	(feminine)	rising	ita1569
		falling	ita1570
cinquantuna	fifty-one	flat	ita1572
	(feminine)	rising	ita1573
		falling	ita1574

Italian audio (Sheet 9 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
sessantuna	sixty-one (feminine)	flat	ita1576
		rising	ita1577
		falling	ita1578
settantuna	seventy-one (feminine)	flat	ita1580
		rising	ita1581
		falling	ita1582
ottantuna	eighty-one (feminine)	flat	ita1584
		rising	ita1585
		falling	ita1586
novantuna	ninety-one (feminine)	flat	ita1588
		rising	ita1589
		falling	ita1590
trentotto	thirty-eight	flat	ita272
		rising	ita273
		falling	ita274
quarantotto	forty-eight	flat	ita308
		rising	ita309
		falling	ita310
cinquantotto	fifty-eight	flat	ita344
		rising	ita345
		falling	ita346
sessantotto	sixty-eight	flat	ita380
		rising	ita381
		falling	ita382
settantotto	seventy-eight	flat	ita416
		rising	ita417
		falling	ita418

Italian audio (Sheet 10 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
ottantotto	eighty-eight	flat	ita452
		rising	ita453
		falling	ita454
novantotto	ninety-eight	flat	ita488
		rising	ita489
		falling	ita490
mille	thousand (one, singular)	flat	ita172
		rising	ita173
		falling	ita174
mila	thousand (plural)	flat	ita1500
		rising	ita1501
		falling	ita1502
duemila	two-thousand	flat	ita176
		rising	ita177
		falling	ita178
tremila	three-thousand	flat	ita180
		rising	ita181
		falling	ita182
quattromila	four-thousand	flat	ita184
		rising	ita185
		falling	ita186
cinquemila	five-thousand	flat	ita188
		rising	ita189
		falling	ita190
seimila	six-thousand	flat	ita192
		rising	ita193
		falling	ita194

Italian audio (Sheet 11 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
settemila	seven-thousand	flat	ita196
		rising	ita197
		falling	ita198
ottomila	eight-thousand	flat	ita200
		rising	ita201
		falling	ita202
novemila	nine-thousand	flat	ita204
		rising	ita205
		falling	ita206
milione	million (singular)	flat	ita500
		rising	ita501
		falling	ita502
milioni	million (plural)	flat	ita1504
		rising	ita1505
		falling	ita1506
miliardo	billion (singular)	flat	ita504
		rising	ita505
		falling	ita506
miliardi	billion (plural)	flat	ita1508
		rising	ita1509
		falling	ita1510
optional	a	flat	ita508
		rising	ita509
		falling	ita510
optional	b	flat	ita512
		rising	ita513
		falling	ita514

Italian audio (Sheet 12 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
optional	c	flat	ita516
		rising	ita517
		falling	ita518
optional	d	flat	ita520
		rising	ita521
		falling	ita522
optional	e	flat	ita524
		rising	ita525
		falling	ita526
optional	f	flat	ita528
		rising	ita529
		falling	ita530
optional	g	flat	ita532
		rising	ita533
		falling	ita534
optional	h	flat	ita536
		rising	ita537
		falling	ita538
optional	i	flat	ita540
		rising	ita541
		falling	ita542
optional	j	flat	its544
		rising	ita545
		falling	ita546
optional	k	flat	ita548
		rising	ita549
		falling	ita550

Italian audio (Sheet 13 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
optional	l	flat	ita552
		rising	ita553
		falling	ita554
optional	m	flat	ita556
		rising	ita557
		falling	ita558
optional	n	flat	ita560
		rising	ita561
		falling	ita562
optional	o	flat	ita564
		rising	ita565
		falling	ita566
optional	p	flat	ita568
		rising	ita569
		falling	ita570
optional	q	flat	ita572
		rising	ita573
		falling	ita574
optional	r	flat	ita576
		rising	ita577
		falling	ita578
optional	s	flat	ita580
		rising	ita581
		falling	ita582
optional	t	flat	ita584
		rising	ita585
		falling	ita586

Italian audio (Sheet 14 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
optional	u	flat	ita588
		rising	ita589
		falling	ita590
optional	v	flat	ita592
		rising	ita593
		falling	ita594
optional	w	flat	ita596
		rising	ita597
		falling	ita598
optional	x	flat	ita600
		rising	ita601
		falling	ita602
optional	y	flat	ita604
		rising	ita605
		falling	ita606
optional	z	flat	ita608
		rising	ita609
		falling	ita610
negativo	negative (singular)	flat	ita616
		rising	ita617
		falling	ita618
negativi	negative (plural)	flat	ita1512
		rising	ita1513
		falling	ita1514
e	and	flat	ita620
		rising	ita621
		falling	ita622

Italian audio (Sheet 15 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
ora	hour	flat	ita624
		rising	ita625
		falling	ita626
ore	hours	flat	ita628
		rising	ita629
		falling	ita630
minuto	minute	flat	ita632
		rising	ita633
		falling	ita634
minuti	minutes	flat	ita636
		rising	ita637
		falling	ita638
secondo	second	flat	ita640
		rising	ita641
		falling	ita642
secondi	seconds	flat	ita644
		rising	ita645
		falling	ita646
gennaio	January	flat	ita648
		rising	ita649
		falling	ita650
febbraio	February	flat	ita652
		rising	ita653
		falling	ita654
marzo	March	flat	ita656
		rising	ita657
		falling	ita658

Italian audio (Sheet 16 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
aprile	April	flat	ita660
		rising	ita661
		falling	ita662
maggio	May	flat	ita664
		rising	ita665
		falling	ita666
giugno	June	flat	ita668
		rising	ita669
		falling	ita670
luglio	July	flat	ita672
		rising	ita673
		falling	ita674
agosto	August	flat	ita676
		rising	ita677
		falling	ita678
settembre	September	flat	ita680
		rising	ita681
		falling	ita682
ottobre	October	flat	ita684
		rising	ita685
		falling	ita686
novembre	November	flat	ita688
		rising	ita689
		falling	ita690
dicembre	December	flat	ita692
		rising	ita693
		falling	ita694

Italian audio (Sheet 17 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
domenica	Sunday	flat	ita696
		rising	ita697
		falling	ita698
lunedì	Monday	flat	ita700
		rising	ita701
		falling	ita702
martedì	Tuesday	flat	ita704
		rising	ita705
		falling	ita706
mercoledì	Wednesday	flat	ita708
		rising	ita709
		falling	ita710
giovedì	Thursday	flat	ita712
		rising	ita713
		falling	ita714
venerdì	Friday	flat	ita716
		rising	ita717
		falling	ita718
sabato	Saturday	flat	ita720
		rising	ita721
		falling	ita722
primo	first	flat	ita728
	(masc, sing)	rising	ita729
		falling	ita730
secondo	second	flat	ita732
	(masc, sing)	rising	ita733
		falling	ita734

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Italian phrase or English equivalent	English	Phrase intonation	File name
terzo	third (masc, sing)	flat	ita736
		rising	ita737
		falling	ita738
quarto	fourth (masc, sing)	flat	ita740
		rising	ita741
		falling	ita742
quinto	fifth (masc, sing)	flat	ita744
		rising	ita745
		falling	ita746
sesto	sixth (masc, sing)	flat	ita748
		rising	ita749
		falling	ita750
settimo	seventh (masc, sing)	flat	ita752
		rising	ita753
		falling	ita754
ottavo	eighth (masc, sing)	flat	ita756
		rising	ita757
		falling	ita758
nono	ninth (masc, sing)	flat	ita760
		rising	ita761
		falling	ita762
decimo	tenth (masc, sing)	flat	ita764
		rising	ita765
		falling	ita766
undicesimo	eleventh (masc, sing)	flat	ita768
		rising	ita769
		falling	ita770

Italian audio (Sheet 19 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
dodicesimo	twelfth (masc, sing)	flat	ita772
		rising	ita773
		falling	ita774
tredicesimo	thirteenth (masc, sing)	flat	ita776
		rising	ita777
		falling	ita778
quattordicesimo	fourteenth (masc, sing)	flat	ita780
		rising	ita781
		falling	ita782
quindicesimo	fifteenth (masc, sing)	flat	ita784
		rising	ita785
		falling	ita786
sedicesimo	sixteenth (masc, sing)	flat	ita788
		rising	ita789
		falling	ita790
diciassettesimo	seventeenth (masc, sing)	flat	ita792
		rising	ita793
		falling	ita794
diciottesimo	eighteenth (masc, sing)	flat	ita796
		rising	ita797
		falling	ita798
diciannovesimo	nineteenth (masc, sing)	flat	ita800
		rising	ita801
		falling	ita802
ventesimo	twentieth (masc, sing)	flat	ita804
		rising	ita805
		falling	ita806

Italian audio (Sheet 20 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
trentesimo	thirtieth (masc, sing)	flat	ita808
		rising	ita809
		falling	ita810
quarantesimo	fortieth (masc, sing)	flat	ita812
		rising	ita813
		falling	ita814
cinquantesimo	fiftieth (masc, sing)	flat	ita816
		rising	ita817
		falling	ita818
sessantesimo	sixtieth (masc, sing)	flat	ita820
		rising	ita821
		falling	ita822
settantesimo	seventieth (masc, sing)	flat	ita824
		rising	ita825
		falling	ita826
ottantesimo	eightieth (masc, sing)	flat	ita828
		rising	ita829
		falling	ita830
novantesimo	ninetieth (masc, sing)	flat	ita832
		rising	ita833
		falling	ita834
centesimo	hundredth (masc, sing)	flat	ita836
		rising	ita837
		falling	ita838
millesimo	thousandth (masc, sing)	flat	ita872
		rising	ita873
		falling	ita874

Italian audio (Sheet 21 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
milionesimo	millionth	flat	ita880
	(masc, sing)	rising	ita881
		falling	ita882
miliardesimo	billionth	flat	ita888
	(masc, sing)	rising	ita889
		falling	ita890
primi	first	flat	ita1700
	(masc, plural)	rising	ita1701
		falling	ita1702
secondi	second	flat	ita1704
	(masc, plural)	rising	ita1705
		falling	ita1706
terzi	third	flat	ita1708
	(masc, plural)	rising	ita1709
		falling	ita1710
quarti	fourth	flat	ita1712
	(masc, plural)	rising	ita1713
		falling	ita1714
quinti	fifth	flat	ita1716
	(masc, plural)	rising	ita1717
		falling	ita1718
sesti	sixth	flat	ita1720
	(masc, plural)	rising	ita1721
		falling	ita1722
settimi	seventh	flat	ita1724
	(masc, plural)	rising	ita1725
		falling	ita1726

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Italian phrase or English equivalent	English	Phrase intonation	File name
ottavi	eighth	flat	ita1728
	(masc, plural)	rising	ita1729
		falling	ita1730
noni	ninth	flat	ita1732
	(masc, plural)	rising	ita1733
		falling	ita1734
decimi	tenth	flat	ita1736
	(masc, plural)	rising	ita1737
		falling	ita1738
prima	first	flat	ita1740
	(fem, sing)	rising	ita1741
		falling	ita1742
seconda	second	flat	ita1744
	(fem, sing)	rising	ita1745
		falling	ita1746
terza	third	flat	ita1748
	(fem, sing)	rising	ita1749
		falling	ita1750
quarta	fourth	flat	ita1752
	(fem, sing)	rising	ita1753
		falling	ita1754
quinta	fifth	flat	ita1756
	(fem, sing)	rising	ita1757
		falling	ita1758
sesta	sixth	flat	ita1760
	(fem, sing)	rising	ita1761
		falling	ita1762

