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Meridian Mail

Voice Forms Application Guide

Release 9.0 Standard 1.0 March 1994



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About this document

If voice forms are installed on your system, you should have the following documents:

- The *Meridian Mail Voice Forms Application Guide* (this document)
- The *Meridian Voice Forms Transcriber User Guide*

This application guide is intended as a step-by-step guide to the successful implementation of voice forms. It includes both planning information as well as administration procedures to guide you through the actual configuration of a voice form application. Worksheets and forms are provided throughout to help you plan your voice form applications. Illustrations of the Meridian Mail administration screens and field descriptions are provided in the sections of this guide that document how to configure an application in Meridian Mail.

Using voice form documentation

Before you begin creating your first voice form application, it is recommended that you read through all of the relevant information to be sure that you understand what is involved in creating voice forms.

- 1 Read the *Meridian Mail Voice Forms Application Guide* to get an overview of voice forms, to see some examples of how they can be used, and to learn how to plan a voice form effectively.
- 2 Plan your application using the worksheets that are provided.
- 3 When you have completed the planning phase, proceed to the chapter "Configuring voice forms" for instructions on how to configure the application in Meridian Mail.

- 4 When you are ready to learn about the transcription service, go to the *Meridian Voice Forms Transcriber User Guide* which shows you how to use the transcription service. For information about managing the transcription process, see the chapters "Transcribing voice forms" and "Maintaining and managing voice forms" in this document.

Related documents

Throughout this guide you may be asked to refer to any of the following documents:

Number	Title
555-7001-301	<i>Meridian Mail System Administration Guide</i> (You will have this document if your Meridian Mail system is connected to a Meridian 1 and you do not have the Multi-Customer feature.)
555-7001-302	<i>Meridian Mail System Administration Guide for Multi-Customer Systems</i> (You will have this document and the following document, if your Meridian Mail system is connected to a Meridian 1 and the Multi-Customer feature is installed.)
555-7001-303	<i>Meridian Mail Customer Administration Guide for Multi-Customer Systems</i>
555-7001-307	<i>Meridian Mail System Administration Guide</i> (For Meridian Mail systems that are connected to a DMS family or SL-100 switch that does not have the Multi-Customer feature.)
555-7001-308	<i>Meridian Mail System Administration Guide for Multi-Customer Systems</i> (This document and the following document are for Multi-Customer Meridian Mail systems that are connected to a DMS family or SL-100 switch.)
555-7001-309	<i>Meridian Mail Customer Administration Guide for Multi-Customer Systems</i> <i>Meridian Voice Forms Transcriber User Guide</i>
555-7001-325	<i>Meridian Mail Voice Menus Application Guide</i>

Refer to the following documents if you are using Meridian Mail MSM:

Number	Title
557-7001-300	<i>Meridian Mail MSM System Administration Guide for Multi-Customer Systems</i>
557-7001-301	<i>Meridian Mail MSM Customer Administration Guide for Multi-Customer Systems</i>
557-7001-302	<i>Meridian Mail MSM System Administration Guide</i>

Typographic conventions

The following typographic conventions are used throughout this document:

- **softkeys** are referred to in a procedure by using the label of the softkey (as displayed on a screen) enclosed by square brackets (for example, [Exit], [OK to Delete]).
- **Keyboard keys** are referred to in a procedure using the label of the key, enclosed by angle brackets (for example, <1>, <2>, <Return>).
- **Text input/user input** (where you are required to input specific text) is presented in bold print (for example, **abcd**).
- **Fields in a menu or screen**, when referred to in the text, appear in a different font and italicized (for example, *Last Name*, *Invalid Logon Attempts*).
- **Values in Fields**, when referred to in the text, are in quotes (for example, "Yes", "No", "Enable", "Disable").

The names of documents that are referred to throughout this guide are set in italics. For example: The *Meridian Voice Forms Transcriber User Guide*.

When a chapter title or section heading is referred to, it is enclosed in double quotation marks. For example: See the section "Adding a voice form definition".

Words which are in italics (other than document names) can be found in the List of Terms at the end of this guide. For example: The caller's *answers* are recorded and stored in the Meridian Mail system as a *response*.

Spoken prompts are enclosed in double quotation marks and are set in italics. For example: "*If you require assistance, press 0 to speak with an operator.*"

Chapter 1: Overview of voice forms

What are voice forms?

A *voice form* is the electronic equivalent of a paper form. It is "filled out" by callers who dial a special number which connects them to the voice form. (Alternatively, callers can be connected to a voice form through a voice menu or time-of-day controller.) The form is made up of a series of questions that are played over the telephone to the caller. The caller listens to each question and responds by giving a verbal answer. If callers require assistance while responding to a form they can press 0 to transfer to an operator (this functionality can be enabled or disabled for each voice form). The caller's *answers* are recorded and stored in the system as a *response*.

Voice forms are intended to help fulfill an organization's information-gathering needs. Voice forms can replace paper forms as well as certain information gathering tasks that are currently carried out over the phone (such as order taking).

Voice forms can be used to collect information from external sources (such as customers or potential clients) or from internal sources (employees). The following are examples of both types of information-gathering functions.

External

- application forms (credit cards, mortgages, new jobs, club memberships)
- order taking (mail order catalogs)
- requests for equipment service and repairs
- customer complaints
- customer satisfaction surveys
- registrations for a convention

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- ordering tickets to an event

Internal

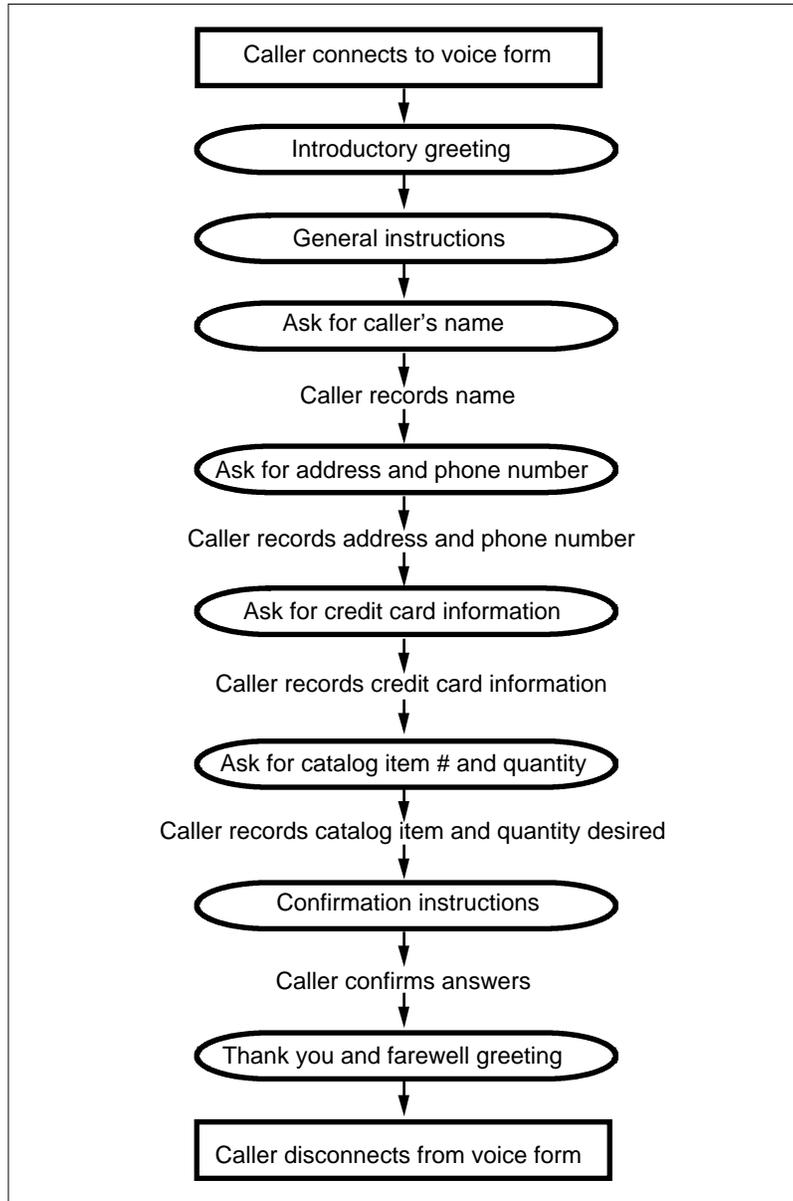
- notification of change of address
- suggestion box
- nominating employee of the month
- application for benefits
- registration for company picnic
- employee surveys

Voice forms can enhance your organization's ability to reach customers, potential clients and employees, by making services available 24 hours a day, from any location. If you are a service provider, you can also rent out voice forms to customers to fulfill a temporary need, or on a permanent basis.

A voice form can be a stand-alone application that a caller dials directly, or it can be integrated with other Meridian Mail features, such as voice menus. For example, you could have a voice menu that offers a series of voice forms for a product line: ordering the item, requesting service and repairs, completing a customer satisfaction survey, and applying for a credit card. Or, you could have a voice form activated during off-hours by a time-of-day controller so that orders can continue to be taken throughout the evening and on weekends.

Figure 1-1 is an example of the structure of a typical voice form.

Figure 1-1
Typical voice form structure



How are voice forms implemented?

The implementation of a voice form has three principal stages:

- 1 The voice form is planned, designed and configured.
- 2 Customers, potential clients, or employees call the voice form to provide the necessary information.
- 3 The information collected by the voice form is transcribed and processed.

With each of these stages, a different group of people is involved:

- the administrator
- the caller
- the translator

The administrator

The administrator identifies the need for a voice form, plans and designs the form, and configures it in Meridian Mail. Once the form has been created, the administrator also tests the form (by calling it and then transcribing it). The administrator keeps the voice form up-to-date by modifying or deleting the service as the needs of the organization change. He or she also manages any technical problems that may arise. This is generally the person who manages the overall Meridian Mail system. This job may be delegated, especially in a multicustomer environment.

The caller

This is the person who actually calls in and uses the voice form. All caller input is made by responding to the questions in the voice form verbally. Depending on how the voice form is configured, the caller may also be asked to confirm his or her questions by providing input from a telephone keypad (if the caller has a touch-tone phone).

For a detailed example of a caller session, including sample questions and answers, see Appendix B.

The transcriber

When a caller completes a voice form and hangs up, the caller's response is stored in Meridian Mail. It is the transcriber's responsibility to listen to the caller's response and process the information. You may even have an entire department of transcribers who are dedicated to transcribing voice forms.

Transcribers should be trained by the administrator and have access to the *Meridian Voice Forms Transcriber User Guide*.

To transcribe a voice form, the transcriber logs on to the transcription service using an access DN (much like users log on to Meridian Mail to listen to new messages). He or she plays back the responses that have been collected and processes the information (by entering the information into a database for tabulating or order processing, for example). The way in which the information is processed depends entirely on the reason that you are collecting the information.

If the notification feature is used, the message waiting indicator on the transcriber's phone is turned on when there are responses). If the notification feature is not used, the transcriber will log on to the voice form on a regular basis (predetermined by the administrator) in order to check for new responses. The notification feature is explained in the chapter "Transcribing voice forms".

See Appendix B for an example of a transcriber session.

System engineering

Before you configure any voice forms on your system, you will have to consider whether your current system configuration is capable of supporting this feature.

Determining system size

Review your system size and configuration with a qualified engineer. This is especially important if you are also using voice menus, because both voice menus and voice forms take a significant portion of storage space. The number of storage hours and channel allocations may change as a result. Identify your voice form (and voice menu) needs in as much detail as possible-how many do you plan on creating, how long will they be? The more detail the engineer has, the more accurate he or she can be when determining an appropriate system size.

Refer to NTP 555-7041-200, *Site and Installation Planning*. Read Chapter 1: "Determining system size".

Storage

Voice forms are stored in volume server 1 (VS1), regardless of the number of nodes on the system. (Note that voice menus are also stored on VS1). After you have configured your voice forms, back up VS1 to ensure the

security of your applications and continue to back up this volume on a regular basis.

Note: Caller responses to voice forms are not stored in the VS1 volume, but are stored in a user volume along with voice messages.

If you are planning on implementing a large number of voice forms/menus (20 or more), or if any of your voice forms/menus are lengthy (longer than 10 minutes), review this with your system engineer. It may be necessary to move your voice menus and voice forms to another volume. This can be done by a representative of your Northern Telecom support organization or a Northern Telecom distributor.

If, while you are in the process of creating voice forms (and/or menus), the system becomes full, contact your Northern Telecom support organization. They will probably have to reassign your menus and forms to another volume.

Scenarios

A voice form can be a stand-alone application that a caller directly dials or it can be part of a larger voice menu application in which it is one of many menu options to choose from.

The following scenarios are intended to give you an idea of how voice forms can be used. You may already have some ideas of your own about how you would like to implement voice forms in your organization. This section may stimulate the recognition of opportunities you hadn't originally considered.

Scenario 1

You have just installed the voice forms feature on your Meridian Mail system and you are keen to put it to use. You are responsible for determining the need for voice form applications in your organization, designing the applications, and configuring them. You need some way of discovering the current information-gathering functions that go on. You also want to know how these functions are currently handled in order to determine which ones would effectively transfer to a voice form application.

Since this is in itself an information-gathering function, and because you would like to get some practice at designing and configuring a voice form application, you could create a voice form to survey the department managers to find where and how information is collected. This is a simple

stand-alone application that is directly dialable by internal callers (an entry is therefore needed in the VSDN table). You yourself can record the prompts (this is generally true for any internal surveys that you would like to create). Send out a message to the managers asking them to take part in a survey about the types of information-gathering functions that occur in their departments.

Scenario 2

Your human resources department has some problems dealing with responses to a number of advertisements for new hires. The first problem is that many applicants are reluctant to call from open-plan offices or are too busy during normal hours to respond. Furthermore, there tends to be a flood of responses the day after several new ads appear in the newspapers and potential applicants get frustrated when they cannot get through to staff. The department wants to receive information from all interested applicants and would like to get more detailed information from applicants before calling back.

You could help solve this problem by creating an automated attendant. The number is published in the newspaper ads as a 24-hour, seven-days-a-week service which provides more information about each position and which takes information from the caller. For example, the ad could say "Call 555-0011 to find out more about these positions and to tell us about yourself." The automated attendant is a voice menu application. Each menu option corresponds to one of the advertised positions. When a caller selects an option, he or she is connected to the appropriate voice form. The form begins with a greeting which gives more detail about the selected job opening. (If for example, a particular position has been filled, the greeting is re-recorded to reflect this.) It then asks interested callers to stay on the line and respond to various questions which will help the department to screen applicants. At the end, callers are given the opportunity to leave a general message or comment. The person who is notified of new responses (through a message waiting indicator) is the staff member in charge of the advertisement, interviewing or hiring for a particular position.

Creating voice form applications-an outline

The "life" of a voice form can be divided into four principal stages:

- 1 Using the form
- 2 Transcribing the form
- 3 Maintaining the form

Creating the form

Even the simplest of voice forms requires some planning before it can be configured. Be sure to plan the voice form on paper first. You should have a good overall picture of how the voice form will work before you begin to configure it.

Planning

- 1 Identify and analyze the need for an application.
- 2 If a paper form already exists, obtain a copy. If not, draw a copy of it.
- 3 Flow chart or sequence the voice form.
- 4 Compose greetings, prompts and instructions.
- 5 Identify the general characteristics of the form.
- 6 Identify the fields within the form.
- 7 Identify the service through which the voice form will be accessed.
- 8 Identify the transcription service DN.

Configuring

- 1 Configure the form in Meridian Mail.
- 2 Choose a speaker and record the prompts.
- 3 Build the service through which the form will be accessed.
- 4 Define the transcription service DN.
- 5 Test the voice form.
- 6 Provide training to transcribers.
- 7 Cut the service over.

Using the form

- 1 Callers call into the form and record their responses.

Transcribing the form

- 1 Transcribers access the form through the transcription service and process the information collected by the form.
- 2 The information is then used to perform other tasks applicable to the organization (mail out an order, update a personnel file, approve a loan application, respond to a survey, and so on).

Maintaining the form

- 1 The form is monitored and updated as necessary or deleted from the system if no longer needed. This can involve conducting caller surveys and holding transcriber feedback forums.

Depending on your organization, a number of different people will probably be involved in this process. For example, an analyst (either internal to the organization or hired externally on a consulting basis) may be responsible for performing a needs analysis to determine the applications that will be created. The analyst may also be responsible for designing the application in the form of a flowchart. Otherwise, the administrator will be responsible for these stages of voice form creation.

At this stage, the administrator would take over and use the flowchart to configure the application. The administrator would then see to the scripting and recording of prompts. There are services which specialize in writing, editing and recording prompts. These services are especially useful when you have to create a complex application that involves voice menu applications (that may include announcements, thru-dialers and voice menus) as well as voice forms. A service is more likely to create a professional-sounding application because they will take care to ensure a high standard and consistency in the style and tone in which prompts are written. They will also have contacts with professionals who have been trained in speaking (such as actors). Smaller applications (and those that are internal to the organization, such as staff surveys) can probably be scripted by the administrator. In this case, the administrator could interview staff to find people who have suitable speaking voices. The administrator would also be responsible for arranging and/or delivering training for those people in the organization who have been designated as transcribers. Finally, the administrator will be responsible for maintaining the application and keeping it up-to-date.

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Chapter 2: Planning voice forms

Don't just jump in and begin configuring your application without planning it. Designing your voice form application on paper first is advantageous for several reasons. Identifying and sequencing the required prompts (or creating a flow chart) will give you an overall picture of the form structure before you begin. This will help you to see whether or not you have all of the necessary prompts. Furthermore, with the prompts there in front of you, you can test the structure of the form to see if it flows properly or if any questions or instructions have been left out. You may decide to leave certain prompts out, include prompts you didn't originally think of, or reorder the prompts to better achieve your information-gathering goals. Eighty percent of the work you will do to create a voice form is done during the planning stage. If you thoroughly plan your voice form, all you will need to do is copy your information into the system and test it.

Before you begin

Obtain the following materials to plan your voice form application:

- 1 One blank copy of the Voice Form Sequence Worksheet (Appendix A).
- 2 One blank copy of the Voice Form Definition Worksheet (Appendix A).
- 3 One blank copy of the No Answer Field Worksheet (Appendix A).
- 4 One blank copy of the Voice Answer Field Worksheet (Appendix A).
- 5 A note pad and pencil.

