

Lucent Technologies
Bell Labs Innovations



INTUITY™ Enterprise Manager

Administration

585-310-576
Comcode 108047556
Issue 1
March 1998

Notice

Every effort was made to ensure that the information in this book was complete and accurate at the time of printing. However, information is subject to change.

Your Responsibility for Your System's Security

Toll fraud is the unauthorized use of your telecommunications system by an unauthorized party, for example, persons other than your company's employees, agents, subcontractors, or persons working on your company's behalf. Note that there may be a risk of toll fraud associated with your telecommunications system and, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

You and your system manager are responsible for the security of your system, such as programming and configuring your equipment to prevent unauthorized use. The system manager is also responsible for reading all installation, instruction, and system administration documents provided with this product in order to fully understand the features that can introduce risk of toll fraud and the steps that can be taken to reduce that risk. Lucent Technologies does not warrant that this product is immune from or will prevent unauthorized use of common-carrier telecommunication services or facilities accessed through or connected to it. Lucent Technologies will not be responsible for any charges that result from such unauthorized use.

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- Reorient the receiving television or radio antenna where this may be done safely.
- To the extent possible, relocate the receiver with respect to the telephone equipment.
- Where the telephone equipment requires AC power, plug the telephone into a different AC outlet so that the telephone equipment and receiver are on different branch circuits.

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Part 68: Network Registration Number. This equipment is registered with the FCC in accordance with Part 68 of the FCC Rules. It is identified by an FCC registration number.

Part 68: Answer-Supervision Signaling. Allowing this equipment to be operated in a manner that does not provide proper answer-supervision signaling is in violation of Part 68 Rules. This equipment returns answer-supervision signals to the public switched network when:

- Answered by the called station
- Answered by the attendant
- Routed to a recorded announcement that can be administered by the CPE user

This equipment returns answer-supervision signals on all DID calls forwarded back to the public switched telephone network. Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

Canadian Department of Communications (DOC)

Interference Information

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le Présent Appareil Numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A prescrites dans le reglement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

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Lucent Technologies provides a limited warranty on this product. Refer to the "Limited Use Software License Agreement" card provided with your package.

European Union Declaration of Conformity

Lucent Technologies Business Communications Systems declares that the equipment specified in this document conforms to the referenced European Union (EU) Directives and Harmonized Standards listed below:

EMC Directive	89/336/EEC
Low-Voltage Directive	73/23/EEC

The "CE" mark affixed to the equipment means that it conforms to the above directives.



Comments

To comment on this document, return the comment card at the front of the document.

Acknowledgment

This document was prepared by the Product Documentation, Lucent Technologies, Columbus, OH.

Contents

<u>Contents</u>	<u>iii</u>
<u>About This Book</u>	<u>xvii</u>
■ <u>Purpose</u>	<u>xvii</u>
■ <u>Intended Audiences</u>	<u>xvii</u>
■ <u>Release History</u>	<u>xvii</u>
■ <u>How to Use This Book</u>	<u>xviii</u>
■ <u>Conventions Used in This Book</u>	<u>xix</u>
<u>Terminology</u>	<u>xix</u>
<u>Terminal Keys</u>	<u>xxii</u>
<u>Screen Displays</u>	<u>xxii</u>
<u>Other Typography</u>	<u>xxiii</u>
<u>Safety and Security Alert Labels</u>	<u>xxiii</u>
■ <u>Related Resources</u>	<u>xxiv</u>
<u>Documentation</u>	<u>xxiv</u>
<u>Training</u>	<u>xxv</u>
■ <u>Trademarks and Service Marks</u>	<u>xxv</u>
■ <u>How to Comment on This Book</u>	<u>xxv</u>
<u>1 INTUITY Enterprise Manager</u>	
<u>System Description</u>	<u>1</u>
■ <u>Overview</u>	<u>1</u>
■ <u>Purpose</u>	<u>1</u>
■ <u>What is INTUITY Enterprise Manager?</u>	<u>1</u>
■ <u>INTUITY Enterprise Manager Features</u>	<u>3</u>
<u>Cut-Through Access</u>	<u>3</u>
<u>Data Collection</u>	<u>3</u>
<u>Poll Logs</u>	<u>4</u>
<u>Subscriber Administration</u>	<u>4</u>
<u>Bulk Subscriber Administration</u>	<u>5</u>
<u>Individual Subscriber Administration</u>	<u>5</u>
<u>Reports</u>	<u>5</u>
<u>Performance Monitoring</u>	<u>6</u>
■ <u>Enterprise Manager Requirements</u>	<u>6</u>
<u>System Capacities</u>	<u>7</u>
<u>Supported Terminal Types</u>	<u>7</u>

<u>2</u>	<u>Administration Checklists</u>	<u>9</u>
	■ <u>Overview</u>	<u>9</u>
	■ <u>Purpose</u>	<u>9</u>
<u>3</u>	<u>Getting Started</u>	<u>13</u>
	■ <u>Overview</u>	<u>13</u>
	■ <u>Purpose</u>	<u>13</u>
	■ <u>Logging In to the Enterprise Manager</u>	<u>14</u>
	■ <u>Setting Feature Options</u>	<u>16</u>
	■ <u>Setting Up a Trusted Server</u>	<u>17</u>
	<u>Setting the IMAPI Password</u>	<u>19</u>
	<u>Setting Up IMAPI Sessions</u>	<u>21</u>
<u>4</u>	<u>Customer Administration</u>	<u>23</u>
	■ <u>Overview</u>	<u>23</u>
	■ <u>Purpose</u>	<u>23</u>
	■ <u>Customer Administration</u>	<u>24</u>
	<u>Accessing the Customer Administration Window</u>	<u>24</u>
	<u>Administering a New Customer ID</u>	<u>26</u>
	<u>Updating the Customer ID</u>	<u>27</u>
	<u>Deleting the Customer ID</u>	<u>28</u>
<u>5</u>	<u>Managed Element Administration</u>	<u>29</u>
	■ <u>Overview</u>	<u>29</u>
	■ <u>Purpose</u>	<u>29</u>
	■ <u>Managed Element Administration</u>	<u>30</u>
	<u>Accessing the Managed Element Administration</u>	<u>30</u>
	<u>Adding a Managed Element</u>	<u>35</u>
	<u>Updating an Existing Managed Element</u>	<u>35</u>
	<u>Deleting a Managed Element</u>	<u>36</u>
	<u>Performing an Audit on the Managed Element Table</u>	<u>37</u>
<u>6</u>	<u>Performance Configuration</u>	<u>39</u>
	■ <u>Overview</u>	<u>39</u>
	■ <u>Purpose</u>	<u>39</u>
	■ <u>Performance Configuration</u>	<u>40</u>
	<u>Accessing Performance Configuration</u>	<u>40</u>
	<u>Load Category Definition</u>	<u>41</u>

	Windowing	43
	System Load	43
7	Cut-Through Access	45
	■ Overview	45
	■ Purpose	45
	■ Cut-Through Access	46
	Using Cut-Through Access	46
	Troubles Accessing a Managed Element	47
8	Data Collection	49
	■ Overview	49
	■ Purpose	49
	■ Data Collection	50
	On-Demand Data Collection	50
	Data Types	53
	Scheduled Data Collection	55
	Adding a Scheduled Data Collection Request	55
	Frequency Values	59
	Updating a Scheduled Data Collection Request	59
	Deleting a Scheduled Data Collection Request	60
	Using sqlplus to View	60
	■ Poll Logs	61
	Querying Poll Logs	61
	Deleting Poll Logs	65
	Configuring Poll Log Table	66
	■ Data Clean Up	68
	Guidelines for Data Clean Up	68
	Reports Cleanup	68
	On Demand Report Files	68
	Scheduled Report Files	69
	Data Collection Cleanup	69
	Data File Cleanup	69
	Oracle Database Cleanup	69
	Example for Scheduled Data Collection with Report and Data Cleanup	70
	On-Demand Data Clean Up	71

	Scheduled Data Clean Up	73
	Adding a Scheduled Data Cleanup Request	73
	Updating a Scheduled Data Cleanup Request	75
	Deleting a Scheduled Data Cleanup Request	75
■	Retry Time	76
■	Data Collection Troubleshooting	77
9	Reports	81
■	Overview	81
■	Purpose	81
■	Report Types	82
■	Using the Reports Menu	87
	Accessing the Reports Menu	87
	Creating Reports	88
	Guidelines for Creating Reports	88
	Procedure	88
	Updating Scheduled Reports	90
	Deleting Scheduled Reports	90
	Viewing Reports	91
	Generating an Report using SQL*ReportWriter	92
■	Activity Log Report	94
	Creating the Activity Log Report	94
	Interpreting the Activity Log Report	97
■	Administration Log Report	99
	Creating the Administration Log Report	99
	Interpreting the Admin Log Report	103
■	Alarm Log Report	105
	Creating the Alarm Log Report	105
	Interpreting the Alarm Log Report	111
■	Auto Attendant Information Report	112
	Creating the Auto Attendant Information Report	113
	Interpreting the Auto Attendant Information Report	115
■	COS Report	118
	Creating the COS Report	118
	Interpreting the COS Report	121

■ Error Report	127
Creating the Error Report	127
Interpreting the Error Report	132
■ Fragment Report	136
Creating the Fragment Report	136
Interpreting the Fragment Report	137
■ Managed Element Report	139
Creating the Managed Element Report	139
Interpreting the Managed Element Report	140
■ Monthly Systems Summary Report	142
Creating the Monthly Systems Summary Report	142
Interpreting the Monthly System Summary Report	144
■ Network Load Data Report	154
Creating the Network Load Data Report	154
Interpreting the Network Load Report	158
■ Remote Machines Report	163
Creating the Remote Machines Report	163
Interpreting the Remote Machines Report	165
■ Remote Message Measurements Data Report	166
Creating the Remote Message Measurements Data Report	166
Interpreting the Remote Message Measurement Data Report	170
■ Special Features Measurements Report	174
Creating the Special Features Measurements Report	174
Interpreting the Special Features Measurements Report	177
■ Subscriber Information Report	179
Creating the Subscriber Information Report	179
Interpreting the Subscriber Information Report	183
■ Subscriber Data Report	184
Creating the Subscriber Data Report	184
■ System Parameters Report	188
Creating the System Parameters Report	188

<u>Interpreting the System Parameter Report</u>	190
■ <u>Trusted Server Report</u>	200
<u>Creating the Trusted Server Report</u>	200
<u>Interpreting the Trusted Server Report</u>	202
■ <u>Troubleshooting Reports</u>	204
<u>On-Demand Report with Collect Data Now? Set to y</u>	204
<u>On-Demand Report with Collect Data Now? Set to n</u>	205
<u>A Scheduled Report</u>	206

10 Subscriber Administration 207

■ <u>Overview</u>	207
■ <u>Purpose</u>	207
■ <u>Subscriber Administration</u>	208
<u>Understanding Subscriber Administration Impacts</u>	208
<u>Adding a Subscriber</u>	210
<u>Deleting Subscribers</u>	221
<u>Changing Subscriber Data</u>	223
<u>Moving Subscribers to Another Managed Element</u>	225
<u>Requirements and Guidelines</u>	225
<u>Procedure</u>	226
■ <u>External Provisioning</u>	229
<u>Creating the External Provisioning File</u>	229
<u>External Provisioning File Format</u>	230
<u>ADD File</u>	230
<u>Format</u>	230
<u>Sample File</u>	231
<u>DELETE File</u>	231
<u>Format</u>	231
<u>Sample File</u>	231
<u>CHANGE File</u>	231
<u>Format</u>	231
<u>Sample File</u>	232
<u>MOVE File</u>	232

Format	232
Bulk File	233
Format	233
Sample File	233
Transferring Files to the Enterprise Manager	233
Performing External Provisioning	234
Using the Screen Interface	234
Using the Command Line	236
add_sub	236
del_sub	236
chg_sub	236
mov_sub	237
blk_sub	237
Cancelling a Scheduled Provisioning Request	240
■ View Log Files	241
Corrective Actions	242

A Database Schema	245
■ Overview	245
■ Purpose	245
■ Table Structure	246
■ NMgetaalar	247
Data Format	247
Reference	247
■ NMgetalogp	248
Data Format	248
Reference	248
■ NMgetatt	249
Data Format	249
Reference	249
■ NMgetcomm	250
Data Format	250
Reference	253
■ NMgetcos	254
Data Format	254
Reference	255

■ NMgetdir	256
Data Format	256
Reference	256
■ NMgetfeat	257
Data Format	257
Reference	258
■ NMgetlimit	259
Data Format	259
Reference	260
■ NMgetlist	261
Data Format	261
Reference	261
■ NMgetload	262
Data Format	262
Reference	267
■ NMgetmaint	268
Data Format	268
Reference	268
■ NMgetmlist	269
Data Format	269
Reference	270
■ NMgetnet	271
Data Format	271
Reference	276
■ NMgetperfcpu	277
Data Format	277
■ NMgetperfhist	279
Data Format	279
Reference	280
■ NMgetperfpeg	281
Data Format	281
Reference	281
■ NMgetperfst	282
Data Format	282
Reference	282

■ NMgetperftod	283
Data Format	283
Reference	283
■ NMgetperfvexid	284
Data Format	284
Reference	284
■ NMgetralar	285
Data Format	285
Reference	285
■ NMgetrem	286
Data Format	286
Reference	288
■ NMgetremmon	289
Data Format	289
Reference	291
■ NMgetserve	292
Data Format	292
Reference	292
■ NMgetspfea	293
Data Format	293
Reference	294
■ NMgetsub	295
Data Format	295
Reference	297
■ NMgetswitc	298
Data Format	298
Reference	298
■ NMgetsys	299
Data Format	299
Reference	299
■ NMgetsysat	300
Data Format	300
Reference	301

■ NMgetsysfe	302
Data Format	302
Reference	306
■ NMgettlist	307
Data Format	307
Reference	307
■ NMgettraf	308
Data Format	308
Reference	310
■ NMgettrafmon	311
Data Format	311
Reference	313
■ NMgetvports	314
Data Format	314
Reference	314
■ NMODgetaalar	315
Data Format	315
Reference	315
■ NMODgetalogp	316
Data Format	316
Reference	316
■ NMODgetatt	317
Reference	317
■ NMODgetcomm	318
Data Format	318
Reference	321
■ NMODgetcos	322
Data Format	322
Reference	323
■ NMODgetdir	324
Data Format	324
Reference	324
■ NMODgetfeat	325
Data Format	325
Reference	326

■ NMODgetfrag	327
Data Format	327
Reference	327
■ NMODgetlimit	328
Data Format	328
Reference	329
■ NMODgetlist	330
Data Format	330
Reference	330
■ NMODgetload	331
Data Format	331
Reference	336
■ NMODgetlog	337
Data Format	337
Reference	337
■ NMODgetmaint	338
Data Format	338
Reference	338
■ NMODgetmlist	339
Data Format	339
Reference	340
■ NMODgetnet	341
Data Format	341
Reference	346
■ NMODgetperfcpu	347
Data Format	347
Reference	348
■ NMODgetperfhist	349
Data Format	349
Reference	350
■ NMODgetperfpeg	351
Data Format	351
Reference	351

■ NMODgetperfstat	352
Data Format	352
Reference	352
■ NMODgetperftod	353
Data Format	353
Reference	353
■ NMODgetperfvxid	354
Data Format	354
Reference	354
■ NMODgetralar	355
Data Format	355
Reference	355
■ NMODgetrem	356
Data Format	356
Reference	358
■ NMODgetremmon	359
Data Format	359
Reference	361
■ NMODgetserve	362
Data Format	362
Reference	362
■ NMODgetspfea	363
Data Format	363
Reference	364
■ NMODgetsub	365
Data Format	365
Reference	367
■ NMODgetswitc	368
Data Format	368
Reference	368
■ NMODgetsys	369
Data Format	369
Reference	369

■ NMODgetsysat	370
Data Format	370
Reference	371
■ NMODgetsysfe	372
Data Format	372
Reference	376
■ NMODgettlist	377
Data Format	377
Reference	377
■ NMODgettraf	378
Data Format	378
Reference	380
■ NMODgettrafmon	381
Data Format	381
Reference	383
IN Index	385

About This Book

Purpose

This book, *Lucent INTUITY Enterprise Manager Administration, 585-310-576*, provides specific initial and ongoing administration procedures for the Enterprise Manager. The administrator will use this information during day-to-day operation, for example, ongoing provisioning. The Lucent NetCare Services will use this information during initial administration of the Enterprise Manager. Other audiences of this book include the customer engineer who will remotely maintain and diagnose the Enterprise Manager.

Intended Audiences

This book is intended primarily the administrator will use this information during day-to-day operation, for example, ongoing provisioning. The Lucent NetCare Services will use this information during initial administration of the Enterprise Manager. Other audiences of this book include the customer engineer who will remotely maintain and diagnose the Enterprise Manager.

Release History

This is the first release of this book.

How to Use This Book

This book is organized into the following sections:

- [Chapter 1, “INTUITY Enterprise Manager System Description”](#), provides a description of the INTUITY Enterprise Manager system. It includes information about configuration, features, hardware and software requirements, and system capacities.
- [Chapter 2, “Administration Checklists”](#), provides checklists for the tasks that must be performed to administer the Enterprise Manager and the elements to be managed by the Enterprise Manager.
- [Chapter 3, “Getting Started”](#), provides procedures for logging in to the Enterprise Manager and setting the feature options for the managed elements.
- [Chapter 4, “Customer Administration”](#), provides the procedure to administer a customer ID on the Enterprise Manager.
- [Chapter 5, “Managed Element Administration”](#), provides the procedures to administer a managed element on the Enterprise Manager.
- [Chapter 6, “Performance Configuration”](#), describes the configuration of the performance monitor for the Enterprise Manager.
- [Chapter 7, “Cut-Through Access”](#), provides the procedures to access INTUITY AUDIX Release 4, INTUITY Interchange, or other systems on a TPC/IP network from the Enterprise Manager.
- [Chapter 8, “Data Collection”](#), provides procedures for scheduled and on-demand data collection and data clean up.
- [Chapter 9, “Reports”](#), provides the procedures needed to generate and schedule reports, as well as detailed information about the content of each report.
- [Chapter 10, “Subscriber Administration”](#), provides procedures to administer subscriber on INTUITY AUDIX systems using the Enterprise Manager.
- [Appendix A, “Database Schema”](#), provides database structure for the Enterprise Manager.

Conventions Used in This Book

This section describes the conventions used in this book.

Terminology

- The word “type” means to press the key or sequence of keys specified. For example, an instruction to type the letter “y” is shown as
Type **y** to continue.
- The word “enter” means to type a value and then press `ENTER`. For example, an instruction to type the letter “y” and press `ENTER` is shown as
Enter **y** to continue.
- The word “select” means to move the cursor to the desired menu item and then press `ENTER`. For example, an instruction to move the cursor to the start test option on the Network Loop-Around Test screen and then press `ENTER` is shown as
Select Start Test.
- The Lucent INTUITY system displays *windows*, *screens*, and *menus*. “Windows” show and request system information ([Figure 1](#) and [Figure 2](#), respectively). “Screens” request that you enter a command at the `enter command: prompt` ([Figure 3](#)). “Menus” ([Figure 4](#)) present options from which you can choose to view another menu, or a screen or window.
- The words “subscriber” and “user” are interchangeable terms that describe a person administered on the Lucent INTUITY system. The word “user” is the preferred term in the text; however, “subscriber” appears on most of the screens.

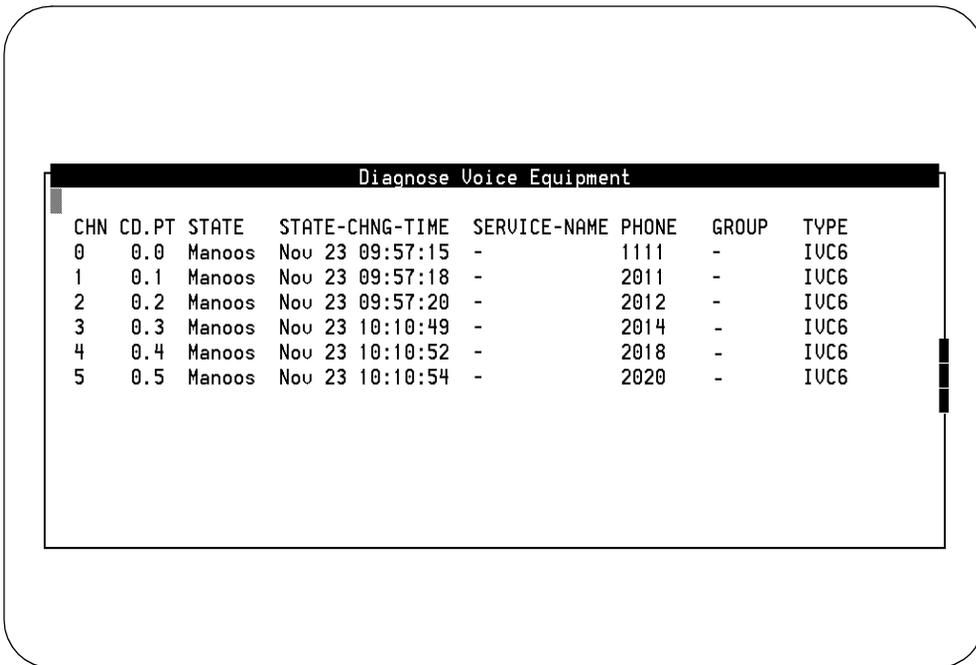


Figure 1. Example of a Lucent INTUITY Window

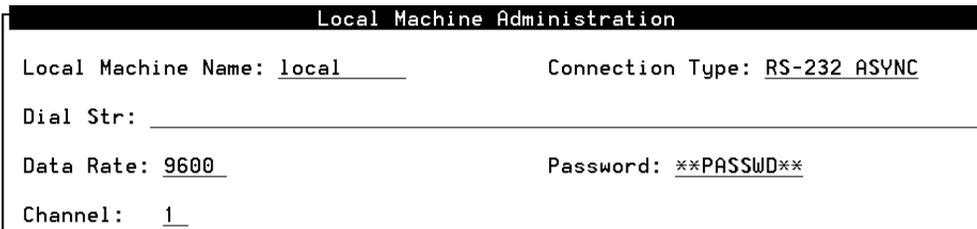


Figure 2. Example of a Lucent INTUITY Window

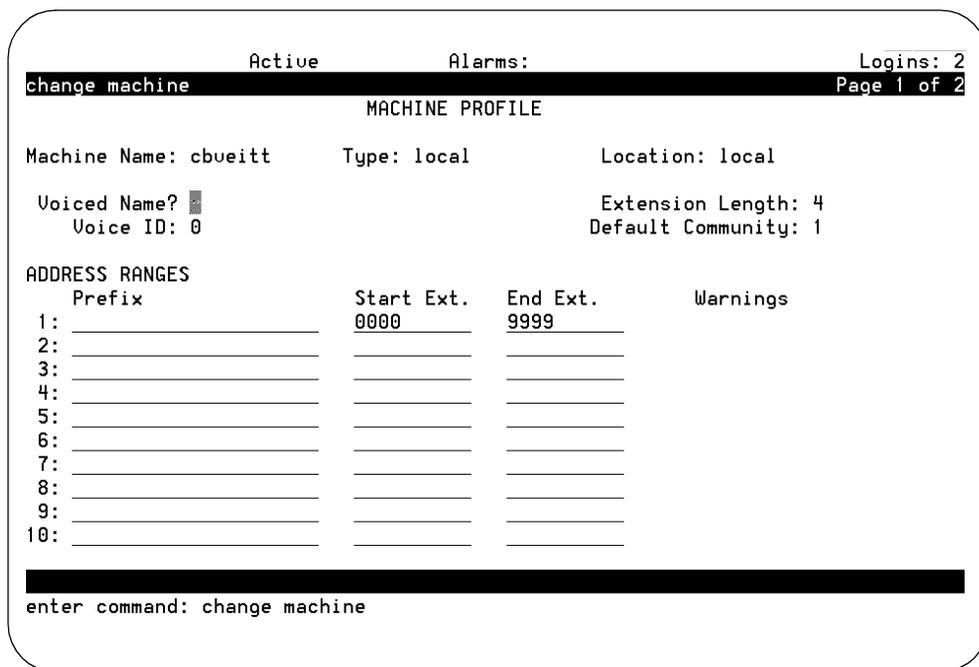


Figure 3. Example of a Lucent INTUITY Screen



Figure 4. Example of a Lucent INTUITY Menu

Terminal Keys

- Keys that you press on your terminal or PC are represented as rounded boxes. For example, an instruction to press the enter key is shown as
Press `ENTER`.
- Two or three keys that you press at the same time on your terminal or PC (that is, you hold down the first key while pressing the second and/or third key) are represented as a series of separate rounded boxes. For example, an instruction to press and hold `ALT` while typing the letter “d” is shown as
Press `ALT` `D`.
- Function keys on your terminal, PC, or system screens, also known as *soft keys*, are represented as round boxes followed by the function or value of that key enclosed in parentheses. For example, an instruction to press function key 2 is shown as
Press `F2` (Choices).
- Keys that you press on your telephone keypad are represented as square boxes. For example, an instruction to press the first key on your telephone keypad is shown as
Press `1` to record a message.

Screen Displays

- Values, system messages, field names, and prompts that appear on the screen are shown in typewriter-style `constant-width` type, as shown in the following examples:

Example 1:

```
Enter the number of ports to be dedicated to outbound traffic in the  
Maximum Simultaneous Ports field.
```

Example 2:

```
Alarm Form Update was successful.  
Press <Enter> to continue.
```

- The sequence of menu options that you must select to display a specific screen or submenu is shown as follows:

Start at the Lucent INTUITY Administration menu and select:

```
> Customer/Services Administration
```

```
> Alarm Management
```

In this example, you would access the Lucent INTUITY Administration menu and select the Customer/Services Administration menu. From the Customer/Services Administration menu, you would then select the Alarm Management screen.

- Screens shown in this book are examples only. The screens you see on your machine will be similar, but not exactly the same.

Other Typography

- Commands and text you type in or enter appear in **bold type**, as in the following examples:

Example 1:

Enter **change-switch-time-zone** at the `enter` command: prompt.

Example 2:

Type **high** or **low** in the `Speed:` field.

- Command variables are shown in ***bold italic*** type when they are part of what you must type in and *regular italic* type when they are not, for example

Enter **ch ma *machine_name***, where *machine_name* is the name of the call delivery machine you just created.

Safety and Security Alert Labels

This book uses the following symbols to call your attention to potential problems that could cause personal injury, damage to equipment, loss of data, service interruptions, or breaches of toll fraud security:

CAUTION:

Indicates the presence of a hazard that if not avoided can or will cause minor personal injury or property damage, including loss of data.



WARNING:

Indicates the presence of a hazard that if not avoided can cause death or severe personal injury.



DANGER:

Indicates the presence of a hazard that if not avoided will cause death or severe personal injury.

Related Resources

This section describes additional documentation and training available for you to learn more about installation of the Lucent INTUITY product.

Documentation

It is suggested that you obtain and use the following books in conjunction with this book:

- *INTUITY Messaging Solutions Release 4 Administration*, 585-310-564, for detailed information on administering an INTUITY AUDIX Release 4 system.
- *INTUITY Interchange Administration*, 585-310-573, for detailed information on INTUITY Interchange administration, reports, and subscriber interface
- *INTUITY Enterprise Manager Installation and Maintenance*, 585-310-193, for system procedures, installation instructions, and alarm and log messages specific to Enterprise Manager.

It is suggested that you obtain and use the following book for information on security and toll fraud issues:

- *GBCS Products Security Handbook*, 555-025-600

See the inside front cover for information on how to order Lucent INTUITY documentation.

Training

The following training class is recommended as a prerequisite to installing a Release 4.0 Lucent INTUITY system:

- Course No. MO1616A, INTUITY Messaging Solutions Installation and Maintenance

For more information on Lucent INTUITY training, call the BCS Education and Training Center at one of the following numbers:

- Organizations within Lucent: (904) 636-3261
- Lucent customers and all others: (800) 255-8988

Trademarks and Service Marks

The following trademarked products are mentioned in this book:

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INTUITY Enterprise Manager System Description

1

Overview

This chapter provides a high-level description of the INTUITY™ Enterprise Manager. It includes information about configuration, features, hardware and software requirements, and system capacities.

Purpose

The purpose of this chapter is provide administrators with descriptions of INTUITY Enterprise Manager features.

What is INTUITY Enterprise Manager?

The INTUITY Enterprise Manager is a tool designed to meet the needs of network administrators of:

- Messaging networks in medium- to large-sized corporations
- A number of managed element sites
- Varying messaging network needs, from basic to sophisticated

The INTUITY Enterprise Manager provides tools for access, administration, data collection, and report generation on large INTUITY AUDIX and INTUITY Interchange networks.

The Enterprise Manager uses TCP/IP connectivity over a Local Area Network (LAN) or Wide Area Network (WAN) using either Point-to-Point Protocol (PPP) or network routers.

Figure 1-1 a shows sample configuration of the INTUITY Enterprise Manager. This example includes:

- A Multi-Application Platform 100 (MAP/100) with Enterprise Manager software installed
- An Ascend MAX 200 Plus (PPP server), for installation and maintenance dial-up connection to the network
- Managed elements that support INTUITY AUDIX or INTUITY Interchange
- LAN connectivity



NOTE:

[Figure 1-1](#) is intended only as an example of a typical INTUITY Enterprise Manager configuration. Actual system configurations will vary.

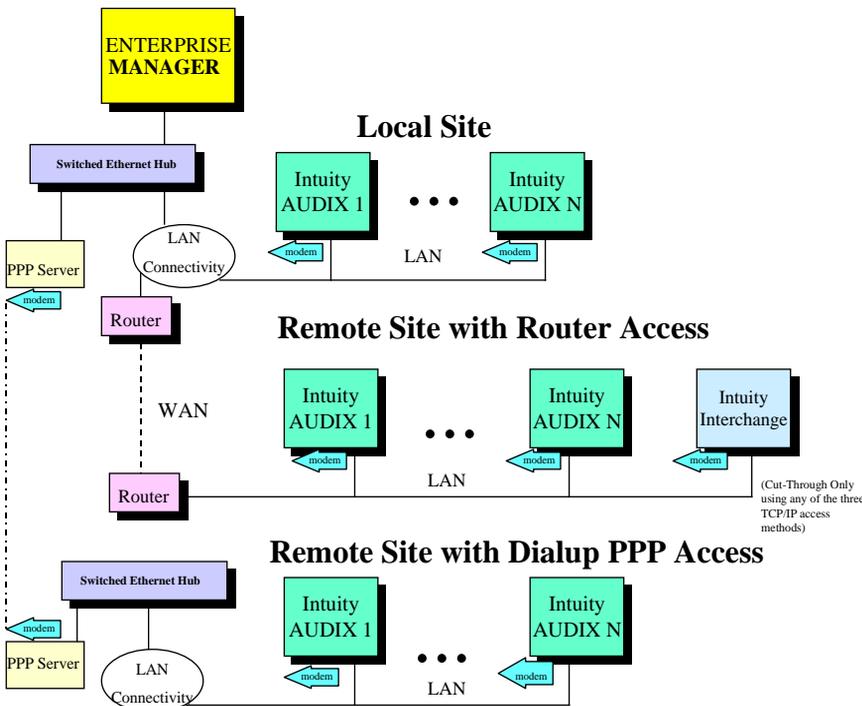


Figure 1-1. INTUITY Enterprise Manager Sample Configuration

INTUITY Enterprise Manager Features

The following are features of the INTUITY Enterprise Manager.

- Cut-Through Access
- Data collection
- Subscriber administration
- Reports
- Performance monitoring



NOTE:

On the INTUITY Interchange, the INTUITY Enterprise Manager supports only the Cut-Through Access feature. The other features are not available because of the INTUITY Interchange's architecture.

Cut-Through Access

Cut-Through Access is a feature to help administrators locate any remote managed element in their network. To find the desired element, administrators may enter any of the following:

- A machine name
- An IP address
- A mailbox ID

The Cut-Through Access feature then uses TCP/IP telnet to allow the administrator to log in directly to the managed element.

Using the Cut-Through Access feature, network administrators have the ability to:

- Access all managed elements (such as INTUITY AUDIX and INTUITY Interchange servers) in the network
- View alarm and maintenance logs for managed elements
- View and change individual system parameters on managed elements

Data Collection

The INTUITY Enterprise Manager polls data from managed elements in two ways:

- Scheduled polls at regular time intervals
- Manual "on-demand" polls at the request of the network administrator

For each of these types of polls, the INTUITY Enterprise Manager extracts the data, such as:

- Customer identification
- Network configuration
- Managed element configuration
- System performance
- Subscriber information
- System traffic

The INTUITY Enterprise Manager places this data in a local Structured Query Language (SQL) database for use in both preformatted and customized reports. The administrator may also move or copy the data to an external Operation Support System (OSS) or database.

Network administrators can define the time interval for scheduled polls. Options include hourly, daily, weekly, or monthly increments.

 **NOTE:**

According to the database sizing calculations, the Enterprise Manager is designed to use daily polling most frequently. Although hourly polls can be performed, the database can not accomodate continuous hourly polls.

Poll Logs

Network administrators can use the INTUITY Enterprise Manager to view the poll log for the entire system. This poll log includes information about:

- Date and time of the last poll
- Status of the last poll (started, failed, or postponed)
- Type of the last poll (scheduled or on-demand)
- Data collected

Subscriber Administration

The INTUITY Enterprise Manager performs subscriber administration tasks either automatically (on a scheduled basis) or on demand (at the request of the administrator). Subscriber administration can be done in bulk or on an individual subscriber basis.

Bulk Subscriber Administration

The INTUITY Enterprise Manager allows network administrators to handle requests for bulk administration of subscribers. Administrators can use the INTUITY Enterprise Manager to import preformatted ASCII files that contain requests for bulk additions, changes, and deletions of subscribers.

NOTE:

The INTUITY Enterprise Manager allows access to a standard file editor (such as **vi**) so administrators can modify the ASCII files, if necessary, to make them conform to the required bulk administration format.

The INTUITY Enterprise Manager also allows administrators to move one or more subscriber mailboxes in bulk from one managed element to another. When these mailboxes are moved, all of the associated mailbox data is moved with the mailbox except the subscriber password. The subscriber must change the password when logging in the next time.

The INTUITY Enterprise Manager provides administrators with the choice of a Graphical User Interface (GUI) or a Command Line Interface (CLI) for performing bulk subscriber tasks.

NOTE:

The Intuity Enterprise Manager provides administrators with UNIX access to allow certain file manipulation functions.

The INTUITY Enterprise Manager maintains a log of the successful and failed bulk subscriber administration tasks that are attempted.

Individual Subscriber Administration

The INTUITY Enterprise Manager allows administrators to make individual subscriber entries from a central location. This ability eliminates the need to physically go to each managed element to administer subscribers. The administrator simply logs in to any managed element in the network (using the Cut-Through Access feature) and performs the desired individual subscriber administration tasks.

Reports

The INTUITY Enterprise Manager generates default preformatted reports for each of the data types stored on the system. Report types include:

- System and subscriber configuration data
- Traffic log data (includes alarm, activity, and administration logs)

Administrators can produce reports both for individual managed elements and for the entire system.

The INTUITY Enterprise Manager generates system reports either on a scheduled basis or on demand by the administrator. Administrators have the option to poll for the desired data before generating reports.

When producing on-demand reports, administrators can either use the default preformatted report form or use an SQL application to create a customized report form for a particular need.

Performance Monitoring

The INTUITY Enterprise Manager monitors the performance of managed elements during polling requests, to make sure the polling activity will not adversely affect managed element performance. If the polling activity does begin to adversely affect managed element performance, the INTUITY Enterprise Manager stops the polling activity and reschedules it for a later time.

Enterprise Manager Requirements

The following describes the INTUITY Enterprise Manager hardware and software requirements. INTUITY Enterprise Manager systems undergo assemble, load, and test procedures prior to shipment to the installation site. See *INTUITY Enterprise Manager Installation and Maintenance*, 585-310-193, for additional information.

- Hardware requirements:
 - A MAP/100 with the following configuration:
 - P5 processor operating at 120-MHz with 128 Mbytes of RAM
 - Six hard disk drives
 - SMC Ethernet local area network (LAN) circuit card
 - SCSI controller circuit card
 - 2-Gbyte SCSI cartridge tape drive
 - External modem for remote maintenance support
 - Keyboard and VGA color monitor
 - Printer, optional (110V Okidata and Microline 320 for dot matrix, 110V Okidata OL810E for laser)
 - BayStack Ethernet Workgroup Switch — a dedicated LAN segment with a switched Ethernet hub
 - Ascend MAX 200 Plus — a PPP server for remote maintenance support
- Software requirements:
 - UnixWare 1.1.2
 - INTUITY AUDIX Platform 2.1 software modules

- Oracle 7.0.16
- jamrt 7.0.18
- Enterprise Manager application software

System Capacities



NOTE:

The following system capacities are based on load calculations and testing of Enterprise Manager configurations.

Each Enterprise Manager supports:

- 100 managed elements
- 100,000 subscribers
- Up to 8 simultaneous logins
- Up to 20 simultaneous logins or connections to all managed elements

Supported Terminal Types

Enterprise Manager supports the following terminal types for remote access:

- vt100
- vt220
- 4410
- 4425
- at386

Administration Checklists

2

Overview

This chapter provides the tasks that must be performed to administer the INTUITY Enterprise Manager system and the elements to managed by the Enterprise Manager. Initial administration tasks must be performed prior to using the INTUITY Enterprise Manager. Ongoing administration tasks may include some tasks listed under Initial Administration, plus general maintenance and reporting tasks.

Purpose

This checklist provides a description of the required initial administration procedures numbered in the sequence that the items must be completed. The "Procedure" column refers to appropriate procedure title you are completing. A checkmark (✓) the "Completed" column indicates whether the procedure has been completed.

⇒ NOTE:

These tables provides a high-level view of the procedures involved in initial and on-going administration of the INTUITY Enterprise Manager. Refer to the specific procedures noted in the checklists for complete instructions.

⇒ NOTE:

Some of the procedures in this chapter may not apply to your configuration.

Table 2-1. Initial Administration

Task	Task Description	Chapter — Procedure	Completed? (√)
1.	Administer the customer identification.	Chapter 4, "Customer Administration"	
2.	Administer all Intuity AUDIX systems with Enterprise Manager as a trusted server.	"Setting Up a Trusted Server" or Chapter 6, "Integration of AUDIX with Electronic Mail Systems," of <i>INTUITY Messaging Solutions Release 4 Administration</i> , 585-310-564	
3.	Add the INTUITY AUDIX system to the Managed Element table.	Chapter 5, "Managed Element Administration"	
4.	Verify/change the performance configuration values for the managed elements on the Enterprise Manager network.	Chapter 6, "Performance Configuration"	
5.	Schedule data collection for the managed elements.	Chapter 8, "Data Collection"	
6.	Schedule reports for the managed elements. Note: Be sure that data collection is scheduled appropriately for the reports you want to generate.	Chapter 9, "Reports"	

Table 2-2. Adding an INTUITY AUDIX System as a Managed Element

Task	Task Description	Chapter — Procedure	Completed? (√)
1.	Verify the INTUITY AUDIX system has an IP address	N/A	
2.	Administer the INTUITY AUDIX system with Enterprise Manager as a trusted server.	“Setting Up a Trusted Server” or Chapter 6, “Integration of AUDIX with Electronic Mail Systems,” of <i>INTUITY Messaging Solutions Release 4 Administration</i> , 585-310-564	
3.	Add the INTUITY AUDIX system to the Managed Element table.	Chapter 5, “Managed Element Administration”	
4.	Schedule data collection for the managed element	Chapter 8, “Data Collection”	
5.	Schedule reports for the managed element Note: Be sure that data collection is scheduled appropriately for the reports you want to generate.	Chapter 9, “Reports”	

Table 2-3. Scheduling Reports

Task	Task Description	Chapter — Procedure	Completed? (√)
1.	Verify the managed element is administered on the Enterprise Manager network	Chapter 5, "Managed Element Administration"	
2.	Schedule data collection for the data types appropriate for the requested reports	Table 9-1 in Chapter 9, "Reports"	
3.	Schedule the appropriate reports	"Creating Reports" in "Reports"	

Getting Started

3

Overview

This chapter provides procedures for logging in to the Enterprise Manager and verifying the feature options.

Purpose

The purpose of this chapter is to provide log in and feature option verification procedures.

Logging In to the Enterprise Manager

To log in to the INTUITY Enterprise Manager, do the following:

1. Turn on your terminal or monitor, if it is not already on.

2. Enter **tsc**.

The system displays the password prompt.

3. Enter the tsc password.

The system displays the terminal type prompt.

4. Enter one of the following

- **vt100** (for a vt100 terminal)
- **vt220** (for a vt220 terminal)
- **4410** (for Terranova or PROCOM PLUS 4410 emulation)
- **4425** (for a 4425 terminal)
- **at386** (for the MAP console monitor)

⇒ NOTE:

Additional terminal types can be used and may work with not noticeable difference in functionality. However, inconsistency in function keys and/or displays may result when using some terminals or emulators.

The system displays the UNIX system prompt.

5. Enter **Vex** to access the INTUITY Main menu ([Figure 3-1](#)).

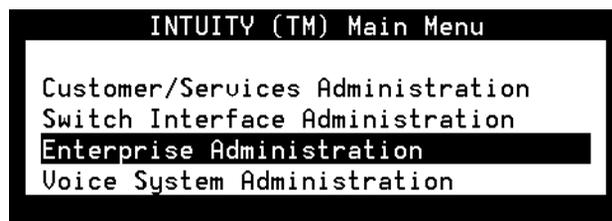


Figure 3-1. INTUITY Main Menu

6. Select

```
> Enterprise Administration
```

The system displays the Enterprise Manager main menu ([Figure 3-2](#)).

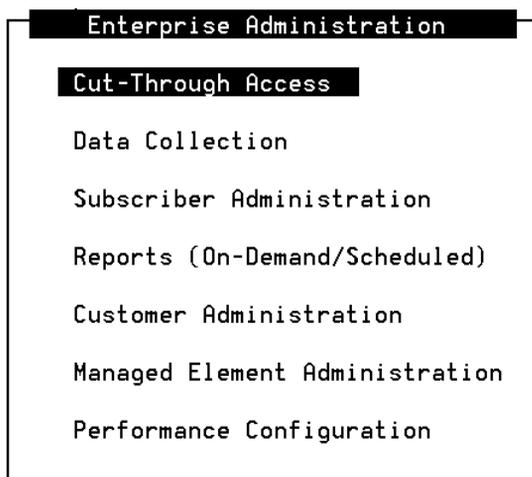


Figure 3-2. Enterprise Manager Main Menu



NOTE:

If this is a new Enterprise Manager (that is, a customer has not been administered on the system yet), the only option available from the Enterprise Manager main menu is Customer Administration. Other options will be available after performing the [“Administering a New Customer ID”](#) procedure in [Chapter 4, “Customer Administration”](#).

See Chapter 1, “Getting Started,” of the *INTUITY Messaging Solutions Release 4 Administration*, 585-310-564, for basic operation information of INTUITY administration windows.

Setting Up a Trusted Server

Complete this procedure to establish the Enterprise Manager as a trusted server for each managed element.

⇒ NOTE:

This procedure should be performed on each managed element prior to any administration.

1. Log in to the managed element
2. Enter **Vex** to access the INTUITY Main menu ([Figure 3-1](#)).
3. Select

```
> AUDIX Administration
```

4. Enter **add trusted_server**

The system displays the Trusted-Server Profile screen ([Figure 3-4](#)).

```

d      Active      Alarms: mWA      Logins: 4
add trusted-server      Page 1 of 1
      TRUSTED-SERVER PROFILE

      Trusted-Server Name: _____
      Password: _____
      IP Address: _____

Service Name: _____

      Access to Cross Domain Delivery? n
      Default Community Number: 1_
      Trusted Server ID:

      Minutes of Inactivity Before Alarm: 0__
      (If field is 0, no Alarm will be generated)

Press [ENTER] to execute or press [CANCEL] to abort
enter command: add trusted-server
    
```

Figure 3-4. Trusted-Server Profile Screen; Defining a Trusted Server to the Lucent INTUITY System

5. Fill out the fields in this screen using the information in [Table 3-1](#).

Table 3-1. Field Definitions: Trusted Server Profile Screen

Field Name	Input
Trusted Server Name	Must be the same as the Trusted Server login on the Enterprise Manager for this managed element. See Chapter 5, "Managed Element Administration" .
Password	Must be the same as the TS Passwd on the Enterprise Manager for this managed element. See Chapter 5, "Managed Element Administration" .
IP Address	The TCP/IP address of the Enterprise Manager.
Service Name	imapi
Access to Cross-Domain Delivery?	y
Default Community Number	1
Trusted Server ID	—
Minutes of Inactivity Before Alarm	0

6. When you finish entering trusted server information, press (F3) **ENTER** to save the information in the system database.

The cursor returns to the command line, and the system displays the message `Command Successfully Completed`.

7. Type **exit** to leave AUDIX Administration.

Setting the IMAPI Password

The IMAPI password is a security password that prevents an unauthorized source from starting an IMAPI session. Unauthorized sources may include a trusted server or trusted-server administrator.

Use the following guidelines when you administer IMAPI passwords:

- Change the password on a regular basis. (Hint: If you set your administrator's password to age automatically, the system prompt that tells you to change your `sa` and `vm` passwords can also remind you to change the IMAPI password.)
- Whenever you change an IMAPI password in AUDIX, you must also change it on all the trusted servers that call into AUDIX. These trusted servers can include e-mail and ELA servers.
- If you do not enter an IMAPI password, the system displays a warning alarm. This alarm remains active until you enter an IMAPI password.

To set or change an IMAPI password:

1. At the main menu, select:

```
>AUDIX Administration
```

2. At the `enter` command: prompt, enter either:

Full Command Version

Short Command Version

change imapi-password

ch im

The system displays the IMAPI-Password screen ([Figure 3-5](#)).

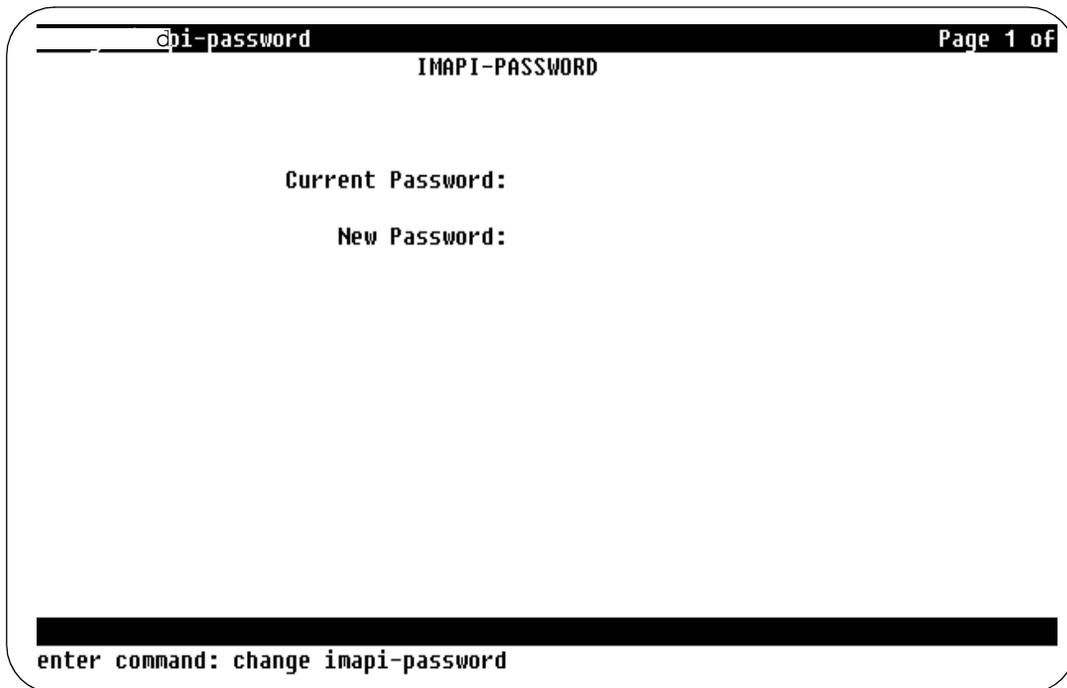


Figure 3-5. IMAPI-Password Screen; Setting/Changing Security Password for Trusted Server Access

3. Fill out the fields in this screen using the information in [Table 3-2](#).

NOTE:

If this is a new system, [Figure 3-5](#) displays a re-enter password field, asking you to confirm the new password.

Table 3-2. Field Definitions: IMAPI-Password Screen

Field Name	Input
Current Password:	The current password.
New Password:	Must be the same as the IMAPI password on the Enterprise Manager for this managed element. See Chapter 5, "Managed Element Administration" .

4. Press (F3) **ENTER** to save the information in the system database.
The cursor returns to the command line, and the system displays the message `Command Successfully Completed`.
5. Change the IMAPI password on all trusted servers that call into AUDIX.
Hint: Use the `list trusted-server` command for a list of trusted servers on your system.
6. Enter an administrative command at the `enter command:` prompt or type **exit** to leave AUDIX Administration.