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Italian phrase or English equivalent	English	Phrase intonation	File name
settima	seventh	flat	ita1764
	(fem, sing)	rising	ita1765
		falling	ita1766
ottava	eighth	flat	ita1768
	(fem, sing)	rising	ita1769
		falling	ita1770
nona	ninth	flat	ita1772
	(fem, sing)	rising	ita1773
		falling	ita1774
decima	tenth	flat	ita1776
	(fem, sing)	rising	ita1777
		falling	ita1778
prime	first	flat	ita1780
	(fem, plural)	rising	ita1781
		falling	ita1782
seconde	second	flat	ita1784
	(fem, plural)	rising	ita1785
		falling	ita1786
terze	third	flat	ita1788
	(fem, plural)	rising	ita1789
		falling	ita1790
quarte	fourth	flat	ita1792
	(fem, plural)	rising	ita1793
		falling	ita1794
quinte	fifth	flat	ita1796
	(fem, plural)	rising	ita1797
		falling	ita1798

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Italian phrase or English equivalent	English	Phrase intonation	File name
seste	sixth	flat	ita1800
	(fem, plural)	rising	ita1801
		falling	ita1802
settime	seventh	flat	ita1804
	(fem, plural)	rising	ita1805
		falling	ita1806
ottave	eighth	flat	ita1808
	(fem, plural)	rising	ita1809
		falling	ita1810
none	ninth	flat	ita1812
	(fem, plural)	rising	ita1813
		falling	ita1814
decime	tenth	flat	ita1816
	(fem, plural)	rising	ita1817
		falling	ita1818
unesimo	first	flat	ita1820
	(masc, sing)	rising	ita1821
		falling	ita1822
duesimo	second	flat	ita1824
	(masc, sing)	rising	ita1825
		falling	ita1826
treesimo	third	flat	ita1828
	(masc, sing)	rising	ita1829
		falling	ita1830
quatresimo	fourth	flat	ita1832
	(masc, sing)	rising	ita1833
		falling	ita1834

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Italian phrase or English equivalent	English	Phrase intonation	File name
cinquesimo	fifth	flat	ita1836
	(masc, sing)	rising	ita1837
		falling	ita1838
seiesimo	sixth	flat	ita1840
	(masc, sing)	rising	ita1841
		falling	ita1842
settesimo	seventh	flat	ita1844
	(masc, sing)	rising	itat1845
		falling	ita1846
ottesimo	eighth	flat	ita1848
	(masc, sing)	rising	ita1849
		falling	ita1850
novesimo	ninth	flat	ita1852
	(masc, sing)	rising	ita1853
		falling	ita1854
unesimi	first	flat	ita1856
	(masc, plural) used as part of other numbers	rising	ita1857
		falling	ita1858
duesimi	second	flat	ita1860
	(masc, plural)	rising	ita1861
		falling	ita1862
treesimi	third	flat	ita1864
	(masc, plural)	rising	ita1865
		falling	ita1866
quatresimi	fourth	flat	ita1868
	(masc, plural)	rising	ita1869
		falling	ita1870

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Italian phrase or English equivalent	English	Phrase intonation	File name
cinquesimi	fifth	flat	ita1872
	(masc, plural)	rising	ita1873
		falling	ita1874
seiesimi	sixth	flat	ita1876
	(masc, plural)	rising	ita1877
		falling	ita1878
settesimi	seventh	flat	ita1880
	(masc, plural)	rising	ita1881
		falling	ita1882
ottesimi	eighth	flat	ita1884
	(masc, plural)	rising	ita1885
		falling	ita1886
novesimi	ninth	flat	ita1888
	(masc, plural)	rising	ita1889
		falling	ita1890
undicesimi	eleventh	flat	ita1896
	(masc, plural)	rising	ita1897
		falling	ita1898
dodicesimi	twelfth	flat	ita1900
	(masc, plural)	rising	ita1901
		falling	ita1902
tredecimesimi	thirteenth	flat	ita1904
	(masc, plural)	rising	ita1905
		falling	ita1906
quattordicesi	fourteenth	flat	ita1908
	(masc, plural)	rising	ita1909
		falling	ita1910

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Italian phrase or English equivalent	English	Phrase intonation	File name
quindicesimi	fifteenth (masc, plural)	flat	ita1912
		rising	ita1913
		falling	ita1914
sedicesimi	sixteenth (masc, plural)	flat	ita1916
		rising	ita1917
		falling	ita1918
diciassettesimi	seventeenth (masc, plural)	flat	ita1920
		rising	ita1921
		falling	ita1922
diciottesimi	eighteenth (masc, plural)	flat	ita1924
		rising	ita1925
		falling	ita1926
diciannovesimi	nineteenth (masc, plural)	flat	ita1928
		rising	ita1929
		falling	ita1930
ventesimi	twentieth (masc, plural)	flat	ita1932
		rising	ita1933
		falling	ita1934
trentesimi	thirtieth (masc, plural)	flat	ita1936
		rising	ita1937
		falling	ita1938
quarantesimi	fortieth (masc, plural)	flat	ita1940
		rising	ita1941
		falling	ita1942
cinquantesimi	fiftieth (masc, plural)	flat	ita1944
		rising	ita1945
		falling	ita1946

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Italian phrase or English equivalent	English	Phrase intonation	File name
sessantesimi	sixtieth	flat	ita1948
	(masc, plural)	rising	ita1949
		falling	ita1950
settantesimi	seventieth	flat	ita1952
	(masc, plural)	rising	ita1953
		falling	ita1954
ottantesimi	eightieth	flat	ita1956
	(masc, plural)	rising	ita1957
		falling	ita1958
novantesimi	nintieth	flat	ita1960
	(masc, plural)	rising	ita1961
		falling	ita1962
centesimi	hundredth	flat	ita1964
	(masc, plural)	rising	ita1965
		falling	ita1966
millesimi	thousandth	flat	ita1968
	(masc, plural)	rising	ita1969
		falling	ita1970
millionesimi	millionth	flat	ita1972
	(masc, plural)	rising	ita1973
		falling	ita1974
billionesimi	billionth	flat	ita1976
	(masc, plural)	rising	ita1977
		falling	ita1978
unesima	first	flat	ita1980
	(fem, sing)	rising	ita1981
		falling	ita1982

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Italian phrase or English equivalent	English	Phrase intonation	File name
duesima	second	flat	ita1984
	(fem, sing)	rising	ita1985
		falling	ita1986
treesima	third	flat	ita1988
	(fem, sing)	rising	ita1989
		falling	ita1990
quattresima	fourth	flat	ita1992
	(fem, sing)	rising	ita1993
		falling	ita1994
cinquesima	fifth	flat	ita1996
	(fem, sing)	rising	ita1997
		falling	ita1998
seiesima	sixth	flat	ita2000
	(fem, sing)	rising	ita2001
		falling	ita2002
settesima	seventh	flat	ita2004
	(fem, sing)	rising	ita2005
		falling	ita2006
ottesima	eighth	flat	ita2008
	(fem, sing)	rising	ita2009
		falling	ita2010
novesima	ninth	flat	ita2012
	(fem, sing)	rising	ita2013
		falling	ita2014
undicesima	eleventh	flat	ita2020
	(fem, sing)	rising	ita2021
		falling	ita2022

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Italian phrase or English equivalent	English	Phrase intonation	File name
dodicesima	twelfth (fem, sing)	flat	ita2024
		rising	ita2025
		falling	ita2026
tredicesima	thirteenth (fem, sing)	flat	ita2028
		rising	ita2029
		falling	ita2030
quattordicesima	fourteenth (fem, sing)	flat	ita2032
		rising	ita2033
		falling	ita2034
quindicesima	fifteenth (fem, sing)	flat	ita2036
		rising	ita2037
		falling	ita2038
sedicesima	sixteenth (fem, sing)	flat	ita2040
		rising	ita2041
		falling	ita2042
diciassettesima	seventeenth (fem, sing)	flat	ita2044
		rising	ita2045
		falling	ita2046
diciottesima	eighteenth (fem, sing)	flat	ita2048
		rising	ita2049
		falling	ita2050
diciannovesima	nineteenth (fem, sing)	flat	ita2052
		rising	ita2053
		falling	ita2054
ventesima	twentieth (fem, sing)	flat	ita2056
		rising	ita2057
		falling	ita2058

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Italian phrase or English equivalent	English	Phrase intonation	File name
trentesima	thirtieth (fem, sing)	flat	ita2060
		rising	ita2061
		falling	ita2062
quarantesima	fortieth (fem, sing)	flat	ita2064
		rising	ita2065
		falling	ita2066
cinquantesima	fiftieth (fem, sing)	flat	ita2068
		rising	ita2069
		falling	ita2070
sessantesima	sixtieth (fem, sing)	flat	ita2072
		rising	ita2073
		falling	ita2074
settantesima	seventieth (fem, sing)	flat	ita2076
		rising	ita2077
		falling	ita2078
ottantesima	eightieth (fem, sing)	flat	ita2080
		rising	ita2081
		falling	ita2082
novantessima	nintieth (fem, sing)	flat	ita2084
		rising	ita2085
		falling	ita2086
centesima	hundredth (fem, sing)	flat	ita2088
		rising	ita2089
		falling	ita2090
millesima	thousandth (fem, sing)	flat	ita2092
		rising	ita2093
		falling	ita2094

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Italian phrase or English equivalent	English	Phrase intonation	File name
millionesima	millionth (fem, sing)	flat	ita2096
		rising	ita2097
		falling	ita2098
billionesima	billionth (fem, sing)	flat	ita2100
		rising	ita2101
		falling	ita2102
unesime	first (plural, fem)	flat	ita2104
		rising	ita2105
		falling	ita2106
duesime	secondth (plural, fem)	flat	ita2108
		rising	ita2109
		falling	ita2110
treesime	third (plural, fem)	flat	ita2112
		rising	ita2113
		falling	ita2114
quatresime	fourth (plural, fem)	flat	ita2116
		rising	ita2117
		falling	ita2118
cinquesime	fifth (plural, fem)	flat	ita2120
		rising	ita2121
		falling	ita2122
seiesime	sixth (plural, fem)	flat	ita2124
		rising	ita2125
		falling	ita2126
settesime	seventh (plural, fem)	flat	ita2128
		rising	ita2129
		falling	ita2130

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Italian phrase or English equivalent	English	Phrase intonation	File name
ottesime	eighth (plural, fem)	flat	ita2132
		rising	ita2133
		falling	ita2134
novesime	ninth (plural, fem)	flat	ita2136
		rising	ita2137
		falling	ita2138
undicesime	eleventh (plural, fem)	flat	ita2144
		rising	ita2145
		falling	ita2146
dodicesime	twelfth (plural, fem)	flat	ita2148
		rising	ita2149
		falling	ita2150
tredecimesime	thirteenth (plural, fem)	flat	ita2152
		rising	ita2153
		falling	ita2154
quattordicesime	fourteenth (plural, fem)	flat	ita2156
		rising	ita2157
		falling	ita2158
quindicesime	fifteenth (plural, fem)	flat	ita2160
		rising	ita2161
		falling	ita2162
sedicesime	sixteenth (plural, fem)	flat	ita2164
		rising	ita2165
		falling	ita2166
diciassettesime	seventeenth (plural, fem)	flat	ita2168
		rising	ita2169
		falling	ita2170

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Italian phrase or English equivalent	English	Phrase intonation	File name
diciottesime	eighteenth (plural, fem)	flat	ita2172
		rising	ita2173
		falling	ita2174
diciannovesime	nineteenth (plural, fem)	flat	ita2176
		rising	ita2177
		falling	ita2178
ventesime	twentieth (plural, fem)	flat	ita2180
		rising	ita2181
		falling	ita2182
trentesime	thirtieth (plural, fem)	flat	ita2184
		rising	ita2185
		falling	ita2186
quarantesime	fortieth (plural, fem)	flat	ita2188
		rising	ita2189
		falling	ita2190
cinquantesime	fiftieth (plural, fem)	flat	ita2192
		rising	ita2193
		falling	ita2194
sessantesime	sixtieth (plural, fem)	flat	ita2196
		rising	ita2197
		falling	ita2198
settantesime	seventieth (plural, fem)	flat	ita2200
		rising	ita2201
		falling	ita2202
ottantesime	eightieth (plural, fem)	flat	ita2204
		rising	ita2205
		falling	ita2206