Recognizing the need for a voice form application

The first step in creating a voice form application is recognizing the need for one. Use the following guidelines to determine where information-gathering needs can be met with voice forms.

- 1 If some voice form applications have already been created, check the system to confirm if any of the existing voice forms can fulfill the need as they are or with some minor modifications.
- 2 Investigate the information-gathering functions that are currently being carried out. Talk to middle managers, department heads, directors, executives and employees. Some of these functions may currently be fulfilled by paper forms, whereas others may be carried out over the phone. For example, the following functions could be performed using voice forms:
 - monthly mail-out material
 - employee surveys
 - order forms that are mailed out in response to called-in requests
 - applications (for membership, credit card, mortgage, and so on)
 - order taking
 - requests for service and repairs
 - customer complaints
 - customer satisfaction surveys
 - update information (address change, new phone number)
 - polls
- 3 Identify which information-gathering functions could best be served by using a voice form.

For every function that you identify, describe how information is gathered today. If a form is currently used, get a copy of the form. Would a voice form provide a more reliable way of gathering information? Would a voice form be more convenient for your customers? If information is gathered over the phone, could a voice form do the job as well or better? Also look at how the collected information is currently processed. For example, is the information transferred to a database? Being aware of these issues will help you identify how the transcription process might work. You may need to design the voice form to support this process.

A poll of all the members of your organization could uncover major or minor communications problems that wouldn't be apparent otherwise. In fact, you could create a voice form application to do this survey for you.

Obtain or draw a copy of the form

If you are going to create a voice form to replace a paper form, get a copy of the form. If there is no existing paper form, imagine what it would be like and draw a copy for yourself. This will give you a good starting point for the design process. See Figure 2-1 for an example of an address change form.

For longer, more complex forms, group together similar questions. For example, in a credit card application, you might group together personal information (name, social insurance number, address, and so on.); employment information, or financial obligations (current credit cards, mortgages, and loans).

Figure 2-1xxx
An address change form

Address Change			
Date change goes into effect: _____			
Name: _____			
Social Insurance Number: _____			
Old Address: _____			
Street			Apt.

City	Province	Postal Code	
Old Telephone Number: (____) _____			
Area Code			
New Address: _____			
Street			Apt.

City	Province	Postal Code	
New Telephone Number: (____) _____			
Area Code			

Sequence and/or flowchart the application

Get your notepad and a copy of the Voice Form Sequence Worksheet. In this step you will take the written form and either draw a flowchart or simply put it into a numbered sequence or list.

You will use your list to verify whether or not the order is sound and logical, and to spot any "information holes"-did you forget to ask a question or provide an instruction to the caller? You might even find that a particular form just cannot be completed using voice forms. Obviously, it's better to find this out early in the process.

Before you create your list or flowchart, read the following sections on "Confirmation mode", "Answer length limit", "Additional requests" and "Access to the form". These voice form elements will affect the structure of your voice form. Build the considerations brought up in these sections into your list (if appropriate).

Confirmation mode

Confirmation is the process of asking a caller to confirm his or her answer to a question. This gives the caller a chance to re-record an answer up to three times. There are three confirmation modes to choose from: "None", "Whole Form" and "At Each Field" and they are described below. Because the confirmation mode that you select affects the flow and structure of the voice form, you should consider how you want to handle confirmation at this stage.

As you identify each question that will be included in the form, decide whether or not it needs to be confirmed. Try to decide early on whether you want the confirmation mode to be Whole Form or At Each Field (see the descriptions below) and incorporate this in your list or flowchart to get the most accurate representation of the form structure.

For each voice form that you create, select one of the following confirmation modes:

None

If you select "None", callers are not asked to confirm any of their answers.

Whole Form

If you select "Whole Form" callers are asked to confirm their answers when the confirmation marker is reached.

When you select Whole Form as the confirmation mode, it does not mean that callers will automatically be asked to confirm each question in the voice form. The confirmation mode simply indicates where confirmation should occur. When you configure a voice form field in Meridian Mail, you specify whether or not it should be included for confirmation. Therefore, if you only want callers to confirm seven out of ten questions, you would "tag" those seven fields for confirmation. The seven questions are played back when the confirmation marker is reached (typically near the end of the form before the farewell greeting) and callers have the opportunity to confirm or re-record their answers.

The caller hears the following prompts:

"Selected answers will now be played back to you so that you can confirm them." (This prompt is played if some, but not all questions were tagged for confirmation. See the note below for other prompts that may be played.)

The first answer requiring confirmation is played.

"If this is correct, press 1. To re-record the answer press 2."

Note: If only one question was marked for confirmation, the caller hears *"The following answer will now be played back to you so that you can confirm it."* If all questions were marked for confirmation, the caller hears *"Your answers will now be played back to you so that you can confirm them."*

At Each Field

If you select "At Each Field", callers are asked to confirm an answer immediately after it is recorded.

As with Whole Form confirmation, when you select At Each Field, this does not mean that callers will be required to confirm each question. You decide which specific questions are to be included in the confirmation process when you are defining the particular fields. This is described in detail later on.

If you select At Each Field as the confirmation mode, and a caller has just answered a question that is marked for confirmation, the caller hears the following:

"Your answer will now be played back to you so that you can confirm it."

The caller's answer is played back.

"If this is correct, press 1. To re-record the answer press 2."

Confirmation for rotary phone users

Because confirmation requires input from a telephone keypad, callers that are using rotary phones will not be able to confirm their answers.

If confirmation mode is either Whole Form or At Each Field, the system will try to determine if the caller has a touch-tone phone by playing the following prompt just before asking for the first confirmation: *"If you are using a touch-tone telephone, press 1 now."* If the caller does not respond with dual tone multifrequency (DTMF) input within a few seconds, the system assumes that this is a rotary phone user and the system will not ask for confirmation of questions. (If the caller has used DTMF during their session, for example to access the voice form through a voice menu, the system will know that the caller has a touch-tone phone and will not play this prompt.)

If you expect that a significant number of callers will have rotary phones, you may want to design a special confirmation process into your voice form especially for these users. Consider the following solutions.

Solution 1: At the end of the form, create a prompt that asks rotary phone users to stay on the line to confirm their answers. For example: *"If you have a rotary phone, please stay on the line to confirm some of your answers. If you have already confirmed your answers using a touch-tone phone, you may hang up now. Thank you for calling."* Then create one prompt for each field that needs to be confirmed. However, you will not be able to play the caller's initial answer back. Your prompt should say something like: *"If the new address you provided was correct, say YES. If not, please tell us the correct address."*

Note: Solution 1 is a very laborious process. Solution 2 is recommended.

Solution 2: At the end of the form, insert a single step that allows callers to correct any of their answers. You could create a prompt along the following lines: *"If you have a rotary phone, please stay on the line if you need to correct any of your answers. If you have already confirmed your answers using a touch-tone phone, you may hang up now. Thank you for calling. If any of your original answers were incorrect, please record a correct response now."*

Answer length limit

There is a maximum answer length limit for callers' answers. The default maximum length for any answer is 30 seconds. (This value can be changed by your Northern Telecom representative if it is not sufficient.) Keep this in mind as you identify your steps. Make sure no step demands so much information that it would take a caller longer than the maximum time allowed to respond. For questions demanding longer responses, see if you can break them down into several steps (questions) asking for more specific information. Make any necessary changes to your sequence now if you anticipate this problem.

Additional requests

In the case of a voice form designed to take product orders, you should consider what to do if the caller wants to order more than one item, or a different product. One solution is to insert a step asking callers to indicate the number of items (of the same product) they want to order. To handle callers who want to order a different product, you could insert a step to inform callers of how to order other products (this could be another voice form). Modify your sequence accordingly.

Access to the form

Consider how callers will access the form. You have the following options:

- Callers dial directly into the voice form. In other words, a VSDN is created specifically for the voice form.
- Callers dial into a voice menu service.

One of the options in the voice menu connects the caller to the voice form when selected. If you have a number of voice forms to be made available, you may be able to group some of them together and create a voice menu application as a front end. (For example, "*To order Product A, press 1. To order Product B, press 2.*") If this is the case, you will have two applications to design: the voice form and the voice menu. (Voice menu configuration is described in the *Voice Menus Application Guide*.)

- Callers dial into a time-of-day controller.

The caller is connected to the voice form application that is indicated in the time-of-day control definition for the day and time at which the call is received. Two applications are required: the voice form and the

time-of-day controller. (Time-of-day controller configuration is described in the *Voice Menus Application Guide*.)

Create a list of steps

Working from your copy of the paper form (an actual copy or your hand-drawn version) and keeping the preceding points in mind, do the following.

- 1 On your notepad, create a numbered list where each item represents a "step" in the voice form.

A step might be a greeting that is played to a caller, a question that is asked, or a request for confirmation. (You can, of course, change the order of this list at any time.) The list should therefore include: every prompt, the order in which prompts are played to callers, and the point(s) at which confirmation occurs. Once you have finished the sequence, run through it in your head, or better still, with someone else, to see if the sequence you have devised makes sense and to see if you have left anything out.

- 2 Once you are satisfied with your list, transfer it to the Voice Form Sequence Worksheet.

In this worksheet you classify each field as either a No Answer field or a Voice Answer field. Greetings and instructional prompts that do not require an answer from the caller are considered No Answer fields. Questions and requests are examples of Voice Answer fields. They require the caller to respond. (See the following section, "Composing greetings, prompts and instructions" for more information about the types of greetings and instructions you may have to include in your voice form.)

- 3 For each No Answer field, make a copy of the No Answer Field Worksheet. For each Voice Answer field, make a copy of the Voice Answer Field Worksheet.

For example, in the change of address voice form, you would need seven copies of the Voice Answer Field Worksheet and three copies of the No Answer Field Worksheet.

Figure 2-2 is a sample sequence based on the change of address form. In this example, Whole Form confirmation has been selected and two fields have been tagged for confirmation.

Figure 2-2
Sequence for a change of address form

1. Welcome
2. General instructions
3. Get date address change goes into effect
4. Get name
5. Get social insurance number
6. Get old street address, apartment, city, province and postal code
7. Get old telephone number (including area code)
8. Get new street address, apartment, city, province and postal code
9. Get new telephone number (including area code)
10. Caller confirms new address and phone number
11. Thank you and goodbye
12. Disconnect

If you want to include more detail (such as information about field type and confirmation), you might want to use the following worksheet to plan your sequence. Figure 2-3 shows a more detailed sequence using the same example of a change of address voice form. There is a blank copy of this worksheet in Appendix A of this guide.

Figure 2-3
Detailed sequence for a change of address form

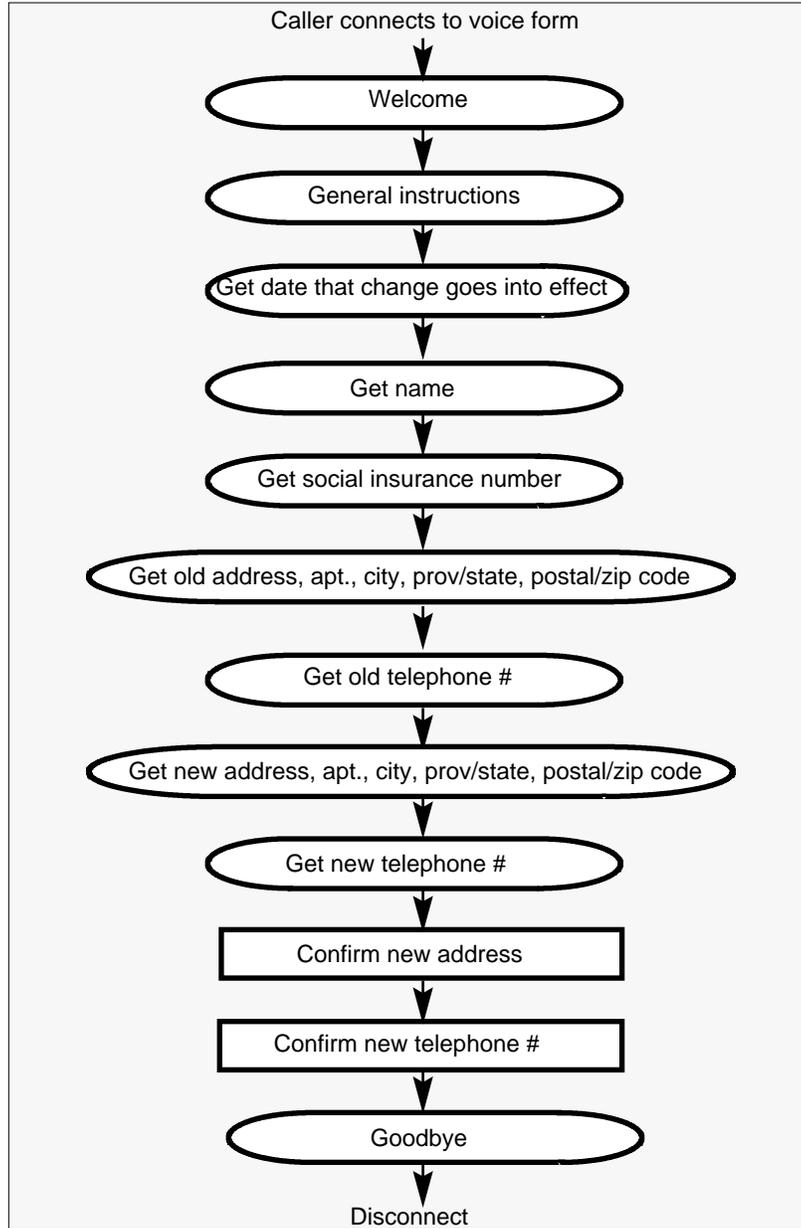
	Prompt (Field Name)	Answer?	Confirm?
1	Welcome	no	
2	General instructions	no	
3	Date of address change	yes	no
4	Name	yes	no
5	Social insurance number	yes	no
6	Old street address, city, province, postal code	yes	no
7	Old telephone number (and area code)	yes	no
8	New street address, city, province, postal code	yes	yes
9	New telephone number (and area code)	yes	yes
10	Caller confirms new address and phone number	no*	
11	Thank you and goodbye	no	
12	Disconnect		

*Although you don't create a confirmation field, you should prepare a No Answer Field Worksheet for it as a reminder of where the confirmation marker will be.

The list follows the original copy of the form. The main difference is that it includes any greetings, instructions and the confirmation process. Notice that some of the steps are combined into one prompt (address, apartment, city, province, and postal code). This information can be readily managed in one prompt.

If you prefer to follow the structure of an application by using a flow chart, refer to the sample flowchart in Figure 2-4. In this example, ovals represent prompts and rectangles represent points of confirmation.

Figure 2-4
Sample flowchart: change of address



Composing greetings, prompts and instructions

When using a voice form, callers cannot see the instructions or blank spaces as they can with a paper form. Therefore, these elements need to be provided verbally. Ask yourself what the caller needs to know in order to fill in the form. For example, all voice forms should begin with an introductory greeting to welcome the caller (this usually includes the name of your organization as a means of identification). In addition, you will need a thank-you and farewell greeting at the end of the form as well as instructional prompts to help callers use the form effectively.

The introductory greeting

The introductory greeting (or welcome) is the first prompt that callers will hear. It should identify your organization so that callers know where the call is being answered. It should also identify the service to which they have been connected. The introductory greeting is the first field in your voice form. Some examples are:

"Welcome to the Bank of Moosejaw FastCredit application system."

"Thank you for calling the Corona Confection Company. We appreciate you taking some time out to participate in our customer survey to help us assess your satisfaction with our products."

Instructional prompts

Instructions are necessary if callers are to use the form easily and effectively. Some of your instructions will inform callers of the keys they can press while using the voice form (if they have a touch-tone phone), others will outline how the form is structured or what information is expected from the caller. The following are examples of the types of instructional prompts you may need to include.

Number sign to stop recording

If a caller has finished responding to a question, or does not want to respond to a particular question, he or she can press number sign (#) to stop recording. Once recording stops, the next action in the voice form (next field, confirmation, disconnection) is carried out immediately. This makes it faster for callers to complete a form since they do not have to wait until the time specified in the *Answer Length Limit* field has expired. Appropriate wording would be *"After answering a question, press number sign to stop recording. You will either be presented with the next question or asked to confirm your answer."*

Zero (0) for assistance

If the *Caller '0' Allowed* field in the Voice Form Definition screen is set to yes, callers can press "0" at any time to connect with an operator. This gives callers the option of speaking with someone should they have problems completing the form or if they become uncomfortable using the application. Appropriate wording would be *"If you require assistance, press 0 to speak with an operator."*

Note: If there are rotary phone users in your area, you will have to modify your prompt to indicate that only callers with touch-tone phones can use this feature. For example: *"After answering a question, please wait on the line for the next question, or if you have a touch-tone phone, you can go immediately to the next question by pressing number sign. If you would like to speak to an operator at any time, press 0 if you have a touch-tone phone."*

Organization of the form

Since callers cannot "glance" over a voice form to get an idea of what information is expected of them, a brief summary at, or near the beginning of the form may be useful. For example, if you have created a credit card application, your questions will be organized into several categories. This summary could provide a breakdown of the categories in the order in which they will be presented.

For example: *"This application is broken down into four parts. The first part asks personal questions such as your name and current address. The second part asks questions regarding your employer. The third part asks about your resources. The fourth part asks about your financial obligations."*

Information required on-hand

Will you be asking for any information that the caller may not have on hand? For example, if you require a bank account number, the caller may not have this information handy and may have to look for it. If you suspect that callers may not have all of the necessary information on hand, include a prompt at the beginning of the voice form to point out the information that they will need to complete the voice form. If a caller does not have all of the necessary information, they should hang up and call back. This can save callers the frustration of getting halfway through a voice form and then having to hang up to retrieve the necessary information.

For example: *"You will need your current credit card numbers, bank account numbers, driver's license number and employer's address to complete this application. If you do not have all of this information on hand, please hang up, find the necessary information and call back."*

Confirmation

If you will be requiring callers to confirm (some of) their answers, you might want to tell them so at the beginning of the form. You could also specify when confirmation will occur (after each answer or at the end of the form.) This gives callers an idea of what to expect. Because confirmation requires input from a telephone keypad, callers with rotary phones must be offered an alternative procedure for confirmation.