Setting Up IMAPI Sessions

To set IMAPI sessions for trusted server use:

1. Starting from the main menu, select:

```
>AUDIX Administration
```

2. At the `enter command:` prompt, enter either:

Full Command Version

Short Command Version

change system-parameters imapi-options

ch sy i

The system displays the System-Parameters IMAPI-Options screen ([Figure 3-6](#)).

```

change system-parameters imapi-options                               Page 1 of 1
      SYSTEM-PARAMETERS IMAPI-OPTIONS

NUMBER OF IMAPI SESSIONS

                                Total Sessions Purchased: 32

                                Maximum Simultaneous Sessions: 32
Simultaneous Sessions Available for Trusted Server Access: 6

IMAPI PARAMETERS

                                IMAPI Session Timeout (minutes): 5
Trusted Server Session Timeout (minutes): 5
                                Check New Messages? n
                                Deliver CA Message? n
                                Message Transfer? y

enter command: change system-parameters imapi-options

```

Figure 3-6. System-Parameters IMAPI-Options Screen, Page 1; Setting IMAPI Sessions for Trusted Server Access

3. Verify that the Simulaneous Sessions Available for Trusted Server Access value is greater than 0.
4. If you must change the IMAPI options information, press (F3) **ENTER** to save this information to the system database.

The cursor returns to the command line, and the system displays the message `Command Successfully Completed`.

5. Enter an administrative command at the `enter command:` prompt or type **exit** to leave AUDIX Administration.

Customer Administration

4

Overview

This chapter provides procedures for administering a customer ID on the INTUITY Enterprise Manager.



NOTE:

A customer ID must be administered on the INTUITY Enterprise Manager before any other administration can occur.

Purpose

The purpose of this chapter is provide the procedures for accessing the Customer Administration window and completing the customer ID on the INTUITY Enterprise Manager.

Customer Administration

The Customer Administration screen identifies the customer using this Enterprise Manager and provides contact information for that customer.

Accessing the Customer Administration Window

To access the Customer Administration screen, do the following:

1. Access the Enterprise Manager main menu ([Figure 4-1](#)).

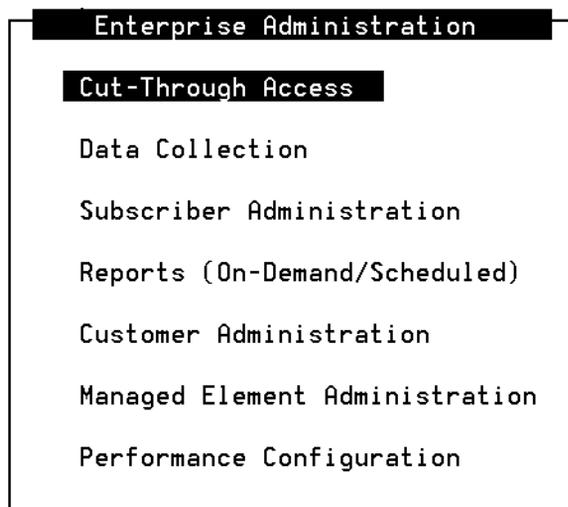


Figure 4-1. Enterprise Manager Main Menu

2. Select

The image shows a screenshot of the "Customer Administration" option in the menu. The text "> Customer Administration" is displayed within a rectangular box.

The Customer Administration screen appears ([Figure 4-2](#)).

⇒ NOTE:

If this is a new Enterprise Manager (that is, a customer has not been administered on the system yet), the only option available from the Enterprise Manager main menu is Customer Administration. Other options will be available after performing the [“Administering a New Customer ID”](#) procedure.

Customer Administration	
Customer ID	lucent-cb
Name	XVC Company
Address	1234 Any Street Anytown, MD 01010
Contact Name	John Smith
Phone	011-614-555-1234
Fax	
E-mail	jsmith@email.com
Customs	
Comments	Contact during the hours of 8 AM and 5 PM EST

Figure 4-2. Customer Administration Window

Administering a New Customer ID

To administer the customer ID, do the following:

1. Access the Customer Administration window using the [“Accessing the Customer Administration Window”](#) procedure.
2. Complete the Customer Administration window using the information in [Table 4-1](#).



NOTE:

Only one customer ID is currently supported in the Enterprise Manager. The Customer ID field is autopopulated by the system in other administration windows.

Table 4-1. Customer Administration Field Descriptions

Field	Description	Field Length
Customer ID	A unique mnemonic identifier for the customer	Display only — up to 14 alphanumeric characters
Name	The name of the customer (for example, company name)	Display only — up to 64 alphanumeric characters
Address	The customer’s address	64 alphanumeric characters
Contact Name	The contact name for the customer; that is, who should be contacted on the customer site; up to four contact names can be specified	64 alphanumeric characters per field
Phone	The telephone number for the customer contact(s); four fields are provided	30 alphanumeric characters per field
Fax	The fax number for the customer contact; four fields are provided	30 digits per field

Continued on next page

Table 4-1. Customer Administration Field Descriptions — Continued

Field	Description	Field Length
E-mail	The e-mail address for the customer contact	30 alphanumeric characters
Customs	Additional information about the Enterprise Manager configuration for this customer	64 alphanumeric characters per field
Comments	Additional information about the customer; for example, this field could be used to identify a secondary contact name and number	64 alphanumeric characters

3. Press **F4** (Add) to save the values.

⇒ NOTE:

The **F4** (Add) only appears if this is a new Enterprise Manager, or the single customer ID has been deleted.

A confirmation window appears informing you that the Customer has been successfully added.

4. Press **F4** (Continue).

Updating the Customer ID

To update the customer ID, do the following:

1. Access the Customer Administration window using the [“Accessing the Customer Administration Window”](#) procedure.
2. Modify the fields in the Customer Administration window using the information in [Table 4-1](#).

⇒ NOTE:

Only one customer ID is currently supported in the Enterprise Manager. The `Customer ID` field can not be modified.

3. Press **F3** (Update) to update the customer ID.

The system provides a confirmation message.

4. Press **ENTER** to continue.

Deleting the Customer ID



CAUTION:

Deleting a customer ID deletes all managed elements that belong to that customer from the Enterprise Manager.

To delete the customer ID, do the following:

1. Access the Customer Administration window using the [“Accessing the Customer Administration Window”](#) procedure.
2. Press **F5** (Delete) to delete the customer ID.
The system provides a confirmation message.
3. Press **ENTER** to continue.

Managed Element Administration

5

Overview

This chapter describes the procedures to administer a managed element on the Enterprise Manager.

Purpose

The purpose of this chapter is to provide procedural and reference information for administering a managed element on the Enterprise Manager.

Managed Element Administration

Managed element administration includes adding, deleting, configuring, and listing information for each managed element owned by a particular customer ID. It defines each of the managed elements for which the Enterprise Manager is responsible. Each managed element must be connected to the Enterprise Manager through a TCP/IP connection, local area network (LAN), or wide area network (WAN). A managed element may be an INTUITY AUDIX Release 4 or an INTUITY Interchange Release 1, or it can be another system that supports telnet session access.

Accessing the Managed Element Administration

To access the Managed Element Administration screen, do the following:

1. Access the Enterprise Manager main menu ([Figure 4-1](#)).
2. Select

```
> Managed Element Administration
```

The Managed Element screen appears ([Figure 5-1](#)).

Managed Element Administration			
Managed Element Name	Customer ID	lucent-cb	Load Category
Type	IP Address	.	Server Version
Trusted Server	TS Passwd		IMAPI Passwd
Admin Login ID	tsc	Admin Passwd	
Prime Time Start	08:00	End 16:00	Time Zone GMT
NIU ID			
Site ID		Local Access Phone Number	
Mailbox ID From	1.	To	
	2.	To	
	3.	To	
	4.	To	
	5.	To	
	6.	To	
	7.	To	
	8.	To	
	9.	To	
	10.	To	
Custom	1.		
	2.		
	3.		
	u		

Figure 5-1. Managed Element Administration

[Table 5-1](#) describes the fields on the Managed Element Administration screen. Press **F2** (Choices) to display a list of available values for some fields.

Table 5-1. Field Descriptions for Managed Element Administration

Field	Description	Valid Values
Managed Element Name	The name of the managed element; this name must be unique within a customer network (for example, intuity12)	up to 10 alphanumeric characters; The entry <ul style="list-style-type: none"> ■ is case sensitive ■ allows hyphens and underscores ■ can start with a number ■ does not allow blank spaces
Customer ID	The mnemonic for the customer as listed in the Customer Administration screen; this field is display only and is autopopulated	—
Load Category	The amount of load (that is, traffic) expected to occur on this managed element	A, B, C, D, E, R See Chapter 6, "Performance Configuration" , for additional information about each of the above load categories. Load Category R has no support for data collection or data provisioning.

Continued on next page

Table 5-1. Field Descriptions for Managed Element Administration — Continued

Field	Description	Valid Values
Type	The type of system being managed	R4.X, Interchange 1.0, or Other If Load Category is A-E, this entry must be Mach 4.0, 4.1 or 4.2. If Load Category is R, this entry must be Interchange 1.0 or Other.
IP Address	The TCP/IP address of this system	—
Server Version	The software release of this managed element; this field is provided for information purposes only	for INTUITY AUDIX: 4.0, 4.1, 4.2 for Interchange: 1.0
Primary Login ID	The login ID to be used for data provisioning	10 alphanumeric entry; must be the IMAPI login
Password1	The password to be used for data provisioning; This field is encrypted and is not displayed on the screen	15 alphanumeric entry; must be the IMAPI password
Password2	The second password to be used for data provisioning; this field is encrypted and is not displayed on the screen	15 alphanumeric entry
Secondary Login ID	The secondary login ID for data provisioning and data collection	Must be tsc
Secondary Password	The password for the secondary login ID to be used for data collection; this field is encrypted and is not displayed on the screen	15 alphanumeric entry; must be the tsc password
Prime Time Start	The prime time start for this managed element	hh:mm using a 24-hour clock (for example, 08:00 is 8 a.m.)

Continued on next page

Table 5-1. Field Descriptions for Managed Element Administration — *Continued*

Field	Description	Valid Values
End	The prime time end for this managed element	hh:mm using a 24-hour clock (for example, 17:00 is 5 p.m.)
Time Zone	The time zone in which this managed element exists (for example, EST for Eastern standard time)	<p>Press F2 (Choices) to select an available time zone.</p> <p>If the time zone you require is not listed in Choices, use GMT (Greenwich mean time) and calculate the Prime Time Start and End values based on where you are located in relation to GMT.</p>
NIU ID	The DEFINITY identifier; provided for information only	—
Site ID	<p>The site identifier to be used by the data collection module</p> <p>For example, if two machines exist in Atlanta and two machines exist in Detroit for an Enterprise Manager, use the site identifiers of atlanta and detriot, respectively. The data collection module allows you to collect data from a particular site identifier.</p>	—
Local Access Phone Number	The telephone number used to access this managed element	Alphanumeric entry up to 30 digits

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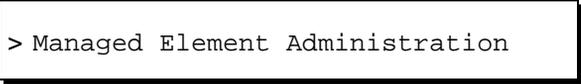
Table 5-1. Field Descriptions for Managed Element Administration — Continued

Field	Description	Valid Values
Mailbox ID From (1-10)	The starting range for the mailbox ID for this managed element; Up to 10 start ranges can be entered for a single managed element	numeric entry of 3 to 24 digits. Note: INTUITY Release 4 only supports 10-digit mailbox IDs.
To: (1-10)	The ending range for the mailbox ID for this managed element; Up to 10 end ranges can be entered for a single managed element	numeric entry of 3 to 24 digits. Note: INTUITY Release 4 only supports 10-digit mailbox IDs.
Custom 1 Custom 2 Custom 3 Custom 4	Additional information about this managed element	alphanumeric entry

Adding a Managed Element

Use the following procedure to add a managed element to the Enterprise Manager.

1. From the Enterprise Manager menu, select



```
> Managed Element Administration
```

The Managed Element screen appears ([Figure 5-1](#)).

2. Enter the name of the managed element.

The system displays

```
No record for ME Name - <managed element name>  
New Record - Do you want to proceed?
```

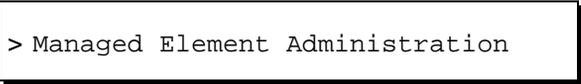
```
Press <Continue> to confirm  
or <Cancel> to abort
```

3. Press **F3** (Continue).
4. Continue completing the fields on the Managed Element Administration screen using the information in [Table 5-1](#).
5. Press **F4** (Add) to add the new managed element to the Enterprise Manager.

Updating an Existing Managed Element

Use the following procedure to update information for an existing managed element on the Enterprise Manager.

1. From the Enterprise Manager menu, select



```
> Managed Element Administration
```

The Managed Element screen appears ([Figure 5-1](#)).

2. Enter the name of the managed element you want to update, or press **F2** (Choices) to select a managed element from the available list.

The system displays the information for the managed element you entered or selected.

3. Make the necessary modifications to the Managed Element Administration screen for the selected managed element using the information in [Table 5-1](#).

4. Press **F3** (Update).

The system displays

```
Managed Element modified sucessfully
```

```
Press <Enter> to continue.
```

5. Press **ENTER**.

The system displays a blank Managed Element Administration screen.

6. Select another managed element to update or press **F6** (Cancel) to return to the Enterprise Manager menu.

Deleting a Managed Element

Use the following procedure to delete a managed element from the Enterprise Manager.

1. From the Enterprise Manager menu, select

```
> Managed Element Administration
```

The Managed Element screen appears ([Figure 5-1](#)).

2. Enter the name of the managed element you want to delete, or press **F2** (Choices) to select a managed element from the available list.

The system displays the information for the managed element you entered or selected.

3. Press **F5** (Delete).

The system displays a confirmation screen, asking you to confirm that you want to delete this managed element from the Enterprise Manager.

4. Press **ENTER** to confirm.

The system displays a blank Managed Element Administration screen.

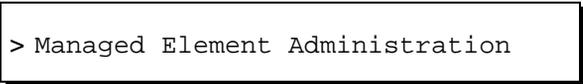
5. Select another managed element to delete or press **F6** (Cancel) to return to the Enterprise Manager menu.

Performing an Audit on the Managed Element Table

An audit compares the information for all the managed elements on the Enterprise Manager to the **/etc/hosts** file. If an entry is missing from the **/etc/hosts** file, yet it exists in the Enterprise Manager database, the discrepancy is displayed.

Use the following procedure to perform an audit on the Enterprise Manager.

1. From the Enterprise Manager menu, select



```
> Managed Element Administration
```

The Managed Element screen appears ([Figure 5-1](#)).

2. Press **F7** (Audit).

The system displays

```
Audit is done  
<results of the audit>
```

Press <Enter> to continue.

The *<results of the audit>* are immediately displayed on the screen. The *<results of the audit>* is either No discrepancies found, or a description of the discrepancy found.

3. Press **ENTER**.

The system displays a Managed Element Administration window.

4. Press **F6** (Cancel) to return to the Enterprise Manager menu.

Performance Configuration

6

Overview

This chapter describes the configuration of the performance monitor for the Enterprise Manager.

Purpose

The purpose of this chapter is to provide the procedures to configure the performance monitor of the Enterprise Manager. The performance monitor provides a throttling mechanism that prevents a managed element from performance degradation when the Enterprise Manager requests data from the managed element.

Performance Configuration

The performance configuration file manages the load of the following processes on a managed element:

- Data collection
- Data provisioning
- Cut-through access sessions

The performance configuration file also manages the number of remote telnet sessions allowable to the Enterprise Manager.

You can avoid performance problems by scheduling tasks performed by data collection, data provisioning and cut-through access processes during non-prime hours. The performance configuration file consults the prime time hours for the managed element, as specified in the Managed Element Administration window (see [Chapter 5, "Managed Element Administration"](#)).

Accessing Performance Configuration

To access the Performance Configuration screen,

1. Start at the INTUITY Administration menu and select

```
> Enterprise Administration
```

```
> Performance Configuration
```

The Performance Configuration menu appears ([Figure 6-1](#)).

```
Performance Configuration
Load Category Definition
System Load
```

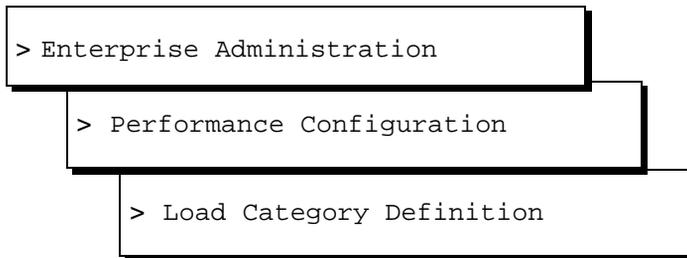
Figure 6-1. Performance Configuration Menu

Load Category Definition

The Load Category Definition screen specifies the type of load a managed element will experience based on the performance configuration processes. A load category is assigned to a managed element when that managed element is added to the Enterprise Manager configuration (see [Chapter 5, "Managed Element Administration"](#)).

To access the Load Category Definition window, do the following:

1. Start at the INTUITY Administration menu and select



The Load Category Definition window appears ([Figure 6-2](#)).

Load Category Definition		
Load Category	Prime Time	Non-Prime Time
Max Collection Processes		
Max Provisioning Processes		
Max Cut-Through Access		

Figure 6-2. Load Category Definition Screen

2. Enter a load category, or press **F2** (Choices) to select a load category.

[Table 6-1](#) defines the load categories.

Table 6-1. Load Category Definitions

Load Category	Definition
A	Light load
B	Medium load
C	Heavy load
D	Very heavy load
E	Extremely heavy load
R	Indicates the managed element is an Interchange 1.0 or other machine
	 NOTE: You can not run data collection or data provisioning sessions on these systems.

The system populates the remaining fields on the Load Category Definition window based on the default or current configuration file. These values define the maximum number of processes that can be scheduled for data collection, data provisioning, and cut-through access during prime-time (peak hours) and non-prime time.

Use the up arrow on your keyboard to move back through the fields in the Load Category window.

[Table 6-2](#) lists the default values for the performance configuration file.

Table 6-2. Default Performance Configuration File

Task	Load Category											
	A		B		C		D		E		R	
	PT	NPT	PT	NPT	PT	NPT	PT	NPT	PT	NPT	PT	NPT
Data collection	4	4	3	4	2	4	2	4	1	4	0	0
Data provisioning	20	32	20	32	18	28	16	24	14	20	0	0
Cut-through access	10	20	7	12	5	10	2	5	2	5	10	20

3. Modify the values for the prime time and nonprime time hours for each of the tasks. Use **(TAB)** to move between fields.

⇒ NOTE:

The nonprime time value for each load category must always be greater than or equal to the prime time value. Also, the load category values for non-prime time and prime time cannot exceed the system load values (see [“System Load”](#)).

4. Check to determine if system load has been exceeded.
5. Press **(F3)** (Save) to save any modifications made to the performance configuration file, or press **(F6)** (Cancel) to exit the screen without saving any changes made.
6. Press **(F6)** to return to the Performance Configuration menu ([Figure 6-1](#)).

Windowing

Ten minutes prior to the start of prime time for a managed element windowing capabilities go into effect. Windowing, as it relates to the performance configuration file, means that if a scheduled or on-demand request for data collection, data provisioning, or cut-through access can not be completed prior to prime time start and that request will exceed the load category specified for the managed element, the request is not allowed. For example, if the load category for a managed element is C, only 2 data collection processes can occur at the same time during prime time hours. If two data collection processes are currently running, and an on-demand request is made prior to the start of prime time and that request will not complete before the start of prime-time, this request is not allowed.

System Load

The System Load window displays the system-wide performance configuration values for the Enterprise Manager. These values are not administrable and are provided for viewing purposes only.

System Load	
Max Data Collection Processes	150
Max Data Provisioning Processes	150
Max Cut-Through Accesses	20
Max Remote Telnet Sessions to EM	8

Figure 6-3. System Load Window

[Table 6-3](#) lists the System Load default values.

 **NOTE:**
These values are not administrable.

Table 6-3. System Load Values

Task	Value
Max Data Collection Processes	150
Max Data Provisioning Processes	150
Max Cut-Through Accesses	20
Max Remote Telnet Sessions to EM	8

Cut-Through Access



Overview

This chapter describes the procedures to access INTUITY AUDIX Release 4, INTUITY Interchange, or other systems on a TCP/IP network from the INTUITY Enterprise Manager.



NOTE:

The Other category of systems includes those systems that support telnet access over a TCP/IP network.

Purpose

The purpose of this chapter is provide the information necessary to access the appropriate systems through the TCP/IP network.

Cut-Through Access

The Cut-Through Access capability allows you to log into an INTUITY AUDIX system, an INTUITY Interchange, or another machine from the Enterprise Manager to perform local administration procedures. These procedures can include viewing administration logs or changing system parameters.



NOTE:

You must provide a login and password for the system to which you want access.

Using Cut-Through Access

To initiate a cut-through access session, do the following:

1. Start at the INTUITY Administration menu and select

```
> Enterprise Administration
```

```
> Cut-Through Access
```

The Cut-Through Access screen ([Figure 7-1](#)) is displayed.



NOTE:

The Customer ID field is display only.

Cut-Through Access	
Customer ID	lucent
Managed Element Name	
I.P. Address	. . .
Mailbox ID	

Figure 7-1. Cut-Through Access Screen

2. Enter one of the following:
 - a. Enter the name of the managed element in the `Managed Element Name` field or press `F2` (Choices) to select from a list of available systems.

Upon selecting a managed element name, the `I.P. Address` field is populated automatically with the IP address for the selected managed element.
 - b. Enter an IP address for a managed element or press `F2` (Choices) to select from a list of available addresses. The IP address is the TCP/IP network address for the managed element system.

Upon selecting an IP address, the `Managed Element Name` field is populated automatically with the name of the selected IP address.
 - c. Enter a `Mailbox ID`. This is a 3- to 24-digit number. If this number is not unique to a particular system, the Enterprise Manager provides a list of systems from which to choose.
3. Press `F3` (Continue) to initiate the access to the selected system.

The system provides a login prompt to the appropriate system. If an error occurs, refer to [“Troubles Accessing a Managed Element”](#) below.
4. Enter the login for the system.
5. Enter the password for the system.
6. Press `Ctrl` `D` to exit the session and return to the Cut-Through Access window.

Troubles Accessing a Managed Element

If a problem occurs while trying to access a managed element, one of the following conditions may exist:

- The managed element is unavailable or the network is down. To solve this problem:
 1. Verify the network connectivity.
 2. Verify this managed element supports TCP/IP telnet sessions.
 3. Identify the managed element is active.
 4. If this does not solve the problem, contact the next level of support.
- A message indicates that the request can not be scheduled because Enterprise Manager has reached its system limit or maximum limit for cut-through access processes. Retry the request later.

Data Collection

8

Overview

This chapter describes data collection and data clean up. Data collection and data clean up includes information on both scheduled and on-demand collections.

Purpose

The purpose of this chapter is to provide the procedures for performing data collection and clean up, managing poll logs, and setting a data collection retry strategy on the INTUITY Enterprise Manager.

Data Collection

The data collection module assembles the raw data from each of the managed elements. The data collection module then formats the data retrieved to be archived in a local database on the Enterprise Manager. Data collection can be scheduled or on-demand.

The data collected can be accessed using the *sqlplus* utility of the ORACLE database or by generating a report for the data collected.

⇒ NOTE:

Some reports use more than a single data type. See [Chapter 9, "Reports"](#), for additional information.

[Figure 8-1](#) shows the Data Collection menu.

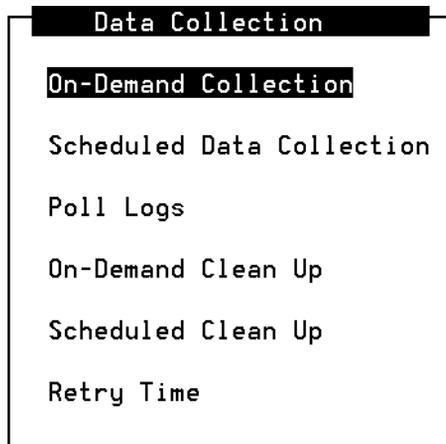
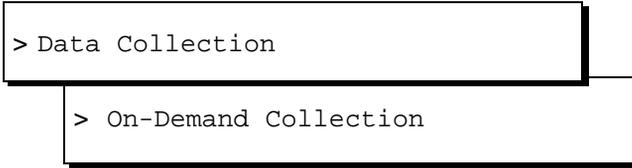


Figure 8-1. Data Collection Menu

On-Demand Data Collection

To initiate on-demand data collection, do the following:

1. Start at the Enterprise Administration menu and select



The On-Demand Data Collection window appears ([Figure 8-2](#)).

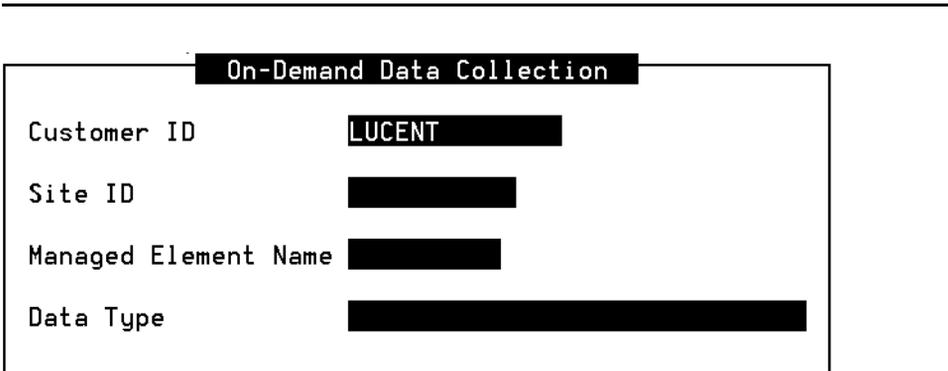


Figure 8-2. On-Demand Data Collection

2. Complete the fields using the information in [Table 8-1](#).

Table 8-1. On-Demand Data Collection Field Descriptions

Field	Description	Valid Value
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field
Site ID	The site ID for the customer	<p>ALL to collect data from all sites, or a unique site ID for each customer location; press F2 (Choices) to display a list of valid site IDs.</p> <p>For example, if two machines exist in Atlanta and two machines exist in Detroit for an Enterprise Manager, use the site identifiers of Atlanta and Detroit, respectively. The data collection module allows you to collect data from a particular site identifier. If you specify a site ID and the Managed Element Name is ALL, only the managed elements with that site ID are considered for data collection.</p> <p>If you want to collect data from a particular managed element and do not know the site ID, enter ALL.</p>
Managed Element Name	The name of the managed element	<p>ALL to collect data from all managed elements for this customer, or a unique managed element for each customer. Press F2 (Choices) to display a list of valid managed elements.</p>
Data Type	The type of data you want to collect	See Table 8-2 for a list of valid data types. Press F2 (Choices) to display list of valid data types.

If data collection is on-demand, the date is stored in **nmod<tablename>**.

3. Press **F3** (Continue) to initiate the on-demand data collection.

The system displays a status message, informing you that data collection was successfully started.

4. Press **ENTER** to continue.
5. To check the status of the poll, see [“Querying Poll Logs”](#) later in this chapter. If the exit status is `Success`, see [Chapter 9, “Reports”](#), to generate a report displaying the collected data.

⇒ NOTE:

A data type may not have a corresponding report.

⇒ NOTE:

After the data collection request has been completed, an ORACLE error message is returned to the console. Ignore this message. Press **F8** (Refresh) to clear the screen.

6. Press **F6** (Cancel) to return to the Data Collection menu.

Data Types

[Table 8-2](#) shows the data types for on-demand and scheduled data collection. If data is retained, multiple instances of that data type is kept in the table space schema until a data clean up routine wipes it out. If data is not retained, only one instance of that data is kept. When a new collection is performed, the existing data is replaced in the table schema for that managed element by the new data.

Table 8-2. Data Types

Data Type	Table space schema		Data Retained (Y/N)?
	On Demand	Scheduled	
Activity_Log	nmodgetlog	—	Y
Administration_Log	nmodgetsys	nmgetsys	Y
Active_Alarm	nmodgetaalar	nmgetaalar	N
Attendant_List	nmodgetatt	nmgetatt	N
Classes_of_Service	nmodgetcos	nmgetcos	N
Community_Measurement	nmodgetcomm	nmgetcomm	N
Fragment_Data**	nmodgetfrag	—	N
Grade_of_Service**	—	nmgetvports	Y
Load_Measurement_Lists	nmodgetload	nmgetload	Y
Local_Subscriber_Data	nmodgetsub	nmgetsub	N
Local_Extension_List	nmodgetdir	nmgetdir	Y

Table 8-2. Data Types — Continued

Data Type	Table space schema		Data Retained (Y/N)?
	On Demand	Scheduled	
Machine_List**	nmodgetmlist	nmgetmlist	N
Maintenance_Log	nmodgetmaint	nmgetmaint	Y
Network_Load	nmodgetnet	nmgetnet	Y
Performance_Data	nmodgetperfcpu nmodgetperfhist nmodgetperpeg nmodgetperfstat nmodgetperftod nmodgetperfvexid	nmgetperfcpu nmgetperfhist nmgetperpeg nmgetperfstat nmgetperftod nmgetperfvexid	Y
Remote_Message_Measurements	nmodgetrem	nmgetrem (for daily and weekly data collection) nmgetremmon(for monthly data collection)	Y
Remote_Text_Address_List	nmodgettlist	nmgettlist	N
Resolved_Alarm_Data	nmodgetralar	nmgetralar	Y
Special_Feature_Measurements	nmodgetspfe	nmgetspfea	Y
Subscriber_List	nmodgetlist	nmgetlist	N
Subscriber_Measurements	nmodgettraf	nmgettraf (for daily and weekly data collection) nmgettrafmon (for monthly data collection)	Y
System_Attendant_Data	nmodgetsysat	nmgetsysat	N
System_Parameters_Activity_Log	nmodgetalogp	nmgetalogp	Y
System_Parameters_Features	nmodgetsysfe	nmgetsysfe	N
System_Parameter_Limits	nmodgetlimit	nmgetlimit	N

Table 8-2. Data Types — Continued

Data Type	Table space schema		Data Retained (Y/N)?
	On Demand	Scheduled	
System_Switch_Connection	nmodgetswitc	nmgetswitc	N
Traffic Measurement	nmodgetfeat	nmgetfeat (for weekly and monthly data collection) nmgetfeathr (for hourly data collection)	Y
Trusted_Server_List	nmodgetserve	nmgetserv	N

** See note below.

⇒ NOTE:

For Fragment_Data, Grade_of_Service, and Machine_List data types, the **.rhosts** file on the Enterprise Manager should have the following entries:

```
Enterprise_Manager_Machine_Name    root
Enterprise_Manager_Machine_Name    tsc
Enterprise_Manager_Machine_Name    emmgr
```

where *Enterprise_Manager_Machine_Name* is the name of the Enterprise Manager. Do not use the IP address for the Enterprise Manager.

These entries must also be present in the **/etc/hosts** file on the managed element. If this entry is not present, the data collection activity fails with "Data acquisition failure" as the reason.

Scheduled Data Collection

The Scheduled Data Collection window allows you to add a new scheduled entry, update the schedule for any existing entry, or delete an entry that is currently scheduled.

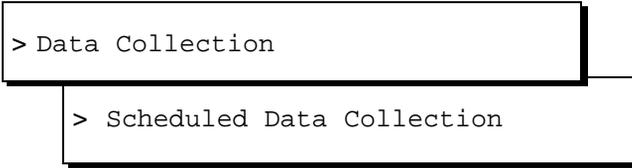
Adding a Scheduled Data Collection Request

To schedule data collection, do the following:

⇒ NOTE:

A data collection should be scheduled at least 5 minutes after the current system time.

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Scheduled Data Collection window appears ([Figure 8-3](#)).

Scheduled Data Collection	
Customer ID	lucent-cb
Site ID	ALL
Managed Element Name	
Data Type	
Frequency	Time: Hours Min
Day of Month	Day of Week

Figure 8-3. Scheduled Data Collection Window

2. Complete the fields using the information in [Table 8-3](#).

Table 8-3. Scheduled Data Collection Field Descriptions

Field	Description	Valid Value
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field
Site ID	The site ID for the customer	<p>ALL to collect data from all sites, or a unique site ID for each customer location; press F2 (Choices) to display a list of valid site IDs.</p> <p>For example, if two machines exist in Atlanta and two machines exist in Detroit for an Enterprise Manager, use the site identifiers of Atlanta and Detroit, respectively. The data collection module allows you to collect data from a particular site identifier. If you specify a site ID and the Managed Element Name is ALL, only the managed elements with that site ID are considered for data collection.</p> <p>If you want to collect data from a particular managed element and do not know the Site ID, enter ALL in this field.</p>
Managed Element Name	The name of the managed element	ALL to collect data from all managed elements for this customer, or a unique managed element for each system. Press F2 (Choices) for a list of valid managed elements.
Data Type	The type of data you want to collect	Press F2 (Choices) for a list of valid data types.

Table 8-3. Scheduled Data Collection Field Descriptions

Field	Description	Valid Value
Frequency*	The period for which you want to perform the poll	<ul style="list-style-type: none"> ■ Hourly — If selected, only the Mins field is available ■ Daily — If selected, only the Hours and Mins field is available ■ Weekly — If selected, Day of Month is unavailable ■ Monthly — If selected, Day of Week is unavailable
Time: Hours	The hour on which you want to schedule the data collection to occur	00 through 23, using a 24-hour clock, where 00 is midnight See Table 8-4 .
Time: Mins	The minute on which you want to schedule the data collection to occur	00 through 59 See Table 8-4 .
Day of Month	The day of the month you want the scheduled data collection to occur; use this field if you want schedule data collection for a particular day of the month (for example, the 15th of every month)	01 through 31 See Table 8-4 .
Day of Week	The day of the week you want the scheduled data collection to occur	A day of the week (Sunday through Saturday); press (F2) (Choices) to select from a list of days

* If data collection is scheduled Daily, Weekly, or Monthly, the data is stored in nm<tablename>. However, the results of monthly data collection for Traffic_Measurement and Remote_Message_Measurement data types are stored in nm<tablename>mon. For example, the data from scheduled monthly data collection of Traffic_Measurement is stored in nmgettrafmon. If data collection is on-demand, the data is stored in NMOD<tablename>. See [Appendix A, "Database Schema"](#), for additional information.

3. Press **(F4)** (Add) to add the scheduled data collection to the current list of entries.

The system displays a message indicating success of the scheduled data collection.

4. Press **(ENTER)** to continue.

You are returned to the Scheduled Data Collection window ([Figure 8-3](#)).



NOTE:

After the data collection request has been completed, an ORACLE error message is returned to the console. Ignore this message. Press **F8** (Refresh) to clear the screen.

5. Press **F6** (Cancel) to return to the Data Collection menu.

Frequency Values

[Table 8-4](#) shows the allowable values for scheduling data collection based on the frequency specified. An “X” in a particular box indicates you may enter data in that field when that frequency is selected.

Table 8-4. Scheduled Data Collection Frequency Values

Frequency	Hour	Min	Day of Month	Day of Week
Hourly		X		
Daily	X	X		
Weekly	X	X		X
Monthly	X	X	X	

Updating a Scheduled Data Collection Request

To update a scheduled data collection entry, do the following:

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select

```
> Data Collection
```

```
> Scheduled Data Collection
```

The Scheduled Data Collection window appears ([Figure 8-3](#)).

2. Press **F3** (Update).

The system displays a list of currently scheduled data collection requests.

3. Select an entry.

The system displays the Scheduled Data Collection window, with the values for the selected entry displayed.

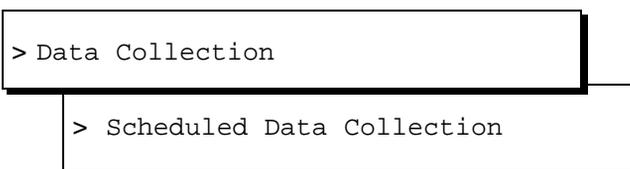
4. Modify the fields using the information in [Table 8-3](#).

5. Press **ENTER** to continue.
You are returned to the Scheduled Data Collection window ([Figure 8-3](#)).
6. Press **F6** (Cancel) to return to the Data Collection menu.

Deleting a Scheduled Data Collection Request

To delete a scheduled data collection entry, do the following:

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Scheduled Data Collection window appears ([Figure 8-3](#)).

2. Press **F5** (Delete).
The system displays a list of currently scheduled data collection requests.
3. Select a scheduled entry.
The system asks you to confirm or cancel the delete request.
4. Press **ENTER** to continue, or **F6** (Cancel) to cancel the request.
You are returned to the Scheduled Data Collection window ([Figure 8-3](#)).
5. Press **F6** (Cancel) to return to the Data Collection menu.

Using sqlplus to View

Use the sqlplus utility to view data in the table schemas that has already been collected.

1. At the system prompt, enter **sqlplus enterprise/manager**

⇒ NOTE:
The SQL prompt is displayed (SQL>).

⇒ NOTE:
Enter **set pause on** to stop the display from scrolling.

2. Enter **select * from <table_name>**
where <table_name> is the name of the table listed in [Table 8-2](#).
3. Enter **exit** to exit the utility.

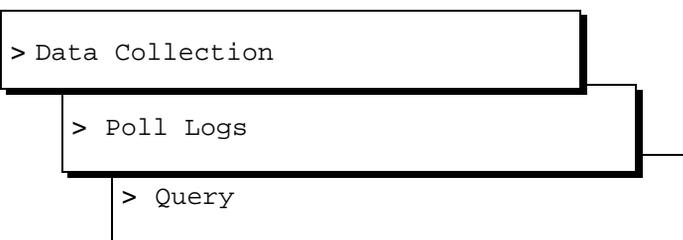
Poll Logs

The poll logs provide status information for the data collection module. Each time a poll is performed for a managed element, an entry is made in Enterprise Manager database. This log includes information about the poll such as the customer ID, managed element name, the type of poll and data, the date and time the poll started, and the poll status. These logs can be viewed and deleted by the administrator.

Querying Poll Logs

To querying poll logs, do the following

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Query Poll Logs window appears ([Figure 8-4](#)), with default values displayed.

Query Poll Logs	
Customer ID	lucent-cb
Managed Element Name	ALL
Data Type	ALL
Poll Type	Both
Result	ALL
Start Date	01/28/1998
Start Time	00:00

Figure 8-4. Query Poll Logs Window

2. Complete the fields using the information in [Table 8-5](#) or press (F7) (View All) to view all poll log information in the database.

Table 8-5. Query Poll Log Field Descriptions

Field	Description	Valid Value	Default
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field	—
Managed Element Name	The name of the managed element	ALL to get poll log information on data collection done for all managed elements, or a unique managed element for each customer; press F2 (Choices) for a list of valid managed elements.	ALL
Data Type	The type of data for which you want to view poll logs	Press F2 (Choices) to displays list of valid data types.	ALL
Poll Type	The type of poll performed	<ul style="list-style-type: none"> ■ Interactive ■ Scheduled ■ Both 	Both

Continued on next page

Table 8-5. Query Poll Log Field Descriptions — *Continued*

Field	Description	Valid Value	Default
Result	The result of the poll	<ul style="list-style-type: none"> ■ ALL ■ Success — The poll request completed successfully. ■ Failure — The poll request failed. ■ Postponed — The managed element is not available, network is down, or the performance monitor has delayed this poll. 	ALL
Start Date	The start date of the poll log	mm/dd/yyyy, for example, 10/01/1997	Current system date
Start Time	The start time of the poll log	<p>hh:mm using a 24-hour clock, where 00:00 is midnight</p> <p>If Start Date is 10/30/1997 and the Start Time is 00:00, poll log information is displayed for all polls from 10/30/1997.</p> <p>If Start Date is 10/30/1997 and Start Time is 23:59, poll log information is displayed for all polls beginning from 23:59 onward (or 10/31/1997).</p>	00:00

3. Press **F3** (Continue) to view the poll log specified.

⇒ NOTE:

If you press **F3** (Continue) without changing any of the default values, the system displays all poll log entries for the current day.

Figure 8-5 shows an example of the poll information displayed .

Data Collection Poll Logs				
CUSTOMER-ID	ME-NAME	POLL-TYPE	DATA-TYPE	
START-TIME		CURRENT-STATUS	CHANGE-TIME	RESULT
=====				
system_verific	map40a	Interactive	Local_Subscriber_Data	
23-OCT-97 05:45:14		Finished	23-OCT-97 08:51:41	Success
system_verific	map40a	Interactive	Classes_Of_Service	
23-OCT-97 05:37:42		Finished	23-OCT-97 05:38:14	Success
=====				
<#=====>				

Figure 8-5. Example of Data Collection Poll Log information

4. Use **F2** (NextPage) and **F3** (PrevPage) to move through the window.



NOTE:

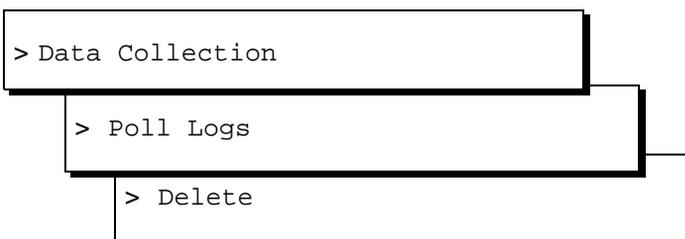
The NextPage and PrevPage keys only appear when the poll log query contains more than one page.

5. Press **F7** (Print) to print the poll log information displayed, or press **F6** (Cancel) to return to the Query Poll Logs window.

Deleting Poll Logs

To delete poll logs, do the following

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Delete Poll Logs window appears ([Figure 8-6](#)), with default values displayed.

Delete Poll Logs	
Customer ID	lucent
Delete Till date	09/10/1997
Till Time	08:00

Figure 8-6. Delete Poll Logs Window

2. Complete the fields using the information in [Table 8-6](#).

Table 8-6. Delete Poll Logs Field Descriptions

Field	Description	Valid Value	Default
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field	—
Delete Till Date	Delete all poll logs up to and including the date specified. For example, if you want to delete all poll logs accumulated up to October 30, enter 10/30/1997.	mm/dd/yyyy (for example, 10/30/1997)	Current system date
Till Time	Delete all polls logged up to and including this time; for example, if you want to delete all poll logs accumulated up to midnight of the specified date, enter 23:59	hh:mm, using a 24-hour clock, where 00:00 is midnight	Current system time

3. Press **F3** (Continue) to delete the specified poll logs, or press **F7** (Del-All) to delete all current poll logs.

The system displays a confirmation window, asking you to press **F3** to confirm the specified deletion, or press **F6** to cancel the action.

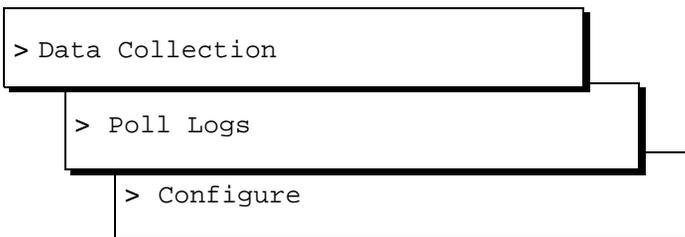
4. Press **F3** to continue, or press **F6** to cancel.

If you selected **F3**, a success or failure message of the deletion is displayed. If you selected to cancel the action, you are returned to the Poll Logs menu.

Configuring Poll Log Table

To configure the poll log table, do the following

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Configure Poll Log Table window appears ([Figure 8-7](#)).

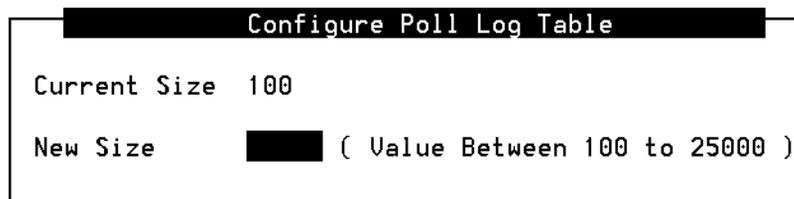


Figure 8-7. Configure Poll Log Table

The current size of the poll log table is displayed in [Figure 8-7](#).

2. Enter a new size, a value between 100 to 25000.

This value depends on the number of scheduled and/or interactive data collections performed per day. Keep the poll log data in the table only for as many days as needed. For example, if you generate 90 interactive data collections and 10 scheduled data collections per day, and you want to keep the data for 10 days, the size of poll log table could be 1000 (10 X 100 = 1000).

⇒ NOTE:

If you specify a value that is less than the current size, you may lose data. The system provides a warning message, asking you to confirm.

3. Press **F3** (Save).

The system displays a message indicating the success or failure of the update operation on the size of the poll log table.

4. Press **ENTER** to continue.

You are returned to the Configure Poll Log Table ([Figure 8-7](#)).

5. Press **F6** (Cancel) twice to return to the Data Collection menu.

Data Clean Up

The administrator must clean up the data collected in the Enterprise Manager database periodically to prevent disk space problems. The administrator can schedule data clean up to be performed on an hourly, daily, weekly, or monthly basis, or the administrator can perform data clean up immediately (on-demand). The administrator can also specify the following parameters for clean up:

- Site ID — Delete data for a particular site or all sites
- Managed element name — Delete data for a particular managed element, or all managed elements
- Data type — Delete data collected for a particular data type or all data types
- Date — Delete data collected prior to the date specified; data is deleted from both nm and nmod tables

Data clean up removes all data that exists in the entire table space schema specified. This data includes that from scheduled and on-demand data collection. The files available in **/EMdcm/data** for file transfer (FTP) purposes are cleaned up daily at 00:00 (midnight). All files which are older than two days are cleaned up. System files created in **/EMdcm/tmp**, **/EMdcm/log**, and **/EMdcm/error** are also cleaned up daily at 00:00.

Guidelines for Data Clean Up

Based on the projected disk space usage, data clean up depends on the number of data collection requests that are scheduled on the Enterprise Manager. The number and type of requests made determines the amount of data that is collected. As administrator, you must establish a schedule for the following activities:

- Schedule data collection requests
- Generate reports using the data collected
- Perform data clean up

Data from nmod<tablename> is cleaned up daily at 00:00 (midnight).

Reports Cleanup

On Demand Report Files

All on-demand reports are stored in **/EMrpts/reports/<customer-id>/ondemand** directory. All files present in this directory that are older than 1 day are deleted as part of a cron job scheduled every day at 01:00 (1 a.m.). For example, if the date on the Enterprise Manager is 02/12/1998, then all files created on or before 02/10/1998 are deleted at 01:00.

Scheduled Report Files

All scheduled reports are stored in the `/EMrpts/reports/<customer-id>/scheduled` directory. All files in this directory that are older than 65 days are deleted as part of a cron job scheduled every day at 01:00 (1 a.m.). For example, if the date on the Enterprise Manager is 02/12/1998, then all files created on or before 12/07/1997 are deleted at 01:00.

Data Collection Cleanup

Data File Cleanup

All on-demand and scheduled data collection data files are stored in the `/EMdcm/data` directory. All files older in this directory that are older than 1 day are deleted as part of a cron job scheduled every day at 00:00 (midnight). For example, if the date on the Enterprise Manager is 02/12/1998, then at 00:00, all files created on or before 02/10/1998 are deleted.

NOTE:

If these data files are needed for further processing, you must use FTP to transfer these files within 24 hours after the files are created.

Oracle Database Cleanup

- On-demand data collection

All on-demand collection data are stored in Oracle **NMODget<data-type>** database tables. These tables are cleaned up as part of a cron job scheduled every day at 00:00 (midnight). For example, if the date on the Enterprise Manager is 02/12/1998, all the on-demand tables containing data collected for 02/11/1998 would be cleaned up at midnight.

- Scheduled data collection

All scheduled data collection data are stored in Oracle **NMget<data-type>** database tables. These tables are cleaned up as part of scheduled and on-demand cleanup modules of data collection.

— Scheduled data cleanup — Scheduled using the Scheduled Data Cleanup window [Figure 8-3](#).

For example, if [Figure 8-3](#) has the following field values:

```
Site = ALL
Managed Element Name= ALL
Data Type = ALL
Frequency = Daily
Time Hours=10
Min =10
```

then all data tables for all data types for all managed elements are deleted every day at 10:10. This data includes scheduled and on-demand collection results.

For example, if [Figure 8-3](#) has the following field values:

```
Site = ALL
Managed Element Name= abc
Data Type = Maintenance_Log
Frequency = Monthly
Time Hours=10
Min =10
```

then all data from NMGETMAINT and NMODGETMAINT table for the managed element abc are deleted on 10th day of every Month at 10:10 Hrs.

- On-demand data cleanup — Performed using the On-Demand Data Cleanup window [Figure 8-8](#).

For example, if [Figure 8-8](#) has following field values:

```
Site = ALL
Managed Element Name= ALL
Data Type = ALL
Till Date = 02/01/1998
```

then all scheduled and on-demand data tables for all data types collected on or before 02/01/1998 for all managed elements are deleted. This data includes scheduled and on-demand collection results.

For example, if [Figure 8-8](#) has following field values

```
Site = ALL
Managed Element Name= abc
Data Type = Maintenance_Log
Till Date = 02/10/1998
```

then all data from NMGETMAINT and NMODGETMAINT tables for managed element abc which was collected on or before 02/01/1998 are deleted.