Italian audio (Sheet 35 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
novantesime	ninetieth (plural, fem)	flat	ita2208
		rising	ita2209
		falling	ita2210
centesime	hundredth (plural, fem)	flat	ita2212
		rising	ita2213
		falling	ita2214
millesime	thousandth (plural, fem)	flat	ita2216
		rising	ita2217
		falling	ita2218
millesimesime	millionth (plural, fem)	flat	ita2220
		rising	ita2221
		falling	ita2222
billionesime	billionth (plural, fem)	flat	ita2224
		rising	ita2225
		falling	ita2226
quadrato	pound sign (#)	flat	ita896
		rising	ita897
		falling	ita898
stella	asterisk (*)	flat	ita900
		rising	ita901
		falling	ita902
dollar	dollar (US)	flat	ita1200
		rising	ita1201
		falling	ita1202
dollars	dollars (US)	flat	ita1204
		rising	ita1205
		falling	ita1206

Italian audio (Sheet 36 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
cent	cent	flat	ita1208
	(US)	rising	ita1209
		falling	ita1210
cents	cents	flat	ita1212
	(US)	rising	ita1213
		falling	ita1214
mark	mark	flat	ita1216
	(Germany)	rising	ita1217
		falling	ita1218
marks	marks	flat	ita1220
	(Germany)	rising	ita1221
		falling	ita1222
pfennig	pfennig	flat	ita1224
	(Germany)	rising	ita1225
		falling	ita1226
pfennigs	pfennigs	flat	ita1228
	(Germany)	rising	ita1229
		falling	ita1230
yen	yen	flat	ita1232
	(Japan)	rising	ita1233
		falling	ita1234
yens	yens	flat	ita1236
	(Japan)	rising	ita1237
		falling	ita1238
lira	lira	flat	ita1240
	(Italy)	rising	ita1241
		falling	ita1242

Italian audio (Sheet 37 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
liras	liras (Italy)	flat	ita1244
		rising	ita1245
		falling	ita1246
guilder	guilder (Netherlands)	flat	ita1248
		rising	ita1249
		falling	ita1250
guilders	guilders (Netherlands)	flat	ita1252
		rising	ita1253
		falling	ita1254
cent	cent (Netherlands)	flat	ita1256
		rising	ita1257
		falling	ita1258
cents	cents (Netherlands)	flat	ita1260
		rising	ita1261
		falling	ita1262
pound	pound (UK)	flat	ita1264
		rising	ita1265
		falling	ita1266
pounds	pounds (UK)	flat	ita1268
		rising	ita1269
		falling	ita1270
penny	penny (UK)	flat	ita1272
		rising	ita1273
		falling	ita1274
pence	pence (UK)	flat	ita1276
		rising	ita1277
		falling	ita1278

Italian audio (Sheet 38 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
euro	euro	flat	ita1280
	(Euro)	rising	ita1281
		falling	ita1282
euros	euros	flat	ita1284
	(Euro)	rising	ita1285
		falling	ita1286
eurocent	eurocent	flat	ita1288
	(Euro)	rising	ita1289
		falling	ita1290
eurocents	eurocents	flat	ita1292
	(Euro)	rising	ita1293
		falling	ita1294
franc	franc	flat	ita1296
	(France)	rising	ita1297
		falling	ita1298
francs	francs	flat	ita1300
	(France)	rising	ita1301
		falling	ita1302
centime	centime	flat	ita1304
	(France)	rising	ita1305
		falling	ita1306
centimes	centimes	flat	ita1308
	(France)	rising	ita1309
		falling	ita1310
peseta	peseta	flat	ita1312
	(Spain)	rising	ita1313
		falling	ita1314

Italian audio (Sheet 39 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
pesetas	pesetas (Spain)	flat	ita1316
		rising	ita1317
		falling	ita1318
peso	peso (Philippines)	flat	ita1328
		rising	ita1329
		falling	ita1330
pesos	pesos (Philippines)	flat	ita1332
		rising	ita1333
		falling	ita1334
centavo	centavo (Philippines)	flat	ita1336
		rising	ita1337
		falling	ita1338
centavos	centavos (Philippines)	flat	ita1340
		rising	ita1341
		falling	ita1342
ringgit	ringgit (Malaysia)	flat	ita1344
		rising	ita1345
		falling	ita1346
ringgits	ringgits (Malaysia)	flat	ita1348
		rising	ita1349
		falling	ita1350
sen	sen (Malaysia)	flat	ita1352
		rising	ita1353
		falling	ita1354
sens	sens (Malaysia)	flat	ita1356
		rising	ita1357
		falling	ita1358

Italian audio (Sheet 40 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
baht	baht (Thailand)	flat	ita1360
		rising	ita1361
		falling	ita1362
bahts	bahts (Thailand)	flat	ita1364
		rising	ita1365
		falling	ita1366
satang	satang (Thailand)	flat	ita1368
		rising	ita1369
		falling	ita1370
satangs	satangs (Thailand)	flat	ita1372
		rising	ita1373
		falling	ita1374
won	won (Korea)	flat	ita1376
		rising	ita1377
		falling	ita1378
wons	wons (Korea)	flat	ita1380
		rising	ita1381
		falling	ita1382
franc	franc (Belgium)	flat	ita1384
		rising	ita1385
		falling	ita1386
francs	francs (Belgium)	flat	ita 1388
		rising	ita1389
		falling	ita1390
centime	centime (Belgium)	flat	ita1392
		rising	ita1393
		falling	ita1394

Italian audio (Sheet 41 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
centimes	centimes (Belgium)	flat	ita1396
		rising	ita1397
		falling	ita1398
dollar	dollar (Canada)	flat	ita1400
		rising	ita1401
		falling	ita1402
dollars	dollars (Canada)	flat	ita1404
		rising	ita1405
		falling	ita1406
cent	cent (Canada)	flat	ita1408
		rising	ita1409
		falling	ita1410
cents	cents (Canada)	flat	ita1412
		rising	ita1413
		falling	ita1414
dollar	dollar (Hong Kong)	flat	ita1416
		rising	ita1417
		falling	ita1418
dollars	dollars (Hong Kong)	flat	ita1420
		rising	ita1421
		falling	ita1422
cent	cent (Hong Kong)	flat	ita1424
		rising	ita1425
		falling	ita1426
cents	cents (Hong Kong)	flat	ita1428
		rising	ita1429
		falling	ita1430

Italian audio (Sheet 42 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
gok	gok (Hong Kong)	flat	ita1488
		rising	ita1489
		falling	ita1490
goks	goks (Hong Kong)	flat	ita1492
		rising	ita1493
		falling	ita1494
escudo	escudo (Portugal)	flat	ita1432
		rising	ita1433
		falling	ita1434
escudos	escudos (Portugal)	flat	ita1436
		rising	ita1437
		falling	ita1438
centavo	centavo (Portugal)	flat	ita1440
		rising	ita1441
		falling	ita1442
centavos	centavos (Portugal)	flat	ita1444
		rising	ita1445
		falling	ita1446
yuan	yuan (China)	flat	ita1448
		rising	ita1449
		falling	ita1450
yuans	yuans (China)	flat	ita1452
		rising	ita1453
		falling	ita1454
jiao	jiao (China)	flat	ita1456
		rising	ita1457
		falling	ita1458

Italian audio (Sheet 43 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
jiaos	jiaos (China)	flat	ita1460
		rising	ita1461
		falling	ita1462
fen	fen (China)	flat	ita1464
		rising	ita1465
		falling	ita1466
fens	fens (China)	flat	ita1468
		rising	ita1469
		falling	ita1470
pound	pound (Ireland)	flat	ita1472
		rising	ita1473
		falling	ita1474
pounds	pounds (Ireland)	flat	ita1476
		rising	ita1477
		falling	ita1478
penny	penny (Ireland)	flat	ita1480
		rising	ita1481
		falling	ita1482
pence	pence (Ireland)	flat	ita1484
		rising	ita1485
		falling	ita1486
un'ora	one O'clock	flat	ita1592
		rising	ita1593
		falling	ita1594
della (di) sera	"in the evening"	flat	ita1596
		rising	ita1597
		falling	ita1598

Italian audio (Sheet 44 of 44)

Italian phrase or English equivalent	English	Phrase intonation	File name
del pomeriggio	"in the afternoon"	flat	ita1600
		rising	ita1601
		falling	ita1602
del mattino	"in the morning"	flat	ita1604
		rising	ita1605
		falling	ita1606
della notte	"in the night"	flat	ita1608
		rising	ita1609
		falling	ita1610

Japanese audio files

Note 1: Audio file names jpn508–jpn610, and jpn620–jpn622 are optional. Only record this audio if you provision the strings functionality on the system.

Note 2: Record audio file names jpn1200–jpn1486 only if you provision currency on the system.

Japanese audio (Sheet 1 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
zero	zero	flat	jpn0
		rising	jpn1
		falling	jpn2
ichi	one	flat	jpn8
		rising	jpn9
		falling	jpn10
ni	two	flat	jpn12
		rising	jpn13
		falling	jpn14
san	three	flat	jpn16
		rising	jpn17
		falling	jpn18
yon	four	flat	jpn20
		rising	jpn21
		falling	jpn22
go	five	flat	jpn24
		rising	jpn25
		falling	jpn26

Japanese audio (Sheet 2 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
roku	six	flat	jpn28
		rising	jpn29
		falling	jpn30
nana	seven	flat	jpn32
		rising	jpn33
		falling	jpn34
hachi	eight	flat	jpn36
		rising	jpn37
		falling	jpn38
kyuu	nine	flat	jpn40
		rising	jpn41
		falling	jpn42
jyuu	ten	flat	jpn56
		rising	jpn57
		falling	jpn58
hyaku	one-hundred	flat	jpn132
		rising	jpn133
		falling	jpn134
ni hyaku	two-hundred	flat	jpn136
		rising	jpn137
		falling	jpn138
san byaku	three-hundred	flat	jpn140
		rising	jpn141
		falling	jpn142
yon hyaku	four-hundred	flat	jpn144
		rising	jpn145
		falling	jpn146

Japanese audio (Sheet 3 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
go hyaku	five-hundred	flat	jpn148
		rising	jpn149
		falling	jpn150
roku pyaku	six-hundred	flat	jpn152
		rising	jpn153
		falling	jpn154
nana hyaku	seven-hundred	flat	jpn156
		rising	jpn157
		falling	jpn158
hachi pyaku	eight-hundred	flat	jpn160
		rising	jpn161
		falling	jpn162
kyuu hyaku	nine-hundred	flat	jpn164
		rising	jpn165
		falling	jpn166
sen	thousand	flat	jpn496
		rising	jpn497
		falling	jpn498
ni sen	two-thousand	flat	jpn176
		rising	jpn177
		falling	jpn178
sanzen	three-thousand	flat	jpn180
		rising	jpn181
		falling	jpn182
yon sen	four-thousand	flat	jpn184
		rising	jpn185
		falling	jpn186

Japanese audio (Sheet 4 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
go sen	five-thousand	flat	jpn188
		rising	jpn189
		falling	jpn190
roku sen	six-thousand	flat	jpn192
		rising	jpn193
		falling	jpn194
nana sen	seven-thousand	flat	jpn196
		rising	jpn197
		falling	jpn198
hassen	eight-thousand	flat	jpn200
		rising	jpn201
		falling	jpn202
kyuu sen	nine-thousand	flat	jpn204
		rising	jpn205
		falling	jpn206
optional	a	flat	jpn508
		rising	jpn509
		falling	jpn510
optional	b	flat	jpn512
		rising	jpn513
		falling	jpn514
optional	c	flat	jpn516
		rising	jpn517
		falling	jpn518
optional	d	flat	jpn520
		rising	jpn521
		falling	jpn522