You might want to create a very brief prompt at the beginning of your voice form such as: *"At the end of this survey, you will have an opportunity to confirm your answers."* Just before the caller is asked to confirm his or her first answer, you should have a more detailed prompt to identify how each type of user (rotary and touch-tone) will confirm. For example: *"You have reached the end of the survey. You will now have the opportunity to confirm your answers. If you are using a rotary phone, please stay on the line. Thank you."*

General guidelines for creating instructional prompts

You can combine all necessary instructions into one single announcement. When a number of these prompts are played back one after the other, the only silence that separates them is any silence that was recorded along with the prompt itself. Therefore, even if you split up the information into several prompts, they will string together nicely when played back as long as there isn't any extra recorded silence. Alternatively, you can divide them up into separate segments. This is a good idea if you think you may need to update just a small section on a regular basis or if you feel that you are presenting too much information at one time if you put all instructions into one prompt.

Write down your general instructions on your notepad. If you need to cover several or all of the above mentioned points, this can be a rather long prompt. If possible, read the script aloud to someone else to see if you are trying to present too much information at one time. If your general instructions are too long they will not be effective since most people will not remember much past the first three or four points. If you feel that there is too much information, review the script and see if you can inset some of

the information during other steps. For example, if you will be offering your callers the chance to change their mind and cancel an order, insert the information at the field where this action takes place, rather than at the beginning. Once you have come to a decision about how to present your instructions, write out a good copy on your notepad. You can transfer this information to the field definition worksheets when you are defining your fields.

The farewell greeting

This greeting should let the caller know that they have completed the form. Although there is a system "Goodbye" prompt, it is recommended that you turn it off and then record "Goodbye" as part of your farewell greeting so that the voice is the same for the greeting and the goodbye. For example: *"Thank you for calling the Corona Confection Company. We appreciate your business. Your order will be processed within 24 hours. Goodbye."*

Testing your sequence

When you have finished, the best way to see if your entire form works is to read each individual script aloud to someone. As you do so, write down their responses. Don't let the person responding to the form see the scripts or your copy of the written form. Ask your colleague for feedback on the flow of the form and the instructions/prompts. If your colleague is able to respond to your scripts and the form is complete when you have finished, your script works. If it doesn't fine tune it and find someone else to test it. Continue with this process until you have scripts that work. This process is especially important for long voice forms.

Before proceeding to the next section, you should have the following:

- A blank copy of the Voice Form Definition Worksheet
- One copy of the No Answer Field Worksheet for each No Answer field and one copy of the Voice Answer Field Worksheet for each Voice Answer field in your application

Staple these forms together to create a booklet which you can later use to configure the information in Meridian Mail and which you can keep as a record of this voice form.

Defining general form characteristics

For each voice form that you create, fill out a Voice Form Definition Worksheet (see page 2-17) to define the general characteristics of the voice form application. There is a blank copy of this worksheet in Appendix A.

Voice form characteristics can be classified into three groups: general form characteristics, caller characteristics, and transcriber characteristics. In the Voice Form Definition Worksheet, general form characteristics are designated with an F, caller characteristics with a C and transcriber characteristics, with a T. The worksheet lists these characteristics in the order in which they appear in the Add a Voice Form Definition screen. However, when you are planning your form, you might want to plan the form characteristics, followed by the caller characteristics, and finally finish with the transcriber characteristics.

Each item in the worksheet represents a field in the Add a Voice Form Definition screen. The following sections describe each of the fields in this screen in detail. As you decide how you want to configure these general characteristics, fill in the worksheet.

Voice Form Definition Worksheet

Page 1 of 2

F: Voice Form ID: _____

This is a unique voice service ID. It is not the VSDN.

F: Title: _____

T: Transcription Password: _____

Do you want transcribers to have to use a password to access the form for transcription? If not, leave blank.

C: Maximum Untranscribed Responses: _____

How many untranscribed responses will you allow to be stored on the system? If you have a lot of voice forms, or if the voice form is long, keep this number low. When the maximum is reached, callers are transferred to the DN specified below.

C: Overflow Handling DN: _____

When the number of untranscribed responses exceeds the maximum limit, where should callers be transferred?

T: New Responses Notification DN: _____

When a new response is recorded, who should be notified? If you are not using the notification feature, leave this field blank.

T: New Responses SMDI Link Name: _____

If you have multi-SMDI links, (only available on DMS-100, DMS-10, or SL-100) what is the name of the SMDI link (as defined in the hardware database) on which you want to send the new responses notification?

T: Special Responses Notification DN: _____

When a response is marked as special, who should be notified? If you are not using the notification feature, leave this field blank.

T: Special Responses SMDI Link Name: _____

If you have multi-SMDI links, (only available on DMS-100, DMS-10, or SL-100) what is the name of the SMDI link (as defined in the hardware database) on which you want to send the special responses notification?

T: Transcription Field Separator: Field Name Tone Silence

What do you want the transcriber to hear before the answer to each field is played?

T: Default Field Separator Delay: Stop Delay _____ deciseconds

During transcription, should playback stop after an answer is played or should it delay for a number of deciseconds between each response. This gives the transcriber time to process the answer.

T: Play Envelope for Header: No Yes

Do you want the transcriber to hear the header (response status and number) or the entire envelope (also includes the form name or ID and a date and time stamp)?

T: Delay after Header: _____ deciseconds

Do you want a delay to follow the header/envelope? (Only necessary if the header information needs to be transcribed.)

Voice Form Definition Worksheet

C: Caller Confirmation Mode: None At Each Field Whole Form

When will confirmation occur, if at all?

C: Default Revert DN: _____

If there is a problem using the form or if the caller presses 0 (if allowed), where should he or she be transferred?

C: Caller '0' Allowed: No Yes

Do you want callers to be able to press 0 for direct access to an operator?

C: System Messages File: _____ (language)

If you have a multilingual system, in what language should SYSTEM prompts be played?

How will callers access the service? **

1. Direct Access: VSDN: _____

2. Via Voice Menu Service: VSDN: _____ Menu ID#: _____

Title of Menu Service: _____

3. Via Time of Day Controller: VSDN: _____

Time of Day Controller ID: _____

Transcription Service VSDN: _____ **

** The VSDNs of the voice form (or the service through which it is accessed) and the transcription service can be configured after you have created the voice form. These VSDNs are discussed in the sections "Making voice forms accessible" and "Defining a VSDN for the transcription service" in the chapter "Configuring voice forms". When you define these DNs, be sure to enter them into the worksheet so that your record is complete.

Identify the voice form ID

This is the identification number that uniquely identifies this voice form definition. Within a customer group, this ID must be unique among all voice service application IDs (voice menus, announcements, thru-dialers, time-of-day controllers, voice forms and fax items). You can however, duplicate IDs between customer groups. For example, you can assign the voice form ID 1001 to a form in customer group 1 and then to another form in Customer Group 5. If you assign a duplicate ID, an error message will be displayed on the command line of the administration terminal. (In a single-customer system, this ID must be unique among all IDs on the system.) The voice form definition cannot be saved until you assign a unique ID number to it.

Come up with some sort of numbering scheme so that when you look at an ID you will know that it belongs to a voice form. For example, if all of your voice menus are numbered 333xxx, you may want to number your voice forms 444xxx.

Choose a title

Choose a title for the voice form. Ensure that it is descriptive enough of the form's purpose to allow you to easily recognize which voice form application you are dealing with.

Choose a transcription password

This password is optional. If you define a transcription password, transcribers trying to access the voice form will have to enter this password before being allowed to listen to caller responses. You may enter a password of 4 to 16 numeric characters in length (no spaces allowed). (To alter the minimum password length, contact your Northern Telecom support representative.) If you do not want transcribers to have to enter a password, leave this field blank.

Identify the maximum number of untranscribed responses

Decide how many untranscribed responses are allowed to exist at any one time for this voice form application. It is not recommended that you enter a value greater than 1000 (although this field will accept higher values).

If you will be creating a large number of voice form applications, be careful of how high you set this value. As the number of untranscribed responses is allowed to accumulate, the amount of free disk space will decrease and you may eventually reach full capacity. Prioritize your voice forms in terms of the importance of the responses you are expecting. Assign higher values to

your more important applications. For example, forms that are designed to take orders or record customer complaints and/or problems may be considered more important than customer surveys and probably warrant a higher value. In general, you should advise your transcribers to retrieve new responses as soon as possible. When this maximum limit is reached, callers can be reverted to an overflow handling DN.

You can also use this field to limit caller responses to a specific number. A good example is a phone-in giveaway in which the first 100 callers receive some sort of complementary gift. In this situation you could enter 100 as the maximum value so that only the first 100 caller responses are recorded.

Identify the overflow handling DN

This DN is used when the maximum number of untranscribed responses is reached. If the limit has been reached or surpassed, callers who try to access the voice form are transferred to the overflow handling DN. The DN may be from 1 to 30 characters in length using the following characters: 0-9, #, *, (,), -, _, \$ (however, the DN cannot start with '\$').

If you do not define an overflow DN (that is, if you leave the field blank when configuring the voice form definition), the following prompt is played to callers who reach the voice form when the maximum number of untranscribed responses has been recorded: *"No more responses can be recorded. Your call cannot be completed at this time. Please try again later Goodbye."*

Identify the new responses notification DN

This is the DN to which notification, indicated by a lit message waiting indicator (MWI) or interrupted dial tone, is sent to indicate that new caller responses exist and are awaiting transcription. This is necessary only if you want to use the notification feature. If you do not specify a notification DN, you will have to inform transcribers to log in on a regular basis to determine if any new responses have arrived.

The DN may be from 1 to 30 characters in length using the following characters: 0-9, #, *, (,), -, _, \$ (however, the DN cannot start with '\$').

If a transcriber is also a Meridian Mail voice messaging user, you cannot send the notification to his or her regular telephone set because the MWI (message waiting indicator) feature cannot differentiate between caller responses and voice messages. The new responses notification DN and the special response notification DN *must* be unique across all notification DNs in the system.

If you are going to use the notification feature, transcribers need separate telephones for notification of new voice form responses. Persons handling special responses also require a separate telephone for notification.

Select one of the following methods for notifying transcribers (and those who handle special responses). The first three methods use the notification feature. The fourth method does not use the notification feature at all and is an alternative to providing a separate phone for each voice form.

One form with multiple transcribers

If more than one person will be transcribing the same form, a central telephone can be installed, allowing everyone to see the message waiting indicator. If the transcribers are in different locations, the telephone sets must all be defined for multiple appearance. In this scenario, the new response notification DN is the primary DN for the sets.

Multiple forms with one transcriber

If you assign several forms to one transcriber, you will need to provide a separate telephone set for MWI for each voice form. Note that because the new responses notification DN must be unique across all notification DNs, you must assign one telephone set per voice form since you cannot enter the same notification DN for two different voice forms. If the transcriber is responsible for many voice forms, this can become unwieldy.

Multiple forms with multiple transcribers

You may decide to have several transcribers transcribing a number of voice forms. For example, there are five transcribers who are collectively responsible for twelve voice forms. Transcribers are not responsible for a particular voice form, but the first available transcriber is expected to log on to a voice form for which a new response has been recorded. In this case, you can install a row of telephones with MWI in a central location. Label each phone for a particular voice form. Any one of the transcribers can call any voice form to transcribe. Several transcribers can even transcribe the same voice form at the same time because each transcriber is presented with the oldest response that has not been transcribed.

Transcribers check their voice forms on a regular basis

If you cannot provide separate telephone sets to your transcribers or simply find it too unwieldy, an alternative solution is to assign a number of transcribers to a specific group of voice forms. The transcribers will then log on to their assigned voice forms and check for new responses on a regular basis (every hour, twice a day, once a day, and so on).

In this scenario, you will have to determine how often responses need to be transcribed for each voice form. This will depend on how critical the responses to a particular voice form are. For example, if the voice form logs customer requests for equipment repairs, you would want transcribers to check the form on a regular basis, such as every hour. Customer surveys or opinion polls that do not require a rapid response do not need to be transcribed as often. Inform each transcriber how often to log on to each voice form that he or she is responsible for.

Identify the new responses SMDI link name

This is necessary only for Meridian Mail systems using an SMDI link to connect to the telephone switching equipment. This is the name of the simplified message desk interface link in the hardware database which should be used for setting the MWI for new responses. Check the SMDI data port screen using Hardware Administration to determine the setting.

Identify the special responses notification DN

This is the DN to which notification, indicated by a lit MWI or interrupted dial tone, is sent to indicate that caller responses, marked as "Special" by transcribers, exist. Responses may be marked special if they could not be transcribed for some reason yet need to be taken out of the list of new responses. For example, the response may have been given in a language that the transcriber could not translate.

The DN may be from 1 to 30 characters in length using the following characters: 0-9, #, *, (, -, _, \$ (however, the DN cannot start with '\$').

See the description of the new responses notification DN for an explanation of the various notification options. The same conditions apply.

Identify the special responses SMDI link name

This is necessary only for Meridian Mail systems using an SMDI link to connect to the telephone switching equipment. This is the name of the simplified message desk interface link in the hardware database which should be used for setting the MWI for special responses. Check the SMDI data port screen using Hardware Administration to determine the setting.

Identify the transcription field separator

This field separator is used to indicate the start of an answer during transcriber playback. The field separator is heard immediately before an answer is played back. There are three transcription field separators to choose from: Field name, Tone, or Silence.

Field name

If this option is selected, a recording of the field name precedes the answer. The actual name is recorded in the Insert New Field or View/Modify Field screen using the [Voice] softkey.

Tone

If this option is selected, the transcriber hears a short tone before hearing the answer.

Silence

If this option is selected, each answer is preceded by a brief period of silence.

Identify the default field separator delay

This delay is used to provide some sort of pause after each answer to give the transcriber a chance to transcribe an answer. There are two options.

Stop

If this option is selected, the voice form stops playback after each answer is played. The transcriber must use the Play or Skip Forward command to go to the next answer.

Delay

This delay is specified in deciseconds. If this option is selected, playback will pause for the amount of time you have specified. The system then automatically resumes playback and goes on to the next answer.

A decisecond equals one tenth (1/10th) of a second. Therefore, to determine the number of deciseconds required, decide on the required duration of the delay in seconds and then multiply this value by 10. For example, to configure a delay of 1.5 seconds, enter 15 in this field. This delay can range from 0 to 32767 deciseconds.

Note: This parameter is also configurable for each field in the voice form. The value entered here is used as a default when new voice form fields are created.

Decide if the envelope should be played as the header

The header is played to transcribers each time they retrieve a new caller response. There are two headers that can be played: the standard response header or the envelope which contains additional information.

The standard header contains the status (new, special, or deleted) and the response number. The full header envelope contains the status, response number, form ID or form name and the date and time the response was recorded.

Identify the length of the delay after header

This is the delay that follows the standard header or envelope. This delay is useful if part of the header needs to be transcribed.

The delay can range from 0 to 32767 deciseconds. (1 decisecond = 1/10th of a second.)

Identify the caller confirmation mode

Confirmation and confirmation modes are described in detail earlier in this chapter (beginning on page 2-4) because the confirmation mode affects the structure of your voice form. You should, therefore, have already chosen your confirmation mode.

Identify the default revert DN

This is the DN to which callers are transferred if there is a problem accessing the voice form or if they explicitly ask to be transferred to an attendant by pressing "0". The DN may be from 1 to 30 characters in length using the following characters: 0-9, #, *, (,), -, _, \$ (however, the DN cannot start with '\$').

A revert DN can also be configured for each field in the voice form. The DN here is used as a default for each new voice form field that is created.

Decide if callers are allowed to press "0" to transfer to an attendant

If Caller 0 is allowed, callers are permitted to press "0" to transfer to an attendant. (Callers are transferred to the DN specified in the *Revert DN* field.) If it is not allowed in the voice form and a caller tries pressing "0" anyway, a message is played indicating that no operator is available. They have the option of continuing with the voice form or cancelling their call.

Note: If you allow callers to use "0", your introductory greeting should inform callers of this capability.

Assign a name to the field

Choose a name for the field. This name should be unique and descriptive enough to identify the function of the field. You may enter a name that is between 1 and 29 characters in length. (You cannot save the field without a name.)

Identify the action after field

Once the field prompt is played, what action should be taken? Choose from one of the following.

Next field

If this option is selected, the next field prompt will be played.

Revert

If this option is selected, the caller will be transferred to the revert DN (see next field description).

Disconnect

If this option is selected, the call is disconnected. This action is typically selected for the last field in the voice form that plays the farewell greeting and is used to disconnect the caller from the voice form.

Identify the revert DN

This is necessary only if the action after field is to revert the caller to another number. If this is the case, identify the DN.

Determine if the system disconnect message is necessary

This is necessary only if the action after field is to disconnect the call (because this is the last field in the form). If this is the last field, do you want the system to play its generic "Goodbye" prompt before disconnecting? If you have included a "Goodbye" in your farewell greeting, it is not necessary to do so.

Determine whether the response should be saved if the caller hangs up

If the caller hangs up while listening to this field prompt, should the system save the response (all of the answers recorded so far, if any) or discard it?

This should be given some consideration. If you want to be informed of all calls made to the voice form (complete and incomplete), set this field to "Yes" for all fields in the voice form. If you are not interested in incomplete responses, set this field to "No" for all fields except the last one. If you want to keep incomplete responses only if they contain some useful

information, you will have to decide at which point in the form enough useable information has been gathered. In the third case, you would probably set this field to "No" for the fields at the top of the form and then set it to "Yes" for all fields after a particular point (the point at which you believe enough useful information has been gathered). However, be sure that all fields after this point are set to "Yes", because whether a response is saved or discarded is determined by the setting of the field on which the caller hangs up.

Defining Voice Answer fields

This section describes the parameters that have to be configured for Voice Answer fields. You will fill out one Voice Answer Field Worksheet per field. As you fill out these worksheets, keep the Voice Form Definition Worksheet next to you as you will probably refer to it several times.