Example for Scheduled Data Collection with Report and Data Cleanup

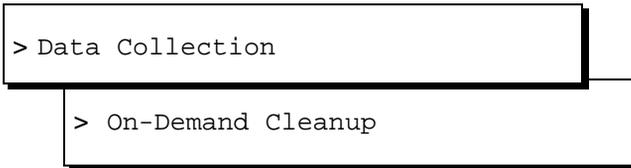
Assume that data collection is scheduled daily for GETREM (Remote Message Measurement Data) at 10:00. If a daily report is scheduled for this managed element at 11:00, the output of the report is available as a file in the ***/EMrpts/reports/<customer-id>/scheduled*** directory.

After the report generation, if the data in the Oracle Database for GETREM is no longer required, schedule a data clean up at 12:00. The tables NMGETREM and NMODGETREM would be cleaned up at 12:00 for the specified managed elements.

On-Demand Data Clean Up

To start on-demand data clean up,

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The On-Demand Data Cleanup window appears ([Figure 8-8](#)).

On-Demand Data Cleanup	
Customer ID	lucent-cb
Site ID	ALL
Managed Element Name	
Data Type	
Till Date	01/28/1998

Figure 8-8. On-Demand Data Cleanup

2. Complete the fields using the information in [Table 8-7](#).

Table 8-7. On-Demand Data Cleanup Field Descriptions

Field	Description	Valid Value
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field
Site ID	The site ID for the customer for which the data is to be cleaned up	ALL to clean data from all sites, or a unique site ID for each customer location. Press F2 (Choices) to display a list of valid site IDs. If you want to collect data from a particular managed element and do not know the site ID, enter ALL.
Managed Element Name	The name of the managed element for which the data cleanup is to be done	ALL to clean data from all managed elements for this customer, or a unique managed element for each customer; press F2 (Choices) for a list of valid managed elements
Data Type	The type of data to be cleaned up	ALL or press F2 (Choices) to select from a list of valid data types. If you select ALL, you will clean up data for all data contained in scheduled and on-demand table space schema.
Till Date	Clean or remove all data collected up to and prior to this date	mm/dd/yyyy, for example, 10/30/1997

3. Press **F3** (Continue) to initiate the data clean up.
4. Press **ENTER** to continue.

You are returned to the On-Demand Data Cleanup window ([Figure 8-8](#)).

5. Press **F6** (Cancel) to return to the Data Collection menu.

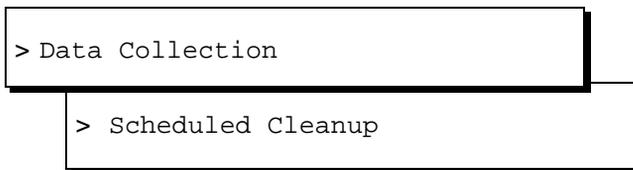
Scheduled Data Clean Up

The Scheduled Data Cleanup window allows you to add a new scheduled entry, update the schedule for any existing entry, or delete an entry that is currently scheduled. The Scheduled Data Cleanup cleans up or removes all data that exists for a specified data type or all data types up to the time that the clean up is scheduled.

Adding a Scheduled Data Cleanup Request

To schedule data clean-up, do the following:

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Scheduled Data Cleanup window appears ([Figure 8-9](#)).

Scheduled Data Cleanup	
Customer ID	lucent-cb
Site ID	ALL
Managed Element Name	
Data Type	
Frequency	Time: Hours <input type="checkbox"/> Min <input type="checkbox"/>
Day of Month <input type="checkbox"/>	Day of Week <input type="checkbox"/>

Figure 8-9. Scheduled Data Cleanup

2. Complete the fields using the information in [Table 8-8](#).

Table 8-8. Scheduled Data Cleanup Field Descriptions

Field	Description	Valid Value
Customer ID	The customer ID as detailed in the Customer Administration window (see Chapter 4, "Customer Administration"); only one customer ID is specified for each Enterprise Manager	A display only field
Site ID	The site ID for the customer	ALL to clean data from all sites, or a unique site ID for each customer location. Press (F2) (Choices) to display a list of valid site IDs. If you want to collect data from a particular managed element and do not know the site ID, enter ALL.
Managed Element Name	The name of the managed element from which data is to be cleaned up	ALL to clean data from all managed elements for this customer, or a unique managed element for each customer. Press (F2) (Choices) to display a list of valid managed elements.
Data Type	The type of data you want to clean	ALL or press (F2) (Choices) to select from a list of valid data types. If you select ALL, you will clean up data for all data contained in scheduled and on-demand table space schema.
Frequency	The frequency (how often) you want to automatically clean up the database.	<ul style="list-style-type: none"> ■ Hourly — If selected, only the Mins field is available ■ Daily — If selected, only the Hours and Mins field is available ■ Weekly — If selected, Day of Month is unavailable ■ Monthly — If selected, Day of Week is unavailable
Time: Hours	The hour you want the data cleanup to occur	00 through 23, using a 24-hour clock, where 00 is midnight
Time: Mins	The minute you want the data cleanup to occur	00 through 59
Day of Month	The day of the month you want the scheduled data cleanup to occur; use this field if you want schedule the clean up for a particular day of the month (for example, the 15th of every month)	01 through 31
Day of Week	The day of the week you want the clean up to occur	A day of the week (Sunday through Saturday); press (F2) (Choices) to display a list of the days of the week

3. Press **F4** (Add) to schedule the data clean up.

The system displays a message indicating the success of the scheduled clean up.

4. Press **ENTER** to continue.

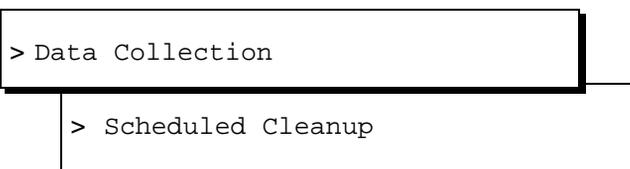
You are returned to the Scheduled Data Cleanup window ([Figure 8-9](#)).

5. Press **F6** (Cancel) to return to the Data Collection menu.

Updating a Scheduled Data Cleanup Request

To update a scheduled data cleanup entry, do the following:

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Scheduled Data Cleanup window appears ([Figure 8-9](#)).

2. Press **F3** (Update).

The system displays a list of currently scheduled data cleanup requests.

3. Select a scheduled entry.

The system displays the Scheduled Data Cleanup window, with the values for the selected entry displayed.

4. Modify the fields using the information in [Table 8-8](#).

5. Press **ENTER** to continue.

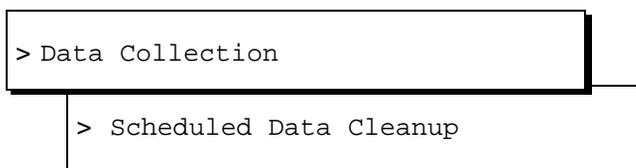
You are returned to the Scheduled Data Cleanup window ([Figure 8-9](#)).

6. Press **F6** (Cancel) to return to the Data Collection menu.

Deleting a Scheduled Data Cleanup Request

To delete a scheduled data cleanup entry, do the following:

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Scheduled Data Cleanup window appears ([Figure 8-9](#)).

2. Press **F5** (Delete).

The system displays a list of currently scheduled data cleanup requests.

3. Select an scheduled entry.

The system asks you to confirm or cancel the delete request.

4. Press **[ENTER]** to continue, or **[F6]** (Cancel) to cancel the request.

You are returned to the Scheduled Data Cleanup window ([Figure 8-9](#)).

5. Press **[F6]** (Cancel) to return to the Data Collection menu.

Retry Time

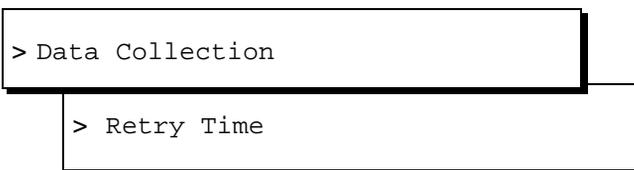
The Retry Time window allows you to specify the time after which the data collection process would try again to access a managed element to collect data. This retry time would be applicable if the link to the managed element is not working, or the managed element is unavailable (for example, is down) at the start of data collection. A single retry is attempted for the data collection poll.

NOTE:

The retry time applies only to scheduled data collection.

To select a retry time, do the following

1. Start at the Enterprise Administration menu ([Figure 4-1](#)) and select



The Retry Time window appears ([Figure 8-10](#)).

Retry Time		
	Current Values	
Retry Hourly (5-15 mins)	0	<input type="checkbox"/>
Retry Daily (10-50 mins)	0	<input type="checkbox"/>
Retry Weekly (1-2 days)	0	<input type="checkbox"/>
Retry Monthly (1-2 days)	0	<input type="checkbox"/>

Figure 8-10. Retry Time Window

2. Complete the fields using the information in [Table 8-9](#).



NOTE:

Entering 0 (zero) in a retry time field indicates no retry strategy for that field.

Table 8-9. Retry Time Field Descriptions

Field	Description	Valid Value	Default
Retry Hourly (5-15 mins)	Specifies a retry time for hourly polls	A range of 5 to 15 minutes, or 0 (zero)	5
Retry Daily (10-50 mins)	Specifies a retry time for daily polls	A range of 10 to 50 minutes, or 0 (zero)	10
Retry Weekly (1-2 days)	Specifies a retry time for weekly polls	A range of 1 to 2 days, or 0 (zero)	1
Retry Monthly (1-2 days)	Specifies a retry time for monthly polls	A range of 1 to 2 days, or 0 (zero)	1

3. Press **F3** (Save) to save the parameters specified.
4. Press **F6** (Cancel) to return to the Data Collection menu.

Data Collection Troubleshooting

If a problem occurs during on-demand or scheduled data collection, the result of the failure appears in the poll log. Refer to [Table 8-10](#) for the reported message, the probable cause, and the corrective action that should be taken to collect data successfully.

Table 8-10. Data Collection Errors and Corrective Actions

Message Reported	Cause(s)	Corrective Action
System loaded – cannot start data collection	Too many processes running on the system	<ol style="list-style-type: none"> 1. Check the poll log for data collections for the managed element. If the number of data collections is equal to the maximum number specified in the performance configuration table of that managed element, try the data collection after one of the polls has finished. 2. Check the Maintenance Log for the resource type=DCPROC and event ID=DCFK001. If any alarms exist perform the following: <ol style="list-style-type: none"> a. Enter /etc/conf/bin/idtune -g NPROC b. Note the values in the output. If this value is less than 500, enter /etc/conf/bin/idtune -g NPROC c. Change the value to 500. d. Reboot the system e. If the problem persists, escalate to the next level of support.
	Too many processes for the specified managed element	Check the poll log for data collections for the managed element. If the number of data collections is equal to the maximum number specified in the performance configuration table of that managed element, try the data collection after one of the polls has finished.
Data acquisition failure	Connection between the Enterprise Manager and the managed element is down	Restart data collection
	Server process on the managed element was killed	

Table 8-10. Data Collection Errors and Corrective Actions — *Continued*

Message Reported	Cause(s)	Corrective Action
Remote login failure	Secondary password on managed element is wrong	Set the correct secondary password for the tsc login. Refer to Chapter 5, "Managed Element Administration".
	Managed element does not have an entry in the /etc/hosts file	Perform an <code>audix</code> on the managed element. See Chapter 5, "Managed Element Administration" .
	All instances of the AKSrv process are utilized on the managed element	Initiate a data collection after an instance of the AKSrv process is available
	AUDIX is not started on the managed element	Enter <code>/vs/bin/start_vs</code> to start the voice system
Machine or network not available	The managed element is down	Bring up (or restart) the managed element
	The network is down	Check network connectivity
Data format failure	Data format does not match the table schemas described in the Enterprise Manager	Verify that the managed element type is MACH 4.0, MACH 4.1, or MACH 4.2. See Chapter 5, "Managed Element Administration" .
Table lock failure	ORACLE internal failure	Use <code>dbshut</code> and <code>dbstart</code> to shutdown and restart the ORACLE database.
Disk full	The particular table is full	Initiate a data cleanup. Refer to "Data Clean Up" .
Oracle internal error	ORACLE internal failure	Use <code>dbshut</code> and <code>dbstart</code> to shutdown and restart the ORACLE database.
System Error: File/FIFO creation error	/EMdcm filesystem is full	Clean up files in: /EMdcm/tmp /EMdcm/data /EMdcm/log /EMdcm/error
No data found	No data exists on the managed element for the specified parameters	

Reports

9

Overview

This chapter provides the information and procedures needed to generate and schedule reports on the INTUITY Enterprise Manager.

Purpose

The purpose of this chapter is to provide complete procedures to create and schedule reports, as well as descriptions of each of the report outputs.

Report Types

The Reports menu provides access to all system reports for the Enterprise Manager. There are two types of reports:

- On-demand — This type of report is produced for a specified interval, for example, for the past 3 days. Some reports are associated with data collection and allow you to collect data just prior to generating the report.
- Scheduled — This type of report is produced at a specified time. Scheduled reports can be produced daily or monthly based on the report being scheduled. For example, the Admin Log report is scheduled daily and the Class of Service report is scheduled monthly. You may specify particular hours to create the report, or select a particular day of the month. If you produce a scheduled report, data collection prior to producing the report is not performed automatically. See [Chapter 8, “Data Collection”](#), for additional information on scheduling data collection.

NOTE:

The data types *must* be scheduled for collection prior to generating a corresponding report. If the data types are not scheduled before the report, the report most likely will be blank. Scheduled data collection should be performed at least 15 minutes ahead of report generation. For example, if an Error report is to be generated at 14:00, data collection should be completed before 13:45.

[Table 9-1](#) lists the data types and database table schema that are used to generate the reports contained in this chapter. The Frequency column indicates the frequency of the scheduled report.

Table 9-1. Report Mapping to Data Types

Report	Frequency of Scheduled Report	Data Type for Scheduled Data Collection	Frequency of Scheduled Data Collection	Table Space Schema For :	
				Scheduled Data Collection	On-Demand Report with Collect Data Now? as y
Activity Log Report	N/A	—	—	—	nmodgetlog
Admin Log Report	Daily	Administration_Log	Daily	nmgetsys	nmodgetsys
Alarm Log Report	Daily	Active_Alarm Resolved_Alarm_ Data	Daily	nmgetalar nmgetrlar	nmodgetalar nmodgetrlar
Auto Attendant Information Report	Monthly	System_Attendant_ Data	Monthly	nmgetsysat	nmodgetsysat
COS Report	Monthly	Class_of_Service	Monthly	nmgetcos	nmodgetcos
Error Report	Daily	Maintenance_Log		nmgetmaint	nmodgetmaint
Fragment Report	N/A	—	—	—	nmodgetfrag
Managed Element Report	N/A	—	—	—	—
Monthly Systems Summary Report	Monthly	<ul style="list-style-type: none"> ■ Traffic Measurement ■ Network Load ■ Load Measurements List ■ Performance Data ■ Remote Message Measurements 	Daily for all data types	nmgetfeat nmgetnet nmgetload nmgetperf* nmgetrem	—
Network Load Data Report	Daily	Network Load	Daily	nmgetnet	nmodgetnet
Remote Machines Report	Monthly	Machine List	Monthly	nmgetmlist	nmodgetmlist

Continued on next page

Table 9-1. Report Mapping to Data Types — Continued

Report	Frequency of Scheduled Report	Data Type for Scheduled Data Collection	Frequency of Scheduled Data Collection	Table Space Schema For :	
				Scheduled Data Collection	On-Demand Report with Collect Data Now? as y
Remote Message Measurement Data	Daily	Remote Message Measurements	Daily	nmgetrem	nmodgetrem
Special Feature Measurement Report	Daily	Special Features Measurements	Daily	nmgetspfea	nmodgetspfea
Subscriber Information Report	Daily	Local Subscriber Data	Daily	nmgetsub	nmodgetsub
Subscriber Data Report	Monthly	Subscriber Measurements	Monthly	nmgettrafmon	—
			Daily	—	nmgettraf nmodgettraf
System Parameters Report	Monthly	System Parameters Features	Monthly	nmgetsysfe	nmodgetsysfe
		System Parameters Limits	Monthly	nmgetlimit	nmodgetlimit
Trusted Server Report	Monthly	Trusted Server List	Monthly	nmgetserve	nmodgetserve

*nmgetperf = nmgetperfhist, nmgetperfpeg, nmgetperfstat, nmgetperftod, nmgetperfvexid

Table 9-2. Report Output Data for Scheduled and On-Demand Reports

Report Name	Type of Scheduled Report	On-Demand Report with Collect Data Now = Y	On-Demand Report with Collect Data Now = n
Activity Log Report	—	5 days of activity	—
Admin Log Report	Daily (All logs created on system date minus 1)	System data minus 1; collects data from 00:00 (midnight) to current date and time of the managed element	All logs after date and time specified
Alarm Log Report			
<ul style="list-style-type: none"> ■ Active 	Daily (All active alarms)	All active alarms from a managed element	All active alarms after date and time specified
<ul style="list-style-type: none"> ■ Resolved 	Daily (All resolved alarms)	All resolved alarms from the system date minus 1; collects resolved alarms from 00:00 (midnight) to current date and time of the managed element	All resolved alarms after date and time specified
Auto Attendant Information Report	Monthly (data from database)	Current managed element data	—
COS Report	Monthly (data from database)	Current managed element data	—
Error Report	Daily (system date minus 1)	System data minus 1; collects data from 00:00 (midnight) to current date and time of the managed element	All logs from Start Date and Time until the End Date
Fragment Report	—	Current managed element data	—

Continued on next page

Table 9-2. Report Output Data for Scheduled and On-Demand Reports — Continued

Report Name	Type of Scheduled Report	On-Demand Report with Collect Data Now = Y	On-Demand Report with Collect Data Now = n
Managed Element Report	—	Managed element list from database	—
Monthly Systems Summary Report	Montly (system month minus 1)	—	—
Network Load Data Report	Daily (system date minus 1)	System date minus 1; collects data from 00:00 (midnight) to 23:59	All data from Start Date to End Date
Remote Machines Report	Monthly (data from database)	Current data from managed element	—
Remote Message Measurement Data	Daily (system data minus 1)	System date minus 1; collects data from 00:00 (midnight) to 23:59	All data from Start Date to End Date
Special Feature Measurement Report	Daily (system data minus 1)	System date minus 1; collects data from 00:00 (midnight) to 23:59	All data from Start Date to End Date
Subscriber Information Report	Daily (data from database)	Current data from managed element	—
Subscriber Data Report	Montly (system month minus 1)	System date minus 1; collects data from 00:00 (midnight) to 23:59	All data from Start Date to End Date
System Parameters Report	Monthly (data from database)	Current data from managed element	—
Trusted Server Report	Monthly (data from database)	Current data from managed element	—

Using the Reports Menu

The following sections detail how to access the reports menu and how to view, create, or delete a report.

Accessing the Reports Menu

To access the Reports menu, do the following:

1. Start at the INTUITY Administration menu and select:

> Enterprise Manager Administration

> Reports (On-Demand/Scheduled)

The Reports menu is displayed ([Figure 9-1](#)).

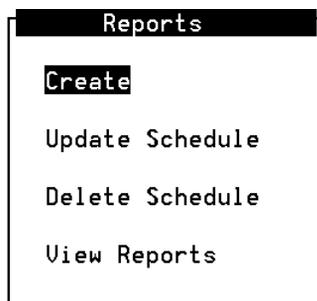


Figure 9-1. Reports Menu

2. Select an action and proceed to the appropriate sections below.

Creating Reports

The following sections detail information on creating reports.

Guidelines for Creating Reports

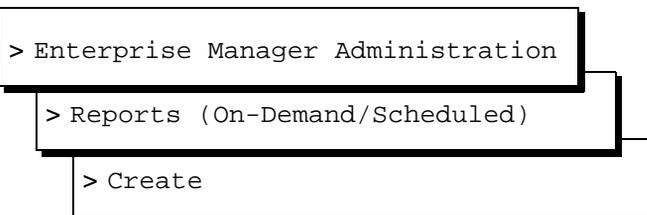
The following guidelines should be observed when creating a scheduled or on-demand report:

- Do *not* schedule a report to be generated during the backup hours of the managed element.
- Make sure that the data required for the report has been collected. Refer to [Table 9-1](#) for information on the data types associated with a report.

Procedure

To create a report, do the following:

1. Start at the INTUITY Administration menu and select:



The Create Reports menu appears ([Figure 9-2](#)).

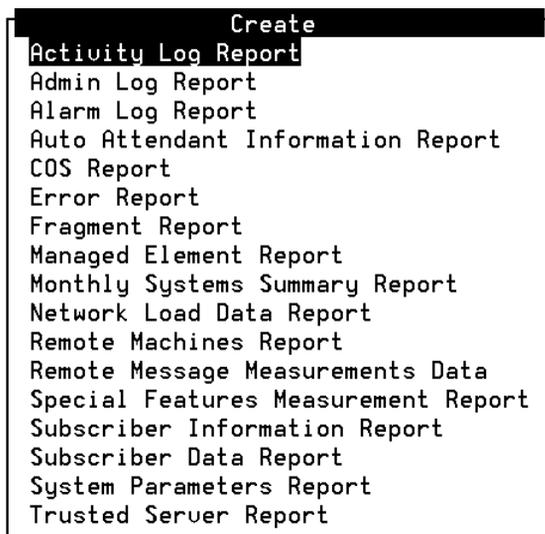


Figure 9-2. Create Reports Menu

2. Select a report from the menu.
3. Enter the specification information as detailed in this chapter for each of the reports later.
4. Press **F3** (Continue) to produce the on-demand report or to schedule the report.

If you select an on-demand report the results of the request are displayed on the screen. If you select a scheduled report, the results of the request are displayed in a standard output file. This file can be viewed later using the View Reports menu.

⇒ NOTE:

If you choose to y in the Collect Data now? field for the on-demand report, it may take some time to display the report to the screen.

Updating Scheduled Reports

To update the scheduled reports, do the following:

1. Start at the INTUITY Administration menu and select:

```
> Enterprise Manager Administration
```

```
> Reports (On-Demand/Scheduled)
```

```
> Update Schedule
```

A list of scheduled reports appears.

2. Select a report.
3. Update the values of the desired fields.
4. Press **F3** (Continue) to update the scheduled report.

Deleting Scheduled Reports

To delete a scheduled reports, do the following:

1. Start at the INTUITY Administration menu and select:

```
> Enterprise Manager Administration
```

```
> Reports (On-Demand/Scheduled)
```

```
> Delete Schedule
```

A list of scheduled reports appears.

2. Select a report.
3. Press **ENTER** to delete the scheduled report.

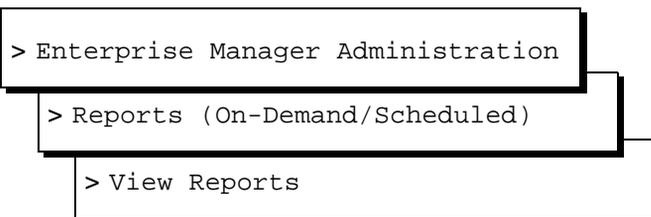
A confirmation window appears asking you to confirm the deletion request.

4. Press **F3** (Continue) to confirm the deletion, or **F6** (Cancel) to exit without deleting.

Viewing Reports

To view reports, do the following:

1. Start at the INTUITY Administration menu and select:



The View Reports menu appears ([Figure 9-2](#)).

2. Select a report.

A selection window appears ([Figure 9-3](#)). The title of the window depends on the report selected. The `Customer ID` field is autopopulated.

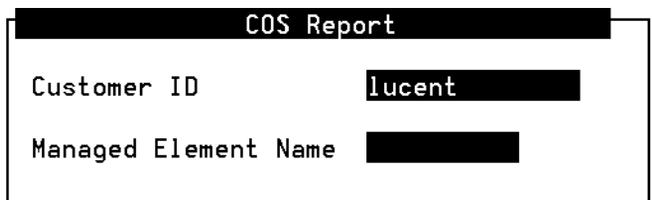


Figure 9-3. View Report Selection Window

3. Enter a managed element name or ALL. Press **F2** (Choices) to select a managed element from a list of valid choices.

⇒ NOTE:

If the report was created with Managed Element Name as ALL, ALL should be used in the View Report Selection window (for example, [Figure 9-3](#)).

4. Press **F3** (Continue) to view a list of generated reports. The list is ordered with the most recently generated report at the top.
5. Select the report to view. Refer to the relevant sections in this chapter for information on the report format.

Generating an Report using SQL*ReportWriter

To generate a report using SQL*ReportWriter, do the following:



NOTE:

This procedure requires knowledge of SQL and SQL*ReportWriter.

1. From the UNIX system prompt, enter **sqlrep enterprise/manager**

A screen similar to the following appears.

```

Action  Query  Group  Field  Summary  Text  Report  Parameter  Help
-----  -
SQL*ReportWriter -----
    
```

Perform global operations on reports.

Report Name:

<Replace>

2. Select

```

> Action
> New
    
```

3. Enter the name of the report you want to generate, and press **F10**.

4. Select

```

> Query
    
```

5. Enter the Query name and press **ENTER**.
6. Type the SQL query to retrieve the data for the report.
7. Press **F10** to save the query.

The system displays the query using the field names in the database.

8. Change any of the labels you want to make the information more descriptive.
9. Press **F10** to save the new labels.

10. From the Main Menu, select

```
> Action
```

```
> Execute
```

The Parameter Values window appears.

11. Specify the Destination Type as either screen to view the information directly on the screen, or file to specify the file name in which to save the data.
12. Press **(ENTER)** when you have reached the last parameter field.
13. Select

```
>Action
```

```
> Quit
```

14. To view the report file, enter **vi /tmp/<filename>**

Activity Log Report

The Activity Log report is a list of the INTUITY AUDIX user actions. It is helpful in diagnosing subscriber-reported problems because it shows the activities a user performed before the problem occurred. The user activities logged include:

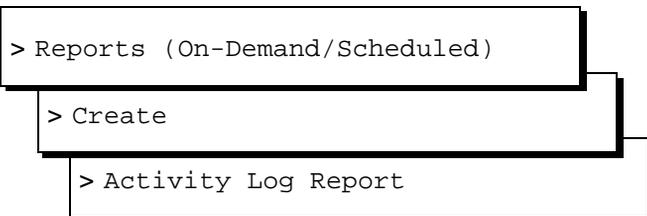
- Message receipt
- Subscriber login
- Message status change from new to old
- Message waiting indicator (MWI) turned on or off

This report can only be produced on-demand. Events are listed in chronological order (oldest first) beginning with the specified start date and time. You may retrieve activity information for the previous 15 days.

Creating the Activity Log Report

To create the Activity Log report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Activity Log Report selection menu appears ([Figure 9-4](#)).

Activity Log Report			
Customer ID	lucent-cb	Managed Element Name	
Report Type	On-Demand		
Extension Number		Start Date	12/31/1997
		Time	Hours 00 Min 00
Activity Type		End Date	01/05/1998
		Time	Hours 14 Min 45

Figure 9-4. Activity Log Report Selection Window

2. Complete the fields in this window using the information in [Table 9-3](#).

Table 9-3. Field Definitions for Activity Log Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements.	—
Report Type	The type of report you want to create	On-Demand	On-Demand
Extension Number	The user extension for which you want to create the report	3- to 10-digit extension Note: This field requires an entry.	—
Activity Type	The type of activity for which you want to generate a report	A 5- to 9-character string indicating the activity; these include all or one of the following: <ul style="list-style-type: none"> ■ log-in ■ canceled ■ mwi-on ■ log-off ■ status ■ mwi-off ■ received ■ reset ■ scheduled ■ synced (synchronized a message in a mailbox) 	—

Continued on next page

Table 9-3. Field Definitions for Activity Log Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
Start Date	The start date for the report	mm/dd/yyyy	Current date minus 5 days (for example, if the current date is 12/10/1997, the default Start Date is 12/05/1997)
Time: Hours Min	The start time for the report	hh and mm, using a 24-hour clock	00:00 (that is, 12 a.m.)
End Date	The end date for the report	mm/dd/yyyy	Current date
Time: Hours Min	The end time for the report	hh and mm, using a 24-hour clock	23:59

3. Press **F3** (Continue) to execute the on-demand report.

The system displays the following message:

```
Data will be collected now
to give a report.
```

```
It may take some time
```

```
Press <CONTINUE> to confirm
```

```
or <CANCEL> to abort
```

4. Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

See [Figure 9-5](#) for an example of the Activity Log report.

Activity Log Report			
Customer Id: lucent-cb		Date: 01/26/98 Time: 15:10:41	
Date	Time	Activity	Description
ME Name : puaudix			
Subscriber Name : Marker Arnaz		Extension : 497	
01/16/98	01:43	received	priority VM message from 434message counts: new=3, unopened=0, old=1
01/16/98	09:55	log-in	message counts: new=3, unopened=0, old=1
01/16/98	09:58	status	changed from new to oldfor message received 01/16/98 at 01:43
01/16/98	09:58	status	changed from new to oldfor message received 01/15/98 at 18:39
01/16/98	09:58	status	changed from new to oldfor message received 01/15/98 at 19:46

Figure 9-5. Activity Log Report Example

Interpreting the Activity Log Report

[Table 9-4](#) provides descriptions for each of the fields in the Activity Log report ([Figure 9-5](#)). The top of the report contains the customer ID and the date and time the report was generated. Use the [F2](#) (NextPage) and [F3](#) (PrevPage) keys to move through the report.

Table 9-4. Field Definitions for Activity Log Report

Field	Description
ME Name	This field contains the name of the managed element for which the data is displayed.
Subscriber Name	This field contains the name of the subscriber associated with the extension number requested.
Subscriber Extension	This field contains the user extension entered in the selection criteria window.
Date	This column contains the date the activity was logged, in the form <i>mm/dd/yyyy</i> .
Time	This column contains the time the activity was logged, in the form <i>hh:mm</i> .
Activity	This column contains the activity identifier for each log entry. See Table 9-3 for a listing of the valid activity types.
Description	This column contains textual descriptions of the activity log entry.

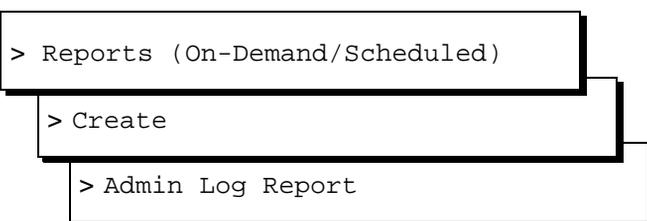
Administration Log Report

The Administration (Admin) Log report records informational messages about system activities. These messages may include a log about a successful nightly backup, or it may alert the administrator about low disk space. These events include problems that need to be corrected.

Creating the Administration Log Report

To create the Administration Log report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Admin Log Report selection menu appears ([Figure 9-6](#)).

Admin Log Report			
Customer ID	lucent	Managed Element Name	
Report Type	On-Demand	Collect Data Now ?	<input type="checkbox"/>
Application ID		Event ID	
Date (mm/dd/yyyy)	02/12/1998	Time Hours	00 Min 00
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	Min

Figure 9-6. Admin Log Report Selection Window

2. Complete the fields in this window using the information in [Table 9-5](#).

Table 9-5. Field Definitions for Admin Log Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	—
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, the Time: Hours and Min fields directly below this field on the screen are disabled. If n is selected, data is collected at the specified date and time.	no

Continued on next page

**Table 9-5. Field Definitions for Admin Log Report Selection
Criteria Window — *Continued***

Field	Description	Valid Input	Default
Application ID	The component of the system that generated the message	blank, or one of the following: VM, VP, NW, SW, MT, or MB. Press F2 (Choices) to display a list of valid application IDs.	—
Event ID	The unique identifier of a log entry under a particular Application ID	1 to 14 alphanumeric characters; field is case-sensitive. A blank field displays all event types. Refer to <i>Lucent INTUITY Messaging Solutions Release 4 Alarm and Log Messages</i> , 585-310-566, for a list of valid administration event IDs.	—
Date (mm/dd/yy)	The date for which you want to obtain messages from the Administration Log	mm/dd/yyyy (for example, 10/30/1997)	Current date
Time: Hours Min	The time in hours and minutes from which you want to list messages from the Administration Log	hh, using a 24-hour clock where 00 is midnight mm, using a value 00 to 59	00:00

Continued on next page

**Table 9-5. Field Definitions for Admin Log Report Selection
Criteria Window — *Continued***

Field	Description	Valid Input	Default
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) at which you want to generate this report	Daily	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock, where 00 is midnight mm, using a value 00 to 59	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as y, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
```

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as n, the system displays the following message:

```
Data will be collected from
the active database to give a report.
It may take some time

Press <CONTINUE> to confirm
```

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

<report name>
successfully scheduled
Press <Enter> to continue.

Press **[ENTER]** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#). [Figure 9-7](#) displays an example Admin Log report.

```

bop19      EMR1.0      Alarms: m      Line: 1 / 1976      Page 1 / 152
Admin Log Report
Customer Id: lucent-cb      Date: 01/06/98      Time: 16:31:17

```

Date	Time	App	Event ID	Cnt	Message
ME Name : drmid11					
01/05/98	03:14	MT	BKRST001	1	Backup process has been completed successfully
01/06/98	03:14	MT	BKRST001	1	Backup process has been completed successfully
01/06/98	12:53	SM	SM201	1	subscriber 31060 switch id 15 not found

Figure 9-7. Admin Log Report

Interpreting the Admin Log Report

[Table 9-6](#) provides descriptions for each of the fields in the Admin Log report. The entries in the Admin Log are sorted by ME (managed element) name. Use the **[F2]** (NextPage) and **[F3]** (PrevPage) keys to move through the report. The top of each page of the report contains the customer ID and the date and time the report was generated.

Table 9-6. Field Definitions for Administration Log Report

Field	Description
ME Name	The name of the managed element
Date	The dates the administration alarms were logged
Time	The times on the given dates the administration alarm was logged
App	<p>The 2-character application code for the administration log entry:</p> <ul style="list-style-type: none"> ■ VM = Messaging (voice mail, fax mail, and e-mail messages) ■ VP = Voice platform ■ NW = Digital networking ■ SW = Switch interface ■ MT = Maintenance ■ MB = Remote maintenance board
Event ID	The code for the administration event type. See <i>Lucent INTUITY Messaging Solutions Release 4 Alarm and Log Messages</i> , 585-310-566, for a list of event types.
CNT	The number of times the associated message was sent to the administrator's log within 1 minute
Message	A textual description of the administration event. One or two lines are used for each event.

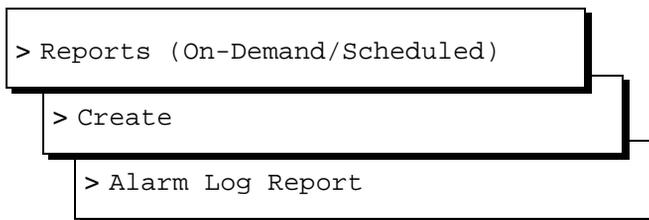
Alarm Log Report

The Alarm Log report lists the active or resolved Lucent INTUITY AUDIX system alarms.

Creating the Alarm Log Report

To create the Alarm Log report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Alarm Log Report Selection window appears ([Figure 9-8](#)).

Alarm Log Report			
Customer ID	lucent-pune	Managed Element Name	
Report Type	On-Demand	Collect Data Now?	<input type="checkbox"/>
Resource Type		Location	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Alarm Level Major	<input checked="" type="checkbox"/> Minor <input checked="" type="checkbox"/> Warning <input checked="" type="checkbox"/>	Alarm Code	
Alarm Type	active	Application ID	
Date (mm/dd/yyyy)	02/04/1998	Time Hours	00 Min 00
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	<input type="checkbox"/> Min <input type="checkbox"/>

Figure 9-8. Alarm Log Report Selection Window

2. Complete the fields in this window using the information in [Table 9-7](#).

Table 9-7. Field Definitions for Alarm Log Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, the Time: Hours and Min fields directly below this field on the screen are disabled. If n is selected, data is collected starting from the date and time specified.	n

Continued on next page

**Table 9-7. Field Definitions for Alarm Log Report Selection
Criteria Window — *Continued***

Field	Description	Valid Input	Default
Resource Type	The type of the alarmed resource	<p>For a list of valid resource types, see <i>INTUITY Messaging Solutions Release 4 Alarm and Log Messages</i>, 585-310-556, and <i>INTUITY Enterprise Manager Installation and Maintenance</i>, 585-310-193.</p> <p>This field must be populated if you specify a Location.</p>	—
Location	The INTUITY system location for a particular piece of hardware in a physical location	<p>Consists of three parts:</p> <ul style="list-style-type: none"> ■ Equipment name — blank, TR (for IVC6 cards), NB (for ACCX cards), or DC (for DCIU card) ■ Equipment type — ALL, ca (for card), or ch (for channel) ■ Equipment number — <p>If TR ca: 0-10 If TR ch: 0-63 If NM ca: 1-3 If NB ch: 1-12 If DC ca: 1 If DC ch: 1-64</p>	—

Continued on next page

**Table 9-7. Field Definitions for Alarm Log Report Selection
Criteria Window — *Continued***

Field	Description	Valid Input	Default
Alarm Code	The alarm code that corresponds to the resource type entered above; if no resource type was entered, the report contains multiple resource types with the same alarm code	A value from 0 to 999	—
Alarm Type	The selected alarm type in the report	active or resolved	active
Application ID	The 2-character application code for the alarm log entry	<ul style="list-style-type: none"> ■ VM = Messaging (voice mail, fax mail, and e-mail messages) ■ VP = Voice platform ■ NW = Digital networking ■ SW = Switch interface ■ MT = Maintenance ■ MB = Remote maintenance board 	—
Alarm Levels Warning Major Minor	The alarm level for the alarms you want to display in the report	y=yes n=no	y (for all)
Date (mm/dd/yyyy)	The date from which you want to list alarm log information for the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date

Continued on next page

**Table 9-7. Field Definitions for Alarm Log Report Selection
Criteria Window — *Continued***

Field	Description	Valid Input	Default
Time: Hours Min	The time in hours and minutes from which you want to list alarm log information for the report	hh, using a 24-hour clock mm, using a value 00 to 59	00:00
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	Current hour and minute

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as y, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as n, the system displays the following message:

```
Data will be collected from
the active database to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#). [Figure 9-9](#) displays an example of the Alarm Log report.

Alarm Log Report							
Customer Id: lucent-cb		Date: 01/07/98		Time: 09:41:17			
App Resource	Location	Alarm Code	Alm Lvl	Ack	Date/Time Alarmed	Date/Time Resolved	Resolve Reason
ME Name : drmid11							
MT	UNIX	0	MAJ	n	01/06/98 13:05		

Figure 9-9. Alarm Log Report

Interpreting the Alarm Log Report

[Table 9-8](#) provides descriptions for each of the fields in the Alarm Log report ([Figure 9-9](#)). Use the [F2](#) (NextPage) and [F3](#) (PrevPage) keys to move through the report. The top of each page of the report contains the customer ID and the date and time the report was generated.

Table 9-8. Field Definitions for Alarm Log Report

Field	Description
ME Name	This field contains the name of the managed element
APP	This field contains the code for the application that generated the alarm (active or resolved).
Resource Type	This field contains the specific type of alarmed resource you requested when generating the report, or all resource types if you did not specify a resource type.
Location	This field contains a 6-character location for the corresponding fault resource type.
Alarm Code	This field contains the specific alarm code you requested when generating the report, or all alarm codes, if you did not specify a resource type.
Alm Lvl	This field contains the alarm severity level, that is, MAJ (major), MIN (minor), or WRN (warning).
Ack	<p>If this field is y, the alarm was present during the last referral call. (The alarm was reported to the services organization). However, alarms may not have been sent if there were a significant number of higher priority alarms.</p> <p>If this field is n, this alarm was not present during the last referral call.</p>

Continued on next page

Table 9-8. Field Definitions for Alarm Log Report — Continued

Field	Description
Date/Time Alarmed	This field contains the date (month, day, and year) and the time (hour and minute) the alarm was raised against the given resource.
Date/Time Resolved	<p>This field contains the date (month, day, and year) and the time (hour and minute) the alarm was resolved. If these fields are blank, the alarm is currently active.</p> <p>If only the active alarms are displayed, these fields should always be blank. If only resolved alarms are displayed, this field should always have a value.</p>
Resolve Reason	<p>This field contains the activity that occurred to resolve the alarm. A value in this field is only displayed if resolved alarms are selected. If this field is blank, the alarm is currently active.</p> <p>The resolution values are:</p> <ul style="list-style-type: none"> ■ Maint — The alarm was resolved by the maintenance process and the resource recovered. ■ Reboot — The system was rebooted and all active alarms are resolved. ■ Remove — The alarm was resolved by removing the resource.

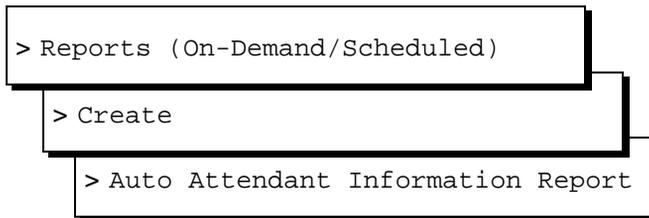
Auto Attendant Information Report

The Auto Attendant Information report provides a list of managed elements administered as automated attendants. This information includes the corresponding routing information based on a caller's response to menus and prompts.

Creating the Auto Attendant Information Report

To create the Auto Attendant Information report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Auto Attendant Information Report selection window appears ([Figure 9-10](#)).

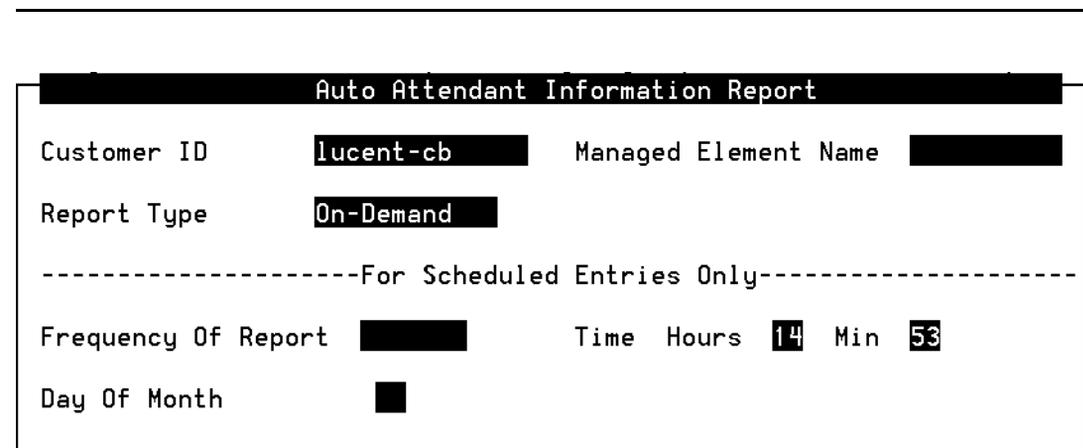


Figure 9-10. Auto Attendant Information Report Selection Window

2. Complete the fields in this window using the information in [Table 9-9](#).

Table 9-9. Field Definitions for Auto Attendant Information Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements.	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report will be created	2-digit entry, 01 to 31	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.
 - If you selected to produce an on-demand report, the system displays the following message:

Data will be collected now
to give a report.
It may take some time
Press <CONTINUE> to confirm
or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>  
successfully scheduled  
Press <Enter> to continue.
```

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Auto Attendant Information Report

[Figure 9-11](#) displays an example Auto Attendant Information report. [Table 9-10](#) provides descriptions for each of the fields in the Auto Attendant Information report. Use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report.

Auto Attendant Report			
Customer Id: lucent-cb		Date: 01/26/98	Time: 15:25:38
ME Name map40a	Auto Attn# 1000	Auto Attn Name doe, john	Allow Call Transfer y/n n
Button#	Extension	Treatment	Comment
1	9000	guest-greeting	leave message for sales
2	9001	call-answer	go to accounting
3			
4	9003	call-answer	go to personnel
5			
6			
7			
8			
9			
0			
Timeout			

Figure 9-11. Auto Attendant Information Report

Table 9-10. Field Definitions for Auto Attendant Information Report

Field	Description
ME Name	This field contains the name of the managed element.
Auto Attn#	This field contains the telephone extension for the auto attendant.
Auto Attn Name	This field contains the alphabetic character name for the auto attendant. This name is touch-tone unique.
Allow Call Transfer y/n	This field indicates whether this managed element allows callers to transfer out of the AUDIX system using <input type="checkbox"/> * <input type="checkbox"/> when the auto attendant is reached.
Button#	This field lists the telephone keypad numbers 0 to 9.

Continued on next page

Table 9-10. Field Definitions for Auto Attendant Information Report — Continued

Field	Description
Extension	<p>For each button, this fields specifies an extension to which the AUDIX system will connect a call when the caller presses the associated button number, or e if the AUDIX system allows the caller to dial any name beginning with the associated button number.</p>
Treatment	<p>This field specifies how the AUDIX system handles a call when the button is pressed. Valid entries are:</p> <ul style="list-style-type: none"> ■ blank — Indicates the corresponding button is not available as a menu selection ■ call-answer — Puts the call directly into the mailbox for the extension and plays the call answer greeting, attendant menu, or bulletin board message without transferring through the switch ■ guest-greeting — Puts the call into the mailbox for the designated extension (without transferring through the switch), plays the standard guest greeting (“Please leave a message for name.”) and allows the caller to record a message. ■ transfer — Transfers the call to the extension on the switch.
Comment	<p>This field provides additional information that may help identify the extension.</p>

COS Report

The Class of Service (COS) report provides a list of messaging options defined and assigned to users on a managed element. COS options include:

- Language specifications
- Permissions for:
 - Call answer
 - Announcement control
 - Outcalling
 - Priority messages
 - Broadcast
 - IMAPI access and message transfer
 - Fax
 - Trusted server access
- Incoming and outgoing mailbox specifications
- Voice mail and call answer maximum and minimum length
- Mailing lists
- Mailbox size specifications

Creating the COS Report

To create the COS report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:

> Reports (On-Demand/Scheduled)

> Create

> COS Report

The COS Report selection window appears ([Figure 9-12](#)).

COS Report

Customer ID **Lucent-cb** Managed Element Name **[REDACTED]**

Report Type **On-Demand**

-----For Scheduled Entries Only-----

Frequency Of Report **[REDACTED]** Time Hours **14** Min **55**

Day Of Month **[REDACTED]**

Figure 9-12. COS Report Selection Window

- Complete the fields in this window using the information in [Table 9-11](#).

Table 9-11. Field Definitions for COS Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	—
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand

Continued on next page

Table 9-11. Field Definitions for COS Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display only field	Monthly
Time: Hours Min	The time in hours and minutes when the report is generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>
successfully scheduled

Press <Enter> to continue.
```

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the COS Report

The COS report displays its information based on the class of service for each managed element. The information for each class of service is displayed on 2 pages. Use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report to view the class of service information.

The following information is displayed on each class of service entry:

- Customer ID
- Date and time the report was generated
- COS name
- COS number
- Managed element name

[Figure 9-13](#) and [Figure 9-14](#) show examples of two pages displayed for each class of service.

```

Class Of Service Report
Customer Id: lucent-cb          Date: 01/07/98   Time: 09:50:49
COS Name : class00           COS Number: 0     Machine(ME): drmid11
      Name : class00                Modified? y
Addressing Format : extension
                                Login Announcement Set: System
                                Call Answer Primary Annc.Set: System
Call Answer Language Choice? n  Call Answer Secondary Annc.Set: System

PERMISSIONS
Type: call-answer      Announcement Control? n      Outcalling? y
Priority Messages? y   Broadcast: none                IMAPI Access? y
IMAPI Message Transfer? y  Fax Creation? y      Trusted Server Access? y
    
```

Figure 9-13. Class of Service Report, Sample Page 1

[Table 9-12](#) provides descriptions for fields displayed on the first page for a class of service.

Table 9-12. Field Definitions for COS Report, Page 1

Field	Description
Name	The name of the class of service
Modified?	Indicates whether this class of service has been modified for this managed element (y= modifications, n=no modifications from the default class of service)
Addressing Format	Indicates the default way a user with this COS is to address messages (values are either extension or name)
Login Announcement Set	Specifies the announcement set that the system uses when a user login is. If the multilingual feature is turned off, this field must be blank or contain the word System.
Call Answer Language Choice	Indicates whether a caller may select secondary language when the call is answered (values = y or n)
Call Answer Primary Annc. Set	Specifies the name of the announcement set used for system prompts and for the personal or standard system greeting <i>until</i> the caller switches languages
Call Answer Secondary Annc. Set	Specifies the name of the announcement set used for system prompts and for the personal or standard system greeting <i>after</i> the caller switches languages

PERMISSIONS

Continued on next page

Table 9-12. Field Definitions for COS Report, Page 1 — Continued

Field	Description
Type	<p>Indicates the type of permission the caller has for this mailbox. Valid values are:</p> <ul style="list-style-type: none"> ■ call answer – Caller has both caller answer and mailbox capabilities ■ none – Caller only has mailbox capabilities ■ auto-attendant – The mailbox is a automated attendant ■ bulletin board – The mailbox is an information-only recorded announcement.
Announcement Control?	<p>Indicates whether a user may record system announcements such as user names and networked system machine names. Note that this capability should be limited to system administrators.</p>
Outcalling?	<p>Indicates whether the user can be alerted of new messages by having the system place a call to the user</p>
Priority Messages?	<p>Indicates whether a user with this class of service has the ability to place priority messages to other users</p>
Broadcast	<p>Indicates the type of broadcast messages a user with this class of service can create. Valid values are:</p> <ul style="list-style-type: none"> ■ voice = Broadcast voice and/or fax message permission only ■ login = Login announcement permission only ■ both = Broadcast voice/fax message and login announcement permissions ■ none = No broadcast message or login announcement permissions

Continued on next page

Table 9-12. Field Definitions for COS Report, Page 1 — Continued

Field	Description
IMAPI Access?	Indicates whether a user with this class of service has the ability to access an INTUITY Messaging Application Programming Interface (IMAPI) session (for example, when accessing Message Manager or a trusted server)
IMAPI Message Transfer	Indicates whether a user with this class of service has the ability to transfer information this user's mailbox over the local area network to a client PC
Fax Creation	Indicates whether a user with this class of service can perform fax messaging
Trusted Server Access	Indicates whether a user with this class of service has the allows a trusted server to add messages to, and delete messages from, this user's mailbox

```

Class Of Service Report
Customer Id: lucent-cb          Date: 01/07/98   Time: 09:50:49
COS Name : class00      COS Number: 0      Machine(ME): drmid11
INCOMING MAILBOX      Order: fifo      Category Order: nuo
Retention Times(days), New: 10      Old: 10      Unopened: 10
OUTGOING MAILBOX      Order: fifo      Category Order: unfda
Retention Times(days), File Cab: 10      Delivered/Nondeliverable: 5
Voice Mail Message ( seconds ), Maximum Length : 1200 Minimum Needed: 32
Call Answer Message ( seconds), Maximum Length : 1200 Minimum Needed: 8

      End of Message Warning Time ( seconds ) :
      Maximum Mailing Lists: 25      Total Entries in all Lists: 250
Mailbox Size (seconds), Maximum: 5000      Minimum Guarantee: 0
    
```

Figure 9-14. Class of Service Report, Sample Page 2

[Table 9-13](#) provides descriptions for fields displayed on Page 2 of a class of service report.