Japanese audio (Sheet 5 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
optional	e	flat	jpn524
		rising	jpn525
		falling	jpn526
optional	f	flat	jpn528
		rising	jpn529
		falling	jpn530
optional	g	flat	jpn532
		rising	jpn533
		falling	jpn534
optional	h	flat	jpn536
		rising	jpn537
		falling	jpn538
optional	i	flat	jpn540
		rising	jpn541
		falling	jpn542
optional	j	flat	jpn544
		rising	jpn545
		falling	jpn546
optional	k	flat	jpn548
		rising	jpn549
		falling	jpn550
optional	l	flat	jpn552
		rising	jpn553
		falling	jpn554
optional	m	flat	jpn556
		rising	jpn557
		falling	jpn558

Japanese audio (Sheet 6 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
optional	n	flat	jpn560
		rising	jpn561
		falling	jpn562
optional	o	flat	jpn564
		rising	jpn565
		falling	jpn566
optional	p	flat	jpn568
		rising	jpn569
		falling	jpn570
optional	q	flat	jpn572
		rising	jpn573
		falling	jpn574
optional	r	flat	jpn576
		rising	jpn577
		falling	jpn578
optional	s	flat	jpn580
		rising	jpn581
		falling	jpn582
optional	t	flat	jpn584
		rising	jpn585
		falling	jpn586
optional	u	flat	jpn588
		rising	jpn589
		falling	jpn590
optional	v	flat	jpn592
		rising	jpn593
		falling	jpn594

Japanese audio (Sheet 7 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
optional	w	flat	jpn596
		rising	jpn597
		falling	jpn598
optional	x	flat	jpn600
		rising	jpn601
		falling	jpn602
optional	y	flat	jpn604
		rising	jpn605
		falling	jpn606
optional	z	flat	jpn608
		rising	jpn609
		falling	jpn610
mainasu	negative	flat	jpn616
		rising	jpn617
		falling	jpn618
to	and	flat	jpn620
		rising	jpn621
		falling	jpn622
ji	hour	flat	jpn624
		rising	jpn625
		falling	jpn626
byou	second	flat	jpn640
		rising	jpn641
		falling	jpn642
nichi youbi	Sunday	flat	jpn696
		rising	jpn697
		falling	jpn698

Japanese audio (Sheet 8 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
getsu youbi	Monday	flat	jpn700
		rising	jpn701
		falling	jpn702
ka youbi	Tuesday	flat	jpn704
		rising	jpn705
		falling	jpn706
sui youbi	Wednesday	flat	jpn708
		rising	jpn709
		falling	jpn710
moku youbi	Thursday	flat	jpn712
		rising	jpn713
		falling	jpn714
kin youbi	Friday	flat	jpn716
		rising	jpn717
		falling	jpn718
do youbi	Saturday	flat	jpn720
		rising	jpn721
		falling	jpn722
shaapu	pound sign (#)	flat	jpn896
		rising	jpn897
		falling	jpn898
sutaa	asterisk (*)	flat	jpn900
		rising	jpn901
		falling	jpn902
gozen	a.m.	flat	jpn908
		rising	jpn909
		falling	jpn910

Japanese audio (Sheet 9 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
gogo	p.m.	flat	jpn912
		rising	jpn913
		falling	jpn914
rei	zero (used with o'clock, minutes, seconds)	flat	jpn920
		rising	jpn921
		falling	jpn922
ippun	one (one minute)	flat	jpn924
		rising	jpn925
		falling	jpn926
fun	minutes (used with number ending with 2, 5, 7, 9)	flat	jpn928
		rising	jpn929
		falling	jpn930
pun	minutes (used with number ending with 1, 3, 4, 6, 8, 0)	flat	jpn932
		rising	jpn933
		falling	jpn934
rop	six minutes	flat	jpn936
		rising	jpn937
		falling	jpn938
hap	eight minutes	flat	jpn940
		rising	jpn941
		falling	jpn942
jyu	ten minutes	flat	jpn944
		rising	jpn945
		falling	jpn946
shichi	seven (used with 17th, 27th day of month)	flat	jpn952
		rising	jpn953
		falling	jpn954

Japanese audio (Sheet 10 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
kyuu	nine (used with o'clock, 19th, 29th day of month)	flat	jpn956
		rising	jpn957
		falling	jpn958
man	ten thousand	flat	jpn960
		rising	jpn961
		falling	jpn962
oku	100 million	flat	jpn964
		rising	jpn965
		falling	jpn966
is	one (used with 100 million)	flat	jpn968
		rising	jpn969
		falling	jpn970
tsuitach	first (day of month)	flat	jpn980
		rising	jpn981
		falling	jpn982
futsuka	second (day of month)	flat	jpn984
		rising	jpn985
		falling	jpn986
mikka	third (day of month)	flat	jpn988
		rising	jpn989
		falling	jpn990
yokka	fourth (day of month)	flat	jpn992
		rising	jpn993
		falling	jpn994
itsuka	fifth	flat	jpn996
		rising	jpn997
		falling	jpn998

Japanese audio (Sheet 11 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
muika	sixth	flat	jpn1000
		rising	jpn1001
		falling	jpn1002
nanoka	seventh	flat	jpn1004
		rising	jpn1005
		falling	jpn1006
youka	eighth	flat	jpn1008
		rising	jpn1009
		falling	jpn1010
kokonoka	ninth	flat	jpn1012
		rising	jpn1013
		falling	jpn1014
touka	tenth	flat	jpn1016
		rising	jpn1017
		falling	jpn1018
hatsuka	twentieth	flat	jpn1020
		rising	jpn1021
		falling	jpn1022
nichi	th (to make days of the month)	flat	jpn1024
		rising	jpn1025
		falling	jpn1026
gatsu	month	flat	jpn1028
		rising	jpn1029
		falling	jpn1030
nen	year (used for year)	flat	jpn1032
		rising	jpn1033
		falling	jpn1034

Japanese audio (Sheet 12 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
banme	th (rank)	flat	jpn1036
		rising	jpn1037
		falling	jpn1038
jikan	hour(s) (used for duration)	flat	jpn1040
		rising	jpn1041
		falling	jpn1042
Dollar	dollar (US)	flat	jpn1200
		rising	jpn1201
		falling	jpn1202
Cent	cent (US)	flat	jpn1208
		rising	jpn1209
		falling	jpn1210
mark	mark (Germany)	flat	jpn1216
		rising	jpn1217
		falling	jpn1218
pfennig	pfennig (Germany)	flat	jpn1224
		rising	jpn1225
		falling	jpn1226
yen	yen (Japan)	flat	jpn1232
		rising	jpn1233
		falling	jpn1234
lira	lira (Italy)	flat	jpn1240
		rising	jpn1241
		falling	jpn1242
guilder	guilder (Netherlands)	flat	jpn1248
		rising	jpn1249
		falling	jpn1250

Japanese audio (Sheet 13 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
cent	cent	flat	jpn1256
	(Netherlands)	rising	jpn1257
		falling	jpn1258
pound	pound	flat	jpn1264
	(UK)	rising	jpn1265
		falling	jpn1266
pence	pence	flat	jpn1276
	(UK)	rising	jpn1277
		falling	jpn1278
euro	euro	flat	jpn1280
	(Euro)	rising	jpn1281
		falling	jpn1282
eurocent	eurocent	flat	jpn1288
	(Euro)	rising	jpn1289
		falling	jpn1290
franc	franc	flat	jpn1296
	(France)	rising	jpn1297
		falling	jpn1298
centime	centime	flat	jpn1304
	(France)	rising	jpn1305
		falling	jpn1306
peseta	peseta	flat	jpn1312
	(Spain)	rising	jpn1313
		falling	jpn1314
peso	peso	flat	jpn1328
	(Philippines)	rising	jpn1329
		falling	jpn1330

Japanese audio (Sheet 14 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
centavo	centavo (Philippines)	flat	jpn1336
		rising	jpn1337
		falling	jpn1338
ringgit	ringgit (Malaysia)	flat	jpn1344
		rising	jpn1345
		falling	jpn1346
sen	sen (Malaysia)	flat	jpn1352
		rising	jpn1353
		falling	jpn1354
baht	baht (Thailand)	flat	jpn1360
		rising	jpn1361
		falling	jpn1362
satang	satang (Thailand)	flat	jpn1368
		rising	jpn1369
		falling	jpn1370
won	won (Korea)	flat	jpn1376
		rising	jpn1377
		falling	jpn1378
franc	franc (Belgium)	flat	jpn1384
		rising	jpn1385
		falling	jpn1386
centime	centime (Belgium)	flat	jpn1392
		rising	jpn1393
		falling	jpn1394
dollar	dollar (Canada)	flat	jpn1400
		rising	jpn1401
		falling	jpn1402

Japanese audio (Sheet 15 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
cent	cent (Canada)	flat	jpn1408
		rising	jpn1409
		falling	jpn1410
dollar	dollar (Hong Kong)	flat	jpn1416
		rising	jpn1417
		falling	jpn1418
cent	cent (Hong Kong)	flat	jpn1424
		rising	jpn1425
		falling	jpn1426
Gok	gok (Hong Kong)	flat	jpn1488
		rising	jpn1489
		falling	jpn1490
escudo	escudo (Portugal)	flat	jpn1432
		rising	jpn1433
		falling	jpn1434
centavo	centavo (Portugal)	flat	jpn1440
		rising	jpn1441
		falling	jpn1442
yuan	yuan (China)	flat	jpn1448
		rising	jpn1449
		falling	jpn1450
jiao	jiao (China)	flat	jpn1456
		rising	jpn1457
		falling	jpn1458
fen	fen (China)	flat	jpn1464
		rising	jpn1465
		falling	jpn1466

Japanese audio (Sheet 16 of 16)

Japanese phrase or English equivalent	English	Phrase intonation	File name
pound	pound (Ireland)	flat	jpn1472
		rising	jpn1473
		falling	jpn1474
pence	pence (Ireland)	flat	jpn1484
		rising	jpn1485
		falling	jpn1486

Mandarin audio files

Note 1: Audio file names zho508–zho610 are optional. Only record the files when the user provisions the string functionality on the system.

Note 2: Record audio file names zho908–zho1486 if you provision currency on the system.

Mandarin audio (Sheet 1 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
ling	zero	flat	zho0
		rising	zho1
		falling	zho2
yi	one	flat	zho8
		rising	zho9
		falling	zho10
er	two	flat	zho12
		rising	zho13
		falling	zho14
san	three	flat	zho16
		rising	zho17
		falling	zho18
si	four	flat	zho20
		rising	zho21
		falling	zho22
wu	five	flat	zho24
		rising	zho25
		falling	zho26

Mandarin audio (Sheet 2 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
liu	six	flat	zho28
		rising	zho29
		falling	zho30
qi	seven	flat	zho32
		rising	zho34
		falling	zho35
ba	eight	flat	zho36
		rising	zho37
		falling	zho38
jui	nine	flat	zho40
		rising	zho41
		falling	zho42
shi	ten	flat	zho56
		rising	zho57
		falling	zho58
bai	hundred	flat	zho132
		rising	zho133
		falling	zho134
qian	thousand	flat	zho496
		rising	zho497
		falling	zho498
optional	a	flat	zho508
		rising	zho509
		falling	zho510
optional	b	flat	zho512
		rising	zho513
		falling	zho514

Mandarin audio (Sheet 3 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
optional	c	flat	zho516
		rising	zho517
		falling	zho518
optional	d	flat	zho520
		rising	zho521
		falling	zho522
optional	e	flat	zho524
		rising	zho525
		falling	zho526
optional	f	flat	zho528
		rising	zho529
		falling	zho530
optional	g	flat	zho532
		rising	zho533
		falling	zho534
optional	h	flat	zho536
		rising	zho537
		falling	zho538
optional	i	flat	zho540
		rising	zho541
		falling	zho542
optional	j	flat	zho544
		rising	zho545
		falling	zho546
optional	k	flat	zho548
		rising	zho549
		falling	zho550