Voice Answer Field Worksheet	Page 1 of 1
Field Name: _____	
Field Prompt: _____	
<p>Field Name recorded: _____</p> <p>State the field name as a descriptive. Callers and transcribers will hear this "label" before the response is played back to them.</p>	
<p>Answer Length Limit: _____ seconds</p> <p>This field determines the maximum length of the caller's answer to this prompt. The default maximum value is 30 seconds. This maximum value can be changed.</p>	
<p>No Answer Handling (circle one): NextField Revert Disconnect Repeat</p> <p>Choose the action that should be taken if the caller does not record an answer once the field prompt is played: NextField - The next field prompt will be played. Revert - The caller will be transferred to the revert DN specified for this field. Disconnect - The call is disconnected. Repeat - The field prompt is repeated for an adjustable but limited number of times; when this limit is reached, the caller is disconnected. The next field is not played.</p>	
<p>Revert DN: _____</p> <p>If Revert is selected for No Answer Handling, enter the DN to which the caller is transferred. If no DN is entered, the default revert DN for the form is used.</p>	
<p>Repeats before Disconnect: _____</p> <p>If Repeat is selected for No Answer Handling, enter the number of times the current prompt should be repeated before the caller is disconnected from the voice form. Note that the next field is not played when Repeat is selected.</p>	
<p>Stop Recording on Silence (circle one): No Yes</p> <p>This field determines what happens if the caller is silent for a predetermined length of time during recording. (This time period, in seconds, can be adjusted by the NT support organization.) If Yes is selected, recording stops and the next action in the form is taken. If No is selected, the recording period continues for the amount of time specified in the Answer Length Limit field.</p>	
<p>Field to be Confirmed (circle one): No Yes</p> <p>If confirmation mode is Whole Form or At Each Field, select yes if you want callers to confirm their answer to this question.</p>	
<p>Save Response if Hangup (circle one): No Yes</p> <p>Choose Yes if you want the voice form to be saved should the caller hang up at this prompt (that is, enough valuable information has been saved at this point). Choose No if the information collected so far is not of use on its own.</p>	
<p>Field Separator Delay (circle one): Stop Delay (deciseconds: _____)</p> <p>This field affects the transcription process. Choose Stop if you want playback to stop after the caller's answer has been played (the transcriber has to enter a specific command to resume playback). Choose Delay (and specify a value) if you want playback to pause for the specified amount of time after which playback will automatically resume.)</p>	

Assign a name to the field

Choose a name for the field. This name should be unique and descriptive enough to identify the function of the field. You may enter a name that is between 1 and 29 characters in length. (You cannot save the field without a name.)

Identify the answer length limit

This is the maximum recording length (in seconds) allowed for a caller's answer to the prompt recorded for this field. The minimum value is 1 second and the default maximum value is 30 seconds. This upper limit can be changed by a representative of your Northern Telecom support organization (and may have already been changed during installation). Use shorter limits for yes/no answers and longer limits for answers that require more detailed information. If you feel that the question cannot be answered in the maximum time allowed, reword it so that it asks for more specific information or break it into several questions if possible. If you find that this is the case for many of the questions you are including in voice forms, call your Northern Telecom support organization and ask to have this upper limit changed.

Identify how to handle "no answer" situations

If a caller does not provide an answer for this field, what action should the system take? There are four options.

Next field

If this option is selected, the next field prompt is played. Transcribers will hear the message *"No answer was recorded"* when this field is reached during transcription.

Revert

If this option is selected, the caller is transferred to the revert DN specified for this field. This could be the DN of an operator designated to handle calls from people having trouble filling in forms or a transcriber if he or she is usually situated at his or her telephone set.

Disconnect

If this option is selected, the call is disconnected if the caller does not record an answer. The system plays *"Goodbye"* before doing so. (Don't mistake this with the Action After Field disconnect.) This action may be selected for high-volume voice forms where it is important that callers do not tie up lines or if all questions must be answered for the form to be processed. Otherwise, this option is not recommended.

If during testing, or while the form is in use, it is noticed that callers are being disconnected unexpectedly, it may be because "Disconnect" was unintentionally selected for a field. This is the first thing to check should this occur.

Repeat

If this option is selected, the field prompt is repeated. If the caller still fails to record an answer, the field prompt will be played again. This continues until the number of repeats specified in the *Repeats Before Disconnect* field has been reached. Once this limit is reached, the caller is disconnected from the voice form. The next field is *not* played.

Note: Silence compression must be enabled for this feature to work. See the chapter "Set silence compression" in the *System Administration Tools Guide*.

Identify the revert DN

This is necessary only if "No answer handling" is set to revert. If this is the option you selected, identify the DN to which the caller should be reverted.

Identify the number of repeats before disconnecting

This is necessary only if "No answer handling" is set to repeat. If this is the option you selected, identify the maximum number of times the prompt is to be repeated before disconnecting the caller from the voice form.

Determine whether recording should stop if silence is detected

If there is silence (four seconds) while a caller is recording an answer, you have the option of stopping recording or recording the silence until the maximum answer length limit has been reached.

It is generally recommended that you do not record silence for two reasons:

- Rotary phone users cannot press # (number sign) to go to the next question. This means that they will have to wait a considerable amount of time between their recorded answer and the next question.
- Even though you may inform callers to press # to go to the next question in your greeting, many will not and will just wait on the line. As with rotary phone users, they will be required to wait until the maximum answer length limit has been reached.

If callers find they have to wait a long time between questions, they may get frustrated and hang up.

If you find that callers are being inadvertently cut off (if they are searching for information, for example), you can call your Northern Telecom technical support center and ask them to change the four second default.

Note: Silence compression must be enabled for this feature to work. See the chapter "Set silence compression" in the *System Administration Tools Guide*.

Identify whether the field needs to be confirmed

This is necessary if the confirmation mode for this voice form is Whole Form or At Each Field. You can selectively choose to have this field confirmed, or not confirmed by the caller.

If the confirmation mode is At Each Field and this field is marked to be confirmed, callers will be asked to confirm their answer for this voice form field immediately after their answer has been recorded.

If the confirmation mode is Whole Form and this field is marked to be confirmed, callers will be asked to confirm their answer for this voice form field when the confirmation marker is reached, along with any other fields that have been marked for confirmation.

Determine whether the response should be saved if the caller hangs up

If the caller hangs up while listening to this field prompt, should the system save the response (all of the answers recorded so far, if any) or discard it?

This should be given some consideration. If you want to be informed of all calls made to the voice form (complete and incomplete), set this field to "Yes" for all fields in the voice form. If you are not interested in incomplete responses, set this field to "No" for all fields except the last one. If you want to keep incomplete responses only if they contain some useful information, you will have to decide at which point in the form enough useable information has been gathered. In the third case, you would probably set this field to "No" for the fields at the top of the form and then set it to "Yes" for all fields after a particular point (the point at which you believe enough useful information has been gathered). However, be sure that all fields after this point are set to "Yes", because whether a response is saved or discarded is determined by the setting of the field on which the caller hangs up.

Identify the field separator delay

This delay is used to provide some sort of pause after each answer to give the transcriber a chance to transcribe an answer. There are two options.

Stop

If this option is selected, the voice form stops playback after the answer to this field is played. The transcriber must use the Play or Skip Forward command to go to the next answer.

Delay

This delay is specified in deciseconds. If this option is selected, playback will pause for the amount of time you have specified. The system then automatically resumes playback and goes on to the next answer.

A decisecond equals one tenth (1/10th) of a second. Therefore, to determine the number of deciseconds required, decide on the required duration of the delay in seconds and then multiply this value by 10. For example, to configure a delay of 1.5 seconds, enter 15 in this field. This delay can range from 0 to 32767 deciseconds.

Identifying the service through which the voice form will be accessed

Decide how the voice form will be accessed by callers. A voice form can be accessed in one of three ways:

- 1 Directly. The caller dials a DN that has been dedicated to the voice form and is immediately connected to the voice form application. The VSDN of the voice form is the published number.
- 2 Indirectly, through a voice menu application. The published number connects the caller to a voice menu. The caller accesses the voice form by pressing the appropriate menu key.

If you have a number of voice forms that are related in some way (for example, they all relate to a particular product line), you can create a voice menu as a front end. Publish the number of the voice menu to your customers and tell them to call it if they would like to place an order for Product X, register a complaint against Product X, respond to a customer satisfaction survey, or apply for a credit card. Each of these options would be a menu action.

- 3 Indirectly, through a time-of-day controller. If the voice form is associated with the time of day at which the call is received (business hours, off-hours, or a holiday), the caller is connected to the voice form. This is useful if you want operators to take customer orders during the day, but would like to continue to take orders in the evenings or on weekends when they are not around. Simply associate the voice form with off-hours in the time-of-day control definition.

If you are going to modify an existing voice menu or time-of-day controller, find the service DN in the Voice Service Directory Number (VSDN) table. If you are going to create a special voice form service, or a new menu or time-of-day controller, find an available DN. Enter the DN on the second page of the Voice Form Definition Worksheet.

Identifying the transcription service DN

Once you have completed your first voice form, you will have to define a VSDN for the transcription service. To transcribe a form, you must first access the transcription service, much like you access voice messaging to retrieve voice messages. You can either configure one generic transcription service or you can create a number of transcription services.

Using one generic transcription service

This configuration allows any transcriber to log on to any form for transcription. When the transcriber dials the DN, he or she is prompted for the voice form ID (as entered in the Voice Form Definition Worksheet). If you specify a transcription password, the transcriber must also provide a password to access the form. This is the most flexible way of configuring the transcription service.

Identify an available DN and enter it on the second page of the Voice Form Definition Worksheet.

Using a number of transcription services

In this configuration, you create one transcription service per voice form. When a transcriber dials the DN, he or she is automatically logged on to the voice form that is associated with the VSDN. The transcriber will still have to enter a password if you have defined a transcription password in the Add a Voice Form Definition screen. If you have a small number of voice forms on the system, you might want to use this method. However, the first method is recommended in most situations.

Identify an available DN and enter it on the second page of the Voice Form Definition Worksheet.

2-34 Planning voice forms

Chapter 3: Configuring voice forms

With the planning phase behind you, the majority of your work is already done. The worksheets that you completed are outlines of the Meridian Mail administration screens you will be using to configure your voice form application. Now it is just a matter of copying the data in your worksheets directly into the system, recording the prompts that you have scripted, and testing the service.

You can configure a voice form in stages or all at once. However, it is recommended that you configure the form in one session if possible because you will be less likely to make mistakes. Furthermore, the voice form administration screens are designed so that one step leads you into the next. For example, general form characteristics are defined in the Add a Voice Form Definition screen. Once you are finished with this stage and are ready to define your fields, you access the List of Fields screen from the Add a Voice Form Definition screen. From the List of Fields screen, you insert a new field.

Guidelines for configuring voice forms

The following topics should be considered before you begin configuring your voice forms.

Recording the prompts

You can approach voice form configuration in one of two ways: you can either (a) make the necessary recordings (the field name and the field prompt) for each field as you define the fields or (b) define the fields first without recording the prompts and then go back and record the prompts in a separate recording session.

Note: Voice form prompts cannot be recorded or maintained using the voice prompt maintenance service. The administrator must access the

voice form through the local administration terminal (or a remote terminal) to make or update recordings.

Record as you define fields

This is the recommended method for short voice forms. You will need to coordinate a time when both the administrator and the person doing the recordings can work together. Choose a time when the environment is quiet—perhaps outside business hours. Minimize air-conditioning noise if it is intrusive, and allow only the people essential to the recording in the room while recording is taking place.

Record after the fields are defined

This is the recommended procedure for lengthy or complex applications. It can take quite a while just to define the fields which tends to break up the flow of the recordings. By having 90% of the configuration process complete before you record, you (and the speaker) can totally focus on the recording process and the recording can be done in one session. This will make it easier for the person to maintain the same voice quality throughout the application as much as possible. Furthermore, if you are using a professional service to record your prompts, you should not have to interrupt a recording session to configure fields.

Choosing the speaker

Remember that no matter how well your applications are designed, if the recorded voice you use is unpleasant or difficult to understand reaction to the applications will not be positive.

Though telephone lines reproduce low-pitched voices best, a clear voice is better than one that sounds ‘gravelly’. If practical, try to use only one voice or one gender, because callers may be distracted by changes in speakers. Choose a voice and accent that projects the image your organization wants to promote. The voice itself and the prompts should sound relaxed, confident, efficient, and friendly. If you have a lot of recordings that will need updating regularly, choose someone who can be available to update them. If this is difficult, select a few people with similar voice qualities who can share the responsibility.

Audition prospective speakers in a quiet room, then play back samples of their voices over the telephone. A good way to audition speakers is to have them leave messages or read sample scripts in your mailbox. The same technology that stores the voice in a mailbox is used for voice forms, so you’ll have an accurate account of the end result.

Configuring voice forms in Meridian Mail

Procedure 3-1 details the steps that are necessary to configure a voice form in Meridian Mail.

Procedure 3-1xxx Configuring a voice form in Meridian Mail

Step	Description	See this section
1	View the voice forms screen.	"Viewing a list of existing forms: the Voice Forms screen"
2	Add a new voice form definition using the [Add] softkey.	"The Add a Voice Form Definition screen"
3	Define the form characteristics by filling out the Add a Voice Form Definition screen.	"Defining general form characteristics"
4	View the list of existing fields for the voice form.	"The List of Fields screen"
5	Open a field for each question or prompt that will make up the voice form.	"Opening/modifying fields"
6	Define the voice form fields.	"Inserting a new field"
7	Record the field prompts.	"Recording field prompts and field names"
8	Save the voice form definition.	"Saving the voice form definition"
9	Build the service through which the voice form will be made accessible.	"Making voice forms accessible"
10	Build the transcription service.	"Defining a VSDN for the transcription service"

Notes about the differences between multicustomer and single-customer systems:

- 1 Voice forms can only be created and maintained at the customer administration level. Either log on to the Meridian Mail administration terminal with the customer administrator password, or use the system administrator password and then select Customer Administration.
- 2 All voice forms administration screens will display the customer's name in the upper left-hand corner. The left-hand corner in single-customer systems is blank.

- 3 In single-customer systems, references to the Main menu will be made. However, in multicustomer systems, customer administration screens are all invoked from the Customer Administration menu. Therefore, in procedures you will see mention of both the Main menu (applicable to single-customer systems) and the Customer Administration menu (applicable to multicustomer systems).

Viewing a list of existing voice forms: the Voice Forms screen

Voice forms are administered from the Voice Administration menu (see Figure 3-1). The voice form administration screens are invoked by selecting the Voice Form Definitions item from the menu which causes the Voice Forms screen to be displayed. If you have just installed voice forms and have not yet created any voice form applications, this screen will not list any voice forms and appears as depicted in Figure 3-2. Once you have created at least one voice form, additional softkeys appear at the bottom of the screen, as shown in Figure 3-3. This screen presents a complete list of the voice form definitions currently defined for the customer group.

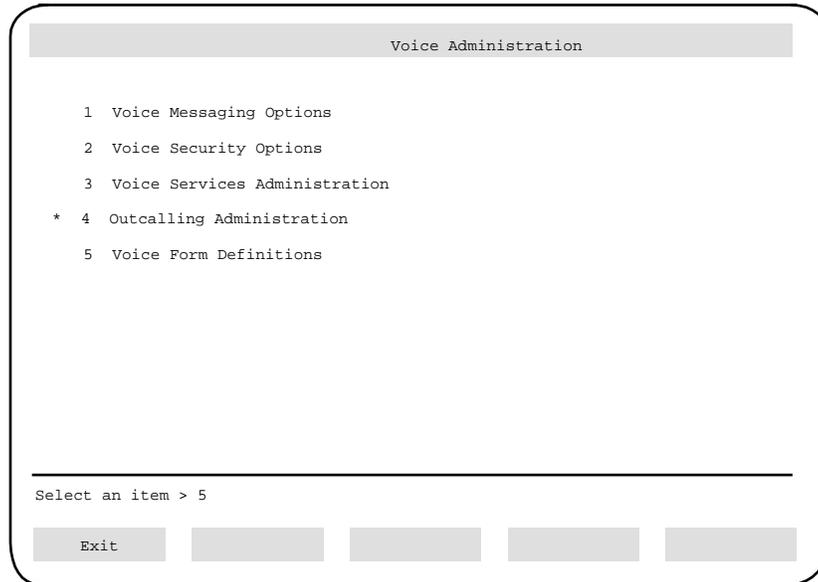
Procedure 3-2xxx Accessing the Voice Forms screen

Starting point: The Main menu or the Customer Administration menu

- 1 Select Voice Administration <Return>.

The Voice Administration menu (Figure 3-1) is displayed.

Figure 3-1xxx
The Voice Administration menu



* This item is displayed only if Outcalling is installed.

2 Select Voice Form Definitions <Return>.

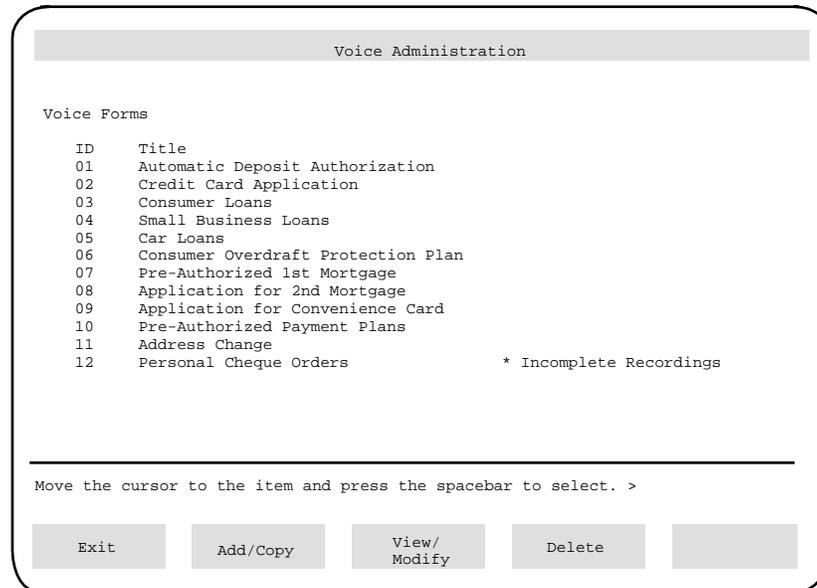
The Voice Forms screen (Figure 3-2 on a new system or Figure 3-3 if voice forms have been created) is displayed.