Table 9-13. Field Definitions for COS Report, Page 2

Field	Description
INCOMING MAILBOX	
Order	Specifies the order for retrieving messages from this user's incoming mailbox
Category Order	Specifies the order to scanning the incoming mailbox message categories for this user
Retention Times (days), New Old Unopened	Indicates the number of days that new, old, and unopened messages are retained in this user's incoming mailbox

Continued on next page

Table 9-13. Field Definitions for COS Report, Page 2 — Continued

Field	Description
OUTGOING MAILBOX	
Order	Specifies the order for retrieving messages from this user outgoing mailbox
Category Order	Specifies the order for scanning the outgoing mailbox message categories for this user
Retention Times (days), File Cab Delivered/ Nondeliverable	Indicates the number of days that file cabinet or delivered/nondeliverable messages are retained in this user's outgoing mailbox
Voice Mail Message (seconds)	
Maximum Length	Indicates the maximum duration of voice/fax messages this user can create
Minimum Needed	Indicates the minimum mailbox space that must be available for this user to create a voice/fax message
Call Answer Message (seconds)	
Maximum Length	Indicates the maximum duration of a call answer messages this user can receive
Minimum Needed	Indicates the minimum mailbox space that must be available to leave this user a voice/fax message
End of Message Warning Time (seconds)	Indicates the time during recording a message when the system plays a warning message. If the display is blank, this indicates that this class of service is using the system default value, or there is no end of message warning time.
Maximum Mailing Lists	Indicates the maximum number of mailing lists this user can create
Total Entries in all Lists	Indicates the maximum number of entries in all mailings lists this user can create

Continued on next page

Table 9-13. Field Definitions for COS Report, Page 2 — Continued

Field	Description
Mailbox Size (seconds)	
Maximum	Indicates the maximum size (in seconds) of mailbox space for this user
Minimum Guarantee	Indicates the number of seconds of mailbox space guaranteed for this user

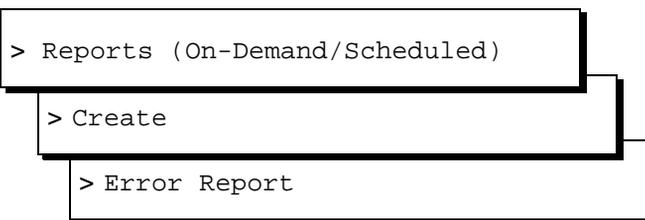
Error Report

The Error report provides detailed information about error and event messages that have been reported to the INTUITY AUDIX Maintenance log.

Creating the Error Report

To create the Error Report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Error Report selection menu appears ([Figure 9-15](#)).

Error Report			
Customer ID	lucent-pune	Managed Element Name	
Report Type	On-Demand	Collect Data Now ?	<input type="checkbox"/>
Problem Resource Type		Location	
Reporting Resource Source			
Reporting Resource Type		Time Hours	00 Min 00
Start Date(mm/dd/yyyy)	02/04/1998	End Date	02/05/1998
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	Min

Figure 9-15. Error Report Selection Window

2. Complete the fields in this window using the information in [Table 9-14](#).

Table 9-14. Field Definitions for Error Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, the Time: Hours and Min fields directly below this field on the screen are disabled. If n is selected, data is collected starting from the date and time specified.	n
Problem Resource Type	The source resource type for the problem	A valid resource type or blank	—

Continued on next page

Table 9-14. Field Definitions for Error Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
Location	The INTUITY system location for a particular piece of hardware in a physical location	<p>Consists of three parts:</p> <ul style="list-style-type: none"> ■ Equipment name — blank, TR (for IVC6 cards), NB (for ACCX cards), or DC (for DCIU card) ■ Equipment type — ALL, ca (for card), or ch (for channel) ■ Equipment number — <p>If TR ca: 0-10 If TR ch: 0-63 If NM ca: 1-3 If NB ch: 1-12 If DC ca: 1 If DC ch: 1-64</p> <p>Note that if Equipment Type is blank, the system uses the value ALL.</p>	
Reporting Resource Source	The specific line number of software source code reporting the problem	blank or a specific line number	—
Reporting Resource Type	The portion of the Intuity system that detected the problem condition	blank or the name of a software process	—
Time: Hours: Min:	The time in hours and minutes from which you want to list error logs	<p>hh, using a 24-hour clock</p> <p>mm, using a value 00 to 59</p>	00:00

Continued on next page

Table 9-14. Field Definitions for Error Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
Start Date (mm/dd/yyyy)	The beginning date for the error report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date minus 1 (for example, if the current date is 2/3/1998, the default shown in 2/2/1998)
End Date	The end date for the error report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	Current hour and minute

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as *y*, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with Collect Data Now? as n, the system displays the following message:

```
Data will be collected from  
the active database to give a report.  
It may take some time
```

```
Press <CONTINUE> to confirm
```

```
or <CANCEL> to abort
```

```
Press F3 (Continue) to initiate report generation. Depending on how  
much information you requested, it may take some time to generate  
the report.
```

- If you selected to schedule a report, the system displays the following message:

```
<report name>  
successfully scheduled
```

```
Press <Enter> to continue.
```

```
Press ENTER to return to the Create reports window. The report that  
you have just scheduled appears in the Update Scheduled window.
```

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Error Report

[Figure 9-16](#) shows an example of an Error report. Use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report. The top of each page of the report contains the customer ID and the date and time the report was generated. [Table 9-15](#) provides descriptions for each of the fields in the Error report.

Error Report				
Customer Id:	lucent-cb	Date:	01/08/98	Time: 15:19:28
Problem Resource		Msg Reporting Resource		
Type	Inst	Location	Typ	Type
			Inst	Source
ME Name : drmid11				
		ERR DSK	1	sendarc0.c:97
App: MT	Event ID: FSV004	Date/Time Rec:	01/07/98 00:05	Cnt: 1
/UM is within ten percent of its limit				
		ERR DSK	1	sendarc0.c:97
App: MT	Event ID: FSV004	Date/Time Rec:	01/07/98 00:35	Cnt: 1
/UM is within ten percent of its limit				
		EUN fax_audit	1	fax_audit.c:133
App: UP	Event ID: FXAUD001	Date/Time Rec:	01/07/98 00:45	Cnt: 1
Database Audit Started.				

Figure 9-16. Error Report

Table 9-15. Field Definitions for Error Report

Field	Description
ME Name	The name of the managed element
Problem Resource	
Type	The source of the software process experiencing the problem; this field is blank when no additional data is available
Inst	A number between 1 and 999, indicating the number of times this problem occurred

Continued on next page

Table 9-15. Field Definitions for Error Report — Continued

Field	Description
Location	<p>The source of hardware-related entries; identified by:</p> <ul style="list-style-type: none"> ■ Equipment name — blank, TR (for IVC6 cards), NB (for ACCX cards), or DC (for DCIU card) ■ Equipment type — ALL, ca (for card), or ch (for channel) ■ Equipment number — <p>If TR ca: 0-10 If TR ch: 0-63 If NM ca: 1-3 If NB ch: 1-12 If DC ca: 1 If DC ch: 1-64</p>
Msg Type	<p>The type of message reported:</p> <ul style="list-style-type: none"> ■ Error (ERR) — Reports the detection of a problem. Not all errors are service-affecting and the system may monitor the error internally before raising an alarm. ■ Resolution (RES) — Reports the disappearance of an error condition. When an error condition is resolved, an RES message with the same alarm resource type and alarm code as the error appears in the log. ■ Event (EVN) — Indicates an information message about system activities. Event messages may or may not be related to errors and alarms.
Reporting Resource	
Type	<p>The part of the INTUITY system that detected the problem condition; most likely, this contains the name of a software process.</p>

Continued on next page

Table 9-15. Field Definitions for Error Report — Continued

Field	Description
Inst	The specific occurrence of the Reporting Resource Type
Source	A unique value that identifies the specific line number of software source code reporting the problem; this field is blank when the source code line number is not available
App	<p>The unique application identifier that detected the problem</p> <ul style="list-style-type: none"> ■ VM = Messaging (voice mail, fax mail, and e-mail messages) ■ VP = Voice platform ■ NW = Digital networking ■ SW = Switch interface ■ MT = Maintenance ■ MB = Remote maintenance board
Event ID	A 1- to 14-alphanumeric entry that identifies this message
Date/Time Rec	The date and time the entry was placed in the error log; this field is in the form mm/dd/yy hh:mm:ss (for example, 2/3/98 14:21/39)
Cnt	The number of times this message has been sent to the log in 1 minute
Message Text	A brief explanation of the log entry

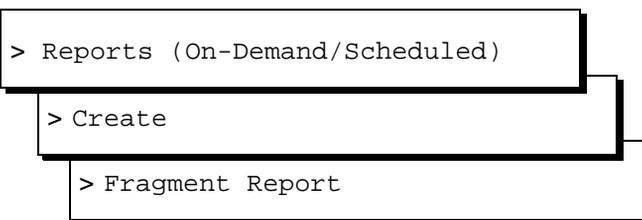
Fragment Report

The Fragment report provides a list all fragments and the date the fragment was changed. A fragment is a piece of an announcement. This report can only be produced on-demand.

Creating the Fragment Report

To create the Fragment Report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Fragment Report selection window appears ([Figure 9-17](#)).

Fragment Report	
Customer ID	lucent-cb
Managed Element Name	
Report Type	On-Demand

Figure 9-17. Fragment Report Selection Window

2. Complete the Fragment Report selection window using the information in [Table 9-16](#).

Table 9-16. Field Definitions for Fragment Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	The name of an administered managed element Press F2 (Choices) to display a list of valid managed elements.	
Report Type	The type of report you want to create	A display only field	on-demand

- Press **F3** (Continue) to execute the on-demand Fragment report.

The system displays the following message:

```
Data will be collected now
to give a report.
```

```
It may take some time
```

```
Press <CONTINUE> to confirm
```

```
or <CANCEL> to abort
```

- Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Fragment Report

[Table 9-17](#) provides descriptions for each of the fields in the Fragment report ([Figure 9-18](#)). The top of the report contains the customer ID and the date and time the report was generated.

Fragment Report		
Customer Id: lucent-cb	Date: 01/26/98	Time: 15:30:02
ME Name : map40a		
Announcement Set	Fragment Number	Date Changed
portug	000000	05/21/1996
portug	000001	05/21/1996
portug	000002	05/21/1996
portug	000003	05/21/1996
portug	000004	05/21/1996
portug	000005	05/21/1996
portug	000006	05/21/1996
portug	000007	05/21/1996
portug	000008	05/21/1996
portug	000009	05/21/1996
portug	000010	05/21/1996
portug	000011	05/21/1996
portug	000012	05/21/1996

Figure 9-18. Fragment Report

Table 9-17. Field Definitions for Fragment Report

Field	Description
Managed Element	This field contains the name of the managed element for which the fragment information applies.
Announcement Set	This field contains the name of the language announcement set.
Fragment Number	This column contains the fragment number.
Date Changed	This column contains the date the corresponding fragment number was changed.

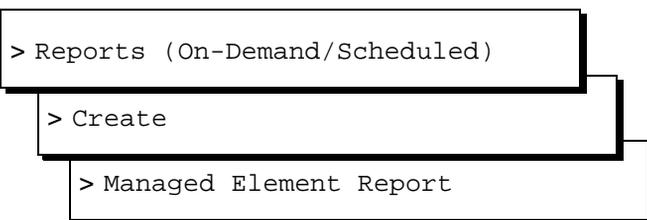
Managed Element Report

The Managed Element report provides a list of names, machine type, load category, IP address, and site ID for all managed elements on the Enterprise Manager network.

Creating the Managed Element Report

To create the Managed Element Report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Managed Element Report selection window appears ([Figure 9-19](#)).

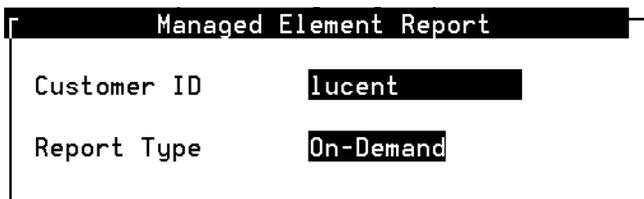


Figure 9-19. Managed Element Report Selection Window

2. Press **F3** (Continue) to execute the on-demand report.

The system displays the following message:

```
Data will be collected now
to give a report.
It may take some time
Press <CONTINUE> to confirm
      or <CANCEL to abort
```

3. Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Managed Element Report

Figure 9-20 shows an example of the Managed Element report. The top of the report contains the date and time that the report was generated. If this Enterprise Manager network contains more managed element than can be displayed on one page, use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report. Table 9-18 provides descriptions for each of the fields in the Managed Element report.

Managed Element Report					
		Date : Date: 01/08/98		Time: 14:08:59	
Customer Id	ME NAME	ME TYPE	LOAD CATEGORY	IP ADDRESS	SITE ID
lucent-cb	map40a	MACH4.2	A	135.7.50.97	columbus
lucent-cb	puaudix	MACH4.0	A	199.118.78.3	pune
lucent-cb	drmid11	MACH4.0	A	135.9.181.110	denver

Figure 9-20. Managed Element Report

Table 9-18. Field Definitions for Managed Element Report

Field	Description
Customer Id	The mnemonic for the customer as listed in the Customer Administration screen
ME NAME	The unique name of the managed element
ME TYPE	The type of system being managed; Can be MACH 4.X, Interchange 1.0, or Other

Continued on next page

Table 9-18. Field Definitions for Managed Element Report — Continued

Field	Description
LOAD CATEGORY	<p>The amount of load (that is, traffic) expected to occur on this managed element; valid values are A, B, C, D, E, R</p> <p>See Chapter 6, "Performance Configuration", for additional information about each of the above load categories. Note that Load Category R has no support for data collection or data provisioning.</p>
IP ADDRESS	The TCP/IP address of this system
SITE ID	The site identifier to be used by the data collection module

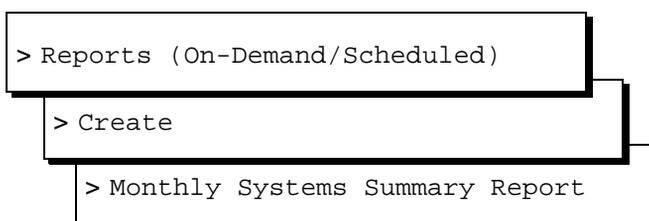
Monthly Systems Summary Report

The Monthly Systems Summary report provides an overall summary of the system. This report includes both usage and performance data

Creating the Monthly Systems Summary Report

To create the Monthly Systems Summary Report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Monthly Systems Summary Report selection window appears ([Figure 9-21](#)).

Monthly Systems Summary Report			
Customer ID	Lucent-cb	Managed Element Name	
Date for the start of the GOS calculation			
Frequency Of Report	Monthly	Time Hours	15 Min 12
Day Of Month			

Figure 9-21. Monthly Systems Summary Report Selection Window

2. Complete the fields in this window using the information in [Table 9-19](#).

Table 9-19. Field Definitions for Monthly Systems Summary Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements.	
Date for the start of the GOS calculation	The date from which you want to generate report information for the 5 busiest days	A 2-digit entry, 01 to 31	—
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	Current hour and minute
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

- Press **F3** (Continue) to execute the on-demand report or schedule the report.

If you selected to produce an on-demand report, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time
```

Press <Enter> to continue.

Press **ENTER** to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

If you selected to schedule a report, the system displays the following message

<report name>
successfully scheduled
Press <Enter> to continue.

Press **(ENTER)** to return to the Create Reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays "NO-DATA-FOUND", refer to ["Troubleshooting Reports"](#).

Interpreting the Monthly System Summary Report

The following tables provide descriptions for each of the pages in the Monthly System Summary report. Use **(F2)** (NextPage) and **(F3)** (PrevPage) keys to move through the report. If you selected all managed elements, information is displayed per managed element. The top of each page displays the customer ID and the date and time the report was generated.

The data for this report is kept for 40 days.

Monthly System Summary			
Customer Id: lucent-technol		Date: 12/18/97 Time: 19:32:01	
ME Name : puaudix			
Date	GOS	High/Average Ports in use	Max# Voice Ports Utilized
11/15/1997	0.00	0.80	5
11/16/1997	0.00	0.80	5
11/17/1997	0.00	0.80	5
11/18/1997	0.00	0.80	5
11/19/1997	0.00	0.80	5
Average	0.00	0.80	5

Figure 9-22. Monthly Systems Summary Report, Page 1

Table 9-20. Field Definitions for Monthly System Summary Report, Page 1

Field	Description
ME Name	The name of the managed element to which the data in this report belongs
Date	The date from which you selected to generate report information for the 5 busiest days of the month
GOS	The grade of service for each of the days listed
High/Average Ports in use	The average number of ports that were in use simultaneously during the days listed
Max# Voice Ports Utilized	The maximum number of voice ports in use
Average	The average value for the GOS, High/Average Ports in use, and Max# Voice Ports Utilized for the 5 days selected

```

Monthly System Summary
Customer Id: lucent-technol      Date: 12/18/97      Time: 19:32:01
ME Name : puaudix
Local Subs: 76      Remote Subscribers: 179      Non Administered Remote: 2
No. of Subscriber over Threshold : 6
Call Answer:
  Call Answer Calls Completed Internal : 570      External : 870
                          Abandoned Internal : 450      External : 210
  Avg Storage time      : 6672      Average Connect Time : 189
  Average CA session   : 5691.25 Total for CA session Usage : 273180
    
```

Figure 9-23. Monthly Systems Summary Report, Page 2

Table 9-21. Field Definitions for Monthly System Summary Report, Page 2

Field	Description
Local Subs	The total number of local users administered on the managed element at the end of the month being reported
Remote Subscribers	The total number of remote users administered on the managed element at the end of the month being reported
Non Administered Remote	The total number of user external to the managed element (not administered) who sent mail to an administered user on this managed element or to whom mail was sent by an administered user on this managed element at the end of the month being reported
No. of Subscriber over Threshold	The number of users that exceeded one or more of the message space thresholds during the month?

Continued on next page

Table 9-21. Field Definitions for Monthly System Summary Report, Page 2 — Continued

Field	Description
Call Answer	
Call Answer Calls Completed Internal/External	The number of call answer telephone calls from telephones administered (internal) on the host switch and from telephones not administered (external) on the host switch made to the managed element during the month reported.
Abandoned Internal/External	The number of times a caller hung up after the mailbox greeting started to play, but before the beep to leave a message occurred. These calls are from telephones administered (internal) on the host switch and from telephones not administered (external) on the host switch and were made to the managed element during the month reported.
Average Storage time	The average duration (in minutes?) during the month that call answer messages were stored in mailboxes before they were deleted
Average Connect Time	The average duration (in seconds) of call answer calls that were made during the month
Average CA session	?
Total for CA session Usage	The total number of seconds (across all ports) that the system was used for call answer sessions during the day being reported

Monthly System Summary

```
Customer Id: lucent-technol      Date: 12/18/97   Time: 19:32:01
ME Name : puaudix
Voice Mail
Successful Logins  Internal  : 1080           External : 1500
Failed Logins     Internal  : 300            External : 0
UM Messages Sent   : 4470
Aug Storage time   : 214770           Average Connect Time : 2190
Average UM session : 2212.674 Total for UM session Usage : 190290
Broadcast Messages Sent : 0
Login Announcements Sent : 0
Priority Messages Sent : 2430
Private Messages Sent : 270
Total for UM &CA Message sent: 5910

Message Deliveries that could not be completed : 0
```

Figure 9-24. Monthly Systems Summary Report, Page 3

Table 9-22. Field Definitions for Monthly System Summary Report, Page 3

Field	Description
Voice Mail	
Successful Logins Internal/External	The number of successful login attempts by users calling from telephones administered (internal) on the host switch and from telephones not administered (external) on the host switch
Failed Logins Internal/External	The number of unsuccessful login attempts from telephones administered (internal) on the host switch and from telephones not administered (external) on the host switch. <i>Unsuccessful</i> means that the AUDIX system on this managed element did not allow the caller access to AUDIX operations. This may have been due to an unrecognizable password, login ID (or both), or because the caller hung up before completing the call.
VM Messages Sent	The total number of messages that were sent on the local AUDIX system (managed element) during the reporting month
Avg Storage time	The average duration (in minutes) for the month that messages remained in mailboxes before they were deleted.
Average Connect Time	The average duration (in seconds) of calls made directly to a mailbox that occurred during the reporting month
Average VM session	■
Total for VM session Usage	
Broadcast Messages Sent	The total number of broadcast messages (as defined by the broadcast messages feature) that were sent on the managed element during the month

Continued on next page

Table 9-22. Field Definitions for Monthly System Summary Report, Page 3 — Continued

Field	Description
Login Announcements Sent	The total number of login announcements (as defined by the login announcement feature) sent on the managed element during the reporting month
Priority Messages Sent	The total number of messages marked for priority delivery that were sent on the managed element during the reporting month
Private Messages Sent	The total number of messages marked for private delivery that were sent on the managed element during the reporting month
Total for VM & CA Message sent	The total number of voice mail and call answer messages sent on this managed element
Message Deliveries that could not be completed	The number of messages that could not be delivered successfully

Monthly System Summary			
Customer Id:	lucent-technol	Date:	12/18/97 Time: 19:32:01
ME Name :	puaudix		
System Storage			
Total Storage	Used	: 29.2	Free : 70.8
Message Storage	: 19		
Voice Named Storage	: .1	% remote : 76	
Announcement Storage	: 10		
Network Data			
No. of remote deliveries rescheduled	: 420		
Maximum simultaneous channels	: 90		

Figure 9-25. Monthly Systems Summary Report, Page 4

Table 9-23. Field Definitions for Monthly System Summary Report, Page 4

Field	Description
System Storage	
Total Storage Used Free	The amount of system space (in percent) currently used and free
Message Storage	The maximum number of hours in use for all messages during the reporting month
Voice Named Storage	The maximum number of hours in use for all names during the reporting month
% Remote	The percentage of name storage used to store remote names
Announcement Storage	The maximum number of hours in use for the announcement during the reporting month

Continued on next page

Table 9-23. Field Definitions for Monthly System Summary Report, Page 4 — Continued

Field	Description
Network Data	
No. of remote deliveries rescheduled	The number of messages deliveries that could not be completed and were subsequently rescheduled or canceled
Maximum simultaneous channels	The greatest number of ports that were in use simultaneously during the reporting month

Monthly System Summary

```

Customer Id: lucent-technol      Date: 12/18/97   Time: 19:32:01
ME Name : puaudix
Machine(ME)  Messages      Messages Sent  ME exceeded in  Unsuccessful call
              Received      Message Xmission attempt to ME
CBINTUIT      0                0              0                0
cbueitt       0                0              0                0
lzhub         34               43             0                0
pune-12       0                0              0                0
    
```

Figure 9-26. Monthly Systems Summary Report, Page 5

Table 9-24. Field Definitions for Monthly System Summary Report, Page 5

Field	Description
Machine(ME)	The name of the remote machine
Messages Received	The number of message received by this machine from the managed element
Messages Sent	The number of messages sent to the managed element from this machine
ME exceeded in Message Xmission	
Unsuccessful call attempt to ME	The number of unsuccessful call attempts made from this machine to the managed element

Monthly System Summary

Customer Id: lucent-technol Date: 12/18/97 Time: 19:32:01

ME Name : puaudix

Date	Call Answer Fax Messages	Voice Mail FAX Messages created	Number of IMAPI Sessions	Average IMAPI Sessions (sec)
11/01/1997	0	0	0	1
11/02/1997	0	0	0	1
11/03/1997	0	0	0	1
11/04/1997	0	0	0	1
11/05/1997	0	0	0	1
11/06/1997	0	0	0	1
11/07/1997	0	0	0	1
11/08/1997	0	0	0	1
11/09/1997	0	0	0	1
11/10/1997	0	0	0	1
11/11/1997	0	0	0	1
11/12/1997	0	0	0	1
11/13/1997	0	0	0	1

Figure 9-27. Monthly Systems Summary Report, Page 6

Table 9-25. Field Definitions for Monthly System Summary Report, Page 6, 7 and 8

Field	Description
Date	The date in form mm/dd/yyyy. One listing is provided for each day of the month
Call Answer Fax Messages	The number of call answer and fax messages sent to this the managed element
Voice Mail FAX Messages created	The number of voice mail and fax messages created on the managed element
Number of IMAPI Sessions	The number of simultaneously IMAPI sessions used
Average IMAPI Sessions (sec)	The average length (in seconds) for an IMAPI session on this managed element
Summary	Summary totals for the month for each of the values listed above

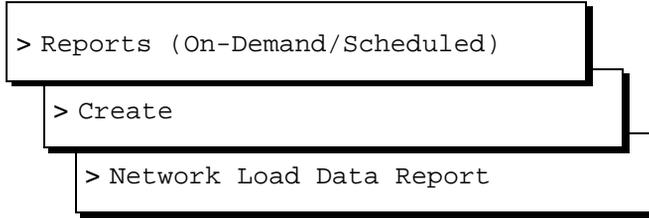
Network Load Data Report

The Network Load report shows network channel traffic for a managed element. This report can show any nodes that are exceeding specified threshold limits, how many calls went unanswered, the number of calls on each channel, and other channel traffic information. You may specify a day or range of days for which you want to view data. If you specify a range of days, the data will be displayed in a day by day format.

Creating the Network Load Data Report

To create the Network Load Data report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Network Load Data Report selection window appears ([Figure 9-28](#)).

Network Load Data Report			
Customer ID	lucent-pune	Managed Element Name	
Report Type	On-Demand	Collect Data Now ?	<input type="checkbox"/>
Start Date	02/04/1998 (mm/dd/yyyy)	End Date	02/05/1998
-----For Scheduled Entries Only-----			
Frequency Of Report		Time	Hours <input type="checkbox"/> Min <input type="checkbox"/>

Figure 9-28. Network Load Data Report Selection Window

2. Complete the fields in this window using the information in [Table 9-26](#).

Table 9-26. Field Definitions for Network Load Data Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, all other fields are disabled. If n is selected, data is collected starting from the date and time specified.	n
Start Date (mm/dd/yyyy)	The date from which you to display network load information	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date minus 1 (for example, if the current date is 2/3/1998, the default date is 2/2/1998)

Continued on next page

Table 9-26. Field Definitions for Network Load Data Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
End Date	The date up to which you want network load data listed in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date
Time: Hours Min	The time in hours and minutes during which you want to poll for data	hh, using a 24-hour clock mm, using a value 00 to 59	00:00
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with `Collect Data Now?` as `y`, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with `Collect Data Now?` as `n`, the system displays the following message:

Data will be collected from the active database to give a report. It may take some time

Press <CONTINUE> to confirm

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>  
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays "NO-DATA-FOUND", refer to ["Troubleshooting Reports"](#).

Interpreting the Network Load Report

[Figure 9-29](#) and [Figure 9-30](#) shows an example of the Network Load report. Use **F2** (NextPage) and **F3** (PrevPage) keys to move through the report. Each page of the report contains the customer ID and the date and time the report was generated. [Table 9-27](#) and [Table 9-28](#) provide descriptions for each of the fields in the Network Load report.

Network Load Data Report		
Customer Id: lucent-cb	Date: 01/08/98	Time: 12:34:43
ME Name : drmid11	Date : 01/08/98	Ending Time : 10:37
Total Message Transmission Threshold Exceptions	:	0
Total Message Transmission Limit Exceptions	:	0
Remote Deliveries Rescheduled	:	0
Maximum Simultaneous Channels	:	3
Total Incoming Calls Unanswered	:	0
Total Remote Undeliverable Messages	:	0

Figure 9-29. Network Load Report, Page 1

Table 9-27. Field Definitions for Network Load Report, Page 1

Field	Description
ME Name	This field contains the name of the managed element If you selected to view or create a report for ALL managed elements, each managed element and its data is listed separately.
Date	This field contains the date (in the format mm/dd/yyyy) on which data collection for this report ended.
Ending Time	This field contains the time in hours and minutes (in the format hh:mm, using a 24-hour clock) at which data collection for this report ended.

**Table 9-27. Field Definitions for Network Load Report,
Page 1 — Continued**

Field	Description
Total Message Transmission Threshold Exceptions	The number of times any node exceeded the specified message transmission threshold during the recording period.
Total Message Transmission Limit Exceptions	The number of times any node exceeded the message transmission limit specified for that node during the recording period.
Remote Deliveries Rescheduled	This field contains the number of messages that were rescheduled because of transmission difficulties or space limitations on the remote node during the recording period.
Maximum Simultaneous Channels	This field contains the number of networking channels that were active simultaneously during the recording period.
Total Incoming Calls Unanswered	This field contains the number of incoming calls that could not be answered because too many networking channels were in use when the call came in.
Total Remote Undeliverable Messages	This field contains the total number of messages that were rejected for delivery to a remote machine because, for example, the remote user is not defined to the local machine.

Network Load Data Report							
Customer Id: lucent-cb		Date: 01/08/98		Time: 12:34:43			
ME Name : drmid11		Date : 01/08/98		Ending Time : 10:37			
NETWORK Number	CHANNEL Type	USAGE (SECONDS)			PEG COUNT (NUMBER OF CALLS)		
		Incoming	Outgoing	Total	Incoming	Outgoing	Total
1:	DCP	239	11	250	6	1	7
2:	DCP	140	28	168	1	4	5
3:		0	0	0	0	0	0
4:		0	0	0	0	0	0
5:	TCPIP	62	0	62	1	0	1
6:	TCPIP	2	0	2	2	0	2
7:	TCPIP	0	8	8	0	2	2
8:	TCPIP	0	4	4	0	2	2
9:		0	0	0	0	0	0
10:		0	0	0	0	0	0
11:		0	0	0	0	0	0
12:		0	0	0	0	0	0

Figure 9-30. Network Load Report, Page 2

Table 9-28. Field Definitions for Network Load Report,
Page 2

Field	Description
ME Name	This field contains the name of the managed element If you selected to view or create a report for ALL managed elements, each managed element and its data is listed separately.
Date	This field contains the date (in the format mm/dd/yyyy) on which data collection for this report ended.
Ending Time	This field contains the time in hours and minutes (in the format hh:mm, using a 24-hour clock) at which data collection for this report ended.
NETWORK CHANNEL	
Number :	This column identifies the maximum available nodes for an AUDIX R4 system.

**Table 9-28. Field Definitions for Network Load Report,
Page 2 — Continued**

Field	Description
Type	This column contains the administered networking channels. If the network channel type is administered during the record collection period, the new channel type is shown.
USAGE (SECONDS)	
Incoming/ Outgoing/Total	This column specifies the number of seconds that each network channel was active with incoming and outgoing calls during the recording period. The total seconds of activity are also provided.
PEG COUNT (NUMBER OF CALLS)	
Incoming/ Outgoing/Total	This column specifies the number of incoming and outgoing calls on each network channel during the recording period. The total number of calls is also provided.

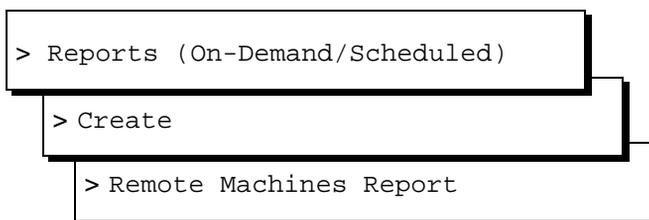
Remote Machines Report

The Remote Machines report provides information about the currently administered remote machines (managed elements) accessible by the Enterprise Manager.

Creating the Remote Machines Report

To create the Remote Machines report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Remote Machines Report selection menu appears ([Figure 9-31](#)).

Remote Machines Report	
Customer ID	lucent-cb Managed Element Name
Report Type	On-Demand
-----For Scheduled Entries Only-----	
Frequency Of Report	Time Hours 15 Min 23
Day Of Month	

Figure 9-31. Remote Machines Report Selection Window

2. Complete the fields in this window using the information in [Table 9-29](#).

Table 9-29. Field Definitions for Remote Machines Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

- Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time
```

Press <CONTINUE> to confirm

or <CANCEL> to abort.

Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message

```
<report name>
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create Reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays "NO-DATA-FOUND", refer to "[Troubleshooting Reports](#)".

Interpreting the Remote Machines Report

[Table 9-30](#) provides descriptions for each of the fields in the Remote Machines report ([Figure 9-32](#)). The top of the report contains the customer ID and the date and time the report was generated. If you requested the information for all managed elements, the information is displayed per managed element. Use **F2** (NextPage) and **F3** (PrevPage) keys to move through the report.

Remote Machine Report				
Customer Id: lucent-cb		Date: 01/26/98	Time: 15:32:01	
ME Name : drmid11				
Remote Machine	Callback Number	Machine Type	Voice Id	
acd_local	N/A	calld	4	
ADDRESS RANGES				
Prefix	Start	Ext.	End Ext.	
1: 1	29000		29999	
2: 1	52000		52999	
3: 1	58000		58999	
4:				
5:				
6:				
7:				
8:				
9:				
10:				

Figure 9-32. Remote Machines Report

Table 9-30. Field Definitions for Remote Machines Report

Field	Description
Remote Machine	The name of the remote machine
Callback Number	The telephone number to call this remote machine
Machine Type	The type of machine (for example, INTUITY AUDIX, Interchange, VEX, etc.)
Voice Id	A field autopopulated by the AUDIX system when a remote machine is created
ADDRESS RANGES	
Prefix	The fax addressing prefix for this remote machine
Start Ext.	The digit(s) for the range(s) of telephone numbers for users on this machine; you may add up to 10 extension ranges
End Ext.	The digit(s) for the range(s) of telephone numbers for users on this machine; you may add up to 10 extension ranges

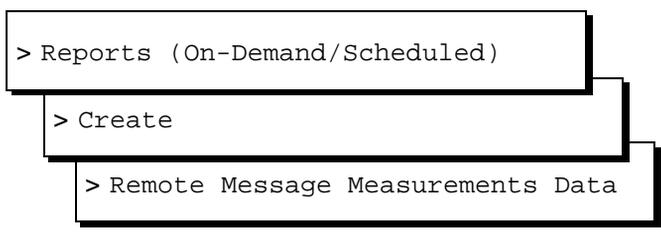
Remote Message Measurements Data Report

The Remote Message Measurements Data report provides information about the traffic load between the specified managed element and all its remote machines. This data is available for any day or range of days during the most recent 40 days.

Creating the Remote Message Measurements Data Report

To create the Remote Message Measurements Data report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Remote Message Measurements Data Report selection window appears ([Figure 9-33](#)).

Remote Message Measurements Data			
Customer ID	lucent-pune	Managed Element Name	
Report Type	On-Demand	Collect Data Now ?	<input type="checkbox"/>
Start Date	02/04/1998(mm/dd/yyyy)	End Date	02/05/1998
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	<input type="checkbox"/> Min <input type="checkbox"/>

Figure 9-33. Remote Message Measurements Data Report Selection Window

2. Complete the fields in this window using the information in [Table 9-31](#).

Table 9-31. Field Definitions for Remote Message Measurements Data Report Selection

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, all other fields are disabled. If n is selected, data is collected starting from the date and time specified.	n
Start Date (mm/dd/yyyy)	The date from which you want to display data in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date minus 1 (for example, if the current date is 2/3/1998, the default date is 2/2/1998)

Continued on next page

Table 9-31. Field Definitions for Remote Message Measurements Data Report Selection
— *Continued*

Field	Description	Valid Input	Default
End Date	The date up to which you want data listed in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	Current date
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as y, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
```

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with *Collect Data Now?* as n, the system displays the following message:

```
Data will be collected from
the active database to give a report.
It may take some time

Press <CONTINUE> to confirm
```

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays "NO-DATA-FOUND", refer to "[Troubleshooting Reports](#)".

Remote Message Measurement Data Report

```
Customer Id: lucent-cb           Date: 01/08/98   Time: 10:38:46
ME Name : drmid11
Machine Name : drbig10           Machine Type : audix
Date : 01/08/98                 Ending Time : 08:42
LOCAL ORIGINATION              REMOTE ORIGINATION
Prime      Non-Prime           Prime      Non-Prime
Transfer Sessions : 0           0           0           0
Usage ( seconds ) : 0           0           0           0
Average Usage    : 0           0           0           0
Messages Sent    : 0           0           0           0
Messages Rejected : 0           0           0           0
Status Sent      : 0           0
Status Received  :                   0           0
Headers Sent     :
Message Transmission Threshold Exceptions : 0
Session Failures Far End "No Answer" : 0
```

Figure 9-34. Remote Message Measurement Data Report

Interpreting the Remote Message Measurement Data Report

[Table 9-32](#) provides descriptions for each of the fields in the Remote Message Measurement Data report. The top of each page of the report contains the customer ID and the date and time the report was generated.

Table 9-32. Field Definitions for Remote Message Measurement Data Report

Field	Description
ME Name	This field contains the name of the managed element.
Machine Name	This field contains the name of the remote machine
Machine Type	This field contains the type of remote machine, for example, AUDIX, etc.
Date	This field contains the date at which data collection ended.
Ending Time	This field contains the time at which data collection ended.
LOCAL ORIGINATION	
Prime/Non-Prime	This column specifies whether the message transmission came from the managed element during a period specified as prime or non-prime time.
Transfer Sessions	This field contains the number of message transfer sessions that occurred during the reporting period. For AMIS analog messages, each transmission or reception session is pegged as a transfer session.
Usage (seconds)	This field contains the total number of seconds for all message transfer sessions that occurred during the reporting period. AMIS analog messages are included in this total.
Average Usage	This field contains the average length, in seconds, of a message transfer session. AMIS analog messages are included in this total.
Messages Sent	This field contains the total number of messages sent from the local AUDIX to the remote AUDIX. AMIS analog messages are included in this total.

Continued on next page

Table 9-32. Field Definitions for Remote Message Measurement Data Report — Continued

Field	Description
Messages Rejected	This field displays the total number of messages rejected by the local AUDIX machines during the reporting period. AMIS analog messages are included in this total. For call delivery machines, if there is no positive confirmation, the message is recorded as rejected.
Status Sent:	This field displays the total number of status reports sent by the local AUDIX to the remote AUDIX for messages originated by the remote AUDIX. This number = 0 for call delivery machines.
Status Received:	This field is not applicable to Local Origination.
Headers Sent	This field is not applicable for an AUDIX R4 machine.
REMOTE ORIGINATION	
Prime/Non-Prime	This column indicates whether the message transmission came from the remote AUDIX during a period specified as prime or non-prime time.
Transfer Sessions	This field contains the number of message transfer sessions that occurred during the reporting period. For AMIS analog messages, each transmission or reception session is pegged as a transfer session.
Usage (seconds)	This field contains the total number of seconds for all message transfer sessions that occurred during the reporting period. AMIS analog messages are included in this total.
Average Usage	This field contains the average length, in seconds, of a message transfer session. AMIS analog messages are included in this total.

Continued on next page

Table 9-32. Field Definitions for Remote Message Measurement Data Report — Continued

Field	Description
Messages Sent	This field contains the total number of messages sent from the remote AUDIX and received by the local AUDIX during the reporting period. AMIS analog messages are included in this total.
Messages Rejected	This field contains the total number of messages rejected by the local and remote AUDIX machines during the reporting period. AMIS analog messages are included in this number. For call delivery machines, if there is no positive confirmation, the message is recorded as rejected.
Status Sent	This field is not applicable to Remote Origination.
Status Received	This field contains the total number of status reports received by the local AUDIX for messages that the local machine sent to the remote AUDIX. Not applicable for AMIS analog messages.
Headers Sent	This field is not applicable for an AUDIX. R4 machine
Message Transmission Threshold Exceptions	This field contains the number of times the local node exceeded its message transmission threshold. This field is not applicable for AMIS analog machines.
Session Failures Far End "No Answer"	This field contains the number of unsuccessful call attempts from the local AUDIX to the remote AUDIX. AMIS analog session failures are included in this count.

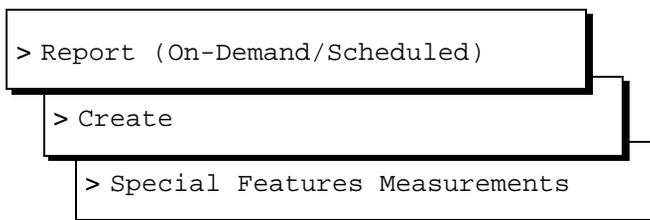
Special Features Measurements Report

The Special Features Measurements report shows outcalling traffic information (which includes outcalling, message delivery, and AMIS analog networking) for any day or range of days during the most recent 40 days.

Creating the Special Features Measurements Report

To create the Special Features Measurements Report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Special Features Measurements Report selection window appears ([Figure 9-35](#)).

Special Features Measurement Report			
Customer ID	lucent	Managed Element Name	
Report Type	On-Demand	Collect Data Now ?	<input type="checkbox"/>
Start Date	02/12/1998	(mm/dd/yyyy) End Date	02/13/1998
Time Hours	00 Min 00		
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	Min

Figure 9-35. Special Features Measurements Report Selection Window

2. Complete the Special Features Measurement Report selection window using the information in [Table 9-33](#).

Table 9-33. Field Definitions for Special Features Measurements Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, all other fields are disabled. If n is selected, data is collected starting from the date and time specified.	n
Start Date (mm/dd/yyyy)	The date from which you want to display data in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date minus 1 (for example, if the current date is 2/3/1998, the default date is 2/2/1998)

Table 9-33. Field Definitions for Special Features Measurements Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
End Date	The date up to which you want data listed in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997)	current date
Time: Hours Min	The time in hours and minutes from which you want data listed in the report	hh, using a 24-hour clock mm, using a value 00 to 59	00:00
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with `Collect Data Now?` as `y`, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
```

or `<CANCEL>` to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with `Collect Data Now?` as `n`, the system displays the following message:

```
Data will be collected from
the active database to give a report.
It may take some time
```

Press <CONTINUE> to confirm

or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Special Features Measurements Report

[Figure 9-36](#) shows an example of the Special Features Measurements report. Use **F2** (NextPage) and **F3** (PrevPage) keys to move through the report. The top of each page lists the customer ID and the date and time the report was generated. [Table 9-34](#) provides descriptions for each of the fields in the Special Features Measurements report.

NOTE:

The values shown in [Figure 9-36](#) are not typical for the Special Features Measurement report. [Figure 9-36](#) is shown only for an example of the report format.

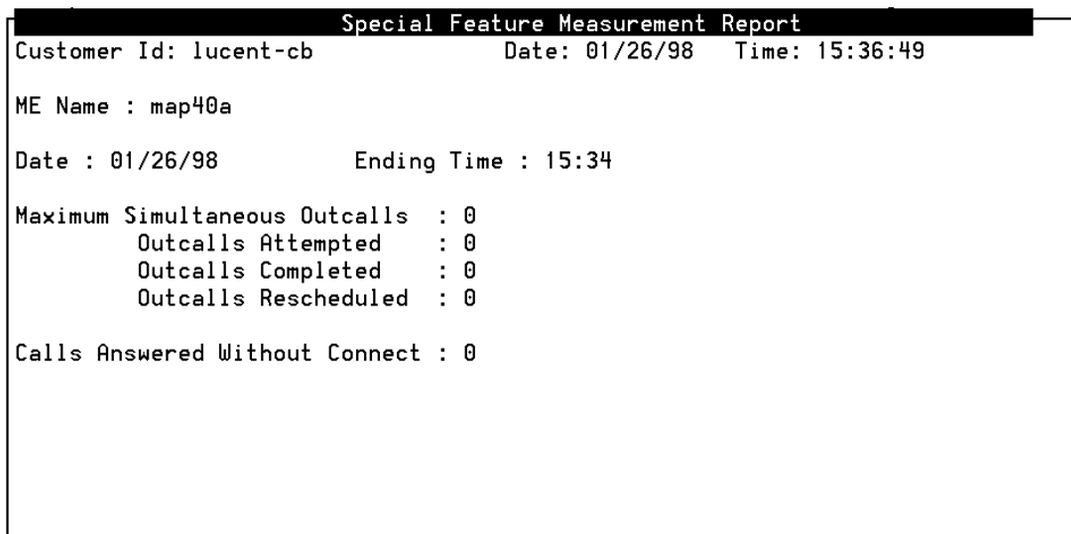


Figure 9-36. Special Features Measurement Report

Table 9-34. Field Definitions for Special Features Measurements Report

Field	Description
ME Name	This field contains the name of the managed element If you selected to view or create a report for ALL managed elements, each managed element and its data is listed separately.
Date	The date for which the report information was generated.
Ending Time	The time, using a 24-hour clock, that data collection for this report ended
Maximum Simultaneous Outcalls	This value indicates the largest number of ports that were simultaneously used for outcalling during the reporting period.

Table 9-34. Field Definitions for Special Features Measurements Report
— Continued

Field	Description
Outcalls Attempted	This value indicates the number of outcalls tried during the reporting period.
Outcalls Completed	This value indicates the number of successful outcalls during the reporting period.
Outcalls Rescheduled	This value indicates the number of outcalls that were rescheduled
Calls Answered Without Connect	This value indicates the number of call answered without a switch-link connect message.

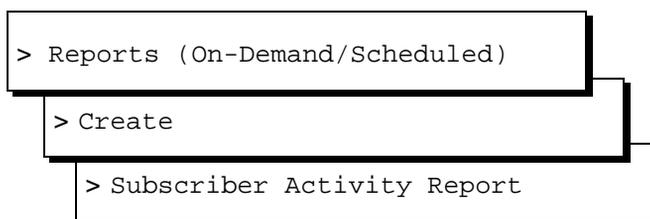
Subscriber Information Report

The Subscriber Information report provides a list of subscribers whose mailboxes are used less than a specified percentage, mailboxes are locked, and whose logins are less than the specified number. This report can be scheduled or produced on-demand. An on-demand report collects data from a managed element at that particular instant.

Creating the Subscriber Information Report

To create the Subscriber Information report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Subscriber Information Report selection menu appears ([Figure 9-37](#)).

Subscriber Information Report			
Customer ID	lucent-pune	Managed Element Name	
Report Type	On-Demand	MailBox Percentage	
Locked		Number Of Logins	
-----For Scheduled Entries Only-----			
Frequency Of Report		Time Hours	Min

Figure 9-37. Subscriber Information Report Selection Window

2. Complete the Subscriber Information Report selection window using the information in [Table 9-35](#).



NOTE:

You must enter a value in at least one of the following fields described in [Table 9-35](#):

Mailbox Percentage
Locked
Number of Logins

Table 9-35. Field Definitions for Subscriber Information Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	—
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Mailbox Percentage	The amount of message space (in percent) used by this user; the report lists all mailboxes that are used less than this percentage	A percent value between 0 and 100	—
Locked	The indication that a user's mailbox has been locked (due to unsuccessful consecutive login attempts)	y=yes n=no If y is selected, the report lists all the mailboxes that are locked. If n is selected, the report lists the unlocked mailboxes.	—
Number of Logins	The login status of the subscriber mailbox; the report lists all mailboxes with the number of logins less than this number	a numeric entry	—

Continued on next page

Table 9-35. Field Definitions for Subscriber Information Report Selection Criteria Window — Continued

Field	Description	Valid Input	Default
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Daily
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—

- Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time

Press <CONTINUE> to confirm
      or <CANCEL> to abort
```

Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message

```
<report name>
successfully scheduled

Press <Enter> to continue.
```

Press **ENTER** to return to the Create Reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Subscriber Information Report			
Customer Id: lucent-cb	Date: 01/26/98	Time: 15:41:08	
Subscriber	Extension	Machine	Mailbox Condition
Amit Kanda	443	puaudix	1 % Full
Broadcast Mailbox	222	puaudix	0 % Full
Change_600	600	puaudix	0 % Full
Change_601	601	puaudix	0 % Full
Change_602	602	puaudix	0 % Full
Change_603	603	puaudix	0 % Full
Change_604	604	puaudix	0 % Full
Change_605	605	puaudix	0 % Full
Change_606	606	puaudix	0 % Full
Change_607	607	puaudix	0 % Full
Change_608	608	puaudix	0 % Full
Change_609	609	puaudix	0 % Full
Change_610	610	puaudix	0 % Full

Figure 9-38. Subscriber Information Report

Interpreting the Subscriber Information Report

[Table 9-36](#) provides descriptions for each of the fields in the Subscriber Information report. The top of the report lists the customer ID and the date and time the report was generated.