Mandarin audio (Sheet 4 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
optional	l	flat	zho552
		rising	zho553
		falling	zho554
optional	m	flat	zho556
		rising	zho557
		falling	zho558
optional	n	flat	zho560
		rising	zho561
		falling	zho562
optional	o	flat	zho564
		rising	zho565
		falling	zho566
optional	p	flat	zho568
		rising	zho569
		falling	zho570
optional	q	flat	zho572
		rising	zho573
		falling	zho574
optional	r	flat	zho576
		rising	zho577
		falling	zho578
optional	s	flat	zho580
		rising	zho581
		falling	zho582
optional	t	flat	zho584
		rising	zho585
		falling	zho586

Mandarin audio (Sheet 5 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
optional	u	flat	zho588
		rising	zho589
		falling	zho590
optional	v	flat	zho592
		rising	zho593
		falling	zho594
optional	w	flat	zho596
		rising	zho597
		falling	zho598
optional	x	flat	zho600
		rising	zho601
		falling	zho602
optional	y	flat	zho604
		rising	zho605
		falling	zho606
optional	z	flat	zho608
		rising	zho609
		falling	zho610
fu	negative	flat	zho616
		rising	zho617
		falling	zho618
he	and	flat	zho620
		rising	zho621
		falling	zho622
xiao shi	hour	flat	zho624
		rising	zho625
		falling	zho626

Mandarin audio (Sheet 6 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
fen	minute	flat	zho632
		rising	zho633
		falling	zho634
miao	second	flat	zho640
		rising	zho641
		falling	zho642
jing zi jian	pound sign (#)	flat	zho896
		rising	zho897
		falling	zho898
xing hao jian	asterisk (*)	flat	zho900
		rising	zho901
		falling	zho902
wu qian	a.m.	flat	zho908
		rising	zho909
		falling	zho910
wu hou	p.m.	flat	zho912
		rising	zho913
		falling	zho914
Dollar	dollar (US)	flat	zho1200
		rising	zho1201
		falling	zho1202
Cent	cent (US)	flat	zho1208
		rising	zho1209
		falling	zho1210
Mark	mark (Germany)	flat	zho1216
		rising	zho1217
		falling	zho1218

Mandarin audio (Sheet 7 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
Pfennig	pfennig (Germany)	flat	zho1224
		rising	zho1225
		falling	zho1226
Yen	yen (Japan)	flat	zho1232
		rising	zho1233
		falling	zho1234
Lira	lira (Italy)	flat	zho1240
		rising	zho1241
		falling	zho1242
Guilder	guilder (Netherlands)	flat	zho1248
		rising	zho1249
		falling	zho1250
Cent	cent (Netherlands)	flat	zho1256
		rising	zho1257
		falling	zho1258
Pound	pound (UK)	flat	zho1264
		rising	zho1265
		falling	zho1266
pence	pence (UK)	flat	zho1276
		rising	zho1277
		falling	zho1278
euro	euro (Euro)	flat	zho1280
		rising	zho1281
		falling	zho1282
eurocent	eurocent (Euro)	flat	zho1288
		rising	zho1289
		falling	zho1290

Mandarin audio (Sheet 8 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
franc	franc (France)	flat	zho1296
		rising	zho1297
		falling	zho1298
centime	centime (France)	flat	zho1304
		rising	zho1305
		falling	zho1306
peseta	peseta (Spain)	flat	zho1312
		rising	zho1313
		falling	zho1314
peso	peso (Philippines)	flat	zho1328
		rising	zho1329
		falling	zho1330
centavo	centavo (Philippines)	flat	zho1336
		rising	zho1337
		falling	zho1338
ringgit	ringgit (Malaysia)	flat	zho1344
		rising	zho1345
		falling	zho1346
sen	sen (Malaysia)	flat	zho1352
		rising	zho1353
		falling	zho1354
baht	baht (Thailand)	flat	zho1360
		rising	zho1361
		falling	zho1362
satang	satang (Thailand)	flat	zho1368
		rising	zho1369
		falling	zho1370

Mandarin audio (Sheet 9 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
won	won	flat	zho1376
	(Korea)	rising	zho1377
		falling	zho1378
franc	franc	flat	zho1384
	(Belgium)	rising	zho1385
		falling	zho1386
centime	centime	flat	zho1392
	(Belgium)	rising	zho1393
		falling	zho1394
dollar	dollar	flat	zho1400
	(Canada)	rising	zho1401
		falling	zho1402
cent	cent	flat	zho1408
	(Canada)	rising	zho1409
		falling	zho1410
dollar	dollar	flat	zho1416
	(Hong Kong)	rising	zho1417
		falling	zho1418
cent	cent	flat	zho1424
	(Hong Kong)	rising	zho1425
		falling	zho1426
gok	gok	flat	zho1488
	(Hong Kong)	rising	zho1489
		falling	zho1490
escudo	escudo	flat	zho1432
	(Portugal)	rising	zho1433
		falling	zho1434

Mandarin audio (Sheet 10 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
centavo	centavo (Portugal)	flat	zho1440
		rising	zho1441
		falling	zho1442
yuan	yuan (China)	flat	zho1448
		rising	zho1449
		falling	zho1450
jiao	jiao (China)	flat	zho1456
		rising	zho1457
		falling	zho1458
fen	fen (China)	flat	zho1464
		rising	zho1465
		falling	zho1466
pound	pound (Ireland)	flat	zho1472
		rising	zho1473
		falling	zho1474
pence	pence (Ireland)	flat	zho1484
		rising	zho1485
		falling	zho1486
xing qi	week	flat	zho920
		rising	zho921
		falling	zho922
yue	month	flat	zho924
		rising	zho925
		falling	zho926
nian	year	flat	zho928
		rising	zho929
		falling	zho930

Mandarin audio (Sheet 11 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
hao	day	flat	zho932
		rising	zho933
		falling	zho934
ri	day (for Sunday)	flat	zho936
		rising	zho937
		falling	zho938
di	prefix for ordinal	flat	zho940
		rising	zho941
		falling	zho942
ge	suffix for ordinal	flat	zho944
		rising	zho945
		falling	zho946
wan	ten-thousand	flat	zho948
		rising	zho949
		falling	zho950
yi	hundred-million	flat	zho952
		rising	zho953
		falling	zho954
dian	hour used in telling time	flat	zho956
		rising	zho957
		falling	zho958
ling chen	used for telling time from midnight to 5:59 am	flat	zho960
		rising	zho961
		falling	zho962
shang wu	used for telling time from 6 am to 11:59 am	flat	zho964
		rising	zho965
		falling	zho966

Mandarin audio (Sheet 12 of 12)

Mandarin phrase or English equivalent	English	Phrase intonation	File name
zhong wu	used for telling time from noon to 12:59 pm	flat	zho968
		rising	zho969
		falling	zho970
xia wu	used for telling time from 1 pm to 5:59 pm	flat	zho972
		rising	zho973
		falling	zho974
wan shang	used for telling time from 6 pm to 11:59 pm	flat	zho976
		rising	zho977
		falling	zho978
zheng	word for "o'clock", used when minutes are zero	flat	zho980
		rising	zho981
		falling	zho982

Spanish audio files

Note 1: Use audio file names spa508–spa610 for the multilanguage strings functionality. Recording of this audio is optional and the content of the recording can be any word. This audio is only required when the string functionality is used.

Note 2: Only record audio file names spa1740–spa1838 if the user provisions ordinal numbers on the system. The ordinal values for numbers less than three are used in applications (date) and are required unless otherwise specified.

Note 3: Only record audio file names spa1500–spa1722 if the user provisions audio for this currency.

Spanish audio (Sheet 1 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
cero	zero	flat	spa0
		rising	spa1
		falling	spa2
uno	one	flat	spa8
		rising	spa9
		falling	spa10
dos	two	flat	spa12
		rising	spa13
		falling	spa14
tres	three	flat	spa16
		rising	spa17
		falling	spa18
cuatro	four	flat	spa20
		rising	spa21
		falling	spa22

Spanish audio (Sheet 2 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
cinco	five	flat	spa24
		rising	spa25
		falling	spa26
seis	six	flat	spa28
		rising	spa29
		falling	spa30
siete	seven	flat	spa32
		rising	spa33
		falling	spa34
ocho	eight	flat	spa36
		rising	spa37
		falling	spa38
nueve	nine	flat	spa40
		rising	spa41
		falling	spa42
diez	ten	flat	spa56
		rising	spa57
		falling	spa58
once	eleven	flat	spa60
		rising	spa61
		falling	spa62
doce	twelve	flat	spa64
		rising	spa65
		falling	spa66
trece	thirteen	flat	spa68
		rising	spa69
		falling	spa70

Spanish audio (Sheet 3 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
catorce	fourteen	flat	spa72
		rising	spa73
		falling	spa74
cincuenta	fifteen	flat	spa76
		rising	spa77
		falling	spa78
dieciseis	sixteen	flat	spa80
		rising	spa81
		falling	spa82
diecisiete	seventeen	flat	spa84
		rising	spa85
		falling	spa86
diecocho	eighteen	flat	spa88
		rising	spa89
		falling	spa90
diecnueve	nineteen	flat	spa92
		rising	spa93
		falling	spa94
veinte	twenty	flat	spa96
		rising	spa97
		falling	spa98
veintiuno	twenty-one	flat	spa208
		rising	spa209
		falling	spa210
veintidos	twenty-two	flat	spa212
		rising	spa213
		falling	spa214

Spanish audio (Sheet 4 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
veintitres	twenty-three	flat	spa216
		rising	spa217
		falling	spa218
veinticuatro	twenty-four	flat	spa220
		rising	spa221
		falling	spa222
veinticinco	twenty-five	flat	spa224
		rising	spa225
		falling	spa226
veintiseis	twenty-six	flat	spa228
		rising	spa229
		falling	spa230
veintisiete	twenty-seven	flat	spa232
		rising	spa233
		falling	spa234
veintiocho	twenty-eight	flat	spa236
		rising	spa237
		falling	spa238
veintinueve	twenty-nine	flat	spa240
		rising	spa241
		falling	spa242
trienta	thirty	flat	spa100
		rising	spa101
		falling	spa102
cuarenta	forty	flat	spa104
		rising	spa105
		falling	spa106

Spanish audio (Sheet 5 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
cincuenta	fifty	flat	spa108
		rising	spa109
		falling	spa110
sesenta	sixty	flat	spa112
		rising	spa113
		falling	spa114
setenta	seventy	flat	spa116
		rising	spa117
		falling	spa118
ochenta	eighty	flat	spa120
		rising	spa121
		falling	spa122
noventa	ninety	flat	spa124
		rising	spa125
		falling	spa126
ciento	one-hundred	flat	spa132
		rising	spa133
		falling	spa134
doscientos	two-hundred	flat	spa136
		rising	spa137
		falling	spa138
trescientos	three-hundred	flat	spa140
		rising	spa141
		falling	spa142
cuatrocientos	four-hundred	flat	spa144
		rising	spa145
		falling	spa146

Spanish audio (Sheet 6 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
quinientos	five-hundred	flat	spa148
		rising	spa149
		falling	spa150
seiscientos	six-hundred	flat	spa152
		rising	spa153
		falling	spa154
setecientos	seven-hundred	flat	spa156
		rising	spa157
		falling	spa158
ochocientos	eight-hundred	flat	spa160
		rising	spa161
		falling	spa162
novecientos	nine-hundred	flat	spa164
		rising	spa165
		falling	spa166
mil	one-thousand	flat	spa496
		rising	spa497
		falling	spa498
millon	one-million	flat	spa500
		rising	spa501
		falling	spa502
a	a	flat	spa508
		rising	spa509
		falling	spa510
b	b	flat	spa512
		rising	spa513
		falling	spa514