From this screen it is possible to add a new voice form definition, copy from an existing definition, view an existing definition, modify an existing definition, delete an existing definition, or return to the Voice Administration menu. These actions are described in the following pages.

Figure 3-2xxx
The Voice Forms screen (before any voice forms are created)



Figure 3-3xxx
The Voice Forms screen (after voice forms have been created)



The following information is displayed for each existing voice form definition:

- The form ID number. This number is defined when you add a voice form definition.
- The title of the voice form application.
- A status flag, if necessary, to indicate incomplete recordings. This flag is displayed if a voice form definition has been saved with one or more of its required field prompts or field names left unrecorded or if the form does not contain at least one field.

Note: A voice form application cannot be used if there are incomplete recordings.

You may have to check the Voice Forms list from time to time to keep yourself updated on the current application load, as well as to verify which forms are incomplete, and therefore nonfunctional.

Adding a new voice form definition

If you are creating your first voice form, or if the required application is significantly different from other existing voice form applications, you will need to add a new voice form definition. This creates a file which contains all of the information that is relevant to the particular voice form application.

Defining general form characteristics

New voice form definitions are added to the system using the Add a Voice Form Definition screen (Figure 3-4). The fields in this screen define the general structure and characteristics of the voice form application. See the chapter "Planning voice forms" for a description of the fields.

The procedure for adding a voice form definition is different if you are adding the very first voice form. Follow Procedure 3-3 to add the first voice form to a customer group. For all subsequent voice forms, follow Procedure 3-4.

3-8 Configuring voice forms

Procedure 3-3xxx **Adding the first voice form definition**

Starting point: The Voice Forms screen

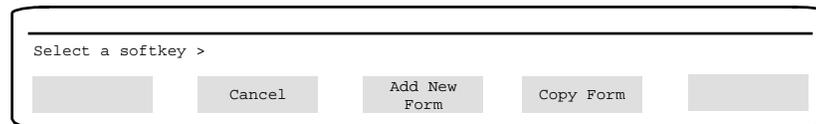
- 1 Press [Add].

The Add a Voice Form Definition screen is displayed (see Figure 3-4).

Procedure 3-4xxx **Adding subsequent voice form definitions**

Starting point: The Voice Forms screen

- 1 Press [Add/Copy].
- 2 A new set of softkeys is displayed as shown below.



- 3 Select [Add New Form].

The Add a Voice Form Definition screen is displayed (see Figure 3-4).

Figure 3-4xxx
The Add a Voice Form Definition screen

Voice Administration

Add a Voice Form Definition

Voice Form ID: 02

Title: Credit Card Application

Form Name Recorded (Voice): No

Transcription Password: 6060

Maximum Untranscribed Responses: 1000

Overflow Handling DN: 8050

New Responses Notification DN: 8051

*New Responses SMDI Link Name DN: _____

Special Responses Notification DN: 8052

*Special Responses SMDI Link Name: _____

MORE BELOW

Select a Softkey

Save
Cancel
Open/Modify Fields
Voice

Voice Administration MORE ABOVE

Add a Voice Form Definition

Transcription Field Separator: [Field Name] Tone Silence

Default Field Separator Delay: Stop [Delay] deciseconds: 0

Play Envelope for Header: [No] Yes

Delay After Header (deciseconds): 30

Caller Confirmation Mode: [None] At_Each_Field Whole_Form

Default Revert DN: 0

Caller '0' Allowed: [No] Yes

**System Messages File: [English]
French

select a softkey>

Save
Cancel
Open/Modify Fields
Voice

* These fields are displayed only if there are multiple SMDI links on the system.
 ** This field is displayed only if more than one language is installed.

4 Use your worksheet to fill in the fields.

Opening/modifying voice form fields

Once you have defined the characteristics of the form as a whole, you are ready to add and define the necessary fields. Each greeting, instruction, prompt and question that is to be included in the voice form application requires a field. The field definition that you create contains the actual recorded prompt, the recorded field name (for Voice Answer fields) which is played back to transcribers and to callers during confirmation and characteristics that are specific to each field.

Procedure 3-5xxx Opening/modifying fields

Starting point: The Add a Voice Form Definition screen

- 1 Press [Open/Modify Fields].

The List of Fields screen is displayed. See Figures 3-5 and 3-6. Figure 3-5 shows how this screen looks if no fields have been defined. Figure 3-6 shows an example of how this screen looks if fields have already been defined.

Figure 3-5xxx
The List of Fields screen (no voice forms defined)

Voice Administration

List of Fields Form ID: 02 Title: Credit Card Application

Field Name	Type	Prompt Rec.	Name Rec.	Modified
	<CONFIRMATION>			
	<END-OF-FORM>			

Move selection bar to a field, then select a softkey>

Close Fields Insert New Field [] [] []

The only entry in this screen is the <END-OF-FORM> marker in the Type column. If you have selected Whole Form as the confirmation mode, the <CONFIRMATION> marker will precede the <END-OF-FORM> marker.

Figure 3-6xxx
The List of Fields screen (existing voice forms)

Voice Administration

List of Fields Form ID: 02 Title: Credit Card Application

Field Name	Type	Prompt Rec.	Name Rec.	Modified
Welcome	No Answer	Yes		
Name	Voice Answer	Yes	Yes	
S.I.N.	Voice Answer	Yes	Yes	
Street Address	Voice Answer	Yes	Yes	
City/Prov	Voice Answer	Yes	Yes	
Postal Code	Voice Answer	Yes	Yes	
Phone Number	Voice Answer	Yes	Yes	
Years at address	Voice Answer	Yes	Yes	
Employer	Voice Answer	Yes	Yes	
Street Address	Voice Answer	Yes	Yes	
City/Prov	Voice Answer	Yes	Yes	
Postal Code	Voice Answer	Yes	Yes	
Phone Number	Voice Answer	Yes	Yes	
Years Employed	Voice Answer	Yes	Yes	
Thank you	No Answer	Yes		
	<CONFIRMATION>*			
	<END-OF-FORM>			

Move selection bar to a field. Then select a softkey >

Close Fields
Insert New Field
View/Modify Field
Delete Field
Move Field

* The confirmation marker is displayed only if Confirmation Mode is Whole Form

The following read-only fields are displayed:

- **Form ID** Serves to remind you of the voice form definition you have selected to modify.
- **Title** Serves to remind you of the voice form definition you have selected to modify.
- **Field Name** The name of the existing field.
- **Type** This field indicates whether or not an answer is expected for the field. There are, therefore, two types of fields:
 - *No Answer* fields only play a prompt. No answer is expected from the caller.
 - *Voice Answer* fields play a prompt and record an answer.

- **Prompt Rec** This field indicates whether or not a voice prompt has been recorded for the associated field. (A voice prompt can be a welcome or farewell greeting, a question or an instruction.) If there are incomplete recordings, that is, fields for which there is no prompt recording, callers will not be able to use the voice form.
- **Name Rec** This field indicates whether or not a recording of the field name has been made. Only Voice Answer fields can have field names. This name is announced to callers during confirmation and to transcribers during transcription.
- **Modified** An asterisk (*) in this field indicates that the field has been modified at any time since this voice form has been opened for editing.

Markers

There are two markers that can appear in the *Type* field.

<END OF FORM>

This marker is always present and cannot be deleted or moved. It is the final entry in the *Type* field and indicates the end of the list of fields for this form. All of the fields that you create will appear above this marker.

<CONFIRMATION>

This marker only appears if you set the Caller Confirmation mode to "Whole Form" in the Add a Voice Form Definition screen.

It indicates the place at which the caller will be asked to confirm his or her answers. By default, this marker appears just before the <END-OF-FORM> marker, but you can move it using [Move Field]. This may be necessary if you want to include a thank you or farewell prompt just before the caller is disconnected from the form (and therefore, after confirmation). Or, after the caller confirms his or her answers, you may want to include a prompt that asks callers to leave comments of a more general nature. See the section "Moving a field" for more information.

If "At Each Field" was selected as the confirmation mode, callers are asked to confirm an answer immediately after it is recorded. You will not, however, see the <CONFIRMATION> marker in the List of Fields screen.

Inserting a new field

If you are creating a voice form from scratch, you will have to define all of the fields that are to make up the application. New fields are added to a voice form definition using [Insert New Field] in the List of Fields screen. Once you have created a voice form, you can always return to it and insert more fields if required. (See the section "Modifying or viewing a voice form definition" on page 3-29 for details.)

Before pressing [Insert New Field], make sure that the cursor is in the correct location and that the <Spacebar> has been pressed to highlight the current line. When you insert a new field, it is placed in the row above the cursor. Step 1 in Procedure 3-6 describes the correct cursor placement for adding fields.

For procedure 3-6, get the New Field Worksheets for No Answer Fields and the New Field Worksheets for Voice Answer Fields that you filled out while planning your voice form. You will have one worksheet per field. Simply enter the values from these worksheets into the Insert a New Field screen. See the chapter "Planning voice forms" for a description of the fields on this screen.

Note: You can define up to 150 fields for a single voice form application

Procedure 3-6xxx Inserting a new field

Starting point: The List of Fields screen

- 1 If this is the first field to be added to the voice form, go to step 1a. For subsequent fields, go to step 1b.
 - a. Position the cursor on the <CONFIRMATION> marker (if it is present). If there is no <CONFIRMATION> marker, position the cursor on the <END-OF-FORM> marker.
 - b. Position the cursor to indicate where the new row should be inserted. The new row will be inserted above the row in which the cursor is placed. When you are ready to insert the last field in the form, position the cursor on the <END-OF-FORM> marker.
- 2 Press <Spacebar> to select the row.
- 3 Press [Insert New Field].

The Insert New Field screen is displayed.
- 4 Select the Field Type.

Figure 3-8xxx
The List of Fields screen (with the Welcome field added)

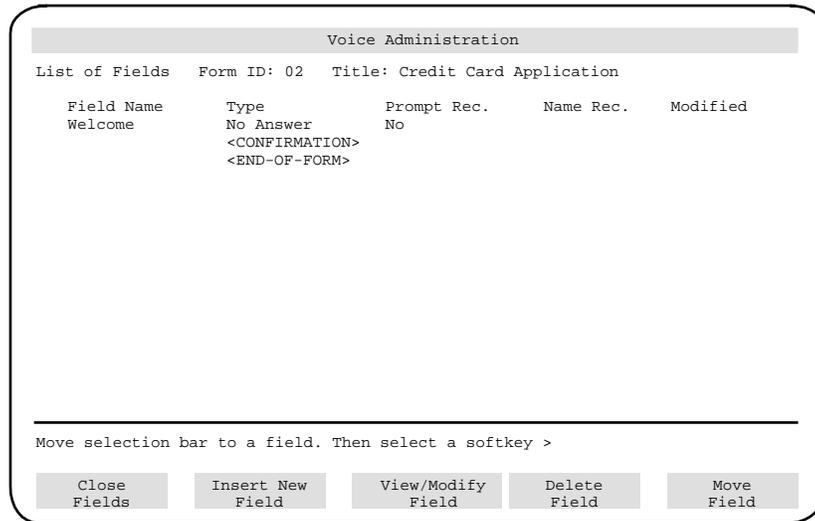


Figure 3-9xxx
The Insert New Field screen for a Voice Answer type field

Voice Administration			
Insert New Field	Form ID: 02	Title: Credit Card Application	
Field Type:	No-Answer	[Voice-Answer]	
Field Name:	Welcome _____		
Field Prompt Recorded (Voice):	No		
Field Name Recorded (Voice):	No		
Answer Length Limit (seconds):	_25		
No Answer Handling:	NextField	Revert	Disconnect [Repeat]
* Revert DN:	0 _____		
** Repeats Before Disconnect:	_1		
Stop Recording on Silence:	No	[Yes]	
***Field to be Confirmed:	No	[Yes]	
Save Response if Hangup:	No	[Yes]	
Field Separator Delay:	Stop	[Delay]	deciseconds: 0 _____
Select a Softkey >			
Save	Cancel	Voice	Voice

* This field is displayed only if No Answer Handling is Revert.
 ** This field is displayed only if No Answer Handling is Repeat.
 ***This field is displayed only if the Confirmation Mode is Whole-Form or At-Each-Field.

- 5 Fill in the required information (according to your New Field worksheets). The fields in this screen are described in the chapter "Planning voice forms".
- 6 For Voice Answer fields, record the field name. If you are using a professional to record the prompt, or if this is a long voice form and you want to record all prompts in one session, this step can be done later. However, the same voice should be used to record the field names (since it is heard by callers during confirmation) and the field prompts.
 To record a prompt, move the cursor to the Field Name Recorded (Voice) field, press [Voice]. Follow Procedure 3-7 on page 3-18 to record a prompt.

Note: All field names must be recorded before the voice form can be used.

- 7 You can either record the field prompt now (for shorter applications) or during a separate recording session (for longer applications). While the cursor is on the *Field Prompt Recorded (Voice)* field, press [Voice]. Follow Procedure 3-7 on page 3-18 to record a prompt.

Note: All field prompts must be recorded before the voice form can be used.

- 8 To save the field definition, go to step 8a. If you do not want to save the field definition, go to step 8b.

- a. Press [Save].

If all of the mandatory fields have been filled in, the field definition is saved. If something is missing from your definition, you will be informed and the field definition will not be saved until all of the required information has been entered.

Note: When you return to the Add a Voice Form Definition, be sure to use [Save] that is displayed. If you do not save the voice form, the fields you have just created will not be saved.

- b. Press [Cancel].

Any changes that have been made are discarded. The List of Fields screen is displayed.

Note: When you save a voice form field, you are returned to the List of Fields screen and the cursor is automatically positioned on the first row. This means that you will have to cursor down to the field you just finished defining before you insert the next field.

When your voice form is complete, it should look similar to Figure 3-6 on page 3-11.

Recording field prompts and field names

For each Voice Answer field in the form, you must record both a field name and a field prompt. (No Answer fields require a field prompt only.) The field name is played to transcribers during transcription if the Field Name is used as the field separator. It is also played to callers during Whole Form confirmation. You can record the field name as you define each field.

However, you may want to record your field prompts during a separate recording session. See the section "Recording the prompts" on page 3-1 (the first page of this chapter) for a discussion.

Procedure 3-7xxx

Recording field prompts and field names

Starting point: The Insert New Field or View Modify Field screen

- 1 To record a prompt, position the cursor on the desired *Prompt Recorded* field (either Field Prompt Recorded or Field Name Recorded).
 - a. Press [Voice].

You are prompted for a phone number.
 - b. Enter the phone number of the phone set you are going to use to make the recording and press <Return>.

The phone rings.
 - c. Pick up the telephone handset.
 - d. To record the field prompt, press [Record]. At the sound of the beep, begin speaking into the handset.

When you pressed [Record] a new [Stop] softkey appears in its place. Press [Stop] to stop recording.
 - e. To hear the prompt, press [Play].

The recording is played over the phone.

If you want to rerecord the prompt, return to step 1d.
 - f. When you are satisfied with the recording, press either [Disconnect] or [Return] to display the original softkeys.

When you use [Return], the line is not disconnected (unless you hang up the receiver). This means that if you decide to re-record or listen to the recording, you do not have to re-enter the telephone number after pressing [Voice]. This is recommended if you will be recording a number of prompts.

When you use [Disconnect], the line is disconnected and if you press [Voice] to access the recording softkeys again, you will have to re-enter the telephone number. Use this softkey when you have recorded the last prompt for this session.
- 2 Press [Save] to save the recordings.
- 3 Return to step 8 in Procedure 3-6 to save the field.

Saving the voice form definition

Follow Procedure 3-8 when you have defined all of your fields. If the confirmation mode is Whole Form, make sure the <CONFIRMATION> marker is positioned correctly.

Procedure 3-8xxx

Saving the entire voice form definition

Starting point: The List of Fields screen

- 1 Press [Close Fields].
The Add a Voice Form Definition screen is displayed.
- 2 Press [Save] to save the entire voice form definition, including fields.
The Voice Forms screen is displayed.

Making voice forms accessible

Once a voice form has been created, it can be made accessible for testing and for callers in one of three ways:

Direct access

Callers access the form by dialing a special DN that connects them directly to the voice form. Follow Procedure 3-9 to create a VSDN for the voice form. This procedure assumes that there are available ACD queues/line DNs on the switch.

Procedure 3-9xxx

Creating a VSDN for a voice form

Starting point: The Main menu or the Customer Administration menu

- 1 Select Voice Administration.
The Voice Administration menu is displayed.
- 2 Select Voice Services Administration.
The Voice Services Administration menu is displayed.
- 3 Select Voice Services-DN Table.
The Voice Services-DN Table is displayed. See Figure 3-10.

Figure 3-10xxx
The Voice Services-DN Table

The screenshot shows a terminal window titled "Voice Services Administration". Below the title is the text "Voice Services-DN Table". A table with three columns: "DN", "Service", and "Comment" is displayed. The table contains seven rows of data. Below the table, there is a horizontal line and the instruction "Move the cursor to the item and press the space bar to select >". At the bottom of the window, there are five buttons: "Exit", "Add", "View/Modify", "Delete", and "Find".

DN	Service	Comment
2663650	EM	Express Messaging
2663651	PM	Prompt Maintenance
2663654	VM	Voice Messaging
2663661	RA	Remote Activation
2663662	TS 2000	Thru-Dial
2663663	EM	Express Messaging
2663665	AS 2001	Announcement Service

Move the cursor to the item and press the space bar to select >

Exit Add View/Modify Delete Find

4 Press [Add].

The Add DN Information screen is displayed. See Figure 3-11.

Figure 3-11xxx
The Add DN Information screen (voice form datafill)

Voice Services Administration

Add DN Information

*Choice of Services:

AN AMIS Networking	AS Announcement Service	EM Express Messaging
FI Fax Info Service	FIM Fax Item Maintenance	HM Hospitality Messaging
ACC Meridian Access	NW Meridian Networking	CO Post Checkout Mailbox
PM Prompt Maintenance	RA Remote Activation	TS Thru-Dial Service
TD Time-of-Day Controls	TR Transcription Service	VF Voice Forms Service
MS Voice Menu Service	VM Voice Messaging	

Access DN: 2009

Service: VF Voice Form ID: 201

Comment: _____

Select a Softkey >

Save

Cancel

* All possible services are listed in this screen for illustration purposes.