Table 9-36. Field Definitions for Subscriber Information Report

Field	Description
Subscriber	The name of the user
Extension	The user's telephone extension
Machine	The managed element on which this user resides
Mailbox Condition	The condition of the mailbox, depending on the selection criteria specified in Figure 9-37 ; this field could contain either the mailbox usage percentage, whether the mailbox is locked, and/or the number of logins by the user.

Continued on next page

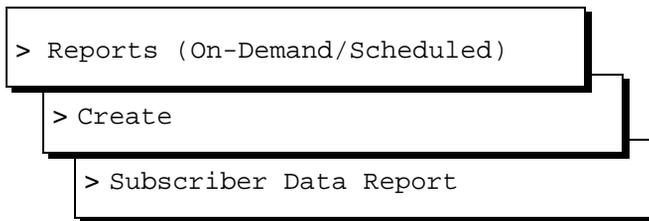
Subscriber Data Report

The Subscriber Data report provides information about a specific user on a managed element.

Creating the Subscriber Data Report

To create the Subscriber Data report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Subscriber Data Report selection menu appears ([Figure 9-39](#)).

Subscriber Data Report			
Customer ID	<input type="text" value="lucent-technol"/>	Managed Element Name	<input type="text"/>
Report Type	<input type="text" value="On-Demand"/>	Collect Data Now ?	<input type="checkbox"/>
Subscriber Name	<input type="text"/>		
Extension Number	<input type="text"/>		
Start Date	<input type="text" value="02/11/1998"/> (mm/dd/yyyy)	End Date	<input type="text" value="02/12/1998"/>
-----For Scheduled Entries Only-----			
Frequency Of Report	<input type="text"/>	Time Hours	<input type="text"/> Min <input type="text"/>
Day of Month	<input type="text"/>		

Figure 9-39. Subscriber Data Report Selection Window

2. Complete the Subscriber Data Report selection window using the information in [Table 9-37](#).

Table 9-37. Field Definitions for Subscriber Data Report Selection Criteria Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
Collect Data Now?	Specifies whether to immediately collect data for this report	y = yes n = no If On-Demand is selected, this value is set to n . If y is selected, the Time: Hours and Min fields directly below this field on the screen are disabled. If n is selected, data is collected starting from the date and time specified.	no
Subscriber Name	The name of the user	1- to 29- alphabetic characters	—

Continued on next page

**Table 9-37. Field Definitions for Subscriber Data Report Selection
Criteria Window — Continued**

Field	Description	Valid Input	Default
Extension Number	The user's telephone extension	3- to 24-digit telephone extension Note: INTUITY AUDIX Release 4 only supports 10-digit telephone extensions.	—
Start Date (mm/dd/yyyy)	The date from which you want the data to be listed in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997) This field is available only if Collect data now? is n.	current date minus 1 (for example, if the current date is 2/3/1998, the default date is 2/2/1998)
End Date	The date to which you want the data to be listed in the report	A calendar date in the format mm/dd/yyyy (for example, 10/30/1997) This field is available only if Collect data now? is n.	current date
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report with **Collect Data Now?** as y, the system displays the following message:

```
Data will be collected now  
to give a report.  
It may take some time  
Press <CONTINUE> to confirm
```

```
or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to produce an on-demand report with **Collect Data Now?** as n, the system displays the following message:

```
Data will be collected from  
the active database to give a report.  
It may take some time
```

```
Press <CONTINUE> to confirm
```

```
or <CANCEL> to abort
```

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>  
successfully scheduled
```

```
Press <Enter> to continue.
```

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

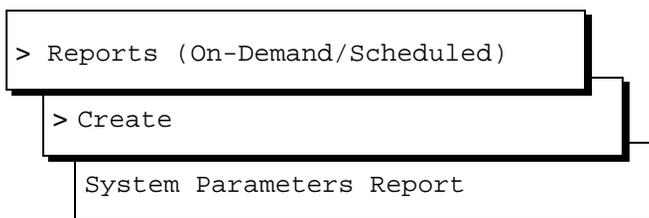
System Parameters Report

The System Parameters report provides a list of system limits and system features for each managed element on the Enterprise Manager.

Creating the System Parameters Report

To create the System Parameters report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The System Parameters Report selection menu appears ([Figure 9-40](#)).

System Parameters Report	
Customer ID	lucent-cb
Managed Element Name	
Report Type	On-Demand
-----For Scheduled Entries Only-----	
Frequency Of Report	
Time Hours	15
Min	32
Day Of Month	

Figure 9-40. System Parameters Report Selection Window

2. Complete the System Parameters Report selection window using the information in [Table 9-38](#).

Table 9-38. Field Definitions for System Parameters Report Selection Criteria Window

Field	Description	Valid Values	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

3. Press **F3** (Continue) to execute the on-demand report or schedule the report.

- If you selected to produce an on-demand report, the system displays the following message:

```
Data will be collected now
to give a report.
It may take some time
```

Press <CONTINUE> to confirm

or <CANCEL> to abort

Press **F3** (Continue) to initiate the report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message

```
<report name>
successfully scheduled
```

Press <Enter> to continue.

Press **ENTER** to return to the Create Reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the System Parameter Report

The System Parameters report contains 4 pages. If you requested information for all managed elements, the system parameters are listed per managed element. The top of each page lists the customer ID, the date and time the report was generated, and the managed element name to which the date applies. Use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report.

[Figure 9-41](#) through [Figure 9-44](#) shows an examples of the each page of a System Parameter report. [Table 9-39](#) through [Table 9-42](#) provides descriptions for each of the fields in the System Parameter report.

```

System Parameter Report
Customer Id: lucent-cb          Date: 01/07/98   Time: 14:42:35

ME Name : puaudix

MESSAGE LIMITS
Message Lengths, Maximum(seconds): 1200  Minimum(tenths of seconds): 10
Messages, Total In All Mailboxes: 50000      Awaiting Delivery: 5000

ADMINISTRATION LIMITS
Subscribers, Local : 1000   Administered Remote: 1000
Lists, Total Entries: 50000   Lists/Subscriber: 100 Recipients/List: 250
    
```

Figure 9-41. System Parameter Report, Sample Page 1

Table 9-39. Field Definitions for System Parameters Report, Sample Page 1

Field	Description
ME Name	This field contains the name of the managed element If you selected to view or create a report for ALL managed elements, each managed element and its data is listed separately.
MESSAGE LIMITS	
Message Lengths, Maximum (seconds)	The maximum length, in seconds, of a message
Message Lengths, Minimum (tenths of seconds)	This field contains the length, in tenths of a second, of the shortest message that the system recognizes as a message.

**Table 9-39. Field Definitions for System Parameters Report, Sample
Page 1 — Continued**

Field	Description
Messages, Total in All Mailboxes	This field contains the maximum number of messages expected in all users' mailboxes at any one time. When this number is reached, the system begins generating alarms. It does not prevent message delivery
Messages, Awaiting Delivery	This field contains the maximum number of messages expected in the system delivery queue
ADMINISTRATION LIMITS	
Subscriber, Local	This field contains the maximum number of users that can be administered on this system.
Administered Remote	This field contains the maximum number of remote users that can be administered on this system.
Lists, Total Entries	This field contains the number of entries allowed in all users' lists.
Lists/Subscribers	This field contains the maximum number of lists allowed per user.
Recipients/List	This field contains the maximum number of entries (recipients) allowed per user list.

```

System Parameter Report
Customer Id: lucent-cb          Date: 01/07/98   Time: 14:42:35

ME Name : puaudix
LOG-IN PARAMETERS
  Login Retries : 3             Consecutive Invalid Attempts: 18
  System Guest Password:       Minimum Password Length: 0

SUBSCRIBER PASSWORD AGING LIMITS (DAYS)
  Password Expiration Interval : 0 ( 0 for no password aging)
  Minimum Age Before Changes : 0
  Expiration Warning : 0 (0 for no warning)

INPUT TIME LIMITS (SECONDS)
  Normal: 60    Full Mailbox Timeout: 5    Wait(*W): 180
  Between Digits at Auto-attendant or Standalone Menu: 3 (3-12)

DISCONNECT OPTIONS
  Quick Silence Disconnect? y      Silence Limit? 5 (5-30 seconds)

```

Figure 9-42. System Parameter Report, Sample Page 2

Table 9-40. Field Definitions for System Parameters Report, Sample Page 2

Field	Description
LOG-IN PARAMETERS	
Login Retries	This field indicates the number of sequential login attempts allowed before the system disconnects the user
Consecutive Invalid Login Attempts	This field contains the maximum number of consecutive unsuccessful login attempts allowed before the user is locked out of the system.
System Guest Password	This field contains the password that people without mailboxes can use to leave messages for system users.
Minimum Password Length	This field contains the minimum number of characters required for a user password.
SUBSCRIBER PASSWORD AGING LIMITS (DAYS)	
Password Expiration Interval	This field contains the number of days that a password is active on the system.

**Table 9-40. Field Definitions for System Parameters Report, Sample
Page 2 — Continued**

Field	Description
Minimum Age Before Changes	This field contains the minimum number of days that must pass before a user can change a password after a successful change.
Expiration Warning	This field contains the number of days prior to password expiration that the system begins to notify the user of impending expiration.
INPUT TIME LIMITS (SECONDS)	
Normal	This field contains the number of seconds the system waits for a user to enter a command before sending a time-out warning.
Full Mailbox Time-out	This field contains the number of seconds that the system waits for a touch tone entry from a caller after informing the caller that this user's mailbox is full.
Wait (*W)	This field contains the number of seconds the system waits after a user enters the wait command (<input type="text" value="#"/> <input type="text" value="9"/>) before sending a time-out warning.
Between Digits at Auto-attendant or Standalone Menu	This field contains the maximum number of seconds the system waits between dialed touch tones before timing out.
DISCONNECT OPTIONS	
Quick Silence Disconnect?	This field indicates whether quick silence disconnect is enabled (y) or disabled (n).
Silence Limit	This value is the time in seconds that the AUDIX system waits for caller input before dropping call answer recordings, if Quick Silence Disconnect is enabled.

```

System Parameter Report
Customer Id: lucent-cb      Date: 01/07/98   Time: 15:04:27
ME Name : puaudix
MISCELLANEOUS PARAMETERS
  Broadcast Mailbox Extension: 222
  System Prime Time, Start: 08:00      End: 17:00
  Increment(1/s), Rewind: s           Advance: s
FEATURE ACTIVATION
  Traffic Collection? y
  Name Record by Subscriber? y
  Multiple Personal Greetings? y
  End of Message Warning? y           Warning Time (seconds): 15
  Priority on Call Answer? y
  Call Answer Disable? y
  Address Before Record? y
    
```

Figure 9-43. System Parameter Report, Sample Page 3

Table 9-41. Field Definitions for System Parameters Report, Sample Page 3

Field	Description
MISCELLANEOUS PARAMETERS	
Broadcast Mailbox Extension	This field is the extension number of the system broadcast mailbox.
System Prime Time Start	This field is the starting time (in the format hh:mm, using a 24-hour clock) for the prime-time interval for traffic collection and multiple personal greetings.
End:	This field is the ending time (in the format hh:mm, using a 24-hour clock) for the prime-time interval for traffic collection and multiple personal greetings.

**Table 9-41. Field Definitions for System Parameters Report, Sample
Page 3 — Continued**

Field	Description
Increment (l/s) Rewind	This field indicates the interval in seconds that a message should be rewound. l rewinds a message for 10 seconds; s rewinds a message for 4 seconds.
Advance	This field indicates the interval in seconds that a message should be advanced. l advances a message for 10 seconds; s advances a message for 4 seconds.
FEATURE ACTIVATION	
Traffic Collection	This field indicates whether the collection of traffic data is enabled (y) or disabled (n).
Name Record by Subscriber?	This field indicates whether users can record their own names (y=yes, n=no).
Multiple Personal Greetings?	This field indicates whether a user may have multiple personal greetings (y=yes, n=no).
End of Message Warning?	This field indicates whether the end of message warning feature is enabled (y) or disabled (n).
Warning Time	This value is the number of seconds before the end of the allotted message recording time when the End of Message Warning prompt plays. A value of 0 means no warning.
Priority on Call Answer?	This field indicates whether callers can designate a call answer message priority (y=yes, n=no).
Call Answer Disable?	This field indicates whether user can disable call answer (y=yes, n=no).
Address Before Record?	This field indicates whether the system prompts users to address a message before recording (y=yes, n=no).

```
System Parameter Report
Customer Id: lucent-cb      Date: 01/07/98   Time: 15:04:27
ME Name : puaudix
MULTIMEDIA PARAMETERS
  Fax Print Destination Prefix: 0
  Text to Speech Conversion: headers_and_bodies
CALL TRANSFER OUT OF AUDIX
  Transfer Type: enhanced_cover_0   Transfer Restriction: digits
  Covering Extension: 497
ANNOUNCEMENT SETS
  System: us-eng                Administrative: us-eng
RESCHEDULING INCREMENTS FOR UNSUCCESSFUL MESSAGE DELIVERY
Incr 1: 0 days 0 hrs 5 mins   Incr 2: 0 days 0 hrs 15 mins
Incr 3: 0 days 0 hrs 30 mins  Incr 4: 0 days 1 hrs 0 mins
Incr 5: 0 days 2 hrs 0 mins   Incr 6: 0 days 6 hrs 0 mins
Incr 7: 1 days 0 hrs 0 mins   Incr 8: 2 days 0 hrs 0 mins
Incr 9: 7 days 0 hrs 0 mins   Incr10: 14 days 0 hrs 0 mins
```

Figure 9-44. System Parameter Report, Sample Page 4

Table 9-42. Field Definitions for System Parameters Report, Sample Page 4

Field	Description
MULTIMEDIA PARAMETERS	
Fax Print Destination Prefix	This field identifies the specific fax call delivery endpoint. This prefix is prepended to the telephone number supplied by a user when printing a fax message.
Text to Speech Conversion	<p>This field indicates what portions of an e-mail or Lucent INTUITY Message Manager text message the system converts to speech. Valid values are:</p> <ul style="list-style-type: none"> ■ headers_only — The message headers is converted (for example, the subject or the sender's name). ■ headers_and_body — The header and the entire message text is converted. ■ none — Text-to-Speech is deactivated. This value is used when the system does not have Message Manager or e-mail.
CALL TRANSFER OUT OF AUDIX	
Transfer Type	<p>This field indicates whether Call Transfer Out of AUDIX is active and what type of transfer is used. Valid values are:</p> <ul style="list-style-type: none"> ■ none — This feature is deactivated. ■ enhanced_no_cover_0 — The Enhanced Transfer feature is active, but callers that press 0 are not sent to the coverage path. ■ enhanced — The Enhanced Transfer feature is active and callers that press 0 are sent to the coverage path for the covering person. ■ basic — The transfer feature for non-DEFINITY switches is active.

**Table 9-42. Field Definitions for System Parameters Report, Sample
Page 4 — Continued**

Field	Description
Transfer Restriction	<p>This field determines how calls transferred out of the AUDIX system are restricted.</p> <ul style="list-style-type: none"> ■ subscribers transfers calls only if the destination number is that of an administered AUDIX subscriber ■ digits transfers calls only if the destination has the same number of digits as AUDIX extensions.
Covering Extension	<p>This field indicates the system-wide default extension to which a call is transferred when the caller presses 0 or +0 to transfer out of the AUDIX system. This field can be blank, or a 3-to 10-digit extension.</p>
ANNOUNCEMENT SETS	
System	<p>This field contains the name of the announcement set used for system prompts.</p>
Administrative	<p>This field contains the name of the announcement set used when modifying announcement fragments and compositions.</p>
Rescheduling Increments for Unsuccessful Delivery	<p>These fields specify the time intervals (in minutes, hours, and days) between attempts to resend a message after an unsuccessful delivery attempt.</p>

Trusted Server Report

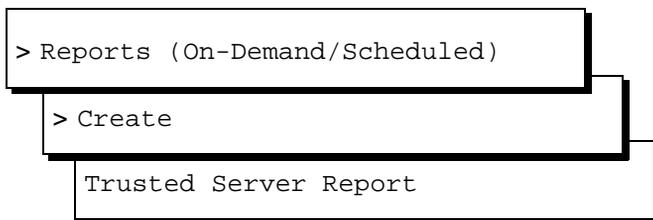
The Trusted Server report provides a list of trusted servers that are administered for each managed element. The Trusted Server report provides the following information for each trusted server:

- IP address
- Trusted server ID
- Service name
- Access to cross domain

Creating the Trusted Server Report

To create the Trusted Server report, do the following:

1. Start at the Enterprise Manager menu ([Figure 4-1](#)) and select:



The Trusted Server Report selection window for creating a report appears ([Figure 9-45](#)).

Trusted Server Report

Customer ID	<input type="text" value="lucent-cb"/>	Managed Element Name	<input type="text"/>
Report Type	<input type="text" value="On-Demand"/>		
-----For Scheduled Entries Only-----			
Frequency Of Report	<input type="text"/>	Time Hours	<input type="text" value="14"/> <input type="text" value="43"/>
Day Of Month	<input type="text"/>		

Figure 9-45. Trusted Server Report Selection Window

- Complete the Trusted Server Report selection window using the information in [Table 9-43](#).

Table 9-43. Field Definitions for Trusted Server Report Selection Window

Field	Description	Valid Input	Default
Customer ID	The unique customer identifier	A display only field	—
Managed Element Name	The name of the managed element for which you want to create the report	ALL or the name of an administered managed element Press F2 (Choices) to display a list of valid managed elements	
Report Type	The type of report you want to create	Scheduled or On-Demand If you select on-demand, all fields under For Scheduled Entries Only are disabled.	On-Demand
For Scheduled Entries Only			
Frequency of Report	The frequency (how often) the report can be generated	A display-only field	Monthly
Time: Hours Min	The time in hours and minutes the report is to be generated	hh, using a 24-hour clock mm, using a value 00 to 59	—
Day of Month	The day of the month on which the report is created	2-digit entry, 01 to 31	—

- Press **F3** (Continue) to execute the on-demand report or schedule the report.
 - If you selected to produce an on-demand report, the system displays the following message:

Data will be collected now
to give a report.
It may take some time
Press <CONTINUE> to confirm
or <CANCEL> to abort

Press **F3** (Continue) to initiate report generation. Depending on how much information you requested, it may take some time to generate the report.

- If you selected to schedule a report, the system displays the following message:

```
<report name>  
successfully scheduled  
Press <Enter> to continue.
```

Press **ENTER** to return to the Create reports window. The report that you have just scheduled appears in the Update Scheduled window.

If the generated report displays “NO-DATA-FOUND”, refer to [“Troubleshooting Reports”](#).

Interpreting the Trusted Server Report

The Trusted Server report displays its information for each managed element. Use the **F2** (NextPage) and **F3** (PrevPage) keys to move through the report to view the trusted server information.

[Figure 9-46](#) shows an example of the Trusted Server report. [Table 9-44](#) provides descriptions for each of the fields in the Trusted Server report.

Trusted Server Report			
Customer Id: lucent-cb		Date: 01/07/98	Time: 14:35:44
Trusted			
Server Name	IP Address	Trusted Server ID	Access Cross Domain
ME Name : drmid11			
audixd	135.9.183.20	6	y
Service : audixd			
audixd1	135.9.183.20	7	y
Service : audixd1			
bop19	135.7.50.105	17	y
Service : imapi			
drbig15	135.9.181.183	15	y
Service : drbig15			
drccs11	135.9.181.45	4	n
Service : drmid11			

Figure 9-46. Trusted Server Report

Table 9-44. Field Definitions for Trusted Server Report

Field	Description
ME Name	This field contains the name of the managed element If you selected to view or create a report for ALL managed elements, each managed element and its data is listed separately.
Trusted Server Name	This field contains the name of the trusted server. This name is unique across the Enterprise Manager network.
IP Address	This field contains the TCP/IP address of the trusted server.

Continued on next page

Table 9-44. Field Definitions for Trusted Server Report — Continued

Field	Description
Trusted Server ID	This field contains an additional ID assigned by the AUDIX server to identify this trusted server. This ID can be either a name or a number.
Access to Cross Domain	This field indicates whether the AUDIX server can send and receive messages with e-mail systems via this trusted server.
Service	This field contains the service name of the trusted server. Separate trusted servers can have the same service name.

Troubleshooting Reports

The following provides troubleshooting information if, when generating a report, you received the message "NO-DATA-FOUND." Identify the particular condition you may have experienced and perform the associated corrective procedure.

On-Demand Report with Collect Data Now? Set to y

- *Problem:* You have requested an on-demand report specifying that you want to collect data for the report at the time report is generated.

Solution:

1. Check for successful data collection in the poll logs:
 - a. Start at the Enterprise Manager Administration menu and select

```
> Data Collection
```

```
> Poll Logs
```

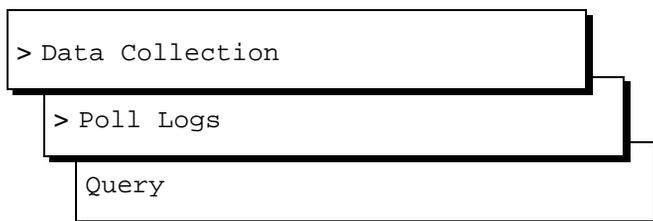
```
Query
```

The Query Poll Logs window appears ([Table 8-4](#)) with default values displayed.

- b. Complete the fields in [Table 8-4](#) using the information in [Table 8-5](#), setting the Poll Type as Interactive.
 - c. Press **F3** (Continue) to view the poll log specified.
2. Determine if the poll log shows a data collection failure for the data type required by the on-demand report you requested. Refer to Chapter 8, "Data Collection" for additional information.

On-Demand Report with Collect Data Now? Set to n

- *Problem:* You have requested an on-demand report using data that exists in the database (already been collected).
- *Solution:*
 1. Verify that the dates entered in the report selection window are valid.
 2. Check for successful data collection in the poll logs:
 - a. Start at the Enterprise Manager Administration menu and select



The Query Poll Logs window appears ([Table 8-4](#)) with default values displayed.

- b. Complete the fields in [Table 8-4](#) using the information in [Table 8-5](#), setting the Poll Type as Interactive.
 - c. Press **F3** (Continue) to view the poll log specified.
3. Determine if the poll log shows a data collection failure for the data type required by the on-demand report you requested. Refer to Chapter 8, "Data Collection" for additional information.
 4. Check the database table to determine if it contains data pertaining to the specified dates:
 - a. At the system prompt, enter **sqlplus enterprise/manager**
The SQL prompt is displayed (SQL>).



NOTE:

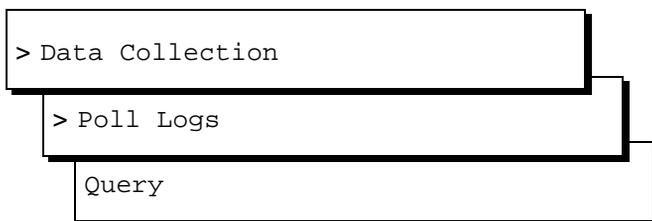
Enter **set pause on** to stop the display from scrolling.

- b. Enter **select * from <table_name>**

where <table_name> is the name of the table listed in [Table 9-1](#) associated with the report being generated.

A Scheduled Report

- *Problem:* You try to view a report that has been scheduled, and should be generated.
- *Solution:*
 1. Check for successful data collection in the poll logs:
 - a. Start at the Enterprise Manager Administration menu and select



The Query Poll Logs window appears (Figure 8-4) with default values displayed.

- b. Complete the fields in Figure 8-4 using the information in Table 8-5, setting the `Poll Type` as `Scheduled`.
 - c. Press **F3** (Continue) to view the poll log specified.
2. Determine if the poll log shows a data collection failure for the data type required by the scheduled report you requested. Refer to Chapter 8, "Data Collection" for additional information.
3. Check the database table to determine if it contains data pertaining to the specified dates:
 - a. At the system prompt, enter **sqlplus enterprise/manager**
The SQL prompt is displayed (`SQL>`).



NOTE:

Enter **set pause on** to stop the display from scrolling.

- b. Enter **select * from <table_name>**

where <table_name> is the name of the table listed in [Table 9-1](#) associated with the report being generated.

Subscriber Administration

10

Overview

This chapter provide procedures for administering subscribers on INTUITY AUDIX systems using the INTUITY Enterprise Manager. These procedures include adding, deleting, moving, and updating subscriber information, as well as external provisioning of subscribers.

Purpose

The purpose of this chapter is to provide the procedures to use the Enterprise Manager to administer subscriber on the INTUITY AUDIX systems.

Subscriber Administration

The Subscriber Administration window allows you to add, delete, change, and move subscribers using the INTUITY Enterprise Manager. The Subscriber Administration window also allows you to perform bulk administration of the subscribers using the external provisioning capabilities, and to view log files created during subscriber administration.

⇒ NOTE:

The Enterprise Manager must be configured as a trusted server for all other machines in the network to perform move procedures. See [“Setting Up a Trusted Server”](#) in [Chapter 3, “Getting Started”](#).

[Figure 10-1](#) shows the Subscriber Administration window, accessed from the Enterprise Manager window ([Figure 4-1](#)).



Figure 10-1. Subscriber Administration Window

Understanding Subscriber Administration

Impacts

When subscriber administration is performed through the Enterprise Manager, some subscriber parameters are affected. That is, there are certain limitations placed on the parameter. For example, the `Broadcast Mailbox` parameter must be a value of `n`. [Table 10-1](#) lists the parameters affected by subscriber administration:

Table 10-1. Subscriber Parameters Affected by Subscriber Administration

Parameter	Result
Password	Refer to <i>INTUITY Messaging Solutions Release 4 Administration</i> , 585-310-564, for information about passwords.
Class of Service	See Note below.
Community ID	This value cannot be added or changed using screen and command line interfaces. The default value for the managed element on which the subscriber will reside is used.
Secondary Ext.	This value cannot be added or changed using screen and command line interfaces
Broadcast Mailbox?	The default value is n and cannot be modified.
INCOMING MAILBOX Category Order	When specifying Retention Times, you must specify a Category Order.
PERMISSIONS Type	The Bulletin Board value cannot be added or changed.
End of Message Warning Time	This field cannot be blank. It must contain an integer value.

 **NOTE:**

If the COS value is blank, the COS parameters can be added or changed and the COS value is stored as "custom." If a COS value is specified, the COS parameters cannot be added or changed. As a result, Page 2 of the subscriber screen cannot be accessed.

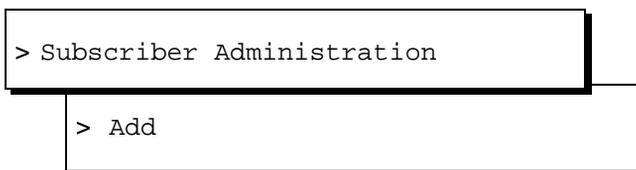
Adding a Subscriber

To add a subscriber, do the following:

⇒ NOTE:

This procedure is useful when you want to add a subscriber or subscribers using the default subscribers parameters for a particular managed element. You can specify a range of mailboxes without specifying individual subscriber parameters.

1. Start at the Enterprise Administration menu and select



The page 1 of the Add Subscriber Parameters window appears ([Figure 10-2](#)).

Add Subscriber			
Customer ID	lucent-technol	Managed Element Name	
Mailbox extension from		To	
Name		Locked?	n
Class of Service		Password	
Switch Number	Miscellaneous		
Community ID	Covering Extension		
Secondary Ext.	Broadcast Mailbox?		n

Figure 10-2. Add Subscriber Values Page 1

2. Complete the fields using the information in [Table 10-2](#).

To add a single subscriber, enter the same mailbox extension in the `from` and `To` fields.

Table 10-2. Field Definitions for Add Subscriber Values, Page 1

Field	Description	Valid Value	Default
Customer ID	The mnemonic for the customer as listed in the Customer Administration screen	A display-only field; autopopulated from the Customer Administration screen	—
Mailbox extension from	The starting mailbox extension for the subscriber(s) that you are adding. Note: If you are adding single subscriber, enter the same value in the Mailbox extension From and To fields.	3- to 24-digits Note: INTUITY AUDIX Release 4 only supports 10-digit extensions.	
To	The ending mailbox extension for the subscriber(s) that you are adding. Note: If you are adding single subscriber, enter the same value in the Mailbox extension from and To fields.	3- to 24-digits Note: INTUITY AUDIX Release 4 only supports 10-digit extensions.	
Managed Element Name	The name of the managed element; this name is unique within a customer network	Press F2 (Choices) to display a list of managed elements	—
Name	The name of the user	1- to 22 alphabetic characters; must be unique	—
Locked	Specifies whether the user mailbox is locked	A display-only field.	n

Continued on next page

Table 10-2. Field Definitions for Add Subscriber Values, Page 1 — *Continued*

Field	Description	Valid Value	Default
Class of Service	<p>The set of messaging capabilities define and assign to this user</p> <p>Note: If a Class of Service is defined, page 2 of the Subscriber screen is unavailable.</p>	An integer from 0 to 11	—
Password	The default password the user must use to log into the AUDIX mailbox	<p>A 0- to 15-digit number</p> <p>The password cannot be the same number as the subscriber's extension or mailbox ID. Passwords with consecutive (123) or repetitive (333) digits are not allowed.</p>	— (blank)
Switch Number	The number of the switch on which this user's extension is administered	<p>Blank or an integer from 0 to 20</p> <p>A 0 (zero) in this field means either the user has a mailbox, but does not have an extension on the switch, or the mailbox for a shared extension</p> <p>A blank field means to use the administered host switch number from the switch-link window.</p>	—

Continued on next page

Table 10-2. Field Definitions for Add Subscriber Values, Page 1 — *Continued*

Field	Description	Valid Value	Default
Miscellaneous	Additional information about the user that may be helpful; an entry in this field is not used by the system	1 to 11 alphanumeric characters, or blank	—
Community ID	The community ID assigned to this user	A display-only field	—
Covering Extension	The number to be used as the default destination for the "Transfer out of AUDIX" feature.	A blank or 3- to 10-digit telephone extension A blank field instructs the system to use the system default covering extension (as specified on page 2 of the System Parameters Features screen)	—
Secondary Ext.	The number of the user's secondary fax extension	This value cannot be added or changed. Note that this extension must have the same number of digits as the primary extension.	—
Broadcast Mailbox	The indication that this mailbox is a broadcast mailbox	A display-only field	n

3. Press **F7** (Nextpage).

The Page 2 of the Add Subscriber window appears ([Figure 10-3](#)).

NOTE:

If the COS value is blank, the COS parameters can be added or changed and the COS value is stored as "custom." If a COS value is specified, the COS parameters cannot be added or changed and Page 2 of the subscriber screen cannot be accessed.

Add Subscriber

Managed Element Name **map40a** Customer ID **lucent-technol**

SUBSCRIBER CLASS OF SERVICE PARAMETERS

Addressing Format **extension** Login Announcement Set **System**

System Multilingual is **OFF** Call Answer Primary Annc. Set **System**

Call Answer Language Choice? **n** Call Answer Secondary Annc. Set **System**

PERMISSIONS

Type **call-answer** Announcement Control? **n** Outcalling? **n**

Priority Messages? **n** Broadcast **none** IMAPI Access? **n**

IMAPI Message Transfer **n** Fax? **n** Trusted Server Access **n**

INCOMING MAILBOX Order **fifo** Category Order **nuo**

Retention Times (days), New **10** Old **10** Unopened **10**

OUTGOING MAILBOX Order **fifo** Category Order **unfda**

Retention Times(days), File Cab **10** Delivered/Nondeliverable **5**

Voice Mail Message (seconds), Maximum Length **300** Minimum Needed **32**

Call Answer Message (seconds), Maximum Length **120** Minimum Needed **8**

End of Message Warning Time (seconds)

Maximum Mailing Lists **25** Total Entries in all Lists **250**

Mailbox Size (seconds), Maximum **1200** Minimum Guarantee **0**

Figure 10-3. Add Subscriber, Page 2

4. Complete the fields using the information in [Table 10-3](#).

Table 10-3. Field Definitions for Add Subscriber Values, Page 2

Field	Description	Valid Values	Default
Managed Element Name	The name of the managed element; this name is unique within a customer network	A display only field; this field is autopopulated from Page 1 of the Subscriber window	—
Customer ID	The mnemonic for the customer as listed in the Customer Administration window	A display-only field; autopopulated from the Customer Administration window	—
SUBSCRIBER CLASS OF SERVICE PARAMETERS			
Addressing Format	The way in which a user with the specified class of service is to address messages.	extension or name	extension
Login Announcement Set	The announcement the user hears when logging in. If the multilingual feature is turned off, the field must be blank or contain the word System	A 1- to 14-character announcement set name	System
System Multilingual is	The status of the multilingual feature	ON or OFF; a display only field	OFF
Call Answer Primary Annc. Set	The announcement set to be used for system prompts and for the personal or standard system greeting <i>until</i> the caller switches languages	A 1- to 14-character announcement set name	System
Call Answer Language Choice?	The call is answered in the primary language choice, then caller is invited (in the secondary language) to press <input type="checkbox"/> <input type="checkbox"/> to switch to the secondary language	y = yes n = no If y , the System Multilingual field is ON .	n

Continued on next page

Table 10-3. Field Definitions for Add Subscriber Values, Page 2 — Continued

Field	Description	Valid Values	Default
Call Answer Secondary Annc. Set	The announcement set to used for system prompts and for the personal or standard system greeting <i>after</i> the caller switches languages	A 1- to 14-character announcement set name	System
PERMISSIONS			
Type	The type of permission the caller has for this mailbox	<ul style="list-style-type: none"> ■ call answer – Caller has both caller answer and mailbox capabilities ■ none – Caller only has mailbox capabilities ■ auto attendant – Mailbox used as an auto attendant ■ bulletin board – Cannot be used 	call-answer
Announcement Control?	<p>Can allow a user to record system announcements such as user names and networked system machine names</p> <p> WARNING: <i>Limit this capability for system administrators.</i></p>	y = yes n = no	n
Outcalling?	The ability to alert the user of new messages by having the system place a call to the user	y = yes n = no	n
Priority Messages?	The ability to place priority messages to other users	y = yes n = no	n

Continued on next page

Table 10-3. Field Definitions for Add Subscriber Values, Page 2 — Continued

Field	Description	Valid Values	Default
Broadcast	The type of broadcast messages this user can create	<ul style="list-style-type: none"> ■ voice – Broadcast voice and/or fax messages only ■ login – Login announcement only ■ both – Broadcast voice/fax message and login announcement ■ none – No permissions 	none
IMAPI Access?	The ability to access an INTUITY Messaging Application Programming Interface (IMAPI) session (for example, when accessing Message Manager or a trusted server)	y = yes n = no	n
IMAPI Message Transfer	Enables the INTUITY AUDIX system to transfer the information this user's mailbox over the local area network to a client PC	y = yes n = no	n
Fax?	Enables fax messaging for this user	y = yes n = no	n
Trusted Server Access	Allows a trusted server to add messages to, and delete messages from, this user's mailbox	y = yes n = no	n

Continued on next page

Table 10-3. Field Definitions for Add Subscriber Values, Page 2 — *Continued*

Field	Description	Valid Values	Default
INCOMING MAILBOX			
Order	Specifies the order for retrieving messages from this user's incoming mailbox	fifo=first in, first out lifo=last in, first out	fifo
Category Order	Specifies the order to scanning the incoming mailbox message categories for this user	<ul style="list-style-type: none"> ■ n – new: neither header or message body has been read ■ u – unopened: header has been read, but not message body ■ o – old: header and message body have been read 	nuo
Retention Times (days), New Old Unopened	Indicates the number of days that new, old, and unopened messages are retained in this user's incoming mailbox	A number from 0 to 999	10
OUTGOING MAILBOX			
Order	Specifies the order for retrieving messages from this user outgoing mailbox	fifo = first in, first out lifo = last in, first out	fifo

Continued on next page

Table 10-3. Field Definitions for Add Subscriber Values, Page 2 — Continued

Field	Description	Valid Values	Default
Category Order	Specifies the order for scanning the outgoing mailbox message categories for this user	<ul style="list-style-type: none"> ■ f – file cabinet: saved copies of created messages ■ u – undelivered: messages awaiting delivery ■ n – nondeliverable: unsuccessful message deliveries ■ d – delivered: notifications of delivered messaged ■ a – accessed: notifications of delivered and accessed messages 	unfda
Retention Times (days), File Cab Delivered/ Nondeliverable	Indicates the number of days that file cabinet or delivered/nondeliverable messages are retained in this user's outgoing mailbox	A number from 0 to 999	10 and 5, respectively
Voice Mail Message (seconds)			
Maximum Length	Indicates the maximum duration of voice/fax messages this user can create	A number from 0 to 1200	300
Minimum Needed	Indicates the minimum mailbox space that must be available for this user to create a voice/fax message	A number from 0 to 1200	32

Continued on next page

Table 10-3. Field Definitions for Add Subscriber Values, Page 2 — Continued

Field	Description	Valid Values	Default
Call Answer Message (seconds)			
Maximum Length	Indicates the maximum duration of a call answer messages this user can receive	A number from 0 to 1200	120
Minimum Needed	Indicates the minimum mailbox space that must be available to leave this user a voice/fax message	A number from 0 to 1200	8
End of Message Warning Time (seconds)	Indicates the time during recording a message when the system plays a warning message	0 or a number from 15 to 60	0
Maximum Mailing Lists	Indicates the maximum number of mailing lists this user can create	A number from 0 to 999	25
Total Entries in all Lists	Indicates the maximum number of entries in all mailings lists this user can create	A number 0 to 9999	250
Mailbox Size (seconds)			
Maximum	Indicates the maximum size (in seconds) of mailbox space for this user	A number from 0 to 32767	1200
Minimum Guarantee	Indicates the number of seconds of mailbox space guaranteed for this user	A number 0 to 9999	0

5. Press **F3** (Continue) to save the information to the Enterprise Manager database.

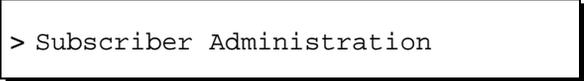
The system displays a progress report ([Figure 10-6](#)), showing the status of the Add Subscriber request.

6. If any unsuccessful operations are displayed on the Progress Report, go to the log file for additional information. See [“View Log Files”](#) later in this chapter.

Deleting Subscribers

To delete subscriber mailboxes, do the following:

1. Start at the Enterprise Administration menu and select



> Subscriber Administration



> Delete

The Delete Subscriber Mailbox window appears ([Figure 10-4](#)).



The screenshot shows a window titled "Delete Subscriber". It contains the following fields:

Customer ID	lucent-technol	Managed Element Name	
Mailbox extension from		To	

Figure 10-4. Delete Subscriber Window

2. Complete the fields using the information in [Table 10-4](#).

Table 10-4. Delete Subscriber Field Descriptions

Field	Description	Valid Input
Customer ID	The unique mnemonic identifier for the customer; this entry is populated automatically by the Enterprise Manager	N/A
Managed Element Name	The name of an existing managed element within the Enterprise Manager network	Press F2 (Choices) to display a list of managed elements
Mailbox extension from	The starting range for the mailbox extension or extensions you want to delete	up to 10 digits
To	The ending range for the mailbox extension or extensions you want to delete	up to 10 digits

- Press **F3** (Continue) to delete the subscriber or subscribers from the selected managed element.

The system displays a confirmation window ([Figure 10-5](#)).

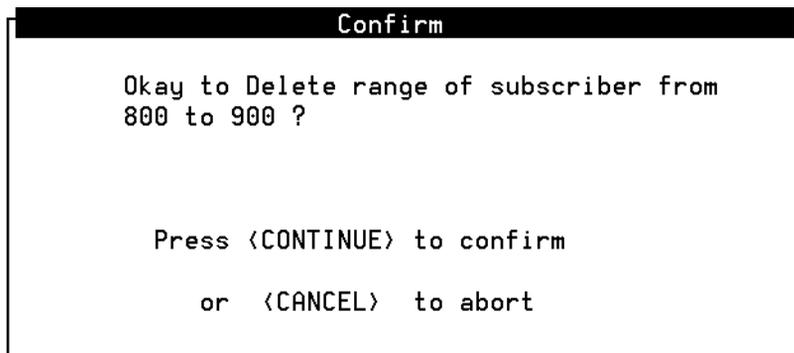


Figure 10-5. Delete Confirmation Window

4. Press **F3** (Continue) to delete the subscriber or subscribers from the selected managed element, or press **F2** (Cancel) to exit the Delete Subscriber window without removing the subscribers.

The system displays a progress report ([Figure 10-6](#)), showing the status of the Delete Subscriber request.

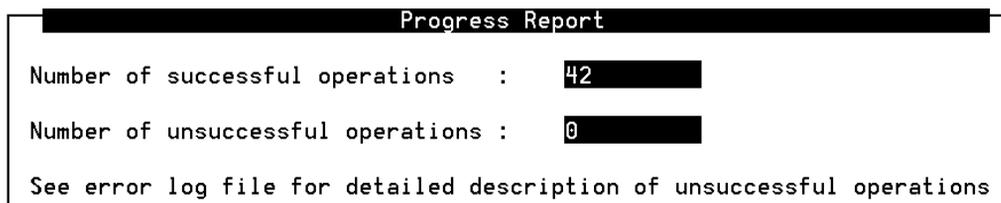


Figure 10-6. Progress Report

5. If any unsuccessful operations are displayed on the Progress Report, go to the log file for additional information. See "[View Log Files](#)" later in this chapter.

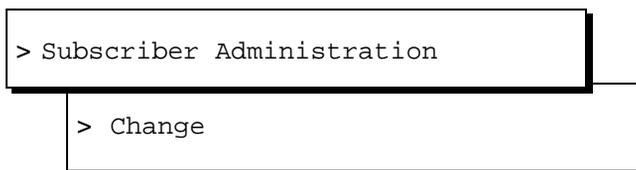
Changing Subscriber Data

To change subscriber, do the following:

⇒ NOTE:

If the COS value is blank, the COS parameters can be added or changed and the COS value is stored as "custom." If a COS value is specified, the COS parameters cannot be added or changed. As a result, Page 2 of the subscriber screen cannot be accessed. Any unchanged parameters retain the original values even though the fields appear as blanks.

1. Start at the Enterprise Administration menu and select



The page 1 of the Change Subscriber window appears ([Figure 10-7](#)). The Customer ID field is autopopulated.

Change Subscriber			
Customer ID	lucent-technol	Managed	Element Name
Mailbox extension from		To	
Name		Locked?	n
Class of Service		Password	
Switch Number	Miscellaneous		
Community ID	Covering Extension		
Secondary Ext.	Broadcast Mailbox?	n	

Figure 10-7. Change Subscriber, Page 1

2. Enter the name of the managed element, or press **F2** (Choices) for a list of managed elements.
3. Enter a value in the Mailbox extension from and To fields. To change data for a single subscriber, enter the same mailbox extension in the from and To fields.

The system displays the data for the subscriber(s) you have entered.

4. Modify the fields using the information in [Table 10-2](#).
5. Press **F7** (Nextpage).

⇒ NOTE:

If the COS value is blank, the COS parameters can be added or changed and the COS value is stored as "custom." If a COS value is specified, the COS parameters cannot be added or changed. As a result, Page 2 of the subscriber screen cannot be accessed. Any unchanged parameters retain the original values even though the fields appear as blanks.

The Page 2 of the Change Subscriber window appears ([Figure 10-8](#)).

Change Subscriber

Managed Element Name **puaudix** Customer ID **lucent-cb**

SUBSCRIBER CLASS OF SERVICE PARAMETERS

Addressing Format **T** Login Announcement Set **[REDACTED]**

System Multilingual is **[REDACTED]** Call Answer Primary Annc. Set **[REDACTED]**

Call Answer Language Choice? **[REDACTED]** Call Answer Secondary Annc. Set **[REDACTED]**

PERMISSIONS

Type [REDACTED]	Announcement Control? [REDACTED]	Outcalling? [REDACTED]
Priority Messages? [REDACTED]	Broadcast [REDACTED]	IMAPI Access? [REDACTED]
IMAPI Message Transfer [REDACTED]	Fax? [REDACTED]	Trusted Server Access [REDACTED]

INCOMING MAILBOX

Order [REDACTED]	Category Order [REDACTED]
Retention Times (days), New [REDACTED]	Old [REDACTED] Unopened [REDACTED]

OUTGOING MAILBOX

Order [REDACTED]	Category Order [REDACTED]
Retention Times(days), File Cab [REDACTED]	Delivered/Nondeliverable [REDACTED]

Voice Mail Message (seconds), Maximum Length **[REDACTED]** Minimum Needed **[REDACTED]**

Call Answer Message (seconds), Maximum Length **[REDACTED]** Minimum Needed **[REDACTED]**

End of Message Warning Time (seconds) **[REDACTED]**

Maximum Mailing Lists **[REDACTED]** Total Entries in all Lists **[REDACTED]**

Mailbox Size (seconds), Maximum **[REDACTED]** Minimum Guarantee **[REDACTED]**

Figure 10-8. Change Subscriber, Page 2

6. Modify the fields using the information in [Table 10-3](#).
7. Press **F3** (Continue) to save the information to the Enterprise Manager database.

The system displays a progress report ([Figure 10-6](#)), showing the status of the Change Subscriber request.

8. If any unsuccessful operations are displayed on the Progress Report, go to the log file for additional information. See ["View Log Files"](#) later in this chapter.

Moving Subscribers to Another Managed Element

The Move Subscriber Mailbox window allows you to move a single subscriber mailbox or a range of mailboxes from one managed element to another managed element. This capability provides a method to load balance subscribers on the managed elements in the Enterprise Manager network.

Requirements and Guidelines

The following requirements and guidelines apply to moving subscribers from one managed element to another.

- Digital networking must be established between the managed elements that are affected by the move request.

- Subscriber greeting and greeting maps (for example, which greeting should be used for out-of-hours, busy, ring no-answer) are moved.
- The subscriber voiced name is moved.
- If an incoming message contains multiple components when the message is moved, each of the components is a separate message. For example, a message contains a voice component and a fax component. When the message arrives on the target managed element, it is two messages: one voice message and one fax message. The header information (that is, time, date, sender, etc.) is the same for both messages.
- Outgoing mailbox information is not moved.
- If a move request is made and for some reason all subscriber information (that is, greetings and/or mailing lists) except the messages can be moved, the move request fails entirely. The source subscriber shall be restored back to its original state. See [“View Log Files”](#) for the reason for failure of the move request.
- If a subscriber list contains a member that is not recognized by the managed element to which the subscriber is being moved, the member does not get moved. The list is moved without that list member.
- If a subscriber is logged in the mailbox at the time the move request is made (that is, there is activity in the subscriber mailbox), the subscriber is not moved. To avoid this, change the mailbox password.

Procedure

To move subscriber mailboxes, do the following:

1. Start at the Enterprise Administration menu and select

```
> Subscriber Administration
```

```
> Move
```

The Move Subscriber Mailbox window appears ([Figure 10-9](#)).

Move Subscriber

Customer ID

From Managed Element Name

Mailbox from To

To Managed Element Name

Mailbox from To

Figure 10-9. Move Subscriber Mailbox

2. Complete the fields using the information in [Table 10-5](#).

Table 10-5. Move Subscriber Field Descriptions

Field	Description	Valid Input
Customer ID	The unique mnemonic identifier for the customer; this entry is populated automatically by the Enterprise Manager	N/A
From Managed Element Name	The name of the managed element where the subscriber(s) that you want to move currently reside	A valid managed element, or press F3 (Choices) to select from a list of managed elements
Mailbox from	The starting range for the mailbox extension or extensions you want to move	up to 10 digits
To	The ending range for the mailbox extension or extensions you want to move	up to 10 digits

Continued on next page

Table 10-5. Move Subscriber Field Descriptions — Continued

Field	Description	Valid Input
To Managed Element Name	The name of the managed element to which you want to move the subscriber(s)	A valid managed element, or press F2 (Choices) to select from a list of managed elements
Mailbox from	The starting range for the mailbox extension or extensions on the managed element where you want to subscribers to reside	up to 10 digits
To	The ending range for the mailbox extension or extensions on the managed element where you want to subscribers to reside	up to 10 digits

3. Press **F3** (Continue) to save the information to the Enterprise Manager database.

The system displays a progress report ([Figure 10-6](#)), showing the status of the Move Subscriber request

4. If any unsuccessful operations are displayed on the Progress Report, go to the log file for additional information. See "[View Log Files](#)" later in this chapter.

External Provisioning

The External Provisioning Administration window allows you to add, delete, change, and move subscribers using the INTUITY Enterprise Manager screen interface or the UNIX command line.

Creating the External Provisioning File

An External Provisioning (EPS) file must contain the following information:

NOTE:

The syntax rules for creating a EPS file must be followed. Otherwise, subscriber provisioning of an incorrectly formatted file will fail.