Spanish audio (Sheet 7 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
c	c	flat	spa516
		rising	spa517
		falling	spa518
d	d	flat	spa520
		rising	spa521
		falling	spa522
e	e	flat	spa524
		rising	spa525
		falling	spa526
f	f	flat	spa528
		rising	spa529
		falling	spa530
g	g	flat	spa532
		rising	spa533
		falling	spa534
h	h	flat	spa536
		rising	spa537
		falling	spa538
i	i	flat	spa540
		rising	spa541
		falling	spa542
j	j	flat	spa544
		rising	spa545
		falling	spa546
k	k	flat	spa548
		rising	spa549
		falling	spa550

Spanish audio (Sheet 8 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
l	l	flat	spa552
		rising	spa553
		falling	spa554
m	m	flat	spa556
		rising	spa557
		falling	spa558
n	n	flat	spa560
		rising	spa561
		falling	spa562
o	o	flat	spa564
		rising	spa565
		falling	spa566
p	p	flat	spa568
		rising	spa569
		falling	spa570
q	q	flat	spa572
		rising	spa573
		falling	spa574
r	r	flat	spa576
		rising	spa577
		falling	spa578
s	s	flat	spa580
		rising	spa581
		falling	spa582
t	t	flat	spa584
		rising	spa585
		falling	spa586

Spanish audio (Sheet 9 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
u	u	flat	spa588
		rising	spa589
		falling	spa590
v	v	flat	spa592
		rising	spa593
		falling	spa594
w	w	flat	spa596
		rising	spa597
		falling	spa598
x	x	flat	spa600
		rising	spa601
		falling	spa602
y	y	flat	spa604
		rising	spa605
		falling	spa606
z	z	flat	spa608
		rising	spa609
		falling	spa610
negativo	negative	flat	spa616
		rising	spa617
		falling	spa618
y	and	flat	spa620
		rising	spa621
		falling	spa622
hora	hour	flat	spa624
		rising	spa625
		falling	spa626

Spanish audio (Sheet 10 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
horas	hours	flat	spa628
		rising	spa629
		falling	spa630
minuto	minute	flat	spa632
		rising	spa633
		falling	spa634
minutos	minutes	flat	spa636
		rising	spa637
		falling	spa638
segundo	second	flat	spa640
		rising	spa641
		falling	spa642
segundos	seconds	flat	spa644
		rising	spa645
		falling	spa646
enero	January	flat	spa648
		rising	spa649
		falling	spa650
febrero	February	flat	spa652
		rising	spa653
		falling	spa654
marzo	March	flat	spa656
		rising	spa657
		falling	spa658
abril	April	flat	spa660
		rising	spa661
		falling	spa662

Spanish audio (Sheet 11 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
mayo	May	flat	spa664
		rising	spa665
		falling	spa666
junio	June	flat	spa668
		rising	spa669
		falling	spa670
julio	July	flat	spa672
		rising	spa673
		falling	spa674
agosto	August	flat	spa676
		rising	spa677
		falling	spa678
septiembre	September	flat	spa680
		rising	spa681
		falling	spa682
octubre	October	flat	spa684
		rising	spa685
		falling	spa686
noviembre	November	flat	spa688
		rising	spa689
		falling	spa690
diciembre	December	flat	spa692
		rising	spa693
		falling	spa694
domingo	Sunday	flat	spa696
		rising	spa697
		falling	spa698

Spanish audio (Sheet 12 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
lunes	Monday	flat	spa700
		rising	spa701
		falling	spa702
martes	Tuesday	flat	spa704
		rising	spa705
		falling	spa706
miercoles	Wednesday	flat	spa708
		rising	spa709
		falling	spa710
jueves	Thursday	flat	spa712
		rising	spa713
		falling	spa714
viernes	Friday	flat	spa716
		rising	spa717
		falling	spa718
sabado	Saturday	flat	spa720
		rising	spa721
		falling	spa722
primero	first (counting)	flat	spa728
		rising	spa729
		falling	spa730
segundo	second	flat	spa732
		rising	spa733
		falling	spa734
tercero	3rd (counting)	flat	spa736
		rising	spa737
		falling	spa738

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Spanish phrase or English equivalent	English	Phrase intonation	File name
cuarto	fourth	flat	spa740
		rising	spa741
		falling	spa742
quinto	fifth	flat	spa744
		rising	spa745
		falling	spa746
sexto	sixth	flat	spa748
		rising	spa749
		falling	spa750
septimo	seventh	flat	spa752
		rising	spa753
		falling	spa754
octavo	eighth	flat	spa756
		rising	spa757
		falling	spa758
noveno	ninth	flat	spa760
		rising	spa761
		falling	spa762
decimo	tenth	flat	spa764
		rising	spa765
		falling	spa766
decimo primeiro	eleventh	flat	spa768
		rising	spa769
		falling	spa770
duodecimo	twelfth	flat	spa772
		rising	spa773
		falling	spa774

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Spanish phrase or English equivalent	English	Phrase intonation	File name
decimo terceiro	thirteenth	flat	spa776
		rising	spa777
		falling	spa778
decimo cuarto	fourteenth	flat	spa780
		rising	spa781
		falling	spa782
decimo quinto	fifteenth	flat	spa784
		rising	spa785
		falling	spa786
decimo sexto	sixteenth	flat	spa788
		rising	spa789
		falling	spa790
decimo septimo	seventeenth	flat	spa792
		rising	spa793
		falling	spa794
decimo ocatvo	eighteenth	flat	spa796
		rising	spa797
		falling	spa798
decimo noveno	nineteenth	flat	spa800
		rising	spa801
		falling	spa802
vigésimo	twentieth	flat	spa804
		rising	spa805
		falling	spa806
trigesimo	thirtieth	flat	spa808
		rising	spa809
		falling	spa810

Spanish audio (Sheet 15 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
cuadragésimo	fortieth	flat	spa812
		rising	spa813
		falling	spa814
quincuagesimo	fiftieth	flat	spa816
		rising	spa817
		falling	spa818
sexagesimo	sixtieth	flat	spa820
		rising	spa821
		falling	spa822
septuagesimo	seventieth	flat	spa824
		rising	spa825
		falling	spa826
octagesimo	eightieth	flat	spa828
		rising	spa829
		falling	spa830
nonagesimo	ninetieth	flat	spa832
		rising	spa833
		falling	spa834
centesimo	one-hundredth	flat	spa836
		rising	spa837
		falling	spa838
"símbolo de número"	pound sign (#)	flat	spa896
		rising	spa897
		falling	spa898
asterisco	asterisk (*)	flat	spa900
		rising	spa901
		falling	spa902

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Spanish phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar	flat	spa1200
	(US)	rising	spa1201
		falling	spa1202
dollars	dollars	flat	spa1204
	(US)	rising	spa1205
		falling	spa1206
cent	cent	flat	spa1208
	(US)	rising	spa1209
		falling	spa1210
cents	cents	flat	spa1212
	(US)	rising	spa1213
		falling	spa1214
mark	mark	flat	spa1216
	(Germany)	rising	spa1217
		falling	spa1218
marks	marks	flat	spa1220
	(Germany)	rising	spa1221
		falling	spa1222
pfennig	pfennig	flat	spa1224
	(Germany)	rising	spa1225
		falling	spa1226
pfennigs	pfennigs	flat	spa1228
	(Germany)	rising	spa1229
		falling	spa1230
yen	yen	flat	spa1232
	(Japan)	rising	spa1233
		falling	spa1234

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Spanish phrase or English equivalent	English	Phrase intonation	File name
yens	yens (Japan)	flat	spa1236
		rising	spa1237
		falling	spa1238
lira	lira (Italy)	flat	spa1240
		rising	spa1241
		falling	spa1242
liras	liras (Italy)	flat	spa1244
		rising	spa1245
		falling	spa1246
guilder	guilder (Netherlands)	flat	spa1248
		rising	spa1249
		falling	spa1250
guilders	guilders (Netherlands)	flat	spa1252
		rising	spa1253
		falling	spa1254
cent	cent (Netherlands)	flat	spa1256
		rising	spa1257
		falling	spa1258
cents	cents (Netherlands)	flat	spa1260
		rising	spa1261
		falling	spa1262
pound	pound (UK)	flat	spa1264
		rising	spa1265
		falling	spa1266
pounds	pounds (UK)	flat	spa1268
		rising	spa1269
		falling	spa1270

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Spanish phrase or English equivalent	English	Phrase intonation	File name
penny	penny (UK)	flat	spa1272
		rising	spa1273
		falling	spa1274
pence	pence (UK)	flat	spa1276
		rising	spa1277
		falling	spa1278
euro	euro (Europe)	flat	spa1280
		rising	spa1281
		falling	spa1282
euros	euros (Europe)	flat	spa1284
		rising	spa1285
		falling	spa1286
eurocent	eurocent (Europe)	flat	spa1288
		rising	spa1289
		falling	spa1290
eurocents	eurocents (Europe)	flat	spa1292
		rising	spa1293
		falling	spa1294
franc	franc (France)	flat	spa1296
		rising	spa1297
		falling	spa1298
francs	francs (France)	flat	spa1300
		rising	spa1301
		falling	spa1302
centime	centime (France)	flat	spa1304
		rising	spa1305
		falling	spa1306

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Spanish phrase or English equivalent	English	Phrase intonation	File name
centimes	centimes (France)	flat	spa1308
		rising	spa1309
		falling	spa1310
peseta	peseta (Spain)	flat	spa1312
		rising	spa1313
		falling	spa1314
pesetas	pesetas (Spain)	flat	spa1316
		rising	spa1317
		falling	spa1318
peso	peso (Philippines)	flat	spa1328
		rising	spa1329
		falling	spa1330
pesos	pesos (Philippines)	flat	spa1332
		rising	spa1333
		falling	spa1334
centavo	centavo (Philippines)	flat	spa1336
		rising	spa1337
		falling	spa1338
centavos	centavos (Philippines)	flat	spa1340
		rising	spa1341
		falling	spa1342
ringgit	ringgit (Malaysia)	flat	spa1344
		rising	spa1345
		falling	spa1346
ringgits	ringgits (Malaysia)	flat	spa1348
		rising	spa1349
		falling	spa1350

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Spanish phrase or English equivalent	English	Phrase intonation	File name
sen	sen (Malaysia)	flat	spa1352
		rising	spa1353
		falling	spa1354
sens	sens (Malaysia)	flat	spa1356
		rising	spa1357
		falling	spa1358
baht	baht (Thailand)	flat	spa1360
		rising	spa1361
		falling	spa1362
bahts	bahts (Thailand)	flat	spa1364
		rising	spa1365
		falling	spa1366
satang	satang (Thailand)	flat	spa1368
		rising	spa1369
		falling	spa1370
satangs	satangs (Thailand)	flat	spa1372
		rising	spa1373
		falling	spa1374
won	won (Korea)	flat	spa1376
		rising	spa1377
		falling	spa1378
wons	wons (Korea)	flat	spa1380
		rising	spa1381
		falling	spa1382
franc	franc (Belgium)	flat	spa1384
		rising	spa1385
		falling	spa1386

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Spanish phrase or English equivalent	English	Phrase intonation	File name
francs	francs (Belgium)	flat	spa 1388
		rising	spa1389
		falling	spa1390
centime	centime (Belgium)	flat	spa1392
		rising	spa1393
		falling	spa1394
centimes	centimes (Belgium)	flat	spa1396
		rising	spa1397
		falling	spa1398
dollar	dollar (Canada)	flat	spa1400
		rising	spa1401
		falling	spa1402
dollars	dollars (Canada)	flat	spa1404
		rising	spa1405
		falling	spa1406
cent	cent (Canada)	flat	spa1408
		rising	spa1409
		falling	spa1410
cents	cents (Canada)	flat	spa1412
		rising	spa1413
		falling	spa1414
dollar	dollar (Hong Kong)	flat	spa1416
		rising	spa1417
		falling	spa1418
dollars	dollars (Hong Kong)	flat	spa1420
		rising	spa1421
		falling	spa1422