- 5 Enter the access DN.
This is the number that callers will dial to access the voice form.
- 6 Enter "VF" in the Service field.
An additional field, Voice Form ID, is displayed.
- 7 Enter the ID of the voice form that will be retrieved when callers dial the access DN.
- 8 Enter a comment (this is an optional step).

For a detailed description of the VSDN table, see the chapter "Voice Administration" in the *System Administration Guide* (for single-customer systems) or the *Customer Administration Guide for Multi-Customer Systems*.

Indirect access through a voice menu

Callers dial the DN of a voice menu. The voice form is presented as one of the menu choices and is accessed when the caller presses the appropriate key. Figure 3-12 shows a datafill for a voice menu that serves as a front end to a number of voice forms. For instructions on planning and creating a voice menu application, see the *Voice Menus Application Guide*.

Figure 3-12xxx
The Add a Voice Menu Definition screen

Voice Services Administration

Add a Voice Menu Definition

* Choice of Menu Actions:

AS Announcement Service	CL Call	RV Call Revert DN
DS Disconnect	EM Express Messaging	FI Fax Info Service
FIM Fax Item Maintenance	HM Hospitality Messaging	PP Play Prompt
CO Post-Checkout Mailbox	PM Prompt Maintenance	RP Repeat Menu Choices
MM Return to Main Menu	TS Thru-Dial Service	TD Time-of-Day Control
TR Transcription Service	VF Voice Forms Service	MS Voice Menu Service
VM Voice Messaging		

Voice Menu ID: 100 Title: Forms Menu

Revert DN: 0

Access Password: 3295341 Update Password: 39243221

Greeting Recorded (Voice): [Yes] Menu Choices Recorded (Voice): [Yes]

Silent Disconnect: [No] Yes

**Language for Prompts: [AmericanEnglish]
 CanadianFrench
 AmericanSpanish
 French

Key	Action	Comments
1	VF Voice Form ID: <u>201</u>	<u>Product X Order Form</u>
2	VF Voice Form ID: <u>202</u>	<u>Product Y Order Form</u>
3	VF Voice Form ID: <u>203</u>	<u>Product Z Order Form</u>
4	PP Recorded (Voice): Yes	_____
5	PP Recorded (Voice): Yes	_____
6	PP Recorded (Voice): Yes	_____
7	PP Recorded (Voice): Yes	_____
8	PP Recorded (Voice): Yes	_____
9	PP Recorded (Voice): Yes	_____

Initial No Response RP
 Delayed Response RV

Select a softkey >

Save

Cancel

Voice

* Some of these actions are feature-dependent and may not appear on your screen.
 ** This field is displayed if multiple languages are installed on your system.

You can either add a voice form to an existing voice menu, or create a new voice menu to serve as a front end to a number of voice form applications.

If the voice menu already exists, the VSDN will already be defined. If you are going to create a new voice menu, you will have to add the VSDN of the voice menu to the VSDN table as described in Procedure 10. This procedure assumes that there are available ACD queues/line DNs on the switch.

Procedure 3-10xxx
Creating a VSDN for a voice menu

Starting point: The Main menu or the Customer Administration menu

- 1 Select Voice Administration.
The Voice Administration menu is displayed.
- 2 Select Voice Services Administration.
The Voice Services Administration menu is displayed.
- 3 Select Voice Services-DN Table.
The Voice Services-DN Table is displayed. See Figure 3-10.
- 4 Press [Add].
The Add DN Information screen is displayed. See Figure 3-11.
- 5 Enter the access DN.
This is the number that callers will dial to access the voice menu.
- 6 Enter "MS" in the *Service* field.
An additional field, Voice Menu ID, is displayed.
- 7 Enter the ID of the voice menu that will be retrieved when callers dial the access DN.
- 8 Enter a comment (this is an optional step).

For a detailed description of the VSDN table, see the chapter "Voice Administration" in the *System Administration Guide* (for single-customer systems) or the *Customer Administration Guide for Multi-Customer Systems*.

Indirect access through a time-of-day controller

Callers dial the DN of the active time-of-day controller and are routed to the voice form depending on the day and time of day. Figure 3-13 shows a datafill for a time-of-day controller that routes callers to a voice form. For instructions on planning and creating a time-of-day controller, see the *Voice Menus Application Guide*.

Figure 3-13xxx
The Add a Time-of-Day Control Definition screen

Voice Services Administration

Add a Time-of-Day Control Definition

Time-of-Day Control ID: 500 Business Hours Service ID: 409

Off-Hours Service ID: 202 Holiday Service ID: 410

Business Days	[No]	Yes	Business Hours
Sunday	No	[Yes]	<u>08:30</u> to <u>17:00</u>
Monday	No	[Yes]	<u>08:30</u> to <u>17:00</u>
Tuesday	No	[Yes]	<u>08:30</u> to <u>17:00</u>
Wednesday	No	[Yes]	<u>08:30</u> to <u>17:00</u>
Thursday	No	[Yes]	<u>08:30</u> to <u>17:00</u>
Friday	No	[Yes]	<u>10:30</u> to <u>13:30</u>
Saturday	[No]	Yes	

Select a softkey >

Save
Cancel

In the example shown in Figure 3-13, any one of the three IDs (Business Hours Service ID, Off-Hours Service ID, or Holiday Service ID), could be the ID of a voice form, depending on the time of day at which you want the voice form to be activated when the time-of-day controller is accessed.

You can either modify an existing time-of-day controller definition or create a new time-of-day controller. If the time-of-day controller already exists, the VSDN will already be defined. If you are going to create a new time-of-day controller, you will have to add the VSDN of the time-of-day controller to the VSDN table as described in Procedure 3-11. This procedure assumes that there are available ACD queues/line DNs on the switch.

Procedure 3-11xxx
Creating a VSDN for a time-of-day controller

Starting point: The Main menu or the Customer Administration menu

- 1 Select Voice Administration.
The Voice Administration menu is displayed.
- 2 Select Voice Services Administration.
The Voice Services Administration menu is displayed.
- 3 Select Voice Services-DN Table.
The Voice Services-DN Table is displayed. See Figure 3-10.
- 4 Press [Add].
The Add DN Information screen is displayed. See Figure 3-11.
- 5 Enter the Access DN.
This is the number that callers will dial to access the time-of-day controller.
- 6 Enter "TD" in the *Service* field.
An additional field, Time-of-Day Control ID, is displayed.
- 7 Enter the ID of the time-of-day controller that will be retrieved when callers dial the access DN.
- 8 Enter a comment (this is an optional step).

For a detailed description of the VSDN Table, see the chapter "Voice Administration" in the *System Administration Guide* (for single-customer systems) or the *Customer Administration Guide for Multi-Customer Systems*.

Defining a VSDN for the transcription service

After you have created your first voice form application, define a DN for the transcription service in the VSDN table.

You can have one generic transcription service which is used by all transcribers to log on to all voice forms. To create a generic transcription service, follow Procedure 3-12.

Procedure 3-12xxx Defining the transcription service VSDN

Starting point: The Main menu or the Customer Administration menu

- 1 Select Voice Administration.
- 2 Select Voice Services Administration.
- 3 Select Voice Services-DN Table.
- 4 Press [Add] to define a DN for the transcription service.

The Add DN Information screen (Figure 3-14) is displayed.

Figure 3-14xxx
The Add DN Information screen (transcription service)

Voice Services Administration

Add DN Information

*Choice of Services:

Access DN: 2011 _____

Service: TR Voice Form ID: _____

Comment: _____

Select a Softkey >

Save Cancel

* All possible services are listed in this screen for illustration purposes.

- 5 Enter the access DN for the service.
This is the number that transcribers will dial to access the transcription service.
- 6 In the *Service* field, enter TR (for transcription).
You are prompted for the voice form ID.
- 7 Leave the *ID* field blank.
This will allow transcribers to specify the voice form they want to retrieve. If you enter an ID in this field, the transcriber will automatically be logged on to the specified voice form.
- 8 Save the DN information.

If you want to create a special transcription DN for each voice form application, enter the voice form ID in the *ID* field instead of leaving it blank (see step 7 in the above procedure). Using this method, transcribers do not have to specify the voice form ID when they log on. However, they will have to remember a different transcription service access DN for each voice form. Also keep in mind that you will need an ACD queue/line DN on the switch for each VSDN you add in Meridian Mail.

For more information about adding DNs, see the section "The Voice Services-DN Table" in the *System Administration Guide* (for single-customer systems) or the *Customer Administration Guide for Multi-Customer Systems*. Also see the *Meridian Mail Voice Form Transcriber User Guide* for a description of how transcribers log on to voice forms.

Testing a voice form

When you have finished configuring a voice form and have defined a DN for the form and the transcription service, test it before making it available. Test the caller interface and the transcriber interface. If you have to make any modifications to the voice form based on your testing, be sure to test the form again. (See the following section, "Modifying a voice form definition".) Continue with this process until you are satisfied with the way in which the voice form and the transcription service operate.

The administrator should be the first one to test the form to verify that it works as planned and configured. Call the form a few times and record a few responses. As you are testing, try to activate each feature that you have configured. For example, if you configured the New Responses Notification DN as 2005, record a response and see if extension 2005 has its MWI turned on. Then log on to the transcription service and test it.

Once you have tested it, find a few people who would be willing to call the voice form and review it from the caller's perspective. Ask them to complete the caller survey that is included in Appendix A. Give the callers the DN and the survey form only. Do not provide any other instructions, clues, things to look out for, and so on. Real callers won't have the benefit of such "inside information".

Have a few people (actual transcribers if possible) access the transcription service and transcribe the test responses. Use the transcriber survey that is included in Appendix A to get some feedback on the voice form from the transcriber's perspective.

Based on the information collected from your callers and transcribers, identify solutions that resolve the needs of both the caller and the transcriber.

Note: If an improvement to the transcription interface has an adverse effect on the caller interface, consider the change carefully. The voice form is there for the caller's use and you should try to avoid sacrificing customer service.

Modify the voice form definition as required, save it and conduct a back up to save this most recent version. (If voice forms are stored on VS1, only a partial backup is required. If voice forms are saved on any other volume, you will have to do a full backup.) Update your worksheets and file them for future reference.

Modifying or viewing a voice form definition

After testing your voice form, you will probably discover that modifications are necessary to make the voice form work properly or more smoothly. Depending on the application, you may also need to modify a voice form on a regular basis in order to keep it up-to-date.

When you select [View/Modify] from the Voice Forms screen, a second layer of softkeys is displayed (as shown in Procedure 14). There are two modify softkeys: [Modify In-Service] and [Modify Out-of-Service].

Modifying a voice form while it is in-service

When you choose to keep a form in-service when modifying it, incoming calls to the form and existing caller responses are not affected. However, because the form is still functional, you can only make simple changes to it that do not affect its structure. You can modify all of the fields in the Modify Field screen except *Field Type*. You can also re-record voice prompts without affecting incoming calls. You cannot, however, make changes that will alter the structure of the voice form application.

While the form is in-service, you cannot:

- insert, delete, or move the fields within the selected form
- change the Field Type (from "No Answer" to "Voice Answer" or vice-versa).

If you need to make any of these changes, you will have to use [Modify Out-Of-Service].

Modifying a voice form while it is out-of-service

While a voice form is out-of-service you can make any changes you wish. While the form is out-of-service, callers that try to connect to the form are told that the form is not available at this time and to try calling again at a later time. If you take the form out-of-service while a call is in progress, the caller's response will be discarded when he or she hangs up.

When you press [Modify Out-of-Service], the system checks for any untranscribed responses. If there are any outstanding caller responses, a message is displayed on the command line. A new layer of softkeys is also presented, allowing you to [Delete All Responses] or [Cancel] the current command. To proceed with the modification you must transcribe all existing responses first or press [Delete All Responses]. (This is not recommended unless you are sure you don't need the responses.)

3-30 Configuring voice forms

If the voice form generates a lot of calls, the best way to put the form out of service (without dropping calls or losing responses) is to build an announcement that informs callers that the voice form is currently being serviced. To do this:

Procedure 3-13xxx

Taking a voice form out of service

- 1 Create an announcement. You can make a single "generic" announcement which can be used whenever you need to take a form out of service. See the section "Adding an announcement" in the *Voice Menus Application Guide*.
- 2 Reassign the VSDN for the voice form to the announcement service. See the section "The Voice Services-DN Table" in the *Customer Administration Guide for Multi-Customer Systems* or the *System Administration Guide* (for single-customer systems).
- 3 Transcribe any existing responses. See the *Meridian Mail Voice Forms Transcriber User Guide*. (You can ask the transcriber to do this step.)
- 4 Modify the voice form and save the changes. See Procedure 3-15.
- 5 Reassign the announcement VSDN back to the voice form.

Use Procedure 3-14 if you do not need to make changes to the voice form definition but need to view its configuration. If, while viewing the definition, you discover that you need to make a change, you will have to get out of the View a Voice Form Definition screen and access the Modify a Voice Form Definition screen. Use Procedure 3-15 if you need to modify the voice form definition.

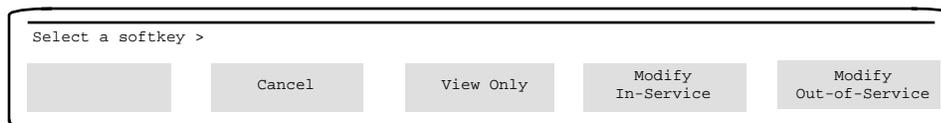
Procedure 3-14xxx

Viewing a voice form definition

Starting point: The Voice Forms screen

- 1 Position the cursor on the voice form definition that you want to view and press <Spacebar> to select it.
- 2 Press [View/Modify].

A new set of softkeys is displayed.

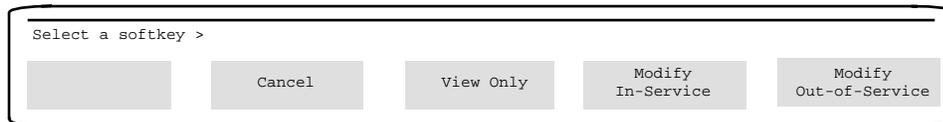


- 3 Press [View Only].
The View/Modify a Voice Form Definition screen is displayed. (It is identical to the Add a Voice Form Definition screen except that all fields are read only.)
- 4 Press [Open Fields] if you want to view any of the field definitions.
The List of Fields screen is displayed.
- 5 Move the cursor to the field definition that you want to view and press <Spacebar> to select it.
- 6 Press [View Field].
The View Field screen is displayed.

Procedure 3-15xxx
Modifying a voice form definition

Starting point: The Voice Forms screen

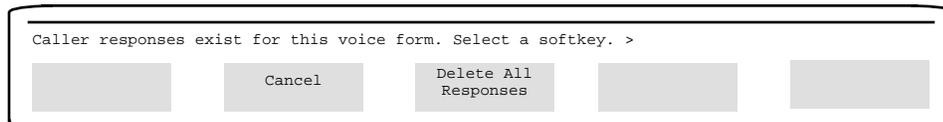
- 1 Position the cursor on the voice form definition that you want to modify and press <Spacebar> to select it.
- 2 Press [View/Modify].
The following softkeys are displayed:



- 3 Press [Modify In-Service] or [Modify Out-of-Service].
Note: Be sure you understand the difference between these two methods of modifying a voice form before proceeding. See page 3-29 for details.

If you selected [Modify In-Service] the View/Modify a Voice Form Definition screen is displayed. (It is identical to the Add a Voice Form Definition screen.)

If you selected [Modify Out-of-Service] and there are outstanding untranscribed responses, a subset of softkeys is displayed.



3-32 Configuring voice forms

Important: Do not press the [Delete All Responses] softkey unless you are sure you do not need the responses. Use [Cancel] and exit the form to transcribe responses. See page 3-29 for more information.

If the responses are important to you, press [Cancel] and exit the voice form. If it is important that you do not lose any calls or responses while servicing the form, see Procedure 3-13. Transcribe existing responses and log back onto the form (return to step 1).

If you are sure that the responses are not needed (for example, they are invalid because the form is out-of-date), press [Delete All Responses].

- 4 Press [Open/Modify Fields] if you want to modify any of the field definitions.

The List of Fields screen is displayed.

- 5 Move the cursor to the field definition that you want to modify and press <Spacebar> to select it.

- 6 Press [View/Modify Field].

The View/Modify Field screen is displayed.

Modifying an existing field

Once you have created the fields that make up your voice form applications, they can be modified at any time. The View/Modify Field screen is identical to the Insert New Field screen. For a description of the fields in this screen, see the preceding section, "Inserting a new field".

Note: If you want to change the Field Type (from "No Answer" to "Voice Answer" for example), you will have to modify the form while it is out-of-service.

Procedure 3-16xxx **Modifying an existing field**

Starting point: The List of Fields screen

- 1 Position the cursor on the field that you want to modify and press <Spacebar> to select it.
- 2 Press [View/Modify Field].
The View/Modify Field screen is displayed.
- 3 Make the necessary changes, including re-recording the field prompt and field name if required.
- 4 To save the field definition, go to step 4a. If you do not want to save the field definition, go to step 4b.
 - a. Press [Save].
If all of the mandatory fields have been filled in, the field definition is saved. If something is missing from your definition, you will be informed and the field will not be saved until all of the required information has been entered.
 - b. Press [Cancel].
Any changes that have been made are discarded. The List of Fields screen is displayed.

Moving a field

It may be necessary to move some fields around if you decide that the application would flow more smoothly if you changed the order of voice form fields.

The <CONFIRMATION> marker can be moved to a different location in the field list but cannot be modified or deleted. This enables you to place additional questions after the confirmation field. These questions could, for example, inquire as to the caller's opinion about the current level of service he or she is presently receiving when dealing with your organization. It is also recommended that you play a thank you or farewell prompt to the caller after confirmation, before disconnecting the call.

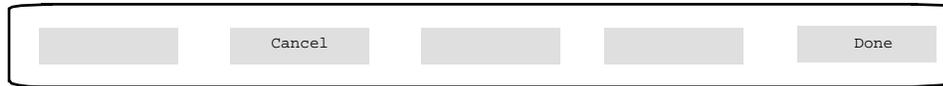
Note: The form must be out-of-service in order to move a field.

Procedure 3-17xxx Moving a field

Starting point: The List of Fields screen

- 1 Position the cursor on the field you want to move and press <Spacebar> to select it.
- 2 Press [Move Field].