- The first line of the file should contain the customer ID and the managed element name, as an EPS file *cannot* contain requests for multiple managed elements. For example,

CUSTID : <customer_id>

- The second line of the file should contain the managed element name. For example,

MENAME : <managed_element_name>

- The third line of the file should contain the action to be performed. If the file is for bulk provisioning, multiple actions can be specified. For example,

— ADD
— CHG
— DEL
— MOV

- All requests in the file must be separated by a colon (:). If fields are not specified in the file, those fields assume the default values for that managed element.

NOTE:

If a field is using the default value, you must specify colon-space-colon in the format file. You may not place two colon together in the file.

- The line must be a continuous line of input.
- Use the pound sign (#) within the request file to include any comments about the contents of the file.
- A request file can contain blank lines.
- Each file can have multiple requests, but may only use one command (add, delete, change, or move).

[Table 10-6](#) details the EPS file formats for each of the actions requested for provisioning., where xxx contains a unique identifier for that file that contains characters and/or digits. It can represent the date, number of the files, etc.

Table 10-6. External Provisioning File Formats

Action	File Naming Convention
Add	add.xxx
Change	chg.xxx
Delete	del.xxx
Move	mov.xxx
Bulk administration	blk.xxx

External Provisioning File Format

The following shows the file formats for each request type. All values in these fields should follow the parameters specified under ["Subscriber Administration"](#).

ADD File

Format

CUSTID : < name of the customer>
 MENAME : < name of the managed element >
 ADD : < Extension>: < Subscriber Name >: <password>: < COS >: < Miscellaneous >: < Switch Location >: <Covering Extension>: < Community ID>:
 <Secondary Extension >: [< Addressing Format >: < Login Announcement Set>: < Call Answer Primary Announcement Set >: < Call Answer Secondary Announcement Set >: <Call Answer Language Choice >: < Mailbox Permissions>: <Announcement control>: < Outcalling >: < Priority >:
 <Broadcast>: < IMAPI Access >: < IMAPI Message Transfer >: <FAX Creation>:
 <Trusted Server Access >: < Incoming Mailbox Order>: < Incoming Category Order>: < Retention Times , New>: < Retention Times, Old>: < Retention Times, Unopened>: < Outgoing Mailbox Order >: < Outgoing Category Order >:
 <Retention times, File Cabinet>: <Retention Times, Delivered/Nondeliverable>:
 < Voice Mail Message, Maximum Length>: < Voice Mail Message, Minimum Length >: <Call Answer Message, Maximum Length>: < Call Answer Message, Minimum Length >: < End of Message Warning time (seconds) >: <Maximum Mailing Lists>: < Total entries in all Lists>: < Maximum Mailbox size> : <Minimum Guaranteed Space>]



NOTE:

If <COS> is specified, the values within the square braces "[]" should not be specified and vice versa.

Sample File

CUSTID : lucent-cb
MENAME : map40a
ADD : 9050 : Julia Ormond: 1: : 1: : : extension: System: System: System: n:
call-answer: n: n: y: none: y: y: y: fifo: nuo: 10: 10: 10: fifo: unfda: 10: 5: 300: 32
: 120: 8: : 25: 250: 1200: 0

DELETE File

Format

CUSTID : < name of the customer >
MENAME : < name of the managed element >
DEL : <extension>

Sample File

CUSTID : lucent-cb
MENAME : map40a
DEL : 801
DEL : 802
DEL : 803
DEL : 804

CHANGE File

Format

CUSTID : < name of the customer >
MENAME : < name of the managed element >
CHG : < Extension>: < Subscriber Name > : < COS >: < Miscellaneous : <
Switch Location >: <Covering Extension>: < Community ID>: <Secondary
Extension >: [< Addressing Format >: < Login Announcement Set >: < Call
Answer Primary Announcement Set >: < Call Answer Secondary Announcement
Set >: <Call Answer Language Choice >: < Mailbox Permissions> :
<Announcement control>: < Outcalling >: < Priority >: <Broadcast >: < IMAPI
Access >: < IMAPI Message Transfer >: < FAX Creation >: <Trusted Server
Access >: < Incoming Mailbox Order>: < Incoming Category Order>: <
Retention Times , New : < Retention Times, Old>: < Retention Times,
Unopened>: < Outgoing Mailbox Order >: < Outgoing Category Order >:
<Retention times, File Cabinet>: <Retention Times, Delivered/Nondeliverable>:
< Voice Mail Message, Maximum Length>: < Voice Mail Message, Minimum
Length >: <Call Answer Message, Maximum Length>: < Call Answer Message,

Minimum Length >: < End of Message Warning time (seconds) >: <Maximum Mailing Lists>: < Total entries in all Lists>: < Maximum Mailbox size>: <Minimum Guaranteed Space>]

⇒ NOTE:

If COS is specified the values within the square braces "[] " should not be specified and vice versa.

Sample File

CUSTID : lucent-cb
MENAME : map40a
CHG : 9050: Cathy Hilton: 1: 1: : : extension : System: System: System: n :
call-answer: n: n: y: none: y: y: y: fifo: nuo: 10: 10: 10: fifo: unfda: 105: 300: 32:
120: 8: : 25: 250: 1200: 0

MOVE File

Format

CUSTID : < name of customer>
MENAME : < name of the managed element >
MOV : <receiving managed element name>: < Extension>: < receiving Extension >: < Subscriber Name >: < COS >: < Miscellaneous >: < Switch Location >: <Covering Extension>: < Community ID>: <Secondary Extension >: [< Addressing Format >: < Login Announcement Set >: < Call Answer Primary Announcement Set >: < Call Answer Secondary Announcement Set >: <Call Answer Language Choice >: < Mailbox Permissions>: <Announcement control>: < Outcalling>: < Priority>: <Broadcast>: < IMAPI Access>: < IMAPI Message Transfer>: < FAX Creation>: <Trusted Server Access>: < Incoming Mailbox Order>: < Incoming Category Order : < Retention Times , New>: < Retention Times, Old>: < Retention Times, Unopened>: < Outgoing Mailbox Order >: < Outgoing Category Order >: <Retention times, File Cabinet>: <Retention Times, Delivered/Nondeliverable>: < Voice Mail Message, Maximum Length>: < Voice Mail Message, Minimum Length >: <Call Answer Message, Maximum Length>: < Call Answer Message, Minimum Length >: < End of Message Warning time (seconds) >: <Maximum Mailing Lists>: < Total entries in all Lists>: < Maximum Mailbox size>: <Minimum Guaranteed Space>]

⇒ NOTE:

If COS is specified the values within the square braces "[] " should not be specified and vice versa.

Bulk File

Format



NOTE:

Use the Add, Delete, Change, and Move formats described above for *Action*.

CUSTID : < name of customer >

MENAME : < name of the managed element >

Action :

Action:

etc.

Sample File

CUSTID : lucent-cb

MENAME : map40a

ADD : 9050 : Julia Ormond: 1: : : 1: : : : extension: System: System: System: n :
call-answer: n: n: y: none: y: y: y: y: fifo: nuo: 10: 10: 10: fifo: unfda: 10: 5: 300: 32
: 120: 8: : 25: 250: 1200: 0

CHG : 9050: Cathy Hilton: 1: 1: : : :extension : System: System: System: n :
call-answer: n: n: y: none: y: y: y: y: fifo: nuo: 10: 10: 10: fifo: unfda: 105: 300: 32:
120: 8: : 25: 250: 1200: 0

DEL : 801

DEL : 802

DEL : 803

DEL : 804

Transferring Files to the Enterprise Manager

The file transfer protocol (FTP) is a user interface used to transfer files to the Enterprise Manager. To transfer the formatted subscriber files to the Enterprise Manager for provisioning, do the following:

1. Access your FTP application.
2. Connect to the Enterprise Manager using the tsc login and password.
3. Access the **/EMdpm/customer/<customer ID>/** directory, where *<customer ID>* is the customer ID for this Enterprise Manager.
4. Enter **cd <directory>** where *<directory>* is one of the following:
 - **automatic** — The bulk provisioning process accesses this directory every 6 hours to process the provisioning files that reside in that directory.
 - **schedule** — The user should go to the screen interface to schedule the provisioning request.

5. Exit the FTP program.

⇒ NOTE:

After a file is scheduled, the name of the file is changed to **<action>.sched.<xxx>**, where **<action>** is the action to be performed and **<xxx>** is the 3-character suffix for the file name (for example, **mov.sched.xxx**). Upon completion of this request, the file is moved to **/EMdpm/customer/<customerID>/done**.

Performing External Provisioning

Using the Screen Interface

To perform subscriber provisioning using the Enterprise Manager screen interface, do the following

1. Start at the Enterprise Administration menu and select

```
> Subscriber Administration
```

```
> External Provisioning
```

The External Provisioning menu appears ([Figure 10-10](#)).

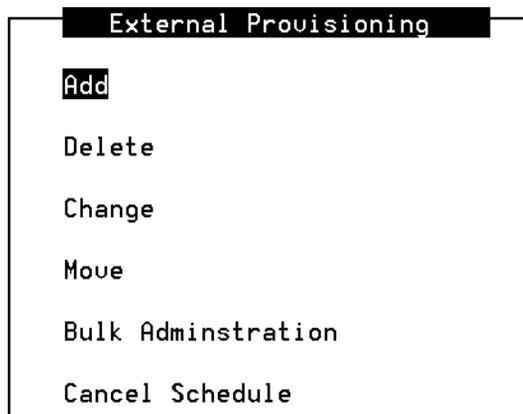


Figure 10-10. External Provisioning Menu

2. Select an action (Add, Delete, Change, Move, or Bulk Administration).

The External Provisioning Schedule window appears ([Figure 10-11](#)).



NOTE:

The prefix of `File Name` is determined by the action selected in Step 2.

Figure 10-11. External Provisioning Schedule Window

3. Enter the 3-character or digit suffix after the `File Name` prefix (for example, `mov.ftp`), or press **F2** (Choices) to select from a list of available file names. This file should have been placed in the `/EMdpm/customer/<customerID>/schedule/` directory using FTP.
4. Enter the date and time when you want this file provisioned, where `Date` is in the form `mm/dd/yyyy` and `Time` is in the form `hh` and `mm`, using a 24-hour clock. The date and time must be entered.



NOTE:

If the current date and time is specified, press **ENTER** when the confirmation window appears. The file will be provisioned using the local date and time of the Enterprise Manager system.

5. Press **F3** (Save) to schedule the file for provisioning.

The system displays confirmation window that the request was scheduled.



NOTE:

After a file is scheduled, the name of the file is changed to `<action>.sched.<xxx>`, where `<action>` is the action to be performed and `<xxx>` is the 3-character suffix for the file name (for example, `mov.sched.xxx`). Upon completion of this request, the file is moved to `/EMdpm/customer/<customerID>/done`.



NOTE:

If the customer ID or managed element name is incorrect, the file remains in the `/scheduled` directory in the format `<action>.sched.<xxx>`. The file must be changed to reflect the proper customer ID and/or managed element name. Then the file must be renamed to `<action>.xxx`.

Using the Command Line

The INTUITY Enterprise Manager allows you to provision subscribers on specified managed elements using a command line interface for individual subscribers and for bulk administration.

add_sub

- Bulk file administration (See [“External Provisioning File Format”](#) for the file format.)

add_sub -f <filename> -c <customerID>

- Command line (See [Table 10-7](#) for options.)

add_sub -me <mename> -c <custid> -s <start_ext> -e <end_ext> [-na <name>] [-swn <switch_num>] [-ms <misc>] [-sxt <sec_ext>] [-ce <cover_ext>] [-af <addr_format>] [-ac <annc_ctrl>] [-oc <outcalling>] [-imo <in_mbox_ord>] [-nrt <new_msg_retn_time>] [-ort <old_msg_retn_time>] [-urt <unopened_msg_retn_time>] [-omo <out_mbox_ord>] [-ftr <file_cab_retn_time>] [-mrt <delivered_msg_retn_time>] [-mavm <max_vm_len>] [-mivm <min_vm_len>] [-mml <max_msg_len>] [-mnl <max_num_lists>] [-mal <max_mail_lists>] [-mbl <max_mbox_per_list>] [-mms <max_mbox_size>] [-mis <min_mbox_size>] [-l <locked>] [-cid <community_id>] [-pm <priority_msgs>] [-emw <eom_warn_time>] [-clc <ca_lang_choice>] [-las <login_annc_set>] [-cpa <ca_pri_annc_set>] [-csa <ca_sec_annc_set>] [-ia <imapi_auth>] [-ift <imapi_msg_xfer>] [-fe <fax_enable>] [-macm <max_ca_msg_len>] [-micm <min_ca_msg_len>] [-cao <category_out>] [-cai <category_in>] [-mbp <mbox_perm>] [-bm <broad_msg>] [-fa <fax_auth>] [-ta <ts_auth>]

del_sub

- Bulk file administration (See [“External Provisioning File Format”](#) for the file format.)

del_sub -f <filename> -c <customerID>

- Command line

del_sub -c <custid> -me <mename> -s <start_ext> -e <end_ext>

chg_sub

- Bulk file administration (See [“External Provisioning File Format”](#) for the file format.)

chg_sub -f <filename> -c <customerID>

- Command line (See [Table 10-7](#) for options.)

chg_sub -c <custid> -me <mename> -s <start_ext> -e <end_ext> -cos <class_svc> [-na <name>] [-swn <switch_num>] [-ms <misc>] [-sxt <sec_ext>] [-ce <cover_ext>]

```
chg_sub -me <mename> -c <custid> -s <start_ext> -e <end_ext> [-na
<name>] [-swn <switch_num>] [-ms <misc>] [-sxt <sec_ext>] [-ce
<cover_ext>] [-af <addr_format>] [-ac <annc_ctrl>] [-oc <outcalling>]
[-imo <in_mbox_ord>] [-nrt <new_msg_retn_time>] [-ort <old_msg_retn_
time>] [-urt <unopened_msg_retn_time>] [-omo <out_mbox_ord>] [-frt
<file_cab_retn_time>] [-mrt <delivered_msg_retn_time>] [-mavm <max_
vm_len>] [-mivm <min_vm_len>] [-mml <max_msg_len>] [-mnl <max_
num_lists>] [-mal <max_mail_lists>] [-mbl <max_mbox_per_list>] [-mms
<max_mbox_size>] [-mis <min_mbox_size>] [-l <locked>] [-cid
<community_id>] [-pm <priority_msgs>] [-emw <eom_warn_time>] [-clc
<ca_lang_choice>] [-las <login_annc_set>] [-cpa <ca_pri_annc_set>]
[-csa <ca_sec_annc_set>] [-ia <imapi_auth>] [-ift <imapi_msg_xfer>] [-fe
<fax_enable>] [-macm <max_ca_msg_len>] [-micm <min_ca_msg_len>]
[-cao <category_out>] [-cai <category_in>] [-mbp <mbox_perm>] [-bm
<broad_msg>] [-fa <fax_auth>] [-ta <ts_auth>]
```

mov_sub

- Bulk file administration (See [“External Provisioning File Format”](#) for the file format.)

mov_sub -f <filename> -c <customerID>

- Command line (See [Table 10-7](#) for options.)

```
mov_sub -me <mename> -c <custid> -s <start_ext> -e <end_ext> -nme
<destination mename> -ns <start_ext> -ne <end_ext> [-na <name>]
[-swn <switch_num>] [-ms <misc>] [-sxt <sec_ext>] [-ce <cover_ext>]
[-af <addr_format>] [-ac <annc_ctrl>] [-oc <outcalling>] [-imo <in_mbox_
ord>] [-nrt <new_msg_retn_time>] [-ort <old_msg_retn_time>] [-urt
<unopened_msg_retn_time>] [-omo <out_mbox_ord>] [-frt <file_cab_
retn_time>] [-mrt <delivered_msg_retn_time>] [-mavm <max_vm_len>]
[-mivm <min_vm_len>] [-mml <max_msg_len>] [-mnl <max_num_lists>]
[-mal <max_mail_lists>] [-mbl <max_mbox_per_list>] [-mms <max_
mbox_size>] [-mis <min_mbox_size>] [-l <locked>] [-cid <community_
id>] [-pm <priority_msgs>] [-emw <eom_warn_time>] [-clc <ca_lang_
choice>] [-las <login_annc_set>] [-cpa <ca_pri_annc_set>] [-csa <ca_
sec_annc_set>] [-ia <imapi_auth>] [-ift <imapi_msg_xfer>] [-fe <fax_
enable>] [-macm <max_ca_msg_len>] [-micm <min_ca_msg_len>] [-cao
<category_out>] [-cai <category_in>] [-mbp <mbox_perm>] [-bm
<broad_msg>] [-fa <fax_auth>] [-ta <ts_auth>]
```

blk_sub

- Bulk file administration (See [“External Provisioning File Format”](#) for the file format.)

blk_sub -f <filename> -c <customerID>

Table 10-7. Command Line Provisioning Options

Option	Contents
-c	Customer ID
-me	Managed Element Name
-s	Starting Extension (3–10 digits)
-e	Ending Extension (3–10 digits)
-na	Name (1–29 chars)
-pw	Password (0–15 digits, not 111/123/ext)
-ms	Miscellaneous (1–11 characters)
-swn	Switch Location number (0–20, or blank)
-ce	Covering Extension (3–10 digits, or blank)
-sxt	Secondary Extension (3–10 digits, or blank)
-af	Addressing Format (extension or name)
-las	Login Announcement (blank, System, system, 1-14 ann. set name)
-cpa	CA Primary (blank, System, system, 1-14 ann. set name)
-csa	CA Secondary (blank, System, system, 1-14 ann. set name)
-clc	CA Language Choice (y or n)
-mbp	MBOX Type (auto-attendant, bulletin-board, call-answer, none)
-ac	Announcement Control (y or n)
-oc	Outcalling Authorization (y or n)
-pm	Priority Messages (y or n)
-bm	Broadcast Authorization (voice, login, both, none)
-ia	IMAPI access (y or n)
-ift	IMAPI Msg transfer (y or n)
-fa	FAX Creation (y or n)
-ta	Truster Server (y or n)
-im	Incoming mailbox order (lifo, fifo)
-cai	Incoming mailbox category order (n/u/o any order)

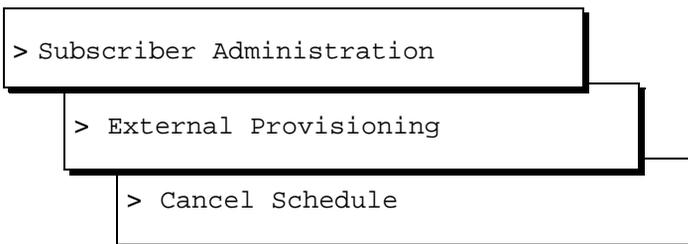
Table 10-7. Command Line Provisioning Options

Option	Contents
-nrt	Incoming mailbox new retention times (0–999 days)
-ort	Incoming mailbox old retention times (0–999 days)
-urt	Incoming mailbox unopened retention times (0–999 days)
-omo	Outgoing mailbox order (lifo, fifo)
-cao	Outgoing mailbox category order (f/u/n/d/a — any order)
-frt	Outgoing mailbox file cabinet retention times (0–999 days)
-mrt	Outgoing mailbox del/non-del retention times (0–999 days)
-mavm	Max VM message length (0–1200)
-mivm	Min VM message length (0–1200)
-macm	Max CA message length (0–1200)
-micm	Min CA message length (0–1200)
-emw	End of message warning time (blank, 0, 15–60)
-mal	Maximum Mailing Lists (0–999)
-mbl	Total mailing list entries (0–9999)
-mms	Max mailbox size (0–32767)
-mis	Minimum Guarantee (0–9999)

Canceling a Scheduled Provisioning Request

You may cancel a provisioning request that you have scheduled.

1. Start at the Enterprise Administration menu and select



The Cancel Scheduled Entries for Subscriber Provisioning appears ([Figure 10-12](#)).

Scheduled Entries for External Provisioning	
Customer Operation	Filename & Schedule
[Redacted]	

Figure 10-12. Cancel Scheduled Entries for Subscriber Provisioning

2. Select an entry from the list and press **ENTER**.
3. Confirm the cancellation request.

View Log Files

⇒ NOTE:

The log files are located in **/EMdpm/customer/<customerID>/response** directory. All files in this directory older than three days are removed. If you want to save any of these files, transfer the required files from the Enterprise Manager using **ftp**.

To view current subscriber provisioning log files, do the following:

1. Start at the Enterprise Administration menu and select

```
> Subscriber Administration
```

```
> View Log Files
```

The List of Log Files window appears ([Figure 10-13](#)).

List of Log Files		
del_map40a_5000_9999.log	03:57	Mar 6
add_map40a_7000_8000.log	03:01	Mar 6
add_map40a_6000_7000.log	02:56	Mar 6
del_map40a_5001_8000.log	02:52	Mar 6
chg_map40a_5000_5500.log	02:43	Mar 6
add_map40a_0000_0000.log	02:36	Mar 6
add_map40a_0000_0002.log	02:33	Mar 6
add_map40a_5000_5002.log	02:29	Mar 6
del_map40a_5001_5002.log	01:45	Mar 6
add_map40a_5001_5001.log	01:44	Mar 6

Figure 10-13. List of Log Files

2. Select an entry from the list and press **(ENTER)**.

The system displays a log file similar to [Figure 10-14](#).

Subscriber Provisioning Logs

```

Fri Mar 6 02:39:54
Managed Element Name : map40a
-----
Fri Mar 6 02:39:56
Subscriber : 7000 successfully added
-----
Fri Mar 6 02:39:58
Subscriber : 7001 successfully added
-----
Fri Mar 6 02:39:59
Subscriber : 7002 successfully added
-----
Fri Mar 6 02:40:00
Subscriber : 7003 successfully added
-----
Fri Mar 6 02:40:01
Subscriber : 7004 successfully added
-----
    
```

Figure 10-14. Subscriber Provisioning Logs

The Log file contains the following fields.

- Date and time — This field is in the format: 3-character day, 3-character month, 2-digit day, and 2-digit hour, minute, and seconds, using a 24-hour clock.
- Managed element name — The name of the managed element to which the provisioning request was made.
- Status of the provisioning request — This field indicates whether the provisioning requests were successful. Note that for each request in a file, a separate entry is made in the log to indicate success or failure. Refer to [“Corrective Actions”](#) below in case of provisioning failure.

3. Press **F6** (Cancel) to exit the log file.

Corrective Actions

[Table 10-8](#) provides the corrective actions to performed in case a failure occurs during subscriber provisioning.

Table 10-8. Subscriber Provisioning Corrective Actions

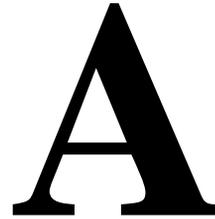
No	Error Message	Action Type	Possible Causes	Corrective Action
1	Access blocked. Access to the object specified has been blocked due to insufficient resource availability or AUDIX Administration permissions.	ADD/DEL MOV/CHG	IMAPI Login and/or password are incorrect	Enter correct login and/or password
			Trusted server login and/or password are incorrect	Enter correct login and/or password
			TCP/IP admin feature not set to ON or No ports are assigned	Set the feature using su -init or through Vex
			No Trusted server permissions assigned to subscriber	Give correct permissions
			No IMAPI permissions assigned to subscriber	Give correct permissions
			The EM machine is not configured as trusted server on the managed element	Configure EM machine as trusted server
2	The specified user name is not unique on the local AUDIX system	ADD/DEL MOV/CHG	Duplicate user name given	Change the user name to one not existing on the AUDIX system.
3	The specified user TouchTone name is not unique on the local AUDIX system	ADD/DEL MOV/CHG	Duplicate user TouchTone name. For example, if the user TT name is KOO (566) then JMN (also 566) would cause this error	Change the user name to have unique TouchTone identity.
4	No entry was found for the search specified	DEL/MOV CHG	The extension or secondary extension is not within the valid administered range	Specify the correct extension

Continued on next page

Table 10-8. Subscriber Provisioning Corrective Actions — Continued

No	Error Message	Action Type	Possible Causes	Corrective Action
5	Insufficient system resources to complete the request, try again later.	ADD/DEL MOV/CHG	All ports are currently occupied	Wait until previous subscriber provisioning requests have completed
6	There was insufficient space on the AUDIX system to complete the requested action.	ADD/DEL MOV/CHG	The configured subscriber range is exhausted	Increase range to accommodate new subscribers
7	Argument specified is out of range	ADD/DEL MOV/CHG	One of the COS parameters specified has a value that is out of the valid range	Check for valid values
8	AN Audix internal error was detected	ADD/DEL MOV/CHG	Wrong IMAPI and/or Trusted server password	Enter correct IMAPI and/or trusted server passwords
			Tried to perform a request type when subscriber was already logged in	Ensure that there are no subscribers logged in before performing the request
9	The specified extension is not unique on the local AUDIX system	ADD/DEL MOV/CHG	The subscriber extension already exists	Give unique subscriber and secondary extensions
			Secondary extension already specified	
10	Invalid COS value specified. Either of them needs to be specified	ADD/DEL MOV/CHG [Using File Format only]	Both COS value and COS parameters are specified	Only one of them to be specified

Database Schema



Overview

This appendix provides the database structure for the INTUITY Enterprise Manager. It provides the output format for each Enterprise Manager table as well as the reference to the related command in *AUDIX® Administration and Data Acquisition Package*, 585-302-502.

Purpose

The purpose of this appendix is to provide information on the database structure. This appendix should be used in conjunction with Chapter 12, "Command Line Database Retrieval Commands," of *AUDIX® Administration and Data Acquisition Package*, 585-302-502.



NOTE:

Database structures that begin with NMOD are provided for on-demand data collection.

Table Structure

Each command uses a standard data format. Each table row describes the following field characteristics:

- Seq. No. — Sequence of the fields within the record
- Field Name — Identifies the name of the field
- Type — Identifies the field type:
 - C for character
 - N for numeric
 - D for date



NOTE:

The field types T (time), K (digit sequence), and L (logical) described in *AUDIX® Administration and Data Acquisition Package*, 585-302-502, are NOT used in the Enterprise Manager database. Some related commands in the ADAP book use these field types.

- Max. Width — Largest size of the field, in number of characters or numbers. If the Max Width contains 2 numbers separated by a comma, this indicates that the numeric field contains a decimal point. This first value is the total number of digits including the decimal digits and the second value is the number of digits following the decimal point. For example, the value for Max Width is 2,1, this represents a value such as 3.7 or 9.0.

NMgetaalar

Gets the Enterprise Manager active alarm list

Data Format

Table A-1. NMgetaalar

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dclarrestyp	Resource type	C	10
6	dclarlocation	Location	C	11
7	dclaralrlevel	Alarm level	C	3
8	dnlarfaulcode	Fault/alarm code	N	4
9	dclaracknow	Acknowledge	C	1
10	ddlardataalr	Date alarmed	D	8
11	dclartime	Time alarmed	C	4
12	ddlarresolved	Date resolved	D	8
13	dclartimeres	Time resolved	C	4
14	dclarresreason	Resolve reason	C	6
15	dclarapplication	Application	C	2

Reference

getaalar

NMgetalogp

Get activity log data

Data Format

Table A-2. NMgetalogp

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcogpactlogenb	Activity log enabled	C	1
6	dcogprecMWIup	recording MWI updates	C	1
7	dnogpmaxactlog	Max number of activity log entries	N	5

Reference

getalogp

NMgetatt

Get attendant list

Data Format

Table A-3. NMgetatt

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcattendext	Attendant extension	C	10
6	dcattname	Name	C	29

Reference

getatt

NMgetcomm

Get community measurement data (by days)

Data Format

Table A-4. NMgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddommstadate	Starting date	D	8
6	dcommendtime	Ending time	C	4
7	dnommvmsndcom1	VM messages sent by comm 1	N	7
8	dnommvmrcvcom1	VM messages received by comm 1	N	7
9	dnommvmnotsndcom1	VM messages not sent by comm 1	N	7
10	dnommvmnotrcvcom1	VM messages not received by comm 1	N	7
11	dnommvmsndcom2	VM messages sent by comm 2	N	7
12	dnommvmrcvcom2	VM messages received by comm 2	N	7
13	dnommvmnotsndcom2	VM messages not sent by comm 2	N	7
14	dnommvmnotrcvcom2	VM messages not received by comm 2	N	7
15	dnommvmsndcom3	VM messages sent by comm 3	N	7
16	dnommvmrcvcom3	VM messages received by comm 3	N	7

Continued on next page

Table A-4. NMgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnommvnnotsndcom3	VM messages not sent by comm 3	N	7
18	dnommvnnotrcvcom3	VM messages not received by comm 3	N	7
19	dnommvmsndcom4	VM messages sent by comm 4	N	7
20	dnommvnrcvcom4	VM messages received by comm 4	N	7
21	dnommvnnotsndcom4	VM messages not sent by comm 4	N	7
22	dnommvnnotrcvcom4	VM messages not received by comm 4	N	7
23	dnommvmsndcom5	VM messages sent by comm 5	N	7
24	dnommvnrcvcom5	VM messages received by comm 5	N	7
25	dnommvnnotsndcom5	VM messages not sent by comm 5	N	7
26	dnommvnnotrcvcom5	VM messages not received by comm 5	N	7
27	dnommvmsndcom6	VM messages sent by comm 6	N	7
28	dnommvnrcvcom6	VM messages received by comm 6	N	7
29	dnommvnnotsndcom6	VM messages not sent by comm 6	N	7
30	dnommvnnotrcvcom6	VM messages not received by comm 6	N	7
31	dnommvmsndcom7	VM messages sent by comm 7	N	7
32	dnommvnrcvcom7	VM messages received by comm 7	N	7
33	dnommvnnotsndcom7	VM messages not sent by comm 7	N	7
34	dnommvnnotrcvcom7	VM messages not received by comm 7	N	7

Continued on next page

Table A-4. NMgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnommvmsndcom8	VM messages sent by comm 8	N	7
36	dnommvmsrcvcom8	VM messages received by comm 8	N	7
37	dnommvmsnotsndcom8	VM messages not sent by comm 8	N	7
38	dnommvmsnotrcvcom8	VM messages not received by comm 8	N	7
39	dnommvmsndcom9	VM messages sent by comm 9	N	7
40	dnommvmsrcvcom9	VM messages received by comm 9	N	7
41	dnommvmsnotsndcom9	VM messages not sent by comm 9	N	7
42	dnommvmsnotrcvcom9	VM messages not received by comm 9	N	7
43	dnommvmsndcom10	VM messages sent by comm 10	N	7
44	dnommvmsrcvcom10	VM messages received by comm 10	N	7
45	dnommvmsnotsndcom10	VM messages not sent by comm 10	N	7
46	dnommvmsnotrcvcom10	VM messages not received by comm 10	N	7
47	dnommvmsndcom11	VM messages sent by comm 11	N	7
48	dnommvmsrcvcom11	VM messages received by comm 11	N	7
49	dnommvmsnotsndcom11	VM messages not sent by comm 11	N	7
50	dnommvmsnotrcvcom11	VM messages not received by comm 11	N	7
51	dnommvmsndcom12	VM messages sent by comm 12	N	7
52	dnommvmsrcvcom12	VM messages received by comm 12	N	7

Continued on next page

Table A-4. NMgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
53	dnommmvnotsndcom12	VM messages not sent by comm 12	N	7
54	dnommmvnotrvcvcom12	VM messages not received by comm 12	N	7
55	dnommmvmsndcom13	VM messages sent by comm 13	N	7
56	dnommmvmrcvcom13	VM messages received by comm 13	N	7
57	dnommmvnotsndcom13	VM messages not sent by comm 13	N	7
58	dnommmvnotrvcvcom13	VM messages not received by comm 13	N	7
59	dnommmvmsndcom14	VM messages sent by comm 14	N	7
60	dnommmvmrcvcom14	VM messages received by comm 14	N	7
61	dnommmvnotsndcom14	VM messages not sent by comm 14	N	7
62	dnommmvnotrvcvcom14	VM messages not received by comm 14	N	7
63	dnommmvmsndcom15	VM messages sent by comm 15	N	7
64	dnommmvmrcvcom15	VM messages received by comm 15	N	7
65	dnommmvnotsndcom15	VM messages not sent by comm 15	N	7
66	dnommmvnotrvcvcom15	VM messages not received by comm 15	N	7

Reference

getcomm

NMgetcos

Get class of service data

Data Format

Table A-5. NMgetcos

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dccosclsofser	Class of service	C	8
6	dccosmodified	Modified	C	1
7	dccosaddformat	Addressing format	C	9
8	dccoscaperm	CA permissions	C	14
9	dccosannoctl	Announcement control	C	1
10	dccosinmillifo	Incoming mailbox LIFO/FIFO	C	4
11	dccosinmilorder	Incoming mailbox order	C	3
12	dncosnewrettime	New retention time	N	3
13	dncosoldrettime	Old retention time	N	3
14	dncosunoprettime	Unopened retention time	N	3
15	dccosoutmillifo	Outgoing mailbox LIFO/FIFO	C	4
16	dccosoutmilorder	Outgoing mailbox order	C	5
17	dncosfilcanrettime	File cabinet retention time	N	3
18	dncosdelrettime	Del/non del retention time	N	3
19	dncosmaxvmsglen	Max VM message length	N	4
20	dncosminvmspreq	Min VM space required	N	4
21	dncosmaxcamsglen	Max CA message length	N	4
22	dncosmincaspreq	Min CA space required	N	4

Continued on next page

Table A-5. NMgetcos — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dncosmaxnomillis	Max number of mailing lists	N	3
24	dncosmaxtotmilent	Max total mailing list entries	N	5
25	dncosmaxmilsize	Max mailbox size	N	5
26	dncosguaspace	Guaranteed space	N	4
27	dccosoutcall	Outcalling	C	1
28	dccosprimsg	Priority messages	C	1
29	dccosbroadperm	Broadcast permissions	C	5
30	dncosendmsgwartm	End-of-message warning time	N	2
31	dccoscalngchoice	CA language choice	C	1
32	dccoslogancset	Login announcement set	C	14
33	dccoscapryancset	CA primary announcement set	C	14
34	dccoscassecancset	CA secondary announcement set	C	14
35	dccosimapiacc	IMAPI access	C	1
36	dccosimapivctnf	IMAPI voice mail/message transfer	C	1
37	dccosfax	FAX	C	1
38	dccostruseraccess	Trusted server access	C	1
39	dnderivedcosnumber	Class of service number	N	3

Reference

getcos

NMgetdir

Get local extension list

Data Format

Table A-6. NMgetdir

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcdirext	Extension	C	10
6	dcdirname	Name	C	29

Reference

getdir

NMgetfeat

Get traffic measurement data (by days)

Data Format

Table A-7. NMgetfeat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddeatstrdate	Starting date	D	8
6	dceatendtime	Ending time	C	4
7	dneatavgnumpose	Max of hourly average number of ports in use	N	3,1
8	dneatlocasub	Local subscribers	N	6
9	dneatvmsuclogext	VM successful logins, external	N	8
10	dneatvmsuclogint	VM successful logins, internal	N	8
11	dneatvmfaillogext	VM failed logins, external	N	8
12	dneatvmfaillogint	VM failed logins, internal	N	8
13	dneatvmsesusage	VM session usage	N	8
14	dneatvmtotmsgsent	VM total messages, sent	N	10
15	dneatvmtotmsgdel	VM total messages, deleted	N	5
16	dneatvmtotmsgcur	VM total messages, current	N	19
17	dneatvmavgstotm	VM average storage time	N	8
18	dneatvmavgcontm	VM average connect time	N	6
19	dneatcacomcalext	CA completed calls, external	N	8
20	dneatcacomcalint	CA completed calls, internal	N	8

Continued on next page

Table A-7. NMgetfeat

Seq. No.	Data Field	Field Description	Type	Max. Width
21	dneatcaabacalex	CA abandoned calls, external	N	8
22	dneatcaabacalint	CA abandoned calls, internal	N	8
23	dneatcasesusg	CA session usage	N	8
24	dneatcamsgrec	CA messages, received	N	10
25	dneatcamsgdel	CA messages, deleted	N	5
26	dneatcamsgcur	CA messages, current	N	19
27	dneatcaavgsttm	CA average storage time	N	8
28	dneatcaavgcontm	CA average connect time	N	6
29	dneatrmbsubscr	Remote subscribers	N	8
30	dneatnonadmrmtsub	Non-administered remote subscribers	N	8
31	dneatvmbromsgsnt	VM broadcast messages, sent	N	10
32	dneatvmbromsgcur	VM broadcast messages, current	N	19
33	dneatvmlogannsnt	VM login announcements, sent	N	10
34	dneatvmloganncur	VM login announcements, current	N	19
35	dneatvmprimsgsnt	VM priority messages, sent	N	10
36	dneatvmprimsgcur	VM priority messages, current	N	19
37	dneatvmprvmsgsnt	VM private messages, sent	N	10
38	dneatvmprvmsgcur	VM private messages, current	N	19

Reference

getfeat

NMgetlimit

Get system parameter limits

Data Format

Table A-8. NMgetlimit

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dnmitrecnamfesz	Recommended names FS size	N	9
6	dnmitminmsglen	Min message length	N	2
7	dnmitmaxlocsub	Max local subscribers	N	6
8	dnmittotlisent	Total list entries	N	6
9	dnmitlispersub	Lists per subscriber	N	3
10	dnmitreciperlis	Recipients per list	N	3
11	dnmitmaxerrlogent	Max error log entries	N	5
12	dnmittotmsgallmbx	Total messages in all mailboxes	N	6
13	dnmittotmsgawadel	Total messages awaiting delivery	N	6
14	dnmitmaxmsglen	Max message length	N	4
15	dnmitrecsysdafesz	Recommended system data FS size	N	9
16	dnmitrecvocdafesz	Recommended voice data FS size	N	9
17	dnmitrecsysstfesz	Recommended system status FS size	N	9

Continued on next page

Table A-8. NMgetlimit — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnmitmaxadmremsub	Max admin remote subscribers	N	8
19	dnmitmaxadmlogent	Max admin log entries	N	5
20	dnmitmaxactlogent	Max activity log entries	N	5

Reference

getlimit

NMgetlist

Get list subscribers

Data Format

Table A-9. NMgetlist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcistsubname	Subscriber name	C	29
6	dcistextension	Extension	C	10
7	dcistclaofserv	Class of service	C	8
8	dcistmisc	Miscellaneous	C	11

Reference

getlist

NMgetload

Get load measurement lists (by days)

Data Format

Table A-10. NMgetload

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddoadstdate	Starting date	D	8
6	dcoadendtime	Ending time	C	4
7	dnoadsubthrlisex	Subscriber threshold list exceptions	N	5
8	dnoadsubthrlsspex	Subscriber threshold list space exceptions	N	5
9	dnoadsublwmsgspex	Subscriber lower message space exceptions	N	5
10	dnoadsubupmsgspex	Subscriber upper message space exceptions	N	5
11	dnoadsubtotsubovt	Total subscribers over threshold	N	19
12	dnoaddelresch	Deliveries rescheduled	N	8
13	dnoadmaxsimport	Maximum simultaneous ports	N	3
14	dnoadmaxvoxtxtuse	Maximum voice text used	N	9
15	dnoadminvoxtxfus	Minimum voice text free space	N	9
16	dnoadpt1usginsec	Port 1 usage in seconds	N	6
17	dnoadpt2usginsec	Port 2 usage in seconds	N	6
18	dnoadpt3usginsec	Port 3 usage in seconds	N	6

Continued on next page

Table A-10. NMgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
19	dnoadpt4usginsec	Port 4 usage in seconds	N	6
20	dnoadpt5usginsec	Port 5 usage in seconds	N	6
21	dnoadpt6usginsec	Port 6 usage in seconds	N	6
22	dnoadpt7usginsec	Port 7 usage in seconds	N	6
23	dnoadpt8usginsec	Port 8 usage in seconds	N	6
24	dnoadpt9usginsec	Port 9 usage in seconds	N	6
25	dnoadpt10usginsec	Port 10 usage in seconds	N	6
26	dnoadpt11usginsec	Port 11 usage in seconds	N	6
27	dnoadpt12usginsec	Port 12 usage in seconds	N	6
28	dnoadpt13usginsec	Port 13 usage in seconds	N	6
29	dnoadpt14usginsec	Port 14 usage in seconds	N	6
30	dnoadpt15usginsec	Port 15 usage in seconds	N	6
31	dnoadpt16usginsec	Port 16 usage in seconds	N	6
32	dnoadpt17usginsec	Port 17 usage in seconds	N	6
33	dnoadpt18usginsec	Port 18 usage in seconds	N	6
34	dnoadpt19usginsec	Port 19 usage in seconds	N	6
35	dnoadpt20usginsec	Port 20 usage in seconds	N	6
36	dnoadpt21usginsec	Port 21 usage in seconds	N	6
37	dnoadpt22usginsec	Port 22 usage in seconds	N	6
38	dnoadpt23usginsec	Port 23 usage in seconds	N	6
39	dnoadpt24usginsec	Port 24 usage in seconds	N	6
40	dnoadpt25usginsec	Port 25 usage in seconds	N	6
41	dnoadpt26usginsec	Port 26 usage in seconds	N	6
42	dnoadpt27usginsec	Port 27 usage in seconds	N	6
43	dnoadpt28usginsec	Port 28 usage in seconds	N	6
44	dnoadpt29usginsec	Port 29 usage in seconds	N	6
45	dnoadpt30usginsec	Port 30 usage in seconds	N	6
46	dnoadpt31usginsec	Port 31 usage in seconds	N	6

Continued on next page

Table A-10. NMgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
47	dnoadpt32usginsec	Port 32 usage in seconds	N	6
48	dnoadpt1pegcnt	Port 1 peg count	N	6
49	dnoadpt2pegcnt	Port 2 peg count	N	6
50	dnoadpt3pegcnt	Port 3 peg count	N	6
51	dnoadpt4pegcnt	Port 4 peg count	N	6
52	dnoadpt5pegcnt	Port 5 peg count	N	6
53	dnoadpt6pegcnt	Port 6 peg count	N	6
54	dnoadpt7pegcnt	Port 7 peg count	N	6
55	dnoadpt8pegcnt	Port 8 peg count	N	6
56	dnoadpt9pegcnt	Port 9 peg count	N	6
57	dnoadpt10pegcnt	Port 10 peg count	N	6
58	dnoadpt11pegcnt	Port 11 peg count	N	6
59	dnoadpt12pegcnt	Port 12 peg count	N	6
60	dnoadpt13pegcnt	Port 13 peg count	N	6
61	dnoadpt14pegcnt	Port 14 peg count	N	6
62	dnoadpt15pegcnt	Port 15 peg count	N	6
63	dnoadpt16pegcnt	Port 16 peg count	N	6
64	dnoadpt17pegcnt	Port 17 peg count	N	6
65	dnoadpt18pegcnt	Port 18 peg count	N	6
66	dnoadpt19pegcnt	Port 19 peg count	N	6
67	dnoadpt20pegcnt	Port 20 peg count	N	6
68	dnoadpt21pegcnt	Port 21 peg count	N	6
69	dnoadpt22pegcnt	Port 22 peg count	N	6
70	dnoadpt23pegcnt	Port 23 peg count	N	6
71	dnoadpt24pegcnt	Port 24 peg count	N	6
72	dnoadpt25pegcnt	Port 25 peg count	N	6
73	dnoadpt26pegcnt	Port 26 peg count	N	6
74	dnoadpt27pegcnt	Port 27 peg count	N	6

Continued on next page

Table A-10. NMgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
75	dnoadpt28pegcnt	Port 28 peg count	N	6
76	dnoadpt29pegcnt	Port 29 peg count	N	6
77	dnoadpt30pegcnt	Port 30 peg count	N	6
78	dnoadpt31pegcnt	Port 31 peg count	N	6
79	dnoadpt32pegcnt	Port 32 peg count	N	6
80	dnoadpt33usginsec	Port 33 usage in seconds	N	6
81	dnoadpt34usginsec	Port 34 usage in seconds	N	6
82	dnoadpt35usginsec	Port 35 usage in seconds	N	6
83	dnoadpt36usginsec	Port 36 usage in seconds	N	6
84	dnoadpt37usginsec	Port 37 usage in seconds	N	6
85	dnoadpt38usginsec	Port 38 usage in seconds	N	6
86	dnoadpt39usginsec	Port 39 usage in seconds	N	6
87	dnoadpt40usginsec	Port 40 usage in seconds	N	6
88	dnoadpt41usginsec	Port 41 usage in seconds	N	6
89	dnoadpt42usginsec	Port 42 usage in seconds	N	6
90	dnoadpt43usginsec	Port 43 usage in seconds	N	6
91	dnoadpt44usginsec	Port 44 usage in seconds	N	6
92	dnoadpt45usginsec	Port 45 usage in seconds	N	6
93	dnoadpt46usginsec	Port 46 usage in seconds	N	6
94	dnoadpt47usginsec	Port 47 usage in seconds	N	6
95	dnoadpt48usginsec	Port 48 usage in seconds	N	6
96	dnoadpt49usginsec	Port 49 usage in seconds	N	6
97	dnoadpt50usginsec	Port 50 usage in seconds	N	6
98	dnoadpt51usginsec	Port 51 usage in seconds	N	6
99	dnoadpt52usginsec	Port 52 usage in seconds	N	6
100	dnoadpt53usginsec	Port 53 usage in seconds	N	6
101	dnoadpt54usginsec	Port 54 usage in seconds	N	6
102	dnoadpt55usginsec	Port 55 usage in seconds	N	6

Continued on next page

Table A-10. NMgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
103	dnoadpt56usginsec	Port 56 usage in seconds	N	6
104	dnoadpt57usginsec	Port 57 usage in seconds	N	6
105	dnoadpt58usginsec	Port 58 usage in seconds	N	6
106	dnoadpt59usginsec	Port 59 usage in seconds	N	6
107	dnoadpt60usginsec	Port 60 usage in seconds	N	6
108	dnoadpt61usginsec	Port 61 usage in seconds	N	6
109	dnoadpt62usginsec	Port 62 usage in seconds	N	6
110	dnoadpt63usginsec	Port 63 usage in seconds	N	6
111	dnoadpt64usginsec	Port 64 usage in seconds	N	6
112	dnoadpt33pegcnt	Port 33 peg count	N	6
113	dnoadpt34pegcnt	Port 34 peg count	N	6
114	dnoadpt35pegcnt	Port 35 peg count	N	6
115	dnoadpt36pegcnt	Port 36 peg count	N	6
116	dnoadpt37pegcnt	Port 37 peg count	N	6
117	dnoadpt38pegcnt	Port 38 peg count	N	6
118	dnoadpt39pegcnt	Port 39 peg count	N	6
119	dnoadpt40pegcnt	Port 40 peg count	N	6
120	dnoadpt41pegcnt	Port 41 peg count	N	6
121	dnoadpt42pegcnt	Port 42 peg count	N	6
122	dnoadpt43pegcnt	Port 43 peg count	N	6
123	dnoadpt44pegcnt	Port 44 peg count	N	6
124	dnoadpt45pegcnt	Port 45 peg count	N	6
125	dnoadpt46pegcnt	Port 46 peg count	N	6
126	dnoadpt47pegcnt	Port 47 peg count	N	6
127	dnoadpt48pegcnt	Port 48 peg count	N	6
128	dnoadpt49pegcnt	Port 49 peg count	N	6
129	dnoadpt50pegcnt	Port 50 peg count	N	6
130	dnoadpt51pegcnt	Port 51 peg count	N	6

Continued on next page

Table A-10. NMgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
131	dnoadpt52pegcnt	Port 52 peg count	N	6
132	dnoadpt53pegcnt	Port 53 peg count	N	6
133	dnoadpt54pegcnt	Port 54 peg count	N	6
134	dnoadpt55pegcnt	Port 55 peg count	N	6
135	dnoadpt56pegcnt	Port 56 peg count	N	6
136	dnoadpt57pegcnt	Port 57 peg count	N	6
137	dnoadpt58pegcnt	Port 58 peg count	N	6
138	dnoadpt59pegcnt	Port 59 peg count	N	6
139	dnoadpt60pegcnt	Port 60 peg count	N	6
140	dnoadpt61pegcnt	Port 61 peg count	N	6
141	dnoadpt62pegcnt	Port 62 peg count	N	6
142	dnoadpt63pegcnt	Port 63 peg count	N	6
143	dnoadpt64pegcnt	Port 64 peg count	N	6
144	dnoadtotstuse	Total storage used (hours)	N	13, 1
145	dnoadtotstfree	Total storage free (hours)	N	13, 1
146	dnoadmsgstusd	Message storage used (hours)	N	13, 1
147	dnoadvoxnmsus	Voiced name storage used (hours)	N	13, 1
148	dnoadperrmt	Percent remote	N	2
149	dnoadannstusd	Announcement storage used (hours)	N	13, 1

Reference

getload

NMgetmaint

Get maintenance log data

Data Format

Table A-11. NMgetmaint

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcintprobrestyp	Problem resource, type	C	14
6	dcintprobresins	Problem resource, instance	C	3
7	dcintprobresloc	Problem resource, location	C	11
8	dcintmsgtyp	Message type	C	3
9	dcintrepresyp	Reporting resource, type	C	14
10	dcintrepresint	Reporting resource, instance	C	3
11	dcintrepresou	Reporting resource, source	C	19
12	dcintapplication	Application	C	2
13	dcinteventid	Event ID	C	14
14	ddintdate	Date	D	8
15	dcinttime	Time	C	4
16	dcintcount	Count	C	3
17	dcinttext	Text	C	78