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Spanish phrase or English equivalent	English	Phrase intonation	File name
gok	gok (Hong Kong)	flat	spa1488
		rising	spa1489
		falling	spa1490
goks	goks (Hong Kong)	flat	spa1492
		rising	spa1493
		falling	spa1494
cent	cent (Hong Kong)	flat	spa1424
		rising	spa1425
		falling	spa1426
cents	cents (Hong Kong)	flat	spa1428
		rising	spa1429
		falling	spa1430
escudo	escudo (Portugal)	flat	spa1432
		rising	spa1433
		falling	spa1434
escudos	escudos (Portugal)	flat	spa1436
		rising	spa1437
		falling	spa1438
centavo	centavo (Portugal)	flat	spa1440
		rising	spa1441
		falling	spa1442
centavos	centavos (Portugal)	flat	spa1444
		rising	spa1445
		falling	spa1446
yuan	yuan (China)	flat	spa1448
		rising	spa1449
		falling	spa1450

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Spanish phrase or English equivalent	English	Phrase intonation	File name
yuans	yuans (China)	flat	spa1452
		rising	spa1453
		falling	spa1454
jiao	jiao (China)	flat	spa1456
		rising	spa1457
		falling	spa1458
jiaos	jiaos (China)	flat	spa1460
		rising	spa1461
		falling	spa1462
fen	fen (China)	flat	spa1464
		rising	spa1465
		falling	spa1466
fens	fens (China)	flat	spa1468
		rising	spa1469
		falling	spa1470
pound	pound (Ireland)	flat	spa1472
		rising	spa1473
		falling	spa1474
pounds	pounds (Ireland)	flat	spa1476
		rising	spa1477
		falling	spa1478
penny	penny (Ireland)	flat	spa1480
		rising	spa1481
		falling	spa1482
pence	pence (Ireland)	flat	spa1484
		rising	spa1485
		falling	spa1486

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Spanish phrase or English equivalent	English	Phrase intonation	File name
un	one (masc)	flat	spa920
		rising	spa921
		falling	spa922
una	one (fem)	flat	spa924
		rising	spa925
		falling	spa926
cien	100	flat	spa928
		rising	spa929
		falling	spa930
cienta	100 (fem)	flat	spa932
		rising	spa933
		falling	spa934
doscientas	200 (fem)	flat	spa936
		rising	spa937
		falling	spa938
trescientas	300 (fem)	flat	spa940
		rising	spa941
		falling	spa942
cuatrocientas	400 (fem)	flat	spa944
		rising	spa945
		falling	spa946
qucientas	500 (fem)	flat	spa948
		rising	spa949
		falling	spa950
seiscientas	600 (fem)	flat	spa952
		rising	spa953
		falling	spa954

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Spanish phrase or English equivalent	English	Phrase intonation	File name
setecientas	700 (fem)	flat	spa956
		rising	spa957
		falling	spa958
ochocientas	800 (fem)	flat	spa960
		rising	spa961
		falling	spa962
novecientas	900 (fem)	flat	spa964
		rising	spa965
		falling	spa966
trienta y	"thirty and"	flat	spa968
		rising	spa969
		falling	spa970
cuarenta y	"forty and"	flat	spa972
		rising	spa973
		falling	spa974
cincuenta y	"fifty and"	flat	spa976
		rising	spa977
		falling	spa978
sesenta y	"sixty and"	flat	spa980
		rising	spa981
		falling	spa982
setenta y	"seventy and"	flat	spa984
		rising	spa985
		falling	spa986
ochenta y	"eighty and"	flat	spa988
		rising	spa989
		falling	spa990

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Spanish phrase or English equivalent	English	Phrase intonation	File name
noventa y	“ninety and”	flat	spa992
		rising	spa993
		falling	spa994
primera	first (fem)	flat	spa1032
		rising	spa1033
		falling	spa1034
segunda	second (fem)	flat	spa1036
		rising	spa1037
		falling	spa1038
tercera	third (fem)	flat	spa1040
		rising	spa1041
		falling	spa1042
cuarta	fourth (fem)	flat	spa1044
		rising	spa1045
		falling	spa1046
quinta	fifth (fem)	flat	spa1048
		rising	spa1049
		falling	spa1050
sexta	sixth (fem)	flat	spa1052
		rising	spa1053
		falling	spa1054
septima	seventh (fem)	flat	spa1056
		rising	spa1057
		falling	spa1058
octava	eighth (fem)	flat	spa1060
		rising	spa1061
		falling	spa1062

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Spanish phrase or English equivalent	English	Phrase intonation	File name
novena	ninth	flat	spa1064
	(fem)	rising	spa1065
		falling	spa1066
decima	tenth	flat	spa1068
	(fem)	rising	spa1069
		falling	spa1070
undecima	eleventh	flat	spa1072
	(fem)	rising	spa1073
		falling	spa1074
duodecima	twelfth	flat	spa1076
	(fem)	rising	spa1077
		falling	spa1078
decimotercera	thirteenth	flat	spa1080
	(fem)	rising	spa1081
		falling	spa1082
decimocuarta	fourteenth	flat	spa1084
	(fem)	rising	spa1085
		falling	spa1086
decimoquinta	fifteenth	flat	spa1088
	(fem)	rising	spa1089
		falling	spa1090
decimosexta	sixteenth	flat	spa1092
	(fem)	rising	spa1093
		falling	spa1094
decimoseptima	seventeenth	flat	spa1096
	(fem)	rising	spa1097
		falling	spa1098

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Spanish phrase or English equivalent	English	Phrase intonation	File name
decimoctava	eighteenth (fem)	flat	spa1100
		rising	spa1101
		falling	spa1102
decimonovena	nineteenth (fem)	flat	spa1104
		rising	spa1105
		falling	spa1106
vigésima	twentieth (fem)	flat	spa1108
		rising	spa1109
		falling	spa1110
trigesima	thirtieth (fem)	flat	spa1112
		rising	spa1113
		falling	spa1114
cuadragesima	fortieth (fem)	flat	spa1116
		rising	spa1117
		falling	spa1118
quincuagesima	fiftieth (fem)	flat	spa1120
		rising	spa1121
		falling	spa1122
sexagesima	sixtieth (fem)	flat	spa1124
		rising	spa1125
		falling	spa1126
septuagesima	seventieth (fem)	flat	spa1128
		rising	spa1129
		falling	spa1130
octogesima	eightieth (fem)	flat	spa1132
		rising	spa1133
		falling	spa1134

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Spanish phrase or English equivalent	English	Phrase intonation	File name
nonagesima	ninetieth (fem)	flat	spa1136
		rising	spa1137
		falling	spa1138
centesima	one-hundredth (fem)	flat	spa1140
		rising	spa1141
		falling	spa1142
millones	millions	flat	spa1144
		rising	spa1145
		falling	spa1146
de	of	flat	spa1148
		rising	spa1149
		falling	spa1150
ventiun	twenty-one (masc)	flat	spa1152
		rising	spa1153
		falling	spa1154
ventiuna	twenty-one (fem)	flat	spa1156
		rising	spa1157
		falling	spa1158
primer	first (masc)	flat	spa1160
		rising	spa1161
		falling	spa1162
tercer	third (masc)	flat	spa1164
		rising	spa1165
		falling	spa1166
primeros	first (masc, plural)	flat	spa1500
		rising	spa1501
		falling	spa1502

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Spanish phrase or English equivalent	English	Phrase intonation	File name
segundos	second	flat	spa1504
	(masc, plural)	rising	spa1505
		falling	spa1506
terceros	third	flat	spa1508
	(masc, plural)	rising	spa1509
		falling	spa1510
cuartos	fourth	flat	spa1512
	(masc, plural)	rising	spa1513
		falling	spa1514
quintos	fifth	flat	spa1516
	(masc, plural)	rising	spa1517
		falling	spa1518
sextos	sixth	flat	spa1520
	(masc, plural)	rising	spa1521
		falling	spa1522
septimos	seventh	flat	spa1524
	(masc, plural)	rising	spa1525
		falling	spa1526
octavos	eighth	flat	spa1528
	(masc, plural)	rising	spa1529
		falling	spa1530
novenos	ninth	flat	spa1532
	(masc, plural)	rising	spa1533
		falling	spa1534
decimos	tenth	flat	spa1536
	(masc, plural)	rising	spa1537
		falling	spa1538

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Spanish phrase or English equivalent	English	Phrase intonation	File name
undecimos	eleventh (masc, plural)	flat	spa1540
		rising	spa1541
		falling	spa1542
duodecimos	twelfth (masc, plural)	flat	spa1544
		rising	spa1545
		falling	spa1546
decimoterceros	thirteenth (masc, plural)	flat	spa1548
		rising	spa1549
		falling	spa1550
decimocuartos	fourteenth (masc, plural)	flat	spa1552
		rising	spa1553
		falling	spa1554
decimoquintos	fifteenth (masc, plural)	flat	spa1556
		rising	spa1557
		falling	spa1558
decimosextos	sixteenth (masc, plural)	flat	spa1560
		rising	spa1561
		falling	spa1562
decimoseptimos	seventeenth (masc, plural)	flat	spa1564
		rising	spa1565
		falling	spa1566
decimooctavos	eighteenth (masc, plural)	flat	spa1568
		rising	spa1569
		falling	spa1570
decimonovenos	nineteenth (masc, plural)	flat	spa1572
		rising	spa1573
		falling	spa1574

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Spanish phrase or English equivalent	English	Phrase intonation	File name
vigésimos	twentieth	flat	spa1576
	(masc, plural)	rising	spa1577
		falling	spa1578
trigésimos	thirtieth	flat	spa1580
	(masc, plural)	rising	spa1581
		falling	spa1582
cuadragesimos	fortieth	flat	spa1584
	(masc, plural)	rising	spa1585
		falling	spa1586
quincuagesimos	fiftieth	flat	spa1588
	(masc, plural)	rising	spa1589
		falling	spa1590
sexagesimos	sixtieth	flat	spa1592
	(masc, plural)	rising	spa1593
		falling	spa1594
septuagesimos	seventieth	flat	spa1596
	(masc, plural)	rising	spa1597
		falling	spa1598
octogesimos	eightieth	flat	spa1600
	(masc, plural)	rising	spa1601
		falling	spa1602
nonagesimos	ninetieth	flat	spa1604
	(masc, plural)	rising	spa1605
		falling	spa1606
centésimos	one-hundredth	flat	spa1608
	(masc, plural)	rising	spa1609
		falling	spa1610

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Spanish phrase or English equivalent	English	Phrase intonation	File name
primeras	first	flat	spa1612
	(fem, plural)	rising	spa1613
		falling	spa1614
segundas	second	flat	spa1616
	(fem, plural)	rising	spa1617
		falling	spa1618
terceras	third	flat	spa1620
	(fem, plural)	rising	spa1621
		falling	spa1622
cuartas	fourth	flat	spa1624
	(fem, plural)	rising	spa1625
		falling	spa1626
quintas	fifth	flat	spa1628
	(fem, plural)	rising	spa1629
		falling	spa1630
sextas	sixth	flat	spa1632
	(fem, plural)	rising	spa1633
		falling	spa1634
septimas	seventh	flat	spa1636
	(fem, plural)	rising	spa1637
		falling	spa1638
octavas	eighth	flat	spa1640
	(fem, plural)	rising	spa1641
		falling	spa1642
novenas	ninth	flat	spa1644
	(fem, plural)	rising	spa1645
		falling	spa1646

Spanish audio (Sheet 34 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
decimas	tenth	flat	spa1648
	(fem, plural)	rising	spa1649
		falling	spa1650
undecimas	eleventh	flat	spa1652
	(fem, plural)	rising	spa1653
		falling	spa1654
duodecimas	twelfth	flat	spa1656
	(fem, plural)	rising	spa1657
		falling	spa1658
decimoterceras	thirteenth	flat	spa1660
	(fem, plural)	rising	spa1661
		falling	spa1662
decimocuartas	fourteenth	flat	spa1664
	(fem, plural)	rising	spa1665
		falling	spa1666
decimoquintas	fifteenth	flat	spa1668
	(fem, plural)	rising	spa1669
		falling	spa1670
decimosextas	sixteenth	flat	spa1672
	(fem, plural)	rising	spa1673
		falling	spa1674
decimoseptimas	seventeenth	flat	spa1676
	(fem, plural)	rising	spa1677
		falling	spa1678
decimooctavas	eighteenth	flat	spa1680
	(fem, plural)	rising	spa1681
		falling	spa1682