The following softkeys are displayed:



- 3 Press <Spacebar> to deselect the field you want to move.
This allows you to move the cursor to indicate the new position.
- 4 Move the cursor to indicate where the row should be inserted. (When positioning the cursor remember that the row will be moved to the row above the cursor location.)
- 5 Press <Spacebar> to indicate the new location.
- 6 Press [Done] to continue or [Cancel] to cancel the operation.
If [Done] is pressed, the field is moved to the specified location.
The Move Field softkeys are removed from the screen and the original List of Fields softkeys are displayed.
- 7 To move another field, go to step 1.

Deleting a field

Once you have created your voice form application, you may discover that certain fields are not very effective or that they have become obsolete with time. The [Delete Field] on the List of Fields screen allows you to remove fields that are no longer needed.

Note: The form must be out-of-service in order to delete a field.

Procedure 3-18xxx **Deleting a field**

Starting point: The List of Fields screen

- 1 Position the cursor on the field you want to delete and press the <Spacebar> to select it.
- 2 Press [Delete Field].
The Delete Field screen is displayed. This screen is identical to the Insert New Field screen except that all of the fields are read-only. This allows you to view the field definition and verify that this is the field you want to delete.
- 3 To delete the field, go to step 3a. To cancel the operation, go to step 3b.
 - a. Press [OK to Delete].
The field is deleted and the List of Fields screen is displayed.
 - b. Press [Cancel].
The field is not deleted. The List of Fields screen is displayed.

Inserting a new field

If you need to insert a new field in an existing voice form, see Procedure 3-6 on page 3-13. Because this affects the structure of the voice form, you will have to modify the form while it is out-of-service.

Copying a voice form definition

If the voice form application you are about to create is similar to an existing one you may want to copy the existing definition, and then modify only those fields that need to be changed. Depending on how long the voice form is, this method can save you a lot of time.

When you copy a voice form, all fields will remain the same with the exception of:

- the voice form ID
- the new response notification DN
- the special response notification DN

These fields are intentionally left blank when you copy a form because the values in these fields must be unique across all voice services (voice forms, voice menus, announcements, thru-dialers, time-of-day controllers, and fax items). You are required to enter new values.

When you copy from an existing definition, you will be working with the Copy a Voice Form Definition screen. The fields in this screen are identical to those in the Add a Voice Form Definition screen.

Procedure 3-19xxx **Copying a voice form definition**

Starting point: The Voice Forms screen

- 1 Position the cursor on the voice form definition that you want to copy and press <Spacebar> to select it.
- 2 Press [Add/Copy].
- 3 A new set of softkeys is displayed.



- 4 Select [Copy Form].

The Copy a Voice Form Definition screen is displayed. It is identical to the Add a Voice Form Definition screen shown in Figure 3-4 except that the following fields are blank and must be redefined: Voice Form ID,

New Responses Notification DN, and Special Responses Notification DN.

- 5** Assign a new voice form ID and title and modify the necessary fields. These fields are described in the section, "Adding a voice form definition".
- 6** Press [Open/Modify Fields].
The List of Fields screen is displayed. This screen lists all of the fields that have been defined for this voice form application.
- 7** Move the cursor to one of the fields that you want to modify.
- 8** Press [View/Modify Field] to modify the field definition.
The View/Modify Field screen is displayed (it is identical to the Insert New Field screen). Modify any fields and recordings that need to be changed to suit the new application.
- 9** Press [Save] to save the field definition.
The List of Fields screen is displayed. To modify another field, go to step 7. To exit this screen go to step 10.
- 10** Press [Close Fields].
The Copy a Voice Form Definition screen is displayed.
- 11** Press [Save] to save the voice form definition.
The Voice Forms screen is displayed.

Deleting a voice form definition

Selecting [Delete] from the Voice Forms screen allows you to remove an existing voice form definition from the system. The Delete a Voice Form Definition screen is displayed so that you can view the voice form definition and confirm that it is really the one you want to delete. The fields in this screen are read-only.

You will not be able to delete a voice form definition if there are any outstanding untranscribed responses unless you first transcribe or delete all of the untranscribed responses. When you select the [Delete] softkey a prompt appears on the screen's command line to advise you if there are any outstanding caller responses. A new layer of softkeys is also presented, allowing you to [Delete All Responses] or [Cancel] the current command. If you choose to delete all responses, any calls that are currently in progress will be discarded when the caller(s) hang up and any future calls to the voice form application will result in an appropriate 'Out of Service' recording. This remains in effect until the VSDN for the voice form has been removed or the form has been removed from the menu service or time-of-day controller through which it is accessed. Refer to the procedure on page 3-30.

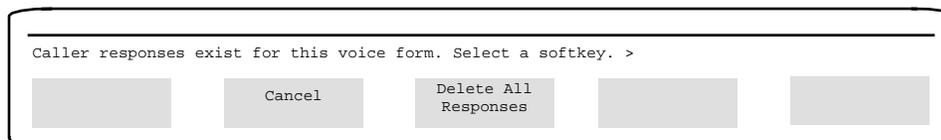
Procedure 3-20xxx Deleting a voice form definition

Starting point: The Voice Forms screen

- 1 Position the cursor on the voice form definition that you want to delete and press <Spacebar> to select it.
- 2 Press [Delete].

If there are no outstanding caller responses, the Delete a Voice Form Definition screen is displayed. This allows you to view the configuration and ensure that this is the voice form that you want to delete. Go to step 3.

If there are any caller responses that have not been transcribed, the following softkeys are displayed.



Important: Do not press [Delete All Responses] unless you are sure you do not need the responses. Use [cancel] and exit the form to transcribe responses.

If the responses are important to you, press [Cancel] and exit the voice form. If it is important that you do not lose any calls or responses while servicing the form, see Procedure 3-13. Transcribe existing responses and log back onto the form (return to step 1).

If you are sure that the responses are not needed (for example, they are invalid because the form is out-of-date), press [Delete All Responses].

- 3 To delete the voice form go to step 3a. To cancel go to step 3b.
 - a. Press [OK to Delete].

The voice form is deleted. The Voice Forms screen is displayed.
 - b. Press [Cancel].

The voice form is not deleted. The Voice Forms screen is displayed.
- 4 If this form is directly accessed, remove its VSDN from the VSDN table. If the form is accessed through a voice menu or time-of-day controller, delete the voice form from the appropriate voice menu or time-of-day controller definition.

Providing training/support and cutting the service over to the customer

If this is the first voice form implemented for the organization, or if this voice form is for a new group of transcribers, you will have to provide training for the transcribers *prior to cutting over the voice form*. For detailed information about the transcription process, read the section "Transcribing voice forms".

- 1 Schedule training time for the transcribers. A minimum of one hour is recommended (especially if the transcribers are not familiar with voice messaging). This will allow time to review how a voice form works, how to transcribe as well as time for practice and questions.
- 2 Provide an overview of voice forms, and let the transcribers access the voice form and leave responses themselves. The more familiar they are with the service, the better.
- 3 Review the transcription process, allowing the transcribers to use the service and practice transcribing. Keep adding responses to the voice form if they need more practice.
- 4 Review the administrative procedures for collecting data: who will transcribe what form; the importance of transcribing on a regular basis to protect storage limits; how to report system problems. If the transcribers are anticipating a large number of responses they may also want to work out some administrative procedures prior to going live.
- 5 When the transcribers are comfortable with the voice form and the transcription service, make sure you reset the response ID number back to zero before going live. This is described in the section "Managing response IDs" on page 5-8.

Upon completion of these steps, your voice form is ready for general use.

Chapter 4: Transcribing voice forms

When a caller has completed a voice form and hangs up, the response is saved in Meridian Mail. If the notification feature is enabled, the system sends a message waiting indication to a predetermined DN. When the transcriber observes the MWI, he or she knows to log on to the voice form.

The transcriber dials the VSDN of the transcription service to log on to the transcription service and hear the responses for the voice form. If the transcriber just listens to the response and does not delete it, the response will keep its New response status and the MWI will stay on. The MWI is turned off only after all responses have been deleted or marked special. If there are multiple responses, the MWI stays on until all responses have been deleted (or marked as special).

If, for some reason, a transcriber cannot fully transcribe a response, he or she can mark it as special. This indicates that the response needs further attention, usually from a supervisor or the administrator. For example, the response may be in a foreign language that the transcriber does not understand, or the response may have been left by an irate customer. After tagging a response as special, the transcriber can continue transcribing any remaining responses.

Transcribers are notified in the following way. If you enable the notification feature when you configure the voice form (that is, if you enter a DN in the New Responses Notification DN field—see the Voice Form Definition worksheet), the transcriber responsible for the form will receive a notification in the form of a MWI on their phone whenever new responses exist. The transcriber then logs on to the voice form and transcribes the response.

If you choose not to use the notification feature, transcribers will not be automatically notified of new responses. Instead, they will simply have to log on to the voice form on a regular basis in order to check for new responses. In this case, you will have to direct your transcribers regarding the frequency with which they should transcribe responses. As the number of untranscribed responses is allowed to accumulate, the amount of free disk space will decrease. Work with transcribers and their supervisors to prioritize voice forms in terms of the importance of the responses that will be collected and have transcribers monitor the voice forms carefully. In certain circumstances, you may need to lower the maximum number of untranscribed responses that are allowed for a voice form.

Note: Be very careful of departments that work in cycles. For example, accounting departments go through a month end closing. Everyone's work load increases and transcribers may be too busy to transcribe until closing is over. Develop alternate procedures for transcribing during busy periods. The responses should not be allowed to stack up on the system.

Read the Meridian Forms Transcriber User Guide for detailed information about how the transcription service works.

Processing the information collected by a voice form

It is up to the organization to identify how it will compile the data it collects from voice forms. Your organization will probably have specific processes for compiling data.

Although we cannot recommend how you process your data, we do recommend the following if you are anticipating a high volume of responses to a voice form:

- 1 Provide your transcribers with headsets to help free up both hands for writing down or typing in information.
- 2 Wherever possible, have your transcribers transcribe directly into the data collection/processing system as they listen to the responses.

Make sure you set the response ID numbers back to zero before going live with the service. See page 5-9 for details.

Chapter 5: Maintaining and managing voice forms

Maintaining voice forms

Maintenance of a voice form application may include any of the following:

- viewing an existing voice form
- modifying the voice form definition (form characteristics)
- modifying an existing field
- moving an existing field
- deleting an existing field
- inserting a new field
- re-recording prompts
- resetting response ID numbers to zero
- changing transcription passwords for security
- copying a voice form to create a similar application
- deleting a voice form when it is no longer needed

Note: Before you make any changes to the voice form definition, modify your worksheets first.

See the section `Modifying or viewing a voice form definition` in the chapter `Configuring voice forms`. Pay special attention to the subsections that discuss modifying a voice form while it is in service versus modifying it while it is out-of-service.

Remember that voice form prompts cannot be recorded or maintained using the voice prompt maintenance service. The administrator must access the voice form through the administration terminal to update recordings.

Whenever you modify a voice form, test it to make sure it still works the way you expect. If the form has undergone major changes, test it as if you had just created it, using the guidelines on page 3-28. Perform a backup of the file your modified worksheets.

Managing voice forms

Here are some tips to help you manage your voice forms.

Keep good records

Make sure all worksheets are kept up to date and filed. Whenever a change is made to a voice form, always update the worksheets. You may also want to keep a master list of all the voice forms on your system for quick reference.

Monitor operational measurements

When a new voice form is introduced, it is especially important to monitor it on a daily basis. The following reports are applicable to voice forms. They are described in detail in the Operational Measurements chapter of the System Administration Guide.

Note: If the Multi-Customer feature is installed on your system, these screens are accessible only from the system administration level.

Voice Service Summary report

The Voice Service Summary report (Figure 5-1) provides a summary of the activity of all voice forms and all transcription services (among other services) in the system.

Figure 5-lxxx
Voice Service Summary report screen

Operational Measurements					
Voice Service Summary					
Interval	Start-End	Service Name	Number of Accesses	Average Length (in seconds)	Voice Mail Usage (in CCS)
04/22	09:00-10:00	Thru-Dial	53	7	4
04/22	09:00-10:00	Voice Menus	301	12	36
04/22	09:00-10:00	Voice Messaging	1022	65	664
04/22	09:00-10:00	Call Answering	1437	29	416
04/22	09:00-10:00	AMIS	0	0	0
04/22	09:00-10:00	Express Messaging	86	49	42
04/22	09:00-10:00	Voice Announcements	31	111	34
04/22	09:00-10:00	Voice Administration	0	0	0
04/22	09:00-10:00	Voice Prompt Admin	0	0	0
04/22	09:00-10:00	Time of Day Control	53	0	0
04/22	09:00-10:00	Delivery to Non User	0	0	0
04/22	09:00-10:00	Remote Notification	26	42	11
04/22	09:00-10:00	Remote Activation	0	0	0
04/22	09:00-10:00	Voice Forms	3	400	12
04/22	09:00-10:00	Transcription Service	0	0	0

Select a softkey >

Exit Next Report Next Page*

* This softkey is displayed only if there is one page of data.

Each report covers a certain interval of time. For that interval, the information is provided:

- the number of times that all voice forms and all transcription sessions have been accessed during the reporting interval
- the average length of all voice form sessions and transcription sessions that occurred during the interval
- the voice mail usage (in CCS) which indicates the amount of time that voice form applications or transcription services were active during the interval

CCS (centa-call-seconds) is a traffic measurement statistic. One CCS equals 100 seconds of call connection time in one hour. See the Operational Measurements chapter in the System Administration Guide for more details.

The Voice Service Summary report is useful for determining whether or not voice forms in general are generating a lot of traffic. Consider the following points when analyzing the Voice Service Summary report.

- If the number of accesses is lower than you expected, it could be because
 - the feature is not working properly and attempts to access it have fallen off
 - people are not aware of the feature and are, therefore, not using it
- If an unusually high amount of traffic is being generated by voice forms, you may encounter system performance problems, such as no free channels. As the administrator, you may need to do more research beyond checking the OM reports to learn more about the nature of the problem and possibly come up with a solution. For example, you need to determine if the high traffic level was due to some unusual event that affected your organization (if so, the high traffic would not be expected to continue).

If the high traffic is expected to continue, one solution may be to dedicate a channel to the feature so that the feature does not tie up the whole system. Another solution is to expand the system if overall system traffic for the whole system is higher than what was originally anticipated for the system.

- Another area to check is the average length for voice form accesses. If the average length is long, review your voice forms to see if they can be shortened or rearranged for more efficient use.

Voice Menu Detail report

If a voice form has been integrated within a voice menu, this report, shown in Figure 5-2, may provide additional information. You will be able to see how many times the voice menu has been accessed. Also, because this report records the number of accesses for each menu item in the menu, you can determine how many times the voice form has been accessed by checking the number of accesses for the menu item that corresponds to the voice form. For example, if users press 3 to connect to the voice form, check the number of accesses for menu item 3.

Figure 5-2xxx
The Voice Menu Detail report

Operational Measurements													
Voice Menu Detail													
Interval	Start-End	Service	For each menu item, the number of accesses are:										
ID	Accesses		1	2	3	4	5	6	7	8	9	0	* #
9/30	9:00-10:00												
M 5009	167		41	116	0	0	0	0	0	0	0	0	0
M 5004	4		3	0	0	0	0	0	0	0	0	1	0
A 1003	11		0	0	0	0	0	0	0	0	0	0	0
M 4058	1		1	0	0	0	0	0	0	0	0	0	0
M 5003	1		0	0	0	0	0	0	0	0	0	0	0
M 5012	42		6	21	0	6	4	0	0	0	0	1	2
M 5013	21		5	4	6	0	4	0	0	0	0	1	0
M 4033	5		0	0	1	0	0	1	0	2	0	0	0
M 1011	2		0	0	0	0	0	0	0	0	0	0	0
M 4023	2		1	0	0	1	0	0	0	0	0	0	0

Select a softkey >

Exit Next Report Next Page

When reviewing this report, consider the following:

- If the menu items that are at the end of the menu (for example, item 8 or 9) are being accessed more frequently than earlier items, you may wish to reorganize the menu so that the popular items are presented first. This structure prevents users from having to wait through all the earlier options before hearing the one they want, thus reducing the menu length.
- If a menu item has few or no accesses, the reason may be a lack of training or awareness regarding those items, or that those items are simply not required. If you find that certain menu actions are not required, either remove them or replace them with a more useful menu action. Be sure to re-record the greetings and menu choices to reflect the changes.

Disk Usage Detail report

This report will tell you how much voice storage space has been used each volume (see Figure 5-3). It does not, however, report how much space is being used by voice forms specifically. It is a general statistic and you should run this report periodically to monitor the volume on which voice forms are stored. Since a large number of voice form applications can potentially fill up a lot of space, it is important that you notice potential shortages as early as possible. As a guideline, if the voice space used percentage is over 80%, monitor the volume carefully. If the percentage is over 90%, a SEER is generated, and steps should be taken to reduce the amount of space used.

You should also monitor the user volumes. This is where the responses are stored and this could fill up these volumes if it is not checked on a regular basis. These volumes are also where voice messages are stored, so it is important that they do not fill up with voice form responses.

Figure 5-3xxx
The Disk Usage Detail report

Operational Measurements					
Disk Usage Detail					
Interval	Start-End	Volume Name	Voice Volume Size (hh:mm)	Voice Space Used (%)	Text Space Used (%)
09/30	10:00-11:00	VS1	1:51	33	47
		VS2	2:48	33	25
		VS202	33:15	33	17
		VS203	25:45	10	30
		VS204	25:45	10	30
09/30	11:00-12:00	VS1	1:51	33	47
		VS2	2:48	33	25
		VS202	33:15	33	17
		VS203	25:45	10	30
		VS204	25:45	10	30
09/30	12:00-13:00	VS1	1:51	33	47

Select a softkey >

Exit	Next Report		Next Page*	
------	-------------	--	------------	--

* The Next Page softkey appears when the information fills more than one screen.

Manage transcriber activity

Transcribers should be guided regarding the frequency with which they transcribe responses. As the number of untranscribed responses is allowed to accumulate, the amount of free disk space will decrease significantly and you may reach full capacity. Work with the transcribers and their supervisors to prioritize voice forms in terms of the importance of the responses expected and have transcribers monitor the voice forms carefully.