Reference

getmaint

NMgetmlist

Get machine list

Data Format

Table A-12. NMgetmlist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcistmachname	Machine name	C	10
6	dcistvoiceid	Voice ID	C	3
7	dcistmachtyp	Machine type	C	12
8	dcistcalbcknum	Callback number	C	3
9	dcistlocation	Location	C	20
11	dcistvoicename	Voice name available	C	1
10	dcistextnlength	Extension length	C	2
12	dcistdefcommunity	Default community ID	C	2
13	dcistprefix0	Prefix 0	C	22
14	dciststartextn0	Start extension 0	C	10
15	dcistendextn0	End extension 0	C	10
16	dcistprefix1	Prefix 1	C	22
17	dciststartextn1	Start extension 1	C	10
18	dcistendextn1	End extension 1	C	10
19	dcistprefix2	Prefix 2	C	22
20	dciststartextn2	Start extension 2	C	10
21	dcistendextn2	End extension 2	C	10
22	dcistprefix3	Prefix 3	C	22

Continued on next page

Table A-12. NMgetmlist — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dciststartextn3	Start extension 3	C	10
24	dcistendextn3	End extension 3	C	10
25	dcistprefix4	Prefix 4	C	22
26	dciststartextn4	Start extension 4	C	10
27	dcistendextn4	End extension 4	C	10
28	dcistprefix5	Prefix 5	C	22
29	dciststartextn5	Start extension 5	C	10
30	dcistendextn5	End extension 5	C	10
31	dcistprefix6	Prefix 6	C	22
32	dciststartextn6	Start extension 6	C	10
33	dcistendextn6	End extension 6	C	10
34	dcistprefix7	Prefix 7	C	22
35	dciststartextn7	Start extension 7	C	10
36	dcistendextn7	End extension 7	C	10
37	dcistprefix8	Prefix 8	C	22
38	dciststartextn8	Start extension 8	C	10
39	dcistendextn8	End extension 8	C	10
37	dcistprefix9	Prefix 9	C	22
38	dciststartextn9	Start extension 9	C	10
39	dcistendextn9	End extension 9	C	10

Reference

getmlist

NMgetnet

Get network load data (by days)

Data Format

Table A-13. NMgetnet

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddnetstdate	Starting date	D	8
6	dcnetendtime	Ending time	C	4
7	dnnettotmgrthex	Total message transmission threshold exceptions	N	7
8	dnnettotmgrlimex	Total message transmission limit exceptions	N	7
9	dnnetrmtdelres	Remote deliveries rescheduled	N	8
10	dnnetmaxsimchan	Maximum simultaneous channels	N	3
11	dnnetotincalunan	Total incoming calls unanswered	N	5
12	dnnettotrmtrandemsg	Total remote undeliverable messages	N	8
13	dcnetcha1typ	Network channel 1 type	C	6
14	dnnetcha1usin	Network channel 1 usage, incoming	N	7
15	dnnetcha1usout	Network channel 1 usage, outgoing	N	7
16	dnnetcha1ustot	Network channel 1 usage, total	N	7

Continued on next page

Table A-13. NMgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnnetcha1pegin	Network channel 1 peg count, incoming	N	6
18	dnnetcha1pegout	Network channel 1 peg count, outgoing	N	6
19	dnnetcha1pegtot	Network channel 1 peg count, total	N	6
20	dcnetcha2typ	Network channel 2 type	C	6
21	dnnetcha2usin	Network channel 2 usage, incoming	N	7
22	dnnetcha2usout	Network channel 2 usage, outgoing	N	7
23	dnnetcha2ustot	Network channel 2 usage, total	N	7
24	dnnetcha2pegin	Network channel 2 peg count, incoming	N	6
25	dnnetcha2pegout	Network channel 2 peg count, outgoing	N	6
26	dnnetcha2pegtot	Network channel 2 peg count, total	N	6
27	dcnetcha3typ	Network channel 3 type	C	6
28	dnnetcha3usin	Network channel 3 usage, incoming	N	7
29	dnnetcha3usout	Network channel 3 usage, outgoing	N	7
30	dnnetcha3ustot	Network channel 3 usage, total	N	7
31	dnnetcha3pegin	Network channel 3 peg count, incoming	N	6
32	dnnetcha3pegout	Network channel 3 peg count, outgoing	N	6
33	dnnetcha3pegtot	Network channel 3 peg count, total	N	6
34	dcnetcha4typ	Network channel 4 type	C	6

Continued on next page

Table A-13. NMgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnnetcha4usin	Network channel 4 usage, incoming	N	7
36	dnnetcha4usout	Network channel 4 usage, outgoing	N	7
37	dnnetcha4ustot	Network channel 4 usage, total	N	7
38	dnnetcha4pegin	Network channel 4 peg count, incoming	N	6
39	dnnetcha4pegout	Network channel 4 peg count, outgoing	N	6
40	dnnetcha4pegtot	Network channel 4 peg count, total	N	6
41	dcnetcha5typ	Network channel 5 type	C	6
42	dnnetcha5usin	Network channel 5 usage, incoming	N	7
43	dnnetcha5usout	Network channel 5 usage, outgoing	N	7
44	dnnetcha5ustot	Network channel 5 usage, total	N	7
45	dnnetcha5pegin	Network channel 5 peg count, incoming	N	6
46	dnnetcha5pegout	Network channel 5 peg count, outgoing	N	6
47	dnnetcha5pegtot	Network channel 5 peg count, total	N	6
48	dcnetcha6typ	Network channel 6 type	C	6
49	dnnetcha6usin	Network channel 6 usage, incoming	N	7
50	dnnetcha6usout	Network channel 6 usage, outgoing	N	7
51	dnnetcha6ustot	Network channel 6 usage, total	N	7

Continued on next page

Table A-13. NMgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
52	dnnetcha6pegin	Network channel 6 peg count, incoming	N	6
53	dnnetcha6pegout	Network channel 6 peg count, outgoing	N	6
54	dnnetcha6pegtot	Network channel 6 peg count, total	N	6
55	dcnetcha7typ	Network channel 7 type	C	6
56	dnnetcha7usin	Network channel 7 usage, incoming	N	7
57	dnnetcha7usout	Network channel 7 usage, outgoing	N	7
58	dnnetcha7ustot	Network channel 7 usage, total	N	7
59	dnnetcha7pegin	Network channel 7 peg count, incoming	N	6
60	dnnetcha7pegout	Network channel 7 peg count, outgoing	N	6
61	dnnetcha7pegtot	Network channel 7 peg count, total	N	6
62	dcnetcha8typ	Network channel 8 type	C	6
63	dnnetcha8usin	Network channel 8 usage, incoming	N	7
64	dnnetcha8usout	Network channel 8 usage, outgoing	N	7
65	dnnetcha8ustot	Network channel 8 usage, total	N	7
66	dnnetcha8pegin	Network channel 8 peg count, incoming	N	6
67	dnnetcha8pegout	Network channel 8 peg count, outgoing	N	6
68	dnnetcha8pegtot	Network channel 8 peg count, total	N	6
69	dcnetcha9typ	Network channel 9 type	C	6

Continued on next page

Table A-13. NMgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
70	dnnetcha9usin	Network channel 9 usage, incoming	N	7
71	dnnetcha9usout	Network channel 9 usage, outgoing	N	7
72	dnnetcha9ustot	Network channel 9 usage, total	N	7
73	dnnetcha9pegin	Network channel 9 peg count, incoming	N	6
74	dnnetcha9pegout	Network channel 9 peg count, outgoing	N	6
75	dnnetcha9pegtot	Network channel 9 peg count, total	N	6
76	dcnetcha10typ	Network channel 10 type	C	6
77	dnnetcha10usin	Network channel 10 usage, incoming	N	7
78	dnnetcha10usout	Network channel 10 usage, outgoing	N	7
79	dnnetcha10ustot	Network channel 10 usage, total	N	7
80	dnnetcha10pegin	Network channel 10 peg count, incoming	N	6
81	dnnetcha10pegout	Network channel 10 peg count, outgoing	N	6
82	dnnetcha10pegtot	Network channel 10 peg count, total	N	6
83	dcnetcha11typ	Network channel 11 type	C	6
84	dnnetcha11usin	Network channel 11 usage, incoming	N	7
85	dnnetcha11usout	Network channel 11 usage, outgoing	N	7
86	dnnetcha11ustot	Network channel 11 usage, total	N	7

Continued on next page

Table A-13. NMgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
87	dnnetcha11pegin	Network channel 11 peg count, incoming	N	6
88	dnnetcha11pegout	Network channel 11 peg count, outgoing	N	6
89	dnnetcha11pegtot	Network channel 11 peg count, total	N	6
90	dcnetcha12typ	Network channel 12 type	C	6
91	dnnetcha12usin	Network channel 12 usage, incoming	N	7
92	dnnetcha12usout	Network channel 12 usage, outgoing	N	7
93	dnnetcha12ustot	Network channel 12 usage, total	N	7
94	dnnetcha12pegin	Network channel 12 peg count, incoming	N	6
95	dnnetcha12pegout	Network channel 12 peg count, outgoing	N	6
96	dnnetcha12pegtot	Network channel 12 peg count, total	N	6

Reference

getnet

NMgetperfcpu

Get CPU performance data.

Data Format

Table A-14. NMgetperfcpu

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dccpuocc	Total CPU occupancy percentage	C	14
6	dccpuname	CPU name	C	50
7	dccpuqty1	Highest CPU occupancy percentage from 0 to 5 minutes	N	5
8	dccpuqty2	Highest CPU occupancy percentage from 5 to 10 minutes	N	5
9	dccpuqty3	Highest CPU occupancy percentage from 10 to 15 minutes	N	5
10	dccpuqty4	Highest CPU occupancy percentage from 15 to 20 minutes	N	5
11	dccpuqty5	Highest CPU occupancy percentage from 20 to 25 minutes	N	5
12	dccpuqty6	Highest CPU occupancy percentage from 25 to 30 minutes	N	5

Continued on next page

Table A-14. NMgetperfcpu — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
13	dccpuqty7	Highest CPU occupancy percentage from 30 to 35 minutes	N	5
14	dccpuqty8	Highest CPU occupancy percentage from 35 to 40 minutes	N	5
15	dccpuqty9	Highest CPU occupancy percentage from 40 to 45 minutes	N	5
16	dccpuqty10	Highest CPU occupancy percentage from 45 to 50 minutes	N	5
17	dccpuqty11	Highest CPU occupancy percentage from 50 to 55 minutes	N	5
18	dccpuqty12	Highest CPU occupancy percentage from 55 to 60 minutes	N	5

NMgetperfhist

Get performance history data

Data Format

Table A-15. NMgetperfhist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dchistname	Event name	C	50
6	dchist	Event	C	5
7	dchistqty1	Bucket 1 - 0-5 min	N	5
8	dchistqty2	Bucket 2: 5+->min	N	5
9	dchistqty3	Bucket 3: 10+->min	N	5
10	dchistqty4	Bucket 4: 15+-> min	N	5
11	dchistqty5	Bucket 5: 20+-> min	N	5
12	dchistqty6	Bucket 6: 25+-> min	N	5
13	dchistqty7	Bucket 7: 30+-> min	N	5
14	dchistqty8	Bucket 8: 35+-> min	N	5
15	dchistqty9	Bucket 9: 40+-> min	N	5
16	dchistqty10	Bucket 10: 45+-> min	N	5
17	dchistqty11	Bucket 11: 50+-> min	N	5
18	dchistqty12	Bucket 12: 55+-> min	N	5
19	dchistqty13	Bucket 13: 60+->75 min	N	5
20	dchistqty14	Bucket 14: 75+->90 min	N	5
21	dchistqty15	Bucket 15: 90+->120 min	N	5
22	dchistqty16	Bucket 16: 2+ hrs to 3 hrs	N	5

Continued on next page

Table A-15. NMgetperfhist — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dchistqty17	Bucket 17: 3+ hrs to 5 hrs	N	5
24	dchistqty18	Bucket 18: 5+ hrs to 9 hrs	N	5
25	dchistqty19	Bucket 19: 9+ hrs to 25 hrs	N	5
26	dchistqty20	Bucket 20: over 25 hours	N	5
27	dchistqty21	Not used	N	5
28	dchistqty22	Not used	N	5

Reference

getperf

NMgetperfpeg

Get peg count performance data

Data Format

Table A-16. NMgetperfpeg

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcpegname	Event name	C	50
6	dcpeg	Number of times event occurred	C	3
7	dcpegno	Peg number	N	5

Reference

getperf

NMgetperfstat

Get performance statistics data

Data Format

Table A-17. NMgetperfstat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcstatname	Event name	C	50
6	dcstat	Event type	C	4
7	dcstatqty1	Min value recorded for the particular event	N	10
8	dcstatqty2	Max value recorded for the particular event	N	10
9	dcstatqty3	Number of occurrences of the particular event	N	10
10	dcstatqty4	Total of all of the measured peg values	N	10
11	dcstatqty5	Sum of squares data	N	10

Reference

getperf

NMgetperftod

Get time of day performance data

Data Format

Table A-18. NMgetperftod

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dctodname	Time of day	C	11
6	dctod	Time of day	C	3
7	dctoddate	Date (yyyymmdd)	D	8
8	dctodtime	Time (hhmm using a 24-hour clock)	C	4

Reference

getperf

NMgetperfexid

Get machine performance data

Data Format

Table A-19. NMgetperfexid

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcvexidname	Machine name	C	20
6	dcvex	Machine name	C	12
7	dcvexiddata	Machine information	C	70

Reference

getperf

NMgetralar

Get resolved alarm data

Data Format

Table A-20. NMgetralar

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dclarrestyp	Resource type	C	10
6	dclarlocation	Location	C	11
7	dclaralrlevel	Alarm level	C	3
8	dnlarfaulcode	Fault/alarm code	N	4
9	dclaracknow	Acknowledge	C	1
10	ddlardataalr	Date alarmed	D	8
11	dclartime	Time alarmed	C	4
12	ddlarresolved	Date resolved	D	8
13	dclartimeres	Time resolved	C	4
14	dclarresreason	Resolve reason	C	6
15	dclarapplication	Application	C	2

Reference

getralar

NMgetrem

Get remote message measurements (daily)

Data Format

Table A-21. NMgetrem

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcremmachname	Remote machine name	C	10
6	ddremstdate	Starting date	D	8
7	dcremendtime	Ending time	C	4
8	dnremlogprmtrfs	Local original prime transfer sessions	N	5
9	dnremlognprmtrfs	Local original non-prime transfer sessions	N	5
10	dnremremprtrfs	Remote original prime transfer sessions	N	5
11	dnremrmnprrts	Remote original non-prime transfer sessions	N	5
12	dnremloorprugse	Local original prime usage in seconds	N	7
13	dnremloornpugse	Local original non-prime usage in seconds	N	7
14	dnremrmorpugsec	Remote original prime usage in seconds	N	7
15	dnremrmornpugsc	Remote original non-prime usage in seconds	N	7
16	dnremloorpmavusg	Local original prime average usage	N	7

Continued on next page

Table A-21. NMgetrem — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnremloornpmavusg	Local original non-prime average usage	N	7
18	dnremrmorpavusg	Remote original prime average usage	N	7
19	dnremrmornpmavusg	Remote original non-prime average usage	N	7
20	dnremloorpmsgsnd	Local original prime messages sent	N	6
21	dnremloornpmsgsnd	Local original non-prime messages sent	N	6
22	dnremrmorpmsgsnd	Remote original prime messages sent	N	6
23	dnremrmornpmsgsnd	Remote original non-prime messages sent	N	6
24	dnremloorpmsgrej	Local original prime messages rejected	N	6
25	dnremloornpmsgrej	Local original non-prime messages rejected	N	6
26	dnremrmorpmsgrej	Remote original prime messages rejected	N	6
27	dnremrmornpmsgrej	Remote original non-prime messages rejected	N	6
28	dnremlcorpstsnd	Local original prime status sent	N	6
29	dnremlcornpstsnd	Local original non-prime status sent	N	6
30	dnremrmoprstsnd	Remote original prime status sent	C	3
31	dnremrmornprstsnd	Remote original non-prime status sent	C	3
32	dnremlcorpstrec	Local original prime status received	C	3

Continued on next page

Table A-21. NMgetrem — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
33	dnremlcornprstrec	Local original non-prime status received	C	3
34	dnremrmorpstrec	Remote original prime status received	N	6
35	dnremrmornpstrec	Remote original non-prime status received	N	6
36	dnremmsgtratresex	Message threshold transmission exceptions	N	7
37	dnremsesfaienans	Session failures on far end, no answer	N	5
38	dnremlcorgprheds	Local original prime headers sent	N	6
39	dnremlcorgnprheds	Local original non-prime headers sent	N	6
40	dcremmechtype	Remote machine type	C	12

Reference

getrem

NMgetremmon

Get remote message measurements (monthly)

Data Format

Table A-22. NMgetremmon

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcremmachname	Remote machine name	C	10
6	ddremstdate	Starting date	D	8
7	dcremenddate	Ending date	D	8
8	dnremlogprmrtrfs	Local original prime transfer sessions	N	5
9	dnremlogpnrmtrfs	Local original non-prime transfer sessions	N	5
10	dnremremprtrfs	Remote original prime transfer sessions	N	5
11	dnremrmnprrtrfs	Remote original non-prime transfer sessions	N	5
12	dnremloorprugse	Local original prime usage in seconds	N	7
13	dnremloornpugse	Local original non-prime usage in seconds	N	7
14	dnremrmorpugsec	Remote original prime usage in seconds	N	7
15	dnremrmornpugsc	Remote original non-prime usage in seconds	N	7
16	dnremloorpmavusg	Local original prime average usage	N	7

Continued on next page

Table A-22. NMgetremmon — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnremloornpmavusg	Local original non-prime average usage	N	7
18	dnremrmorpavusg	Remote original prime average usage	N	7
19	dnremrmornpmavusg	Remote original non-prime average usage	N	7
20	dnremloorpmsgsnd	Local original prime messages sent	N	6
21	dnremloornpmsgsnd	Local original non-prime messages sent	N	6
22	dnremrmorpmsgsnd	Remote original prime messages sent	N	6
23	dnremrmornpmsgsnd	Remote original non-prime messages sent	N	6
24	dnremloorpmsgrej	Local original prime messages rejected	N	6
25	dnremloornpmsgrej	Local original non-prime messages rejected	N	6
26	dnremrmorpmsgrej	Remote original prime messages rejected	N	6
27	dnremrmornpmsgrej	Remote original non-prime messages rejected	N	6
28	dnremlcorpstsnd	Local original prime status sent	N	6
29	dnremlcornpstsnd	Local original non-prime status sent	N	6
30	dnremrmoprstsnd	Remote original prime status sent	C	3
31	dnremrmornprstsnd	Remote original non-prime status sent	C	3
32	dnremlcorpstrec	Local original prime status received	C	3

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Table A-22. NMgetremmon — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
33	dnremlcornprstrec	Local original non-prime status received	C	3
34	dnremrmorpstrec	Remote original prime status received	N	6
35	dnremrmornpstrec	Remote original non-prime status received	N	6
36	dnremmsgtratresex	Message threshold transmission exceptions	N	7
37	dnremsesfaienans	Session failures on far end, no answer	N	5
38	dnremlcorgprheds	Local original prime headers sent	N	6
39	dnremlcorgnprheds	Local original non-prime headers sent	N	6
40	dcremmechtype	Remote machine type	C	12

Reference

getrem

NMgetserve

Get trusted server list

Data Format

Table A-23. NMgetserve

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrvetrusername	Trusted server name	C	10
6	dcrveaccroddomdel	Access to cross domain delivery	C	1
7	dcrveipaddr	IP address	C	15
8	dnrvetruserid	Trusted server ID	N	2
9	dcrvesername	Service name	C	64

Reference

getserve

NMgetspfea

Get special features measurements

Data Format

Table A-24. NMgetspfea

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddfcastdate	Starting date	D	8
6	dcfeaendtime	Ending time	C	4
7	dnfeaaavgnmcaptus	Average number of CA ports in use	N	3,1
8	dnfeamaxsimcapt	Maximum simultaneous CA ports	N	2
9	dnfeaaavgnmvmptus	Average number of VM ports in use	N	3,1
10	dnfeamaxsimvmpt	Maximum simultaneous VM ports	N	2
11	dnfeaaavgnmaaptus	Average number of AA ports in use	N	3,1
12	dnfeamaxsimaapt	Maximum simultaneous AA ports	N	2
13	dnfeamaxsimoutcl	Maximum simultaneous outcalls	N	3
14	dnfeaoutcallatt	Outcalls attempted	N	8

Continued on next page

Table A-24. NMgetspfea — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
15	dnfeaoutcallcom	Outcalls completed	N	8
16	dnfeaoutcalresch	Outcalls rescheduled	N	8
17	dnfeacaanswoconn	Calls answered without connect	N	8

Reference

getspfea

NMgetsub

Get local subscriber data

Data Format

Table A-25. NMgetsub

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsubname	Subscriber name	C	29
6	dcsubexten	Extension	C	10
7	dcsubclasserv	Class of service	C	8
8	dcsubpasswd	Password	C	15
9	dnsubswitchnum	Switch number	N	2
10	dcsubmiscell	Miscellaneous	C	11
11	dcsubcovext	Covering extension	C	10
12	dcsubaddformat	Addressing format	C	9
13	dcsubcaperm	CA permissions	C	14
14	dcsubanncntl	Announcement control	C	1
15	dcsubcutcal	Outcalling	C	1
16	dcsubtxtsermech	Text service machine	C	10
17	dcsubuserid	User ID	C	30
18	dcsubinmilbxfifo	Incoming mailbox LIFO/FIFO	C	4
19	dcsubinmilbxorder	Incoming mailbox order	C	3
20	dnsubnewrettime	New retention time	N	3
21	dnsuboldrettime	Old retention time	N	3
22	dnsubunorettime	Unopened retention time	N	3

Continued on next page

Table A-25. NMgetsub — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dcsuboutmilbxlifo	Outgoing mailbox LIFO/FIFO	C	4
24	dcsuboutmilbxorder	Outgoing mailbox order	C	5
25	dnsubfilcabrettm	File cabinet retention time	N	3
26	dnsubdelrettime	Del/Non del retention time	N	3
27	dnsubmaxvmmmsglen	Max VM message length	N	4
28	dnsubminvmspreq	Min VM space required	N	4
29	dnsubmaxcamsglen	Max CA message length	N	4
30	dnsubmincaspreq	Min CA space required	N	4
31	dnsubmaxnummillis	Max number of mailing lists	N	3
32	dnsubmaxtotmilent	Max total mailing list entries	N	5
33	dnsubmaxmilsize	Max mailbox size	N	5
34	dnsubguaspa	Guaranteed space	N	4
35	dcsubnewsname	New subscriber name	C	29
36	dcsubnewext	New extension	C	10
37	dcsublocked	Locked	C	1
38	dnsubcommid	Community ID	N	2
39	dcsybbromilbx	Broadcast mailbox	C	1
40	dcsubprimsg	Priority messages	C	1
41	dcsubbroprem	Broadcast permissions	C	5
42	dcsubendmsgwartm	End of message warning time	N	2
43	dcsubcalanch	CA language choice	C	1
44	dcsublngannoset	Login announcement set	C	14
45	dcsubcapryannoset	CA primary announcement set	C	14
46	dcsubsecannoset	CA secondary announcement set	C	14
47	dcsubimapiacc	IMAPI access	C	1

Continued on next page

Table A-25. NMgetsub — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
48	dcsubimapivcfmt	IMAPI voice mail / message transfer	C	1
49	dcsubsecext	Secondary extension	C	10
50	dcsubfax	FAX	C	1
51	dcsubtruseracc	Trusted server access	C	1
52	dcsubperctfill	Percent full of subscriber's mailbox	N	3
53	dcsubnooflogin	Subscriber's last login	N	5

Reference

getsub, gettrafmon

NMgetswitc

Get system switch connection data

Data Format

Table A-26. NMgetswitc

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcitcswcontyp	Switch connection type	C	11

Reference

getswitc

NMgetsys

Get administration log data

Data Format

Table A-27. NMgetsys

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddsysdate	Date	D	8
6	dcsysime	Time	C	4
7	dctypeveid	Type / Event ID	C	14
8	dcsyserrmsgalr	Error / Message / Alarm	C	118
9	dcsyscount	Count	C	3
10	dcsysapplication	Application	C	2

Reference

getsys

NMgetsysat

Get system attendant data

Data Format

Table A-28. NMgetsysat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsatname	Name	C	29
6	dcsatext	Extension	C	10
7	dcsatallcaltnf	Allow call transfer	C	1
8	dcsatbut1ext	Button 1 extension	C	10
9	dcsatbut1com	Button 1 comment	C	29
10	dcsatbut2ext	Button 2 extension	C	10
11	dcsatbut2com	Button 2 comment	C	29
12	dcsatbut3ext	Button 3 extension	C	10
13	dcsatbut3com	Button 3 comment	C	29
14	dcsatbut4ext	Button 4 extension	C	10
15	dcsatbut4com	Button 4 comment	C	29
16	dcsatbut5ext	Button 5 extension	C	10
17	dcsatbut5com	Button 5 comment	C	29
18	dcsatbut6ext	Button 6 extension	C	10
19	dcsatbut6com	Button 6 comment	C	29
20	dcsatbut7ext	Button 7 extension	C	10
21	dcsatbut7com	Button 7 comment	C	29
22	dcsatbut8ext	Button 8 extension	C	10

Continued on next page

Table A-28. NMgetsysat — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dcsatbut8com	Button 8 comment	C	29
24	dcsatbut9ext	Button 9 extension	C	10
25	dcsatbut9com	Button 9 comment	C	29
26	dcsatbut0ext	Button 0 extension	C	10
27	dcsatbut0com	Button 0 comment	C	29
28	dcsatdfatmouext	Default timeout extension	C	10
29	dcsatlentminsc	Length of timeout in seconds	C	1
30	dcsatbut1tre	Button 1 treatment	C	14
31	dcsatbut2tre	Button 2 treatment	C	14
32	dcsatbut3tre	Button 3 treatment	C	14
33	dcsatbut4tre	Button 4 treatment	C	14
34	dcsatbut5tre	Button 5 treatment	C	14
35	dcsatbut6tre	Button 6 treatment	C	14
36	dcsatbut7tre	Button 7 treatment	C	14
37	dcsatbut8tre	Button 8 treatment	C	14
38	dcsatbut9tre	Button 9 treatment	C	14
39	dcsatbut0tre	Button 0 treatment	C	14
40	dcsattmoutr	Timeout treatment	C	14
41	dcsattmoucom	Timeout comment	C	29

Reference

getsysat

NMgetsysfe

Get system parameters features data

Data Format

Table A-29. NMgetsysfe

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsfeswcntyp	Switch connection type	C	11
6	dnsfeloginret	Login retries	N	1
7	dnsfeconinvloat	Consecutive invalid login attempts	N	3
8	dcsfesysguspass	System guest password	C	15
9	dnsfeminpasslen	Minimum password length	N	2
10	dnsfeintmlimnor	Input time limit, normal	N	2
11	dnsfeintmliflto	Input time limit, full mailbox timeout	N	1
12	dnsfeintmmiwait	Input time limit, wait	N	3
13	dcsfebroadmnext	Broadcast mailbox extension	C	10
14	dnsfesysprtmsthr	System prime time, start hour	N	2
15	dnsfesysprtmstmi	System prime time, start minute	N	2
16	dnsfesysprtmehr	System prime time, end hour	N	2
17	dnsfesysprtmemi	System prime time, end minute	N	2
18	dcsfetrcolact	Traffic collection activation	C	1

Continued on next page

Table A-29. NMgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
19	dcsfenmrecsubact	Name recording by subscriber activation	C	1
20	dcsfemulprgract	Multiple personal greetings activation	C	1
21	dcsfecaltrouauac	Call transfer out of AUDIX activation	C	1
22	dcsfeenhctract	Enhanced call transfer activation	C	1
23	dcsfecoextcatrou	Covering ext for call transfer out of AUDIX	C	10
24	dcsfecatresouau	Call transfer restriction out of AUDIX	C	11
25	dcsfeenmsgwrfeac	End-of-message warning feature activation	C	1
26	dnsfesndmsgwrtrm	End-of-message warning time	N	2
27	dcsfewkbckena	Weekly backup enabled	C	1
28	dcsfeactannset	Active announcement set	C	14
29	dcsfeadmanset	Administrative announcement set	C	14
30	dnsfercin1days	Rescheduling increment 1, days	N	2
31	dnsfercin1hrs	Rescheduling increment 1, hours	N	2
32	dnsfercin1mins	Rescheduling increment 1, minutes	N	2
33	dnsfercin2days	Rescheduling increment 2, days	N	2
34	dnsfercin2hrs	Rescheduling increment 2, hours	N	2
35	dnsfercin2mins	Rescheduling increment 2, minutes	N	2

Continued on next page

Table A-29. NMgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
36	dnsfercin3days	Rescheduling increment 3, days	N	2
37	dnsfercin3hrs	Rescheduling increment 3, hours	N	2
38	dnsfercin3mins	Rescheduling increment 3, minutes	N	2
39	dnsfercin4days	Rescheduling increment 4, days	N	2
40	dnsfercin4hrs	Rescheduling increment 4, hours	N	2
41	dnsfercin4mins	Rescheduling increment 4, minutes	N	2
42	dnsfercin5days	Rescheduling increment 5, days	N	2
43	dnsfercin5hrs	Rescheduling increment 5, hours	N	2
44	dnsfercin5mins	Rescheduling increment 5, minutes	N	2
45	dnsfercin6days	Rescheduling increment 6, days	N	2
46	dnsfercin6hrs	Rescheduling increment 6, hours	N	2
47	dnsfercin6mins	Rescheduling increment 6, minutes	N	2
48	dnsfercin7days	Rescheduling increment 7, days	N	2
49	dnsfercin7hrs	Rescheduling increment 7, hours	N	2
50	dnsfercin7mins	Rescheduling increment 7, minutes	N	2
51	dnsfercin8days	Rescheduling increment 8, days	N	2

Continued on next page

Table A-29. NMgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
52	dnsfercin8hrs	Rescheduling increment 8, hours	N	2
53	dnsfercin8mins	Rescheduling increment 8, minutes	N	2
54	dnsfercin9days	Rescheduling increment 9, days	N	2
55	dnsfercin9hrs	Rescheduling increment 9, hours	N	2
56	dnsfercin9mins	Rescheduling increment 9, minutes	N	2
57	dnsfercin10days	Rescheduling increment 10, days	N	2
58	dnsfercin10hrs	Rescheduling increment 10, hours	N	2
59	dnsfercin10mins	Rescheduling increment 10, minutes	N	2
60	dcsfecaltrtyp	Call transfer type	C	19
61	dcsferevinc	Rewind increment	C	1
62	dcsfadvinc	Advance increment	C	1
63	dcsfquisildis	Quick silence disconnect	C	1
64	dnsfesillim	Silence limit	N	2
65	dcsfetonbasdisc	Tone-based disconnect	C	1
66	dnsfepassexpint	Password expiration interval	N	3
67	dnsfeminagbfcg	Minimum age before changes	N	2
68	dnsfeexpwaring	Expiration warning	N	2
69	dnsfeauattbedig	Auto attendant between digits	N	2
70	dcsfepcalans	Priority on call answer	C	1
71	dcsfecalansdis	Call answer disable	C	1
72	dcsfaddrbefrec	Address before record	C	1

Continued on next page

Table A-29. NMgetsysfe — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
73	dcsfecalsunid	Called subscriber ID	C	20
74	dnfefaxprdespfx	FAX print destination prefix	N	21
75	dcsfetxtspconv	Text-to-speech conversion	C	18

Reference

getsysfe

NMgettlst

Get remote text address list

Data Format

Table A-30. NMgettlst

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dctlitrustedname	Trusted server name	C	29
6	dctlitxtaddr	Text address	C	64
7	dctliname	Name	C	29
8	dctlitype	Type	C	12
9	ddtlilstusdate	Last usage date	D	8

Reference

gettlst

NMgettraf

Get subscriber measurements (daily)

Data Format

Table A-31. NMgettraf

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrafname	Name	C	29
6	dcrafext	Extension	C	10
7	dnrafmxsusinsc	Mailbox space used in seconds	N	10
8	dnrafspallinsc	Space allowed in seconds	N	10
9	dnrafmmaxspusis	Maximum space used in seconds	N	10
10	dnrafspguinsc	Space guaranteed in seconds	N	10
11	dnrafrpmcases	Prime CA sessions	N	10
12	dnrafnprcases	Non-prime CA sessions	N	10
13	dnrafrvmases	Prime VM sessions	N	10
14	dnrafnprvmases	Non-prime VM sessions	N	10
15	dnrafrpcasesuins	Prime CA session usage in seconds	N	10
16	dnrafnprcasesuins	Non-prime CA session usage in seconds	N	10
17	dnrafrvmasesuins	Prime VM session usage in seconds	N	10

Continued on next page

Table A-31. NMgettraf — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnrafnprvmseuins	Non-prime VM session usage in seconds	N	10
19	dnrafnprcamsgrcv	Prime CA messages received	N	10
20	dnrafnprcamsgrcv	Non-prime CA messages received	N	10
21	dnrafnprlvmmmsgrcv	Prime local VM messages received	N	10
22	dnrafnprlvmmmsgrcv	Non-prime local VM messages received	N	10
23	dnrafnprrvmmmsgrcv	Prime remote VM messages received	N	10
24	dnrafnprrvmmmsgrcv	Non-prime remote VM messages received	N	10
25	dnrafnprlvmmmsgsnd	Prime local VM messages sent	N	10
26	dnrafnprlvmmmsgsnd	Non-prime local VM messages sent	N	10
27	dnrafnprrvmmmsgsnd	Prime remote VM messages sent	N	10
28	dnrafnprrvmmmsgsnd	Non-prime remote VM messages sent	N	10
29	dnrafnprcatshc	Prime CA text service headers created	N	10
30	dnrafnprcatshc	Non-prime CA text service headers created	N	10
31	dnrafnprvmtshc	Prime VM text service headers created	N	10
32	dnrafnprvmtshc	Non-prime VM text service headers created	N	10
33	dnrafnprcommid	Community ID	N	2
34	dnrafnprvmunnot	Prime VM undeliverable notifications	N	10

Continued on next page

Table A-31. NMgettraf — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnrafnprvmunnot	Non-prime VM undeliverable notifications	N	10
36	dnrafnprtovmmgcr	Prime total VM messages created	N	10
37	dnrafnprtovmmgcr	Non-prime total VM messages created	N	10
38	dnrafnprbomgcr	Prime broadcast messages created	N	10
39	dnrafnprbomgcr	Non-prime broadcast messages created	N	10
40	dnrafnprlinancr	Prime login announcements created	N	10
41	dnrafnprlinancr	Non-prime login announcements created	N	10
42	dnrafnprprmngcr	Prime priority messages created	N	10
43	dnrafnprprmngcr	Non-prime priority messages created	N	10
44	dnrafnprprvmgcr	Prime private messages created	N	10
45	dnrafnprprvmgcr	Non-prime private messages created	N	10
46	ddrafstdate	Starting date	D	8
47	dcrafendtime	Ending time	C	4

Reference

gettraf

NMgettrafmon

Get subscriber measurements (monthly)

Data Format

Table A-32. NMgettrafmon

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrafname	Name	C	29
6	dcrafext	Extension	C	10
7	dnrafmxspusinsc	Mailbox space used in seconds	N	10
8	dnrafspallinsc	Space allowed in seconds	N	10
9	dnrafmaxspusis	Maximum space used in seconds	N	10
10	dnrafspguinsc	Space guaranteed in seconds	N	10
11	dnrafrmcases	Prime CA sessions	N	10
12	dnrafnpcases	Non-prime CA sessions	N	10
13	dnrafrvmases	Prime VM sessions	N	10
14	dnrafnprvmases	Non-prime VM sessions	N	10
15	dnrafrpcasesuins	Prime CA session usage in seconds	N	10
16	dnrafnprcaseuins	Non-prime CA session usage in seconds	N	10
17	dnrafrvmasesuins	Prime VM session usage in seconds	N	10

Continued on next page

Table A-32. NMgettrafmon — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnrafnprvmseuins	Non-prime VM session usage in seconds	N	10
19	dnrafnprcamsgrcv	Prime CA messages received	N	10
20	dnrafnprcamsgrcv	Non-prime CA messages received	N	10
21	dnrafnprlvmmmsgrcv	Prime local VM messages received	N	10
22	dnrafnprlvmmmsgrcv	Non-prime local VM messages received	N	10
23	dnrafnprrvmmmsgrcv	Prime remote VM messages received	N	10
24	dnrafnprrvmmmsgrcv	Non-prime remote VM messages received	N	10
25	dnrafnprlvmmmsgsnd	Prime local VM messages sent	N	10
26	dnrafnprlvmmmsgsnd	Non-prime local VM messages sent	N	10
27	dnrafnprrvmmmsgsnd	Prime remote VM messages sent	N	10
28	dnrafnprrvmmmsgsnd	Non-prime remote VM messages sent	N	10
29	dnrafnprcatshc	Prime CA text service headers created	N	10
30	dnrafnprcatshc	Non-prime CA text service headers created	N	10
31	dnrafnprvmtshc	Prime VM text service headers created	N	10
32	dnrafnprvmtshc	Non-prime VM text service headers created	N	10
33	dnrafnprcommid	Community ID	N	2
34	dnrafnprvmunnot	Prime VM undeliverable notifications	N	10

Continued on next page

Table A-32. NMgettrafmon — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnrafnprvmunnot	Non-prime VM undeliverable notifications	N	10
36	dnrafnprtovmmgcr	Prime total VM messages created	N	10
37	dnrafnprtovmmgcr	Non-prime total VM messages created	N	10
38	dnrafnprbomgcr	Prime broadcast messages created	N	10
39	dnrafnprbomgcr	Non-prime broadcast messages created	N	10
40	dnrafnprlinancr	Prime login announcements created	N	10
41	dnrafnprlinancr	Non-prime login announcements created	N	10
42	dnrafnprprm gcr	Prime priority messages created	N	10
43	dnrafnprprm gcr	Non-prime priority messages created	N	10
44	dnrafnprprvmgcr	Prime private messages created	N	10
45	dnrafnprprvmgcr	Non-prime private messages created	N	10
46	ddrafstdate	Starting date	D	8
47	dcrafenddate	Ending date	D	8

Reference

gettraf

NMgetvports

Gets the number of voice ports in use

Data Format

Table A-33. NMgetvports

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dnrtsnumvcports	Number of voice ports in use	N	3

Reference

None

NMODgetaalar

Gets the Enterprise Manager active alarm list

Data Format

Table A-34. NMODgetaalar

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dclarrestyp	Resource type	C	10
6	dclarlocation	Location	C	11
7	dclaralrlevel	Alarm level	C	3
8	dnlarfaulcode	Fault/alarm code	N	4
9	dclaracknow	Acknowledge	C	1
10	ddlardataalr	Date alarmed	D	8
11	dclartime	Time alarmed	C	4
12	ddlarresolved	Date resolved	D	8
13	dclartimeres	Time resolved	C	4
14	dclarresreason	Resolve reason	C	6
15	dclarapplication	Application	C	2

Reference

getaalar

NMODgetalogp

Get activity log data

Data Format

Table A-35. NMODgetalogp

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcogpactlogenb	Activity log enabled	C	1
6	dcogprecMWIup	Recording MWI updates	C	1
7	dnogpmaxactlog	Max number of activity log entries	N	5

Reference

getalogp

NMODgetatt

Get attendant list

Table A-36. NMODgetatt

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcattdext	Attendant extension	C	10
6	dcattname	Name	C	29

Reference

getatt

NMODgetcomm

Get community measurement data

Data Format

Table A-37. NMODgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddommstadate	Starting date	D	8
6	dcommendtime	Ending time	C	4
7	dnommvmsndcom1	VM messages sent by comm 1	N	7
8	dnommvmrcvcom1	VM messages received by comm 1	N	7
9	dnommvmnotsndcom1	VM messages not sent by comm 1	N	7
10	dnommvmnotrcvcom1	VM messages not received by comm 1	N	7
11	dnommvmsndcom2	VM messages sent by comm 2	N	7
12	dnommvmrcvcom2	VM messages received by comm 2	N	7
13	dnommvmnotsndcom2	VM messages not sent by comm 2	N	7
14	dnommvmnotrcvcom2	VM messages not received by comm 2	N	7
15	dnommvmsndcom3	VM messages sent by comm 3	N	7
16	dnommvmrcvcom3	VM messages received by comm 3	N	7

Continued on next page

Table A-37. NMODgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnommmvmnotsndcom3	VM messages not sent by comm 3	N	7
18	dnommmvmnotrcvcom3	VM messages not received by comm 3	N	7
19	dnommmvmsndcom4	VM messages sent by comm 4	N	7
20	dnommmvmrcvcom4	VM messages received by comm 4	N	7
21	dnommmvmnotsndcom4	VM messages not sent by comm 4	N	7
22	dnommmvmnotrcvcom4	VM messages not received by comm 4	N	7
23	dnommmvmsndcom5	VM messages sent by comm 5	N	7
24	dnommmvmrcvcom5	VM messages received by comm 5	N	7
25	dnommmvmnotsndcom5	VM messages not sent by comm 5	N	7
26	dnommmvmnotrcvcom5	VM messages not received by comm 5	N	7
27	dnommmvmsndcom6	VM messages sent by comm 6	N	7
28	dnommmvmrcvcom6	VM messages received by comm 6	N	7
29	dnommmvmnotsndcom6	VM messages not sent by comm 6	N	7
30	dnommmvmnotrcvcom6	VM messages not received by comm 6	N	7
31	dnommmvmsndcom7	VM messages sent by comm 7	N	7
32	dnommmvmrcvcom7	VM messages received by comm 7	N	7
33	dnommmvmnotsndcom7	VM messages not sent by comm 7	N	7
34	dnommmvmnotrcvcom7	VM messages not received by comm 7	N	7

Continued on next page

Table A-37. NMODgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnommvmsndcom8	VM messages sent by comm 8	N	7
36	dnommvmsrcvcom8	VM messages received by comm 8	N	7
37	dnommvmsnotsndcom8	VM messages not sent by comm 8	N	7
38	dnommvmsnotsrcvcom8	VM messages not received by comm 8	N	7
39	dnommvmsndcom9	VM messages sent by comm 9	N	7
40	dnommvmsrcvcom9	VM messages received by comm 9	N	7
41	dnommvmsnotsndcom9	VM messages not sent by comm 9	N	7
42	dnommvmsnotsrcvcom9	VM messages not received by comm 9	N	7
43	dnommvmsndcom10	VM messages sent by comm 10	N	7
44	dnommvmsrcvcom10	VM messages received by comm 10	N	7
45	dnommvmsnotsndcom10	VM messages not sent by comm 10	N	7
46	dnommvmsnotsrcvcom10	VM messages not received by comm 10	N	7
47	dnommvmsndcom11	VM messages sent by comm 11	N	7
48	dnommvmsrcvcom11	VM messages received by comm 11	N	7
49	dnommvmsnotsndcom11	VM messages not sent by comm 11	N	7
50	dnommvmsnotsrcvcom11	VM messages not received by comm 11	N	7
51	dnommvmsndcom12	VM messages sent by comm 12	N	7
52	dnommvmsrcvcom12	VM messages received by comm 12	N	7

Continued on next page

Table A-37. NMODgetcomm

Seq. No.	Data Field	Field Description	Type	Max. Width
53	dnommmvnnotsndcom12	VM messages not sent by comm 12	N	7
54	dnommmvnnotrcvcom12	VM messages not received by comm 12	N	7
55	dnommmvmsndcom13	VM messages sent by comm 13	N	7
56	dnommmvmrcvcom13	VM messages received by comm 13	N	7
57	dnommmvnnotsndcom13	VM messages not sent by comm 13	N	7
58	dnommmvnnotrcvcom13	VM messages not received by comm 13	N	7
59	dnommmvmsndcom14	VM messages sent by comm 14	N	7
60	dnommmvmrcvcom14	VM messages received by comm 14	N	7
61	dnommmvnnotsndcom14	VM messages not sent by comm 14	N	7
62	dnommmvnnotrcvcom14	VM messages not received by comm 14	N	7
63	dnommmvmsndcom15	VM messages sent by comm 15	N	7
64	dnommmvmrcvcom15	VM messages received by comm 15	N	7
65	dnommmvnnotsndcom15	VM messages not sent by comm 15	N	7
66	dnommmvnnotrcvcom15	VM messages not received by comm 15	N	7

Reference

getcomm

NMODgetcos

Get class of service data

Data Format

Table A-38. NMODgetcos

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dccosclsofser	Class of service	C	8
6	dccosmodified	Modified	C	1
7	dccosaddformat	Addressing format	C	9
8	dccoscaperm	CA permissions	C	14
9	dccosannoctl	Announcement control	C	1
10	dccosinmillifo	Incoming mailbox LIFO/FIFO	C	4
11	dccosinmilorder	Incoming mailbox order	C	3
12	dncosnewrettime	New retention time	N	3
13	dncosoldrettime	Old retention time	N	3
14	dncosunoprettime	Unopened retention time	N	3
15	dccosoutmillifo	Outgoing mailbox LIFO/FIFO	C	4
16	dccosoutmilorder	Outgoing mailbox order	C	5
17	dncosfilcanrettime	File cabinet retention time	N	3
18	dncosdelrettime	Del/non del retention time	N	3
19	dncosmaxvmsglen	Max VM message length	N	4
20	dncosminvmspreq	Min VM space required	N	4
21	dncosmaxcamsglen	Max CA message length	N	4
22	dncosmincaspreq	Min CA space required	N	4

Continued on next page

Table A-38. NMODgetcos — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dncosmaxnomillis	Max number of mailing lists	N	3
24	dncosmaxtotmilent	Max total mailing list entries	N	5
25	dncosmaxmilsize	Max mailbox size	N	5
26	dncosguaspace	Guaranteed space	N	4
27	dccosoutcall	Outcalling	C	1
28	dccosprimsg	Priority messages	C	1
29	dccosbroadperm	Broadcast permissions	C	5
30	dncosendmsgwartm	End-of-message warning time	N	2
31	dccoscalngchoice	CA language choice	C	1
32	dccoslogancset	Login announcement set	C	14
33	dccoscapryancset	CA primary announcement set	C	14
34	dccoscassecancset	CA secondary announcement set	C	14
35	dccosimapiacc	IMAPI access	C	1
36	dccosimapivctnf	IMAPI voice mail/message transfer	C	1
37	dccosfax	FAX	C	1
38	dccostruseraccess	Trusted server access	C	1
39	dnderivedcosnumber	Class of service number	N	3

Reference

getcos

NMODgetdir

Get local extension list

Data Format

Table A-39. NMODgetdir

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcdirext	Extension	C	10
6	dcdirname	Name	C	29

Reference

getdir

NMODgetfeat

Get traffic measurement data

Data Format

Table A-40. NMODgetfeat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddeatstrdate	Starting date	D	8
6	dceatendtime	Ending time	C	4
7	dneatavgnumpuse	Max of hourly average number of ports in use	N	3,1
8	dneatlocasub	Local subscribers	N	6
9	dneatvmsuclogext	VM successful logins, external	N	8
10	dneatvmsuclogint	VM successful logins, internal	N	8
11	dneatvmfaillogext	VM failed logins, external	N	8
12	dneatvmfaillogint	VM failed logins, internal	N	8
13	dneatvmsesusage	VM session usage	N	8
14	dneatvmtotmsgsent	VM total messages, sent	N	10
15	dneatvmtotmsgdel	VM total messages, deleted	N	5
16	dneatvmtotmsgcur	VM total messages, current	N	19
17	dneatvmavgstotm	VM average storage time	N	8
18	dneatvmavgcontm	VM average connect time	N	6
19	dneatcacomcalext	CA completed calls, external	N	8
20	dneatcacomcalint	CA completed calls, internal	N	8

Continued on next page

Table A-40. NMODgetfeat

Seq. No.	Data Field	Field Description	Type	Max. Width
21	dneatcaabacalex	CA abandoned calls, external	N	8
22	dneatcaabacalint	CA abandoned calls, internal	N	8
23	dneatcasesusg	CA session usage	N	8
24	dneatcamsgrec	CA messages, received	N	10
25	dneatcamsgdel	CA messages, deleted	N	5
26	dneatcamsgcur	CA messages, current	N	19
27	dneatcaavgsttm	CA average storage time	N	8
28	dneatcaavgcontm	CA average connect time	N	6
29	dneatrmtsubscr	Remote subscribers	N	8
30	dneatnonadmrmtsub	Non-administered remote subscribers	N	8
31	dneatvmbromsgsnt	VM broadcast messages, sent	N	10
32	dneatvmbromsgcur	VM broadcast messages, current	N	19
33	dneatvmlogannsnt	VM login announcements, sent	N	10
34	dneatvmloganncur	VM login announcements, current	N	19
35	dneatvmprimsgsnt	VM priority messages, sent	N	10
36	dneatvmprimsgcur	VM priority messages, current	N	19
37	dneatvmprvmsgsnt	VM private messages, sent	N	10
38	dneatvmprvmsgcur	VM private messages, current	N	19

Reference

getfea

NMODgetfrag

Get fragment data

Data Format

Table A-41. NMODgetfrag

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcragannoset	Announcement set	C	14
6	dcragfragid	Fragment ID	C	7
7	ddragvctimdate	Voice timestamp, date	D	8