Spanish audio (Sheet 35 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
decimonovenas	nineteenth (fem, plural)	flat	spa1684
		rising	spa1685
		falling	spa1686
vigésimas	twentieth (fem, plural)	flat	spa1688
		rising	spa1689
		falling	spa1690
trigésimas	thirtieth (fem, plural)	flat	spa1692
		rising	spa1693
		falling	spa1694
cuadragesimas	fortieth (fem, plural)	flat	spa1696
		rising	spa1697
		falling	spa1698
quincuagesimas	fiftieth (fem, plural)	flat	spa1700
		rising	spa1701
		falling	spa1702
sexagesimas	sixtieth (fem, plural)	flat	spa1704
		rising	spa1705
		falling	spa1706
septuagesimas	seventieth (fem, plural)	flat	spa1708
		rising	spa1709
		falling	spa1710
octogesimas	eightieth (fem, plural)	flat	spa1712
		rising	spa1713
		falling	spa1714

Spanish audio (Sheet 36 of 36)

Spanish phrase or English equivalent	English	Phrase intonation	File name
nonagesimas	ninetieth (fem, plural)	flat	spa1716
		rising	spa1717
		falling	spa1718
centesimas	one-hundredth (fem, plural)	flat	spa1720
		rising	spa1721
		falling	spa1722

Vietnamese audio files

Note 1: Only record audio file names vie1200-vie4066 if the user provisions audio files for this currency.

Note 2: Audio files names vie508-vie610 are used for strings functionality. Recording of this audio is optional and the content of the recording can be any word.

Note 3: Vietnamese months are formed by saying “tang” (month) and the number of the month. “January” and “April,” however, are exceptions, and must be datafilled. Thus, audio files names vie648-vie662 are reserved for the months, “January” and “April.” The other months are formed by using the audio file for “tang” and the audio file for the number of the month.

Vietnamese audio (Sheet 1 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
kong	zero	flat	vie0
		rising	vie1
		falling	vie2
mot	one	flat	vie8
		rising	vie9
		falling	vie10
hi	two	flat	vie12
		rising	vie13
		falling	vie14
ba	three	flat	vie16
		rising	vie17
		falling	vie18
bon	four	flat	vie20
		rising	vie21
		falling	vie22

Vietnamese audio (Sheet 2 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
nam	five	flat	vie24
		rising	vie25
		falling	vie26
sao	six	flat	vie28
		rising	vie29
		falling	vie30
bay	seven	flat	vie32
		rising	vie33
		falling	vie34
tam	eight	flat	vie36
		rising	vie37
		falling	vie38
chin	nine	flat	vie40
		rising	vie41
		falling	vie42
mui	ten	flat	vie56
		rising	vie57
		falling	vie58
tcham	hundred	flat	vie128
		rising	vie129
		falling	vie130
nan	thousand	flat	vie496
		rising	vie497
		falling	vie498
tchio	million	flat	vie500
		rising	vie501
		falling	vie502

Vietnamese audio (Sheet 3 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
tee	billion	flat	vie504
		rising	vie505
		falling	vie506
optional	a	flat	vie508
		rising	vie509
		falling	vie510
optional	b	flat	vie512
		rising	vie513
		falling	vie514
optional	c	flat	vie516
		rising	vie517
		falling	vie518
optional	d	flat	vie520
		rising	vie521
		falling	vie522
optional	e	flat	vie524
		rising	vie525
		falling	vie526
optional	f	flat	vie528
		rising	vie529
		falling	vie530
optional	g	flat	vie532
		rising	vie533
		falling	vie534
optional	h	flat	vie536
		rising	vie537
		falling	vie538

Vietnamese audio (Sheet 4 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
optional	i	flat	vie540
		rising	vie541
		falling	vie542
optional	j	flat	vie544
		rising	vie545
		falling	vie546
optional	k	flat	vie548
		rising	vie549
		falling	vie550
optional	l	flat	vie552
		rising	vie553
		falling	vie554
optional	m	flat	vie556
		rising	vie557
		falling	vie557
optional	n	flat	vie560
		rising	vie561
		falling	vie562
optional	o	flat	vie564
		rising	vie565
		falling	vie566
optional	p	flat	vie568
		rising	vie569
		falling	vie570
optional	q	flat	vie572
		rising	vie573
		falling	vie574

Vietnamese audio (Sheet 5 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
optional	r	flat	vie576
		rising	vie577
		falling	vie578
optional	s	flat	vie580
		rising	vie581
		falling	vie582
optional	t	flat	vie584
		rising	vie585
		falling	vie586
optional	u	flat	vie588
		rising	vie5589
		falling	vie590
optional	v	flat	vie592
		rising	vie593
		falling	vie594
optional	w	flat	vie596
		rising	vie597
		falling	vie598
optional	x	flat	vie600
		rising	vie601
		falling	vie602
optional	y	flat	vie604
		rising	vie605
		falling	vie606
optional	z	flat	vie608
		rising	vie609
		falling	vie610

Vietnamese audio (Sheet 6 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
tchu	negative	flat	vie616
		rising	vie617
		falling	vie618
vaa	and	flat	vie620
		rising	vie621
		falling	vie622
zo	hour	flat	vie624
		rising	vie625
		falling	vie626
fut	minute	flat	vie632
		rising	vie633
		falling	vie634
zay	second	flat	vie640
		rising	vie641
		falling	vie642
tang ze-eng	January	flat	vie648
		rising	vie649
		falling	vie650
tang too	April	flat	vie660
		rising	vie661
		falling	vie662
tchoo nat	Sunday	flat	vie696
		rising	vie697
		falling	vie698
tu nat	first	flat	vie728
		rising	vie729
		falling	vie730

Vietnamese audio (Sheet 7 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
tu too	fourth	flat	vie740
		rising	vie741
		falling	vie742
zao pao	pound sign (#)	flat	vie896
		rising	vie897
		falling	vie898
zao hua ti	asterisk (*)	flat	vie900
		rising	vie901
		falling	vie902
do la	dollar (US)	flat	vie1200
		rising	vie1201
		falling	vie1202
soo	cent (US)	flat	vie1208
		rising	vie1209
		falling	vie1210
mark	mark (Germany)	flat	vie1216
		rising	vie1217
		falling	vie1218
pfennig	pfennig (Germany)	flat	vie1224
		rising	vie1225
		falling	vie1226
dong yen	yen (Japan)	flat	vie1232
		rising	vie1233
		falling	vie1234
lira	lira (Italy)	flat	vie1240
		rising	vie1241
		falling	vie1242

Vietnamese audio (Sheet 8 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
guilder	guilder (Netherlands)	flat	vie1248
		rising	vie1249
		falling	vie1250
cent	cent (Netherlands)	flat	vie1256
		rising	vie1257
		falling	vie1258
pound	pound (UK)	flat	vie1264
		rising	vie1265
		falling	vie1266
penny	penny (UK)	flat	vie1272
		rising	vie1273
		falling	vie1274
dong er ro	euro (Euro)	flat	vie1280
		rising	vie1281
		falling	vie1282
soo er ro	eurocent (Euro)	flat	vie1288
		rising	vie1289
		falling	vie1290
faat lan	franc (France)	flat	vie1296
		rising	vie1297
		falling	vie1298
saang tim	centime (France)	flat	vie1304
		rising	vie1305
		falling	vie1306
peseta	peseta (Spain)	flat	vie1312
		rising	vie1313
		falling	vie1314

Vietnamese audio (Sheet 9 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
peso	peso (Phillipines)	flat	vie1328
		rising	vie1329
		falling	vie1330
centavo	centavo (Phillipines)	flat	vie1336
		rising	vie1337
		falling	vie1338
ringgit	ringgit (Malaysia)	flat	vie1344
		rising	vie1345
		falling	vie1346
sen	sen (Malaysia)	flat	vie1352
		rising	vie1353
		falling	vie1354
baht	baht (Thailand)	flat	vie1360
		rising	vie1361
		falling	vie1362
satang	satang (Thailand)	flat	vie1368
		rising	vie1369
		falling	vie1370
won	won (Korea)	flat	vie1376
		rising	vie1377
		falling	vie1378
franc	franc (Belgium)	flat	vie1384
		rising	vie1385
		falling	vie1386
centime	centime (Belgium)	flat	vie1392
		rising	vie1393
		falling	vie1394

Vietnamese audio (Sheet 10 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
dollar	dollar (Canada)	flat	vie1400
		rising	vie1401
		falling	vie1402
cent	cent (Canada)	flat	vie1408
		rising	vie1409
		falling	vie1410
dollar	dollar (Hong Kong)	flat	vie1416
		rising	vie1417
		falling	vie1418
cent	cent (Hong Kong)	flat	vie1424
		rising	vie1425
		falling	vie1426
gok	gok (Hong Kong)	flat	vie1488
		rising	vie1489
		falling	vie1490
escudo	escudo (Portugal)	flat	vie1432
		rising	vie1433
		falling	vie1434
centavo	centavo (Portugal)	flat	vie1440
		rising	vie1441
		falling	vie1442
yuan	yuan (China)	flat	vie1448
		rising	vie1449
		falling	vie1450
jiao	jiao (China)	flat	vie1456
		rising	vie1457
		falling	vie1458

Vietnamese audio (Sheet 11 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
fen	fen (China)	flat	vie1464
		rising	vie1465
		falling	vie1466
pound	pound (Ireland)	flat	vie1472
		rising	vie1473
		falling	vie1474
penny	penny (Ireland)	flat	vie1480
		rising	vie1481
		falling	vie1482
dong shekel zo tai	shekel (Israel)	flat	vie4000
		rising	vie4001
		falling	vie4002
agoro	agoro (Israel)	flat	vie4008
		rising	vie4009
		falling	vie4010
dong co ru na teip	koruna (Czech)	flat	vie4016
		rising	vie4017
		falling	vie4018
haleru	haleru (Czech)	flat	vie4024
		rising	vie4025
		falling	vie4026
dong li ra tou	lira (Turkey)	flat	vie4032
		rising	vie4033
		falling	vie4034
dong drachma i cap	drachma (Greek)	flat	vie4040
		rising	vie4041
		falling	vie4042

Vietnamese audio (Sheet 12 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
dong	dong (Vietnamese)	flat	vie4048
		rising	vie4049
		falling	vie4050
rup pee	rupee (Indian)	flat	vie4056
		rising	vie4057
		falling	vie4058
dong paisa	paisa (Indian)	flat	vie4064
		rising	vie4065
		falling	vie4066
seng	morning	flat	vie920
		rising	vie921
		falling	vie922
tchua	afternoon	flat	vie924
		rising	vie925
		falling	vie926
tchiu	evening	flat	vie928
		rising	vie929
		falling	vie930
dam	night	flat	vie932
		rising	vie933
		falling	vie934
nooa dam	mid-night	flat	vie936
		rising	vie937
		falling	vie938
tu	rank	flat	vie940
		rising	vie941
		falling	vie942

Vietnamese audio (Sheet 13 of 13)

Vietnamese phrase or English equivalent	English	Phrase intonation	File name
tang	month	flat	vie944
		rising	vie945
		falling	vie946
nam	year	flat	vie948
		rising	vie949
		falling	vie950
le	zero (used in numbers when 0 precedes a number)	flat	vie952
		rising	vie953
		falling	vie954
lam	five (used when five is in unit's place)	flat	vie956
		rising	vie957
		falling	vie958
chaan	even	flat	vie960
		rising	vie961
		falling	vie962