Be very careful of departments that work in cycles. For example, accounting departments go through month end closings. Everyone's workload increases and transcribers may be too busy to transcribe until overflow. Develop an alternate procedure for transcribing during busy periods. The responses should not be allowed to stack up on the system.

If transcribers are not transcribing on a regular basis and disk space is in jeopardy, access the voice form definition and lower the maximum untranscribed responses that are allowed. All overflow calls will be sent to the overflow handling DN.

Conduct random caller surveys

If the voice form is a permanent feature, it is a good idea to conduct random caller surveys, perhaps once a month, to see if caller needs have changed. Find people who can be callers and have them access the voice form. Ask them to complete the caller survey. Determine if the caller needs have changed and if the voice form is therefore in need of maintenance.

Conduct transcriber feedback forums

If the voice form is a permanent feature, arrange meetings with your transcribers occasionally to see how things are going. Bring your operational measurement reports if necessary. Look for the following:

- Has the department changed the way it operates? If so, this may change the way transcribers are managing the transcription process.
- Do they get caller complaints? Is the special response notification getting good use? What are the reasons responses are being marked special? Does the voice form need to be modified?
- Are there any voice forms that are not being transcribed at all? Delete all voice forms that are no longer needed and delete them from the system.

Managing response IDs

When a caller completes a call into a voice form, the caller's response is assigned a response ID.

Each voice form has its own independent response numbering plan. For example, you have two voice forms: a credit card application and a customer survey. The first response that is recorded for the credit card application voice form is numbered 1, the second is numbered 2 and so on. This is also true of responses recorded for the customer survey. The first response that is left is numbered 1, the second is numbered 2, and so on.

When the existing responses for a voice form have been transcribed, the response ID numbering will not be reset to zero. Instead, as new responses are recorded, the count will continue to increase. This creates a running total and allows you to have an inventory/tracking system for each voice form.

Obviously, the count can go on indefinitely, but there may be some situations where you would want to reset the count back to zero. For example:

- Once you have tested a voice form and are ready to put it to use, you should reset the count to zero in order to get an accurate count of the voice form's use from the time that it is put into general use.
- You may decide to reset the count at the beginning of a fiscal/calendar year or other business cycle. This allows you to compare results from one cycle to the next.
- Each time the form is slightly modified, reset the count to zero. In the truest sense, it is no longer the original form.
- Meridian Mail doesn't announce the response number in the conventional counting manner (that is, response eleven or response one hundred and fifty-one). Instead, the transcriber hears response one one or response one five one. Some transcribers may not like this format.

Resetting response ID numbers

There is no way to set the clock back to zero. Instead, you will reset the system by copying the voice form and giving the copy a new voice form ID, deleting the original voice form, and then reassigning the original form ID to the copy. As far as the system is concerned, a new voice form has been created and response ID numbering is set to zero.

To reset response ID numbers:

- 1 Select **voice Administration** from the main menu.
- 2 Select **voice Form Definitions**.
- 3 Move the cursor to the voice form you want to copy and press <Spacebar> to select it.
- 4 Press [Add/Copy].
A new set of softkeys is displayed.
- 5 Press [Copy Form].
- 6 Enter a unique **voiceVForm** ID, then press [Save].
(This is necessary because you cannot save a voice form if its ID is the same as that of another voice form.)
- 7 Move the cursor to the original voice form, press <Spacebar> to select it and press [Delete].
A new set of softkeys is displayed.
- 8 Press [OK to Delete] to remove the original voice form.
- 9 Move the cursor to the newly copied voice form and press the <Spacebar> to select it.
- 10 Press [Add/Copy].
- 11 Press [Copy Form].
- 12 Enter the original voice form ID. Also fill in the new and special notification DNSs.
- 13 Press [Save].
- 14 Delete the copied form.

This new voice form now has response ID numbering reset to zero. The next response that is received will be assigned an ID of 1.

Appendix A: Worksheets

Use the worksheets on the following pages to plan your voice forms. Make copies of them as the need arises.

Voice Form Definition Worksheet

F: Voice Form ID: _____

This is a unique voice service ID. It is not the VSDN.

F: Title: _____

T: Transcription Password: _____

Do you want transcribers to have to use a password to access the form for transcription? If blank.

C: Maximum Untranscribed Responses: _____

How many untranscribed responses will you allow to be stored on the system? If you have a large number of voice forms, or if the voice form is long, keep this number low. When the maximum is reached, responses are transferred to the DN specified below.

C: Overflow Handling DN: _____

When the number of untranscribed responses exceeds the maximum limit, where should callers be transferred?

T: New Responses Notification DN: _____

When a new response is recorded, who should be notified? If you are not using the notification feature, leave this field blank.

T: New Responses SMDI Link Name: _____

If you have multi-SMDI links, (only available on DMS-100, DMS-10, or SL-100) what is the name of the SMDI link (as defined in the hardware database) on which you want to send the new response notification?

T: Special Responses Notification DN: _____

When a response is marked as special, who should be notified? If you are not using the notification feature, leave this field blank.

T: Special Responses SMDI Link Name: _____

If you have a multi-SMDI link, (only available on DMS-100, DMS-10, or SL-100) what is the name of the SMDI link (as defined in the hardware database) on which you want to send the special responses notification?

T: Transcription Field Separator: Field Name Tone Silence

What do you want the transcriber to hear before the answer to each field is played?

T: Default Field Separator Delay: Stop Delay _____ deciseconds

During transcription, should playback stop after an answer is played or should it delay for a certain number of deciseconds between each response. This gives the transcriber time to process the answer.

T: Play Envelope for Header: No Yes

Do you want the transcriber to hear the header (response status and number) or the entire envelope? (also includes the form name or ID and a date and time stamp)?

T: Delay after Header: _____ deciseconds

Do you want a delay to follow the header/envelope? (Only necessary if the header information is to be transcribed.)

Voice Form Definition Worksheet

C: Caller Confirmation Mode: None At Each Field Whole Form
When will confirmation occur, if at all?

C: Default Revert DN: _____

If there is a problem using the form or the caller presses 0 (if allowed), where should he be transferred?

C: Caller 0 Allowed: No Yes

Do you want callers to be able to press 0 for direct access to an operator?

C: System Messages File: _____ (language)

If you have a multilingual system, in what language should SYSTEM prompts be played?

How will callers access the service? **

1. Direct Access: VSDN: _____

2. Via Voice Menu Service: VSDN: _____ Menu ID#: _____

 Title of Menu Service: _____

3. Via Time of Day Controller: VSDN: _____

 Time of Day Controller ID: _____

Transcription Service VSDN: _____ **

** The VSDNs of the voice form (or the service through which it is accessed) and the transcription service can be configured after you have created the voice form. These VSDNs are discussed in the sections Making voice forms accessible and Defining a VSDN for the transcription service in the chapter Configuring voice forms . When you define these DNS be sure to enter them into the worksheet so that your record is complete.

No Answer Field Worksheet

Page 1 of 1

Field Name: _____

Field Prompt:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Action After Field (circle ~~None~~ Field Revert Disconnect)

Choose the action that takes place after the field prompt is played to the caller.

Revert DN: _____

If Revert is selected, enter the DN to which the caller is transferred.

System Disconnect Message (circle ~~None~~): Yes

If Disconnect is selected, choose Yes if you want the system to play Goodbye upon disconnecting.

Save Response if Hangup (circle one ~~No~~ Yes)

Choose ~~es~~ if you want the voice form to be saved should the caller hang up at this prompt (if enough valuable information has been saved at this point). Choose No if the information collected far is not of use on its own.

Voice Answer Field Worksheet

Field Name: _____

Field Prompt:

Field Name recorded: _____

State the field name as a descriptive. Callers and transcribers will hear this label before the field prompt is played back to them.

Answer Length Limit: _____ seconds

This field determines the maximum length of the caller's answer to this prompt. The default maximum value is 30 seconds. This maximum value can be changed.

No Answer Handling (circle one) ~~Next~~ Field Revert Disconnect Repeat

Choose the action that should be taken if the caller does not record an answer once the field prompt is played: NextField - The next field prompt will be played. Revert - The caller will be transferred to the revert DN specified for this field. Disconnect - The call is disconnected. Repeat - The field prompt is repeated for an adjustable but limited number of times; when this limit is reached, the call is disconnected. The next field is not played.

Revert DN: _____

If Revert is selected for No Answer Handling, enter the DN to which the caller is transferred.

If no DN is entered, the default revert DN for the form is used.

Repeats before Disconnect: _____

If Repeat is selected for No Answer Handling, enter the number of times the current prompt will be repeated before the caller is disconnected from the voice form. Note that the next field prompt will be played when Repeat is selected.

Stop Recording on Silence (circle one) ~~None~~ Yes

This field determines what happens if the caller is silent for a predetermined length of time during recording. (This time period, in seconds, can be adjusted by the NT support organization.) If Yes is selected, recording stops and the next action in the form is taken. If No is selected, the recording period continues for the amount of time specified in the Answer Length Limit field.

Field to be Confirmed (circle one) ~~No~~ Yes

If confirmation mode is Whole Form or At Each Field, select yes if you want callers to confirm their answer to this question.

Save Response if Hangup (circle one) ~~No~~ Yes

Choose Yes if you want the voice form to be saved should the caller hang up at this prompt (if enough valuable information has been saved at this point). Choose No if the information collected so far is not of use on its own.

Field Separator Delay (circle one) ~~Stop~~ Delay (deciseconds: _____)

This field affects the transcription process. Choose Stop if you want playback to stop after an answer has been played (the transcriber has to enter a specific command to resume playback). Choose Delay (and specify a value) if you want playback to pause for the specified amount of time after an answer has been played (which playback will automatically resume.)

Caller Survey for Voice Form ID: _____ Title: _____

Page 2 of 2

7 Did you have enough time to answer all of the questions? If not, which questions didn't allow enough time?

8 Did the voice form take too long to complete? Would this dissuade you from using it?

9 Were you able to revert out of the voice form and speak to someone if you needed to?

10 Were you unexpectedly disconnected from the voice form at any time?

When did the disconnect occur?

Did you hear a disconnect prompt (goodbye)?

11 When you heard your confirmation, did you understand what you were hearing? If not, what was wrong?

12 Do you have any additional comments or suggestions regarding this voice form?

Transcriber Survey for Voice Form ID: _____ Title: _____

Page 1 of 2

1 Were you able to access the transcription service? If not, which part did not work:
access number password other
If other, explain.

2 Were you notified of a new voice form via your message light?
Yes No

3 After you logged on to the voice form, what did you hear before the first response was played back?
Envelope (status, form ID or name, response number, date and time response was recorded)
Header (status and response number only)
Did you find this helpful? If not, would you prefer the other option (and why)?

4 After the header or envelope, what happened?
There was a delay It continued automatically and played back the first field
If there was a delay, did it give you enough time to write down the information in the header?
Yes No
If there was no delay, would you have liked a delay?
Yes No

Appendix B: Sample sessions

Sample caller session

The following is an example of how a caller session would run. In this example, the caller has a touch-tone phone and confirmation mode is Whole Form.

- 1 A caller dials the number published to submit an address change. The system directly connects the caller with the voice form. The introductory greeting is played, followed by some caller instructions.

Thank you for calling. Please call our department store to inform us of your new address and phone number.

You will be asked for your old address and phone number followed by your new address and phone number. After each question, simply speak your answer into the microphone. Once we have recorded an answer to a question, you can press number sign to go to the next question. At the end of this application, you will be asked to confirm some of your answers unless you are calling from a rotary phone. If you have a touch-tone phone and require assistance at any time, press 0 to speak to an operator.

- 2 The first question is asked.

Please speak your name after the tone. Speak your last name first followed by its spelling. Then speak your first name.

- 3 The caller says: Frith, f-r-i-t-h, Frank and then presses #.

Please speak your old address. Tell us the street, city, state or province and zip code.

- 4 The caller says: 801 Sparrow Crescent, London Ontario, M2T 7J7
and presses < #>.
Please speak your old phone number with the area code.
- 5 The caller says: 519-555-1001 and then presses <#>.
Please speak your new address. Include the street, city, state or
province and zip code.
- 6 The caller says: 90 Weatherview Avenue, London Ontario, M5E 1Z3
and then presses < #>.
Please speak your new phone number
- 7 The caller says: 519-555-8290 .
- 8 Since DTMF input has been received, the answers will be confirmed.
The following prompt is played to indicate that confirmation is asked
to begin:
Selected answers will now be played back to you so that you can
confirm them.
New address.
90 Weatherview Avenue, London Ontario, M5E 1Z3
If this is correct, press 1. To represent the answer
- 9 The caller presses <1>.
New phone number
519-555-8290.
If this is correct, press 1. To represent the answer
- 10 The caller has made a mistake and presses 2 to correct it. The following
prompt is played:
Please speak your new phone number
The caller says: 519-555-2890 .
Your answer will now be played back to you.
519-555-2890
If this is correct, press 1. To represent the answer
- 11 The caller presses <1>.

12 The goodbye greeting is played.

Your new address will be entered in our files. Thank you for shopping at Laing

13 The caller is disconnected.

Sample transcriber session

The following is a sample run through a transcription session.

In this example, transcription parameters are configured as follows:

Form Name Recorded	Yes
Transcription Password	54332
Play Envelope for Header	Yes
Transcription Field Separator	Field Name
Field Separator Delay	Delay (different for each field)

1 A transcriber is notified that a new response has been received. E calls the telephone number of the voice forms transcription service logs on:

Transcription service. Please enter ~~field~~ followed by number number sign.

2 The transcriber presses <1> <#>.

Please enter the Form Password, followed by number sign.

3 The transcriber enters the password by pressing <5><4><3><3><2><#>.

The login summary is played. This includes the recorded form name and the number of new responses.

Address change
Number of new responses: one

4 Either the header or envelope is played. In this example, the envelope is played, containing the following information: response status, name, response number, date and time recorded.

New, address change, response one, recorded October 31st at 11:13 a.m.

- 5 The first field name is played followed by the caller's recorded answer. The answer is followed by a delay during which the transcriber transcribes the answer. After the specified delay, the next field is played, followed by the answer. This continues until the final answer is played back.

Name

Frith, f-r-i-t-h, Frank

<delay>

Old address

801 Sparrow Crescent, London Ontario, M2T 7J7

<delay>

Old phone number

519-555-1001

<delay>

New address

90 Weatherview Avenue, London Ontario, M5E 1Z3

<delay>

New phone number

519-555-2890

<delay>

End of response

- 6 While listening to the response, the transcriber transfers the information to another application. When the transcriber is done with this response, he presses <7><6> to delete it.

Response deleted.

- 7 The transcriber is finished transcribing responses. He hangs up.

List of terms

Answer

A reply to a particular question within a voice form. For example:

What is your name?

Answer: Peter Murphy

Confirmation

The process whereby a caller has an opportunity to review his or her answers and confirm if they are correct. If an answer is incorrect, the caller can re-record it. Confirmation requires keypad interface.

Customer group

In a multicustomer system, the entire Meridian Mail system will be divided into a number of customer groups. All users on the system are added to a particular customer group. Features and operating parameters can be selectively configured for each customer group and billing data can be collected separately for each customer group.

A system that does not have the Multi-Customer feature can be thought of as a single-customer system or one large customer group.

DN

Directory number.

Envelope

The information played at the beginning of a response if Play Envelope Header is Yes or when the transcriber presses <7><2> while positioned on a response. It informs the transcriber of the status (new), response number, the voice form ID or name, and the date and time of the response. (See header.)

Field

This word can have one of two meanings. In Meridian Mail administrative screens, a field is a location on the screen in which you can either enter or select one of several predetermined options. For example, in the Add Voice Form Definition screen, ~~you enter the~~ **Field**. This is one type of field.

Within a voice form application, the term field takes on another meaning. A voice form consists of a series of recorded greetings, instructions and questions which are played to callers. Each of these recorded elements is referred to as a prompt. For each prompt that you want to include in a voice form, you must define a field in the voice form definition. The voice form field therefore contains the actual recorded prompt and information about how the field should act within the context of the voice form. Voice form fields are configured in the Insert New Field screen.

Header

The information played at the beginning of a response. It informs the transcriber of the status (new, special) and the response number. The response envelope contains additional information.

MWI

Message waiting indicator.

No Answer Field

A field within a voice form that does not require a caller to record an answer in response. This type of field is an information-only field (such as a greeting or instruction).

Notification DN

The DN to which a message waiting indicator (MWI) message is sent when a new response is recorded (New Response Notification DN) or when a response is marked as special (Special Response Notification DN). This is the DN of the transcriber in the first case or the person responsible for handling special responses in the second case.

Prompt

A greeting, instruction or question that is played to a caller while using a voice form. For example:

Prompt: What is your name?

Response

A completed voice form (all of the answers together). For example, a response might be:

Peter Murphy, 555-8001, 85 Eastwick Drive, Tinytown, Illinois, 60544

SMDI

Simplified message desk interface.

Transcriber

The person who listens to callers responses and processes the information.

Transcription

The process of listening to and collecting caller responses for further processing.

Voice Answer Field

A field within a voice form that requires a caller to provide a verbal response.

Voice form

A Meridian Mail application that is the electronic equivalent of a paper form. Callers dial into the voice form and fill it out by responding verbally to a series of questions. It is used as an information-gathering tool.

VSDN

Voice services directory number.

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Reader's Response Form for

Meridian Mail
Voice Forms Application Guide, 555-7001-326,
March 1994

Tell us about yourself:	
Name: _____	Date: _____
Company: _____	
Address: _____	

Occupation: _____	Phone: _____

1. What is your level of experience with this product?
 New user Intermediate Experienced Programmer

2. How do you use this book?
 Learning Procedural Problem solving Reference

3. Did this book meet all of your needs?
 Yes No

If you answered No to this question, please answer the following questions.

4. What chapters, sections, or procedures did you find hard to understand?

5. What information (if any) was missing from this book?

6. How could we improve this book? (For example, books can also be evaluated in many other ways, including information retrieval, presentation, and use of reading aids, such as diagrams.)

Please return your comments by fax to (416) 597-7104, or mail your comments to: Customer Documentation Development, Toronto Lab, 522 University Ave., Toronto, Ontario, Canada. M5G 1W7.



Reader's Response Form

Meridian Mail

Voice Forms Application Guide

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