Reference

getfrag

NMODgetlimit

Get system parameter limits

Data Format

Table A-42. NMODgetlimit

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dnmitrecnamfdsz	Recommended names FS size	N	9
6	dnmitminmsglen	Min message length	N	2
7	dnmitmaxlocsub	Max local subscribers	N	6
8	dnmittotlisent	Total list entries	N	6
9	dnmitlispersub	Lists per subscriber	N	3
10	dnmitreciperlis	Recipients per list	N	3
11	dnmitmaxerrlogent	Max error log entries	N	5
12	dnmittotmsgallmbx	Total messages in all mailboxes	N	6
13	dnmittotmsgawadel	Total messages awaiting delivery	N	6
14	dnmitmaxmsglen	Max message length	N	4
15	dnmitrecsysdafssz	Recommended system data FS size	N	9
16	dnmitrecvocdafssz	Recommended voice data FS size	N	9
17	dnmitrecsysstfssz	Recommended system status FS size	N	9

Continued on next page

Table A-42. NMODgetlimit — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnmitmaxadmremsub	Max admin remote subscribers	N	8
19	dnmitmaxadmlogent	Max admin log entries	N	5
20	dnmitmaxactlogent	Max activity log entries	N	5

Reference

getlimit

NMODgetlist

Get list subscribers

Data Format

Table A-43. NMODgetlist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcistsubname	Subscriber name	C	29
6	dcistextension	Extension	C	10
7	dcistclaofserv	Class of service	C	8
8	dcistmisc	Miscellaneous	C	11

Reference

getlist

NMODgetload

Get load measurement lists (by days)

Data Format

Table A-44. NMODgetload

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddoadstdate	Starting date	D	8
6	dcoadendtime	Ending time	C	4
7	dnoadsubthrlisex	Subscriber threshold list exceptions	N	5
8	dnoadsubthrlsspex	Subscriber threshold list space exceptions	N	5
9	dnoadsublwmsgspex	Subscriber lower message space exceptions	N	5
10	dnoadsubupmsgspex	Subscriber upper message space exceptions	N	5
11	dnoadsubtotsubovt	Total subscribers over threshold	N	19
12	dnoaddelresch	Deliveries rescheduled	N	8
13	dnoadmaxsimport	Maximum simultaneous ports	N	3
14	dnoadmaxvoxtxtuse	Maximum voice text used	N	9
15	dnoadminvoxtxfus	Minimum voice text free space	N	9
16	dnoadpt1usginsec	Port 1 usage in seconds	N	6
17	dnoadpt2usginsec	Port 2 usage in seconds	N	6
18	dnoadpt3usginsec	Port 3 usage in seconds	N	6

Continued on next page

Table A-44. NMODgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
19	dnoadpt4usginsec	Port 4 usage in seconds	N	6
20	dnoadpt5usginsec	Port 5 usage in seconds	N	6
21	dnoadpt6usginsec	Port 6 usage in seconds	N	6
22	dnoadpt7usginsec	Port 7 usage in seconds	N	6
23	dnoadpt8usginsec	Port 8 usage in seconds	N	6
24	dnoadpt9usginsec	Port 9 usage in seconds	N	6
25	dnoadpt10usginsec	Port 10 usage in seconds	N	6
26	dnoadpt11usginsec	Port 11 usage in seconds	N	6
27	dnoadpt12usginsec	Port 12 usage in seconds	N	6
28	dnoadpt13usginsec	Port 13 usage in seconds	N	6
29	dnoadpt14usginsec	Port 14 usage in seconds	N	6
30	dnoadpt15usginsec	Port 15 usage in seconds	N	6
31	dnoadpt16usginsec	Port 16 usage in seconds	N	6
32	dnoadpt17usginsec	Port 17 usage in seconds	N	6
33	dnoadpt18usginsec	Port 18 usage in seconds	N	6
34	dnoadpt19usginsec	Port 19 usage in seconds	N	6
35	dnoadpt20usginsec	Port 20 usage in seconds	N	6
36	dnoadpt21usginsec	Port 21 usage in seconds	N	6
37	dnoadpt22usginsec	Port 22 usage in seconds	N	6
38	dnoadpt23usginsec	Port 23 usage in seconds	N	6
39	dnoadpt24usginsec	Port 24 usage in seconds	N	6
40	dnoadpt25usginsec	Port 25 usage in seconds	N	6
41	dnoadpt26usginsec	Port 26 usage in seconds	N	6
42	dnoadpt27usginsec	Port 27 usage in seconds	N	6
43	dnoadpt28usginsec	Port 28 usage in seconds	N	6
44	dnoadpt29usginsec	Port 29 usage in seconds	N	6
45	dnoadpt30usginsec	Port 30 usage in seconds	N	6
46	dnoadpt31usginsec	Port 31 usage in seconds	N	6

Continued on next page

Table A-44. NMODgetload — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
47	dnoadpt32usginsec	Port 32 usage in seconds	N	6
48	dnoadpt1pegcnt	Port 1 peg count	N	6
49	dnoadpt2pegcnt	Port 2 peg count	N	6
50	dnoadpt3pegcnt	Port 3 peg count	N	6
51	dnoadpt4pegcnt	Port 4 peg count	N	6
52	dnoadpt5pegcnt	Port 5 peg count	N	6
53	dnoadpt6pegcnt	Port 6 peg count	N	6
54	dnoadpt7pegcnt	Port 7 peg count	N	6
55	dnoadpt8pegcnt	Port 8 peg count	N	6
56	dnoadpt9pegcnt	Port 9 peg count	N	6
57	dnoadpt10pegcnt	Port 10 peg count	N	6
58	dnoadpt11pegcnt	Port 11 peg count	N	6
59	dnoadpt12pegcnt	Port 12 peg count	N	6
60	dnoadpt13pegcnt	Port 13 peg count	N	6
61	dnoadpt14pegcnt	Port 14 peg count	N	6
62	dnoadpt15pegcnt	Port 15 peg count	N	6
63	dnoadpt16pegcnt	Port 16 peg count	N	6
64	dnoadpt17pegcnt	Port 17 peg count	N	6
65	dnoadpt18pegcnt	Port 18 peg count	N	6
66	dnoadpt19pegcnt	Port 19 peg count	N	6
67	dnoadpt20pegcnt	Port 20 peg count	N	6
68	dnoadpt21pegcnt	Port 21 peg count	N	6
69	dnoadpt22pegcnt	Port 22 peg count	N	6
70	dnoadpt23pegcnt	Port 23 peg count	N	6
71	dnoadpt24pegcnt	Port 24 peg count	N	6
72	dnoadpt25pegcnt	Port 25 peg count	N	6
73	dnoadpt26pegcnt	Port 26 peg count	N	6
74	dnoadpt27pegcnt	Port 27 peg count	N	6

Continued on next page

Table A-44. NMODgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
75	dnoadpt28pegcnt	Port 28 peg count	N	6
76	dnoadpt29pegcnt	Port 29 peg count	N	6
77	dnoadpt30pegcnt	Port 30 peg count	N	6
78	dnoadpt31pegcnt	Port 31 peg count	N	6
79	dnoadpt32pegcnt	Port 32 peg count	N	6
80	dnoadpt33usginsec	Port 33 usage in seconds	N	6
81	dnoadpt34usginsec	Port 34 usage in seconds	N	6
82	dnoadpt35usginsec	Port 35 usage in seconds	N	6
83	dnoadpt36usginsec	Port 36 usage in seconds	N	6
84	dnoadpt37usginsec	Port 37 usage in seconds	N	6
85	dnoadpt38usginsec	Port 38 usage in seconds	N	6
86	dnoadpt39usginsec	Port 39 usage in seconds	N	6
87	dnoadpt40usginsec	Port 40 usage in seconds	N	6
88	dnoadpt41usginsec	Port 41 usage in seconds	N	6
89	dnoadpt42usginsec	Port 42 usage in seconds	N	6
90	dnoadpt43usginsec	Port 43 usage in seconds	N	6
91	dnoadpt44usginsec	Port 44 usage in seconds	N	6
92	dnoadpt45usginsec	Port 45 usage in seconds	N	6
93	dnoadpt46usginsec	Port 46 usage in seconds	N	6
94	dnoadpt47usginsec	Port 47 usage in seconds	N	6
95	dnoadpt48usginsec	Port 48 usage in seconds	N	6
96	dnoadpt49usginsec	Port 49 usage in seconds	N	6
97	dnoadpt50usginsec	Port 50 usage in seconds	N	6
98	dnoadpt51usginsec	Port 51 usage in seconds	N	6
99	dnoadpt52usginsec	Port 52 usage in seconds	N	6
100	dnoadpt53usginsec	Port 53 usage in seconds	N	6
101	dnoadpt54usginsec	Port 54 usage in seconds	N	6
102	dnoadpt55usginsec	Port 55 usage in seconds	N	6

Continued on next page

Table A-44. NMODgetload — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
103	dnoadpt56usginsec	Port 56 usage in seconds	N	6
104	dnoadpt57usginsec	Port 57 usage in seconds	N	6
105	dnoadpt58usginsec	Port 58 usage in seconds	N	6
106	dnoadpt59usginsec	Port 59 usage in seconds	N	6
107	dnoadpt60usginsec	Port 60 usage in seconds	N	6
108	dnoadpt61usginsec	Port 61 usage in seconds	N	6
109	dnoadpt62usginsec	Port 62 usage in seconds	N	6
110	dnoadpt63usginsec	Port 63 usage in seconds	N	6
111	dnoadpt64usginsec	Port 64 usage in seconds	N	6
112	dnoadpt33pegcnt	Port 33 peg count	N	6
113	dnoadpt34pegcnt	Port 34 peg count	N	6
114	dnoadpt35pegcnt	Port 35 peg count	N	6
115	dnoadpt36pegcnt	Port 36 peg count	N	6
116	dnoadpt37pegcnt	Port 37 peg count	N	6
117	dnoadpt38pegcnt	Port 38 peg count	N	6
118	dnoadpt39pegcnt	Port 39 peg count	N	6
119	dnoadpt40pegcnt	Port 40 peg count	N	6
120	dnoadpt41pegcnt	Port 41 peg count	N	6
121	dnoadpt42pegcnt	Port 42 peg count	N	6
122	dnoadpt43pegcnt	Port 43 peg count	N	6
123	dnoadpt44pegcnt	Port 44 peg count	N	6
124	dnoadpt45pegcnt	Port 45 peg count	N	6
125	dnoadpt46pegcnt	Port 46 peg count	N	6
126	dnoadpt47pegcnt	Port 47 peg count	N	6
127	dnoadpt48pegcnt	Port 48 peg count	N	6
128	dnoadpt49pegcnt	Port 49 peg count	N	6
129	dnoadpt50pegcnt	Port 50 peg count	N	6
130	dnoadpt51pegcnt	Port 51 peg count	N	6

Continued on next page

Table A-44. NMODgetload — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
131	dnoadpt52pegcnt	Port 52 peg count	N	6
132	dnoadpt53pegcnt	Port 53 peg count	N	6
133	dnoadpt54pegcnt	Port 54 peg count	N	6
134	dnoadpt55pegcnt	Port 55 peg count	N	6
135	dnoadpt56pegcnt	Port 56 peg count	N	6
136	dnoadpt57pegcnt	Port 57 peg count	N	6
137	dnoadpt58pegcnt	Port 58 peg count	N	6
138	dnoadpt59pegcnt	Port 59 peg count	N	6
139	dnoadpt60pegcnt	Port 60 peg count	N	6
140	dnoadpt61pegcnt	Port 61 peg count	N	6
141	dnoadpt62pegcnt	Port 62 peg count	N	6
142	dnoadpt63pegcnt	Port 63 peg count	N	6
143	dnoadpt64pegcnt	Port 64 peg count	N	6
144	dnoadtotstuse	Total storage used (hours)	N	13, 1
145	dnoadtotstfree	Total storage free (hours)	N	13, 1
146	dnoadmsgstusd	Message storage used (hours)	N	13, 1
147	dnoadvoxnrmstus	Voiced name storage used (hours)	N	13, 1
148	dnoadperrmt	Percent remote	N	2
149	dnoadannstusd	Announcement storage used (hours)	N	13, 1

Reference

getload

NMODgetlog

Get activity log data

Data Format

Table A-45. NMODgetlog

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dclogsubname	Subscriber name	C	30
6	dclogextnum	Extension number	C	10
7	ddlogdate	Log date	D	8
8	dclogtime	Log time	C	4
9	dclogactivity	Log activity	C	10*
10	dclogdescri	Description	C	100

* The field width varies from the value listed for getlog in *AUDIX Administration and Data Acquisition Package*, 585-302-502.

Reference

getlog

NMODgetmaint

Get maintenance log data

Data Format

Table A-46. NMODgetmaint

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcintprobrestyp	Problem resource, type	C	14
6	dcintprobresins	Problem resource, instance	C	3
7	dcintprobresloc	Problem resource, location	C	11
8	dcintmsgtyp	Message type	C	3
9	dcintrepresyp	Reporting resource, type	C	14
10	dcintrepresint	Reporting resource, instance	C	3
11	dcintrepresou	Reporting resource, source	C	19
12	dcintapplication	Application	C	2
13	dcinteventid	Event ID	C	14
14	ddintdate	Date	D	8
15	dcinttime	Time	C	4
16	dcintcount	Count	C	3
17	dcinttext	Text	C	78

Reference

getmaint

NMODgetmlist

Get machine list

Data Format

Table A-47. NMODgetmlist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcistmachname	Machine name	C	10
6	dcistvoiceid	Voice ID	C	3
7	dcistmachtyp	Machine type	C	12
8	dcistcalbcknum	Callback number	C	3
9	dcistlocation	Location	C	20
11	dcistvoicename	Voice name available	C	1
10	dcistextnlength	Extension length	C	2
12	dcistdefcommunity	Default community ID	C	2
13	dcistprefix0	Prefix 0	C	22
14	dciststartextn0	Start extension 0	C	10
15	dcistendextn0	End extension 0	C	10
16	dcistprefix1	Prefix 1	C	22
17	dciststartextn1	Start extension 1	C	10
18	dcistendextn1	End extension 1	C	10
19	dcistprefix2	Prefix 2	C	22
20	dciststartextn2	Start extension 2	C	10
21	dcistendextn2	End extension 2	C	10
22	dcistprefix3	Prefix 3	C	22

Continued on next page

Table A-47. NMODgetmlist — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dciststartextn3	Start extension 3	C	10
24	dcistendextn3	End extension 3	C	10
25	dcistprefix4	Prefix 4	C	22
26	dciststartextn4	Start extension 4	C	10
27	dcistendextn4	End extension 4	C	10
28	dcistprefix5	Prefix 5	C	22
29	dciststartextn5	Start extension 5	C	10
30	dcistendextn5	End extension 5	C	10
31	dcistprefix6	Prefix 6	C	22
32	dciststartextn6	Start extension 6	C	10
33	dcistendextn6	End extension 6	C	10
34	dcistprefix7	Prefix 7	C	22
35	dciststartextn7	Start extension 7	C	10
36	dcistendextn7	End extension 7	C	10
37	dcistprefix8	Prefix 8	C	22
38	dciststartextn8	Start extension 8	C	10
39	dcistendextn8	End extension 8	C	10
37	dcistprefix9	Prefix 9	C	22
38	dciststartextn9	Start extension 9	C	10
39	dcistendextn9	End extension 9	C	10

Reference

getmlist

NMODgetnet

Get network load data

Data Format

Table A-48. NMODgetnet

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddnetstdate	Starting date	D	8
6	dcnetendtime	Ending time	C	4
7	dnnettotmgrthex	Total message transmission threshold exceptions	N	7
8	dnnettotmgrlimex	Total message transmission limit exceptions	N	7
9	dnnetrmtdelres	Remote deliveries rescheduled	N	8
10	dnnetmaxsimchan	Maximum simultaneous channels	N	3
11	dnnetotincalunan	Total incoming calls unanswered	N	5
12	dnnettotrmundemsg	Total remote undeliverable messages	N	8
13	dcnetcha1typ	Network channel 1 type	C	6
14	dnnetcha1usin	Network channel 1 usage, incoming	N	7
15	dnnetcha1usout	Network channel 1 usage, outgoing	N	7
16	dnnetcha1ustot	Network channel 1 usage, total	N	7

Continued on next page

Table A-48. NMODgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnnetcha1pegin	Network channel 1 peg count, incoming	N	6
18	dnnetcha1pegout	Network channel 1 peg count, outgoing	N	6
19	dnnetcha1pegtot	Network channel 1 peg count, total	N	6
20	dcnetcha2typ	Network channel 2 type	C	6
21	dnnetcha2usin	Network channel 2 usage, incoming	N	7
22	dnnetcha2usout	Network channel 2 usage, outgoing	N	7
23	dnnetcha2ustot	Network channel 2 usage, total	N	7
24	dnnetcha2pegin	Network channel 2 peg count, incoming	N	6
25	dnnetcha2pegout	Network channel 2 peg count, outgoing	N	6
26	dnnetcha2pegtot	Network channel 2 peg count, total	N	6
27	dcnetcha3typ	Network channel 3 type	C	6
28	dnnetcha3usin	Network channel 3 usage, incoming	N	7
29	dnnetcha3usout	Network channel 3 usage, outgoing	N	7
30	dnnetcha3ustot	Network channel 3 usage, total	N	7
31	dnnetcha3pegin	Network channel 3 peg count, incoming	N	6
32	dnnetcha3pegout	Network channel 3 peg count, outgoing	N	6
33	dnnetcha3pegtot	Network channel 3 peg count, total	N	6
34	dcnetcha4typ	Network channel 4 type	C	6

Continued on next page

Table A-48. NMODgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnnetcha4usin	Network channel 4 usage, incoming	N	7
36	dnnetcha4usout	Network channel 4 usage, outgoing	N	7
37	dnnetcha4ustot	Network channel 4 usage, total	N	7
38	dnnetcha4pegin	Network channel 4 peg count, incoming	N	6
39	dnnetcha4pegout	Network channel 4 peg count, outgoing	N	6
40	dnnetcha4pegtot	Network channel 4 peg count, total	N	6
41	dcnetcha5typ	Network channel 5 type	C	6
42	dnnetcha5usin	Network channel 5 usage, incoming	N	7
43	dnnetcha5usout	Network channel 5 usage, outgoing	N	7
44	dnnetcha5ustot	Network channel 5 usage, total	N	7
45	dnnetcha5pegin	Network channel 5 peg count, incoming	N	6
46	dnnetcha5pegout	Network channel 5 peg count, outgoing	N	6
47	dnnetcha5pegtot	Network channel 5 peg count, total	N	6
48	dcnetcha6typ	Network channel 6 type	C	6
49	dnnetcha6usin	Network channel 6 usage, incoming	N	7
50	dnnetcha6usout	Network channel 6 usage, outgoing	N	7
51	dnnetcha6ustot	Network channel 6 usage, total	N	7

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Table A-48. NMODgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
52	dnnetcha6pegin	Network channel 6 peg count, incoming	N	6
53	dnnetcha6pegout	Network channel 6 peg count, outgoing	N	6
54	dnnetcha6pegtot	Network channel 6 peg count, total	N	6
55	dcnetcha7typ	Network channel 7 type	C	6
56	dnnetcha7usin	Network channel 7 usage, incoming	N	7
57	dnnetcha7usout	Network channel 7 usage, outgoing	N	7
58	dnnetcha7ustot	Network channel 7 usage, total	N	7
59	dnnetcha7pegin	Network channel 7 peg count, incoming	N	6
60	dnnetcha7pegout	Network channel 7 peg count, outgoing	N	6
61	dnnetcha7pegtot	Network channel 7 peg count, total	N	6
62	dcnetcha8typ	Network channel 8 type	C	6
63	dnnetcha8usin	Network channel 8 usage, incoming	N	7
64	dnnetcha8usout	Network channel 8 usage, outgoing	N	7
65	dnnetcha8ustot	Network channel 8 usage, total	N	7
66	dnnetcha8pegin	Network channel 8 peg count, incoming	N	6
67	dnnetcha8pegout	Network channel 8 peg count, outgoing	N	6
68	dnnetcha8pegtot	Network channel 8 peg count, total	N	6
69	dcnetcha9typ	Network channel 9 type	C	6

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Table A-48. NMODgetnet — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
70	dnnetcha9usin	Network channel 9 usage, incoming	N	7
71	dnnetcha9usout	Network channel 9 usage, outgoing	N	7
72	dnnetcha9ustot	Network channel 9 usage, total	N	7
73	dnnetcha9pegin	Network channel 9 peg count, incoming	N	6
74	dnnetcha9pegout	Network channel 9 peg count, outgoing	N	6
75	dnnetcha9pegtot	Network channel 9 peg count, total	N	6
76	dcnetcha10typ	Network channel 10 type	C	6
77	dnnetcha10usin	Network channel 10 usage, incoming	N	7
78	dnnetcha10usout	Network channel 10 usage, outgoing	N	7
79	dnnetcha10ustot	Network channel 10 usage, total	N	7
80	dnnetcha10pegin	Network channel 10 peg count, incoming	N	6
81	dnnetcha10pegout	Network channel 10 peg count, outgoing	N	6
82	dnnetcha10pegtot	Network channel 10 peg count, total	N	6
83	dcnetcha11typ	Network channel 11 type	C	6
84	dnnetcha11usin	Network channel 11 usage, incoming	N	7
85	dnnetcha11usout	Network channel 11 usage, outgoing	N	7
86	dnnetcha11ustot	Network channel 11 usage, total	N	7

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Table A-48. NMODgetnet — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
87	dnnetcha11pegin	Network channel 11 peg count, incoming	N	6
88	dnnetcha11pegout	Network channel 11 peg count, outgoing	N	6
89	dnnetcha11pegtot	Network channel 11 peg count, total	N	6
90	dcnetcha12typ	Network channel 12 type	C	6
91	dnnetcha12usin	Network channel 12 usage, incoming	N	7
92	dnnetcha12usout	Network channel 12 usage, outgoing	N	7
93	dnnetcha12ustot	Network channel 12 usage, total	N	7
94	dnnetcha12pegin	Network channel 12 peg count, incoming	N	6
95	dnnetcha12pegout	Network channel 12 peg count, outgoing	N	6
96	dnnetcha12pegtot	Network channel 12 peg count, total	N	6

Reference

getnet

NMODgetperfcpu

Get CPU performance data.

Data Format

Table A-49. NMODgetperfcpu

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dccpuocc	Total CPU occupancy percentage	C	14
6	dccpuname	CPU name	C	50
7	dccpuqty1	Highest CPU occupancy percentage from 0 to 5 minutes	N	5
8	dccpuqty2	Highest CPU occupancy percentage from 5 to 10 minutes	N	5
9	dccpuqty3	Highest CPU occupancy percentage from 10 to 15 minutes	N	5
10	dccpuqty4	Highest CPU occupancy percentage from 15 to 20 minutes	N	5
11	dccpuqty5	Highest CPU occupancy percentage from 20 to 25 minutes	N	5
12	dccpuqty6	Highest CPU occupancy percentage from 25 to 30 minutes	N	5
13	dccpuqty7	Highest CPU occupancy percentage from 30 to 35 minutes	N	5

Table A-49. NMODgetperfcpu — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
14	dccpuqty8	Highest CPU occupancy percentage from 35 to 40 minutes	N	5
15	dccpuqty9	Highest CPU occupancy percentage from 40 to 45 minutes	N	5
16	dccpuqty10	Highest CPU occupancy percentage from 45 to 50 minutes	N	5
17	dccpuqty11	Highest CPU occupancy percentage from 50 to 55 minutes	N	5
18	dccpuqty12	Highest CPU occupancy percentage from 55 to 60 minutes	N	5

Reference

getperf

NMODgetperfhist

Get statistics on intervals between events data

Data Format

Table A-50. NMODgetperfhist

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dchistname	Event name	C	50
6	dchist	Event	C	5
7	dchistqty1	Bucket 1 - 0-5 min	N	5
8	dchistqty2	Bucket 2: 5+->min	N	5
9	dchistqty3	Bucket 3: 10+->min	N	5
10	dchistqty4	Bucket 4: 15+-> min	N	5
11	dchistqty5	Bucket 5: 20+-> min	N	5
12	dchistqty6	Bucket 6: 25+-> min	N	5
13	dchistqty7	Bucket 7: 30+-> min	N	5
14	dchistqty8	Bucket 8: 35+-> min	N	5
15	dchistqty9	Bucket 9: 40+-> min	N	5
16	dchistqty10	Bucket 10: 45+-> min	N	5
17	dchistqty11	Bucket 11: 50+-> min	N	5
18	dchistqty12	Bucket 12: 55+-> min	N	5
19	dchistqty13	Bucket 13: 60+->75 min	N	5
20	dchistqty14	Bucket 14: 75+->90 min	N	5
21	dchistqty15	Bucket 15: 90+->120 min	N	5
22	dchistqty16	Bucket 16: 2+ hrs to 3 hrs	N	5

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Table A-50. NMODgetperfhist — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dchistqty17	Bucket 17: 3+ hrs to 5 hrs	N	5
24	dchistqty18	Bucket 18: 5+ hrs to 9 hrs	N	5
25	dchistqty19	Bucket 19: 9+ hrs to 25 hrs	N	5
26	dchistqty20	Bucket 20: over 25 hours	N	5
27	dchistqty21	Not used	N	5
28	dchistqty22	Not used	N	5

Reference

getperf

NMODgetperfpeg

Get peg count performance data

Data Format

Table A-51. NMODgetperfpeg

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcpegname	Event name	C	50
6	dcpeg	Number of times event occurred	C	3
7	dcpegno	Peg number	N	5

Reference

getperf

NMODgetperfstat

Get performance statistics data

Data Format

Table A-52. NMODgetperfstat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcstatname	Event name	C	50
6	dcstat	Event type	C	4
7	dcstatqty1	Min value recorded for the particular event	N	10
8	dcstatqty2	Max value recorded for the particular event	N	10
9	dcstatqty3	Number of occurrences of the particular event	N	10
10	dcstatqty4	Total of all of the measured peg values	N	10
11	dcstatqty5	Sum of squares data	N	10

Reference

getperf

NMODgetperftod

Get time of day performance data

Data Format

Table A-53. NMODgetperftod

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dctodname	Time of day	C	11
6	dctod	Time of day	C	3
7	dctoddate	Date (yyyymmdd)	D	8
8	dctodtime	Time (hhmm using a 24-hour clock)	C	4

Reference

getperf

NMODgetperfviewid

Get machine performance data

Data Format

Table A-54. NMODgetperfviewid

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcvexidname	Machine name	C	20
6	dcvex	Machine name	C	12
7	dcvexiddata	Machine information	C	70

Reference

getperf

NMODgetralar

Get resolved alarm data

Data Format

Table A-55. NMODgetralar

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dclarrestyp	Resource type	C	10
6	dclarlocation	Location	C	11
7	dclaralrlevel	Alarm level	C	3
8	dnlarfaulcode	Fault/alarm code	N	4
9	dclaracknow	Acknowledge	C	1
10	ddlardataalr	Date alarmed	D	8
11	dclartime	Time alarmed	C	4
12	ddlarresolved	Date resolved	D	8
13	dclartimeres	Time resolved	C	4
14	dclarresreason	Resolve reason	C	6
15	dclarapplication	Application	C	2

Reference

getralar

NMODgetrem

Get remote message measurements (daily)

Data Format

Table A-56. NMODgetrem

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcremmachname	Remote machine name	C	10
6	ddremstdate	Starting date	D	8
7	dcremendtime	Ending time	C	4
8	dnremlogprmtrfs	Local original prime transfer sessions	N	5
9	dnremlognprmtrfs	Local original non-prime transfer sessions	N	5
10	dnremremprtrfs	Remote original prime transfer sessions	N	5
11	dnremrmnprtrfs	Remote original non-prime transfer sessions	N	5
12	dnremloorprugse	Local original prime usage in seconds	N	7
13	dnremloornpugse	Local original non-prime usage in seconds	N	7
14	dnremrmorpugsec	Remote original prime usage in seconds	N	7
15	dnremrmornpugsec	Remote original non-prime usage in seconds	N	7
16	dnremloorpmavusg	Local original prime average usage	N	7

Continued on next page

Table A-56. NMODgetrem — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnremloornpmavusg	Local original non-prime average usage	N	7
18	dnremrmorpavusg	Remote original prime average usage	N	7
19	dnremrmornpmavusg	Remote original non-prime average usage	N	7
20	dnremloorpmsgsnd	Local original prime messages sent	N	6
21	dnremloornpmsgsnd	Local original non-prime messages sent	N	6
22	dnremrmorpmsgsnd	Remote original prime messages sent	N	6
23	dnremrmornpmsgsnd	Remote original non-prime messages sent	N	6
24	dnremloorpmsgrej	Local original prime messages rejected	N	6
25	dnremloornpmsgrej	Local original non-prime messages rejected	N	6
26	dnremrmorpmsgrej	Remote original prime messages rejected	N	6
27	dnremrmornpmsgrej	Remote original non-prime messages rejected	N	6
28	dnremlcorpstsnd	Local original prime status sent	N	6
29	dnremlcornpstsnd	Local original non-prime status sent	N	6
30	dnremrmoprstsnd	Remote original prime status sent	C	3
31	dnremrmornprstsnd	Remote original non-prime status sent	C	3
32	dnremlcorpstrec	Local original prime status received	C	3

Continued on next page

Table A-56. NMODgetrem — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
33	dnremlcornprstrec	Local original non-prime status received	C	3
34	dnremrmorpstrec	Remote original prime status received	N	6
35	dnremrmornpstrec	Remote original non-prime status received	N	6
36	dnremmsgtratresex	Message threshold transmission exceptions	N	7
37	dnremsesfaienans	Session failures on far end, no answer	N	5
38	dnremlcorgprheds	Local original prime headers sent	N	6
39	dnremlcorgnprheds	Local original non-prime headers sent	N	6
40	dcremmechtype	Remote machine type	C	12

Reference

getrem

NMODgetremmon

Get remote message measurements (monthly)

Data Format

Table A-57. NMODgetremmon

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcremmachname	Remote machine name	C	10
6	ddremstdate	Starting date	D	8
7	dcremenddate	Ending date	D	8
8	dnremlogprmrtrfs	Local original prime transfer sessions	N	5
9	dnremlogpnrmtrfs	Local original non-prime transfer sessions	N	5
10	dnremremprtrfs	Remote original prime transfer sessions	N	5
11	dnremrmnprtrfs	Remote original non-prime transfer sessions	N	5
12	dnremloorprugse	Local original prime usage in seconds	N	7
13	dnremloornpugse	Local original non-prime usage in seconds	N	7
14	dnremrmorpugsec	Remote original prime usage in seconds	N	7
15	dnremrmornpugsc	Remote original non-prime usage in seconds	N	7
16	dnremloorpmavusg	Local original prime average usage	N	7

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Table A-57. NMODgetremmon — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
17	dnremloornpmavusg	Local original non-prime average usage	N	7
18	dnremrmorpavusg	Remote original prime average usage	N	7
19	dnremrmornpmavusg	Remote original non-prime average usage	N	7
20	dnremloorpmsgsnd	Local original prime messages sent	N	6
21	dnremloornpmsgsnd	Local original non-prime messages sent	N	6
22	dnremrmorpmsgsnd	Remote original prime messages sent	N	6
23	dnremrmornpmsgsnd	Remote original non-prime messages sent	N	6
24	dnremloorpmsgrej	Local original prime messages rejected	N	6
25	dnremloornpmsgrej	Local original non-prime messages rejected	N	6
26	dnremrmorpmsgrej	Remote original prime messages rejected	N	6
27	dnremrmornpmsgrej	Remote original non-prime messages rejected	N	6
28	dnremlcorpstsnd	Local original prime status sent	N	6
29	dnremlcornpstsnd	Local original non-prime status sent	N	6
30	dnremrmoprstsnd	Remote original prime status sent	C	3
31	dnremrmornprstsnd	Remote original non-prime status sent	C	3
32	dnremlcorpstrec	Local original prime status received	C	3

Continued on next page

Table A-57. NMODgetremmon — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
33	dnremlcornprstrec	Local original non-prime status received	C	3
34	dnremrmorpstrec	Remote original prime status received	N	6
35	dnremrmornpstrec	Remote original non-prime status received	N	6
36	dnremmsgtratresex	Message threshold transmission exceptions	N	7
37	dnremsesfaienans	Session failures on far end, no answer	N	5
38	dnremlcorgprheds	Local original prime headers sent	N	6
39	dnremlcorgnprheds	Local original non-prime headers sent	N	6
40	dcremmechtype	Remote machine type	C	12

Reference

getrem

NMODgetserve

Get trusted server list

Data Format

Table A-58. NMODgetserve

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrvetrusername	Trusted server name	C	10
6	dcrveaccroddomdel	Access to cross domain delivery	C	1
7	dcrveipaddr	IP address	C	15
8	dnrvetruserid	Trusted server ID	N	2
9	dcrvesername	Service name	C	64

Reference

getserve

NMODgetspfea

Get special features measurements

Data Format

Table A-59. NMODgetspfea

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddfcastdate	Starting date	D	8
6	dcfeaendtime	Ending time	C	4
7	dnfeaaavgnmcaptus	Average number of CA ports in use	N	3,1
8	dnfeamaxsimcapt	Maximum simultaneous CA ports	N	2
9	dnfeaaavgnmvmptus	Average number of VM ports in use	N	3,1
10	dnfeamaxsimvmpt	Maximum simultaneous VM ports	N	2
11	dnfeaaavgnmaaptus	Average number of AA ports in use	N	3,1
12	dnfeamaxsimaapt	Maximum simultaneous AA ports	N	2
13	dnfeamaxsimoutcl	Maximum simultaneous outcalls	N	3
14	dnfeaoutcallatt	Outcalls attempted	N	8

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Table A-59. NMODgetspfea — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
15	dnfeaoutcallcom	Outcalls completed	N	8
16	dnfeaoutcalresch	Outcalls rescheduled	N	8
17	dnfeacaanswoconn	Calls answered without connect	N	8

Reference

getspfea

NMODgetsub

Get local subscriber data

Data Format

Table A-60. NMODgetsub

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsubname	Subscriber name	C	29
6	dcsubexten	Extension	C	10
7	dcsubclasserv	Class of service	C	8
8	dcsubpasswd	Password	C	15
9	dnsubswitchnum	Switch number	N	2
10	dcsubmiscell	Miscellaneous	C	11
11	dcsubcovext	Covering extension	C	10
12	dcsubaddformat	Addressing format	C	9
13	dcsubcaperm	CA permissions	C	14
14	dcsubanncntl	Announcement control	C	1
15	dcsubcutcal	Outcalling	C	1
16	dcsubtxtsermech	Text service machine	C	10
17	dcsubuserid	User ID	C	30
18	dcsubinmilbxlifo	Incoming mailbox LIFO/FIFO	C	4
19	dcsubinmilbxorder	Incoming mailbox order	C	3
20	dnsubnewrettime	New retention time	N	3
21	dnsuboldrettime	Old retention time	N	3
22	dnsubunorettime	Unopened retention time	N	3

Continued on next page

Table A-60. NMODgetsub — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dcsuboutmilbxlifo	Outgoing mailbox LIFO/FIFO	C	4
24	dcsuboutmilbxorder	Outgoing mailbox order	C	5
25	dnsubfilcabrettm	File cabinet retention time	N	3
26	dnsubdelrettime	Del/Non del retention time	N	3
27	dnsubmaxvmmmsglen	Max VM message length	N	4
28	dnsubminvmspreq	Min VM space required	N	4
29	dnsubmaxcamsglen	Max CA message length	N	4
30	dnsubmincaspreq	Min CA space required	N	4
31	dnsubmaxnummillis	Max number of mailing lists	N	3
32	dnsubmaxtotmilent	Max total mailing list entries	N	5
33	dnsubmaxmilsize	Max mailbox size	N	5
34	dnsubguaspa	Guaranteed space	N	4
35	dcsubnewsname	New subscriber name	C	29
36	dcsubnewext	New extension	C	10
37	dcsublocked	Locked	C	1
38	dnsubcommid	Community ID	N	2
39	dcsybbromilbx	Broadcast mailbox	C	1
40	dcsubprimsg	Priority messages	C	1
41	dcsubbroprem	Broadcast permissions	C	5
42	dcsubendmsgwartm	End of message warning time	N	2
43	dcsubcalanch	CA language choice	C	1
44	dcsublngannoset	Login announcement set	C	14
45	dcsubcapryannoset	CA primary announcement set	C	14
46	dcsubsecannoset	CA secondary announcement set	C	14
47	dcsubimapiacc	IMAPI access	C	1

Continued on next page

Table A-60. NMODgetsub — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
48	dcsubimapivcfmt	IMAPI voice mail / message transfer	C	1
49	dcsubsecext	Secondary extension	C	10
50	dcsubfax	FAX	C	1
51	dcsubtruseracc	Trusted server access	C	1
52	dcsubperctfill	Percentage full of subscriber's mailbox	N	3
53	dcsubnooflogin	Subscriber's last login	N	5

Reference

getsub, gettrafmon

NMODgetswitc

Get system switch connection data

Data Format

Table A-61. NMODgetswitc

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcitcswcontyp	Switch connection type	C	11

Reference

getswitc

NMODgetsys

Get administration log data

Data Format

Table A-62. NMODgetsys

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	ddsysdate	Date	D	8
6	dcsysime	Time	C	4
7	dctypeveid	Type / Event ID	C	14
8	dcsyserrmsgalr	Error / Message / Alarm	C	118
9	dcsyscount	Count	C	3
10	dcsysapplication	Application	C	2

Reference

getsys

NMODgetsysat

Get system attendant data

Data Format

Table A-63. NMODgetsysat

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsatname	Name	C	29
6	dcsatext	Extension	C	10
7	dcsatallcaltnf	Allow call transfer	C	1
8	dcsatbut1ext	Button 1 extension	C	10
9	dcsatbut1com	Button 1 comment	C	29
10	dcsatbut2ext	Button 2 extension	C	10
11	dcsatbut2com	Button 2 comment	C	29
12	dcsatbut3ext	Button 3 extension	C	10
13	dcsatbut3com	Button 3 comment	C	29
14	dcsatbut4ext	Button 4 extension	C	10
15	dcsatbut4com	Button 4 comment	C	29
16	dcsatbut5ext	Button 5 extension	C	10
17	dcsatbut5com	Button 5 comment	C	29
18	dcsatbut6ext	Button 6 extension	C	10
19	dcsatbut6com	Button 6 comment	C	29
20	dcsatbut7ext	Button 7 extension	C	10
21	dcsatbut7com	Button 7 comment	C	29
22	dcsatbut8ext	Button 8 extension	C	10

Continued on next page

Table A-63. NMODgetsysat — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
23	dcsatbut8com	Button 8 comment	C	29
24	dcsatbut9ext	Button 9 extension	C	10
25	dcsatbut9com	Button 9 comment	C	29
26	dcsatbut0ext	Button 0 extension	C	10
27	dcsatbut0com	Button 0 comment	C	29
28	dcsatdfatmouext	Default timeout extension	C	10
29	dcsatlentminsc	Length of timeout in seconds	C	1
30	dcsatbut1tre	Button 1 treatment	C	14
31	dcsatbut2tre	Button 2 treatment	C	14
32	dcsatbut3tre	Button 3 treatment	C	14
33	dcsatbut4tre	Button 4 treatment	C	14
34	dcsatbut5tre	Button 5 treatment	C	14
35	dcsatbut6tre	Button 6 treatment	C	14
36	dcsatbut7tre	Button 7 treatment	C	14
37	dcsatbut8tre	Button 8 treatment	C	14
38	dcsatbut9tre	Button 9 treatment	C	14
39	dcsatbut0tre	Button 0 treatment	C	14
40	dcsattmoutr	Timeout treatment	C	14
41	dcsattmoucom	Timeout comment	C	29

Reference

getsysat

NMODgetsysfe

Get system parameters features data

Data Format

Table A-64. NMODgetsysfe

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcsfeswcntyp	Switch connection type	C	11
6	dnsfeloginret	Login retries	N	1
7	dnsfeconinvloat	Consecutive invalid login attempts	N	3
8	dcsfesysguspass	System guest password	C	15
9	dnsfeminpasslen	Minimum password length	N	2
10	dnsfeintmlimnor	Input time limit, normal	N	2
11	dnsfeintmliflto	Input time limit, full mailbox timeout	N	1
12	dnsfeintmmiwait	Input time limit, wait	N	3
13	dcsfebroadmnext	Broadcast mailbox extension	C	10
14	dnsfesysprtmsthr	System prime time, start hour	N	2
15	dnsfesysprtmstmi	System prime time, start minute	N	2
16	dnsfesysprtmehr	System prime time, end hour	N	2
17	dnsfesysprtmemi	System prime time, end minute	N	2
18	dcsfetrcolact	Traffic collection activation	C	1

Continued on next page

Table A-64. NMODgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
19	dcsfenmrecsubact	Name recording by subscriber activation	C	1
20	dcsfemulprgract	Multiple personal greetings activation	C	1
21	dcsfecaltrouauac	Call transfer out of AUDIX activation	C	1
22	dcsfeenhctract	Enhanced call transfer activation	C	1
23	dcsfecoextcatrou	Covering ext for call transfer out of AUDIX	C	10
24	dcsfecatresouau	Call transfer restriction out of AUDIX	C	11
25	dcsfeenmsgwrfeac	End-of-message warning feature activation	C	1
26	dnsfesndmsgwrtrm	End-of-message warning time	N	2
27	dcsfewkbckena	Weekly backup enabled	C	1
28	dcsfeactannset	Active announcement set	C	14
29	dcsfeadmanset	Administrative announcement set	C	14
30	dnsfercin1days	Rescheduling increment 1, days	N	2
31	dnsfercin1hrs	Rescheduling increment 1, hours	N	2
32	dnsfercin1mins	Rescheduling increment 1, minutes	N	2
33	dnsfercin2days	Rescheduling increment 2, days	N	2
34	dnsfercin2hrs	Rescheduling increment 2, hours	N	2
35	dnsfercin2mins	Rescheduling increment 2, minutes	N	2

Continued on next page

Table A-64. NMODgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
36	dnsfercin3days	Rescheduling increment 3, days	N	2
37	dnsfercin3hrs	Rescheduling increment 3, hours	N	2
38	dnsfercin3mins	Rescheduling increment 3, minutes	N	2
39	dnsfercin4days	Rescheduling increment 4, days	N	2
40	dnsfercin4hrs	Rescheduling increment 4, hours	N	2
41	dnsfercin4mins	Rescheduling increment 4, minutes	N	2
42	dnsfercin5days	Rescheduling increment 5, days	N	2
43	dnsfercin5hrs	Rescheduling increment 5, hours	N	2
44	dnsfercin5mins	Rescheduling increment 5, minutes	N	2
45	dnsfercin6days	Rescheduling increment 6, days	N	2
46	dnsfercin6hrs	Rescheduling increment 6, hours	N	2
47	dnsfercin6mins	Rescheduling increment 6, minutes	N	2
48	dnsfercin7days	Rescheduling increment 7, days	N	2
49	dnsfercin7hrs	Rescheduling increment 7, hours	N	2
50	dnsfercin7mins	Rescheduling increment 7, minutes	N	2
51	dnsfercin8days	Rescheduling increment 8, days	N	2

Continued on next page

Table A-64. NMODgetsysfe — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
52	dnsfercin8hrs	Rescheduling increment 8, hours	N	2
53	dnsfercin8mins	Rescheduling increment 8, minutes	N	2
54	dnsfercin9days	Rescheduling increment 9, days	N	2
55	dnsfercin9hrs	Rescheduling increment 9, hours	N	2
56	dnsfercin9mins	Rescheduling increment 9, minutes	N	2
57	dnsfercin10days	Rescheduling increment 10, days	N	2
58	dnsfercin10hrs	Rescheduling increment 10, hours	N	2
59	dnsfercin10mins	Rescheduling increment 10, minutes	N	2
60	dcsfecaltrtyp	Call transfer type	C	19
61	dcsferevinc	Rewind increment	C	1
62	dcsfadvinc	Advance increment	C	1
63	dcsfquisildis	Quick silence disconnect	C	1
64	dnsfesillim	Silence limit	N	2
65	dcsfetonbasdisc	Tone-based disconnect	C	1
66	dnsfepassexpint	Password expiration interval	N	3
67	dnsfeminagbfchg	Minimum age before changes	N	2
68	dnsfeexpwaring	Expiration warning	N	2
69	dnsfeauattbedig	Auto attendant between digits	N	2
70	dcsfepcalans	Priority on call answer	C	1
71	dcsfecalansdis	Call answer disable	C	1
72	dcsfaddrbefrec	Address before record	C	1

Continued on next page

Table A-64. NMODgetsysfe — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
73	dcsfecalsunid	Called subscriber ID	C	20
74	dnsfefaxprdespfx	FAX print destination prefix	N	21
75	dcsfetxtspconv	Text-to-speech conversion	C	18

Reference

getsysfe

NMODgettlst

Get remote text address list

Data Format

Table A-65. NMODgettlst

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dctlitrustedname	Trusted server name	C	29
6	dctlitxtaddr	Text address	C	64
7	dctliname	Name	C	29
8	dctlitype	Type	C	12
9	ddtlilstusdate	Last usage date	D	8

Reference

gettlst

NMODgettraf

Get subscriber measurements (daily)

Data Format

Table A-66. NMODgettraf

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrafname	Name	C	29
6	dcrafext	Extension	C	10
7	dnrafmxspusinsc	Mailbox space used in seconds	N	10
8	dnrafspallinsc	Space allowed in seconds	N	10
9	dnrafmmaxspusis	Maximum space used in seconds	N	10
10	dnrafspguinsc	Space guaranteed in seconds	N	10
11	dnrafrpmcases	Prime CA sessions	N	10
12	dnrafnprcases	Non-prime CA sessions	N	10
13	dnrafrvmases	Prime VM sessions	N	10
14	dnrafnprvmases	Non-prime VM sessions	N	10
15	dnrafrpcasesuins	Prime CA session usage in seconds	N	10
16	dnrafnprcaseuins	Non-prime CA session usage in seconds	N	10
17	dnrafrvmasesuins	Prime VM session usage in seconds	N	10

Continued on next page

Table A-66. NMODgettraf — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnrafnprvmseuins	Non-prime VM session usage in seconds	N	10
19	dnrafnprcamsgrcv	Prime CA messages received	N	10
20	dnrafnprcamsgrcv	Non-prime CA messages received	N	10
21	dnrafnprlvmmmsgrcv	Prime local VM messages received	N	10
22	dnrafnprlvmmmsgrcv	Non-prime local VM messages received	N	10
23	dnrafnprrvmmmsgrcv	Prime remote VM messages received	N	10
24	dnrafnprrvmmmsgrcv	Non-prime remote VM messages received	N	10
25	dnrafnprlvmmmsgsnd	Prime local VM messages sent	N	10
26	dnrafnprlvmmmsgsnd	Non-prime local VM messages sent	N	10
27	dnrafnprrvmmmsgsnd	Prime remote VM messages sent	N	10
28	dnrafnprrvmmmsgsnd	Non-prime remote VM messages sent	N	10
29	dnrafnprcatshc	Prime CA text service headers created	N	10
30	dnrafnprcatshc	Non-prime CA text service headers created	N	10
31	dnrafnprvmtshc	Prime VM text service headers created	N	10
32	dnrafnprvmtshc	Non-prime VM text service headers created	N	10
33	dnrafnprcommid	Community ID	N	2
34	dnrafnprvmunnot	Prime VM undeliverable notifications	N	10

Continued on next page

Table A-66. NMODgettraf — *Continued*

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnrafnprvmunnot	Non-prime VM undeliverable notifications	N	10
36	dnrafnprtovmmgcr	Prime total VM messages created	N	10
37	dnrafnprtovmmgcr	Non-prime total VM messages created	N	10
38	dnrafnprbomgcr	Prime broadcast messages created	N	10
39	dnrafnprbomgcr	Non-prime broadcast messages created	N	10
40	dnrafnprlinancr	Prime login announcements created	N	10
41	dnrafnprlinancr	Non-prime login announcements created	N	10
42	dnrafnprprmngcr	Prime priority messages created	N	10
43	dnrafnprprmngcr	Non-prime priority messages created	N	10
44	dnrafnprprvmgcr	Prime private messages created	N	10
45	dnrafnprprvmgcr	Non-prime private messages created	N	10
46	ddrafstdate	Starting date	D	8
47	dcrafendtime	Ending time	C	4

Reference

gettraf

NMODgettrafmon

Get subscriber measurements (monthly)

Data Format

Table A-67. NMODgettrafmon

Seq. No.	Data Field	Field Description	Type	Max. Width
1	dchdrCustid	Customer ID	C	14
2	dchdrmename	Managed element name	C	10
3	ddhdrdate	Date	D	8
4	dchdrtime	Time	C	4
5	dcrafname	Name	C	29
6	dcrafext	Extension	C	10
7	dnrafmxsusinsc	Mailbox space used in seconds	N	10
8	dnrafspallinsc	Space allowed in seconds	N	10
9	dnrafmaxspusis	Maximum space used in seconds	N	10
10	dnrafspguinsc	Space guaranteed in seconds	N	10
11	dnrafrmcases	Prime CA sessions	N	10
12	dnrafnpcases	Non-prime CA sessions	N	10
13	dnrafrvmases	Prime VM sessions	N	10
14	dnrafnprvmases	Non-prime VM sessions	N	10
15	dnrafrpcasesuins	Prime CA session usage in seconds	N	10
16	dnrafnprcaseuins	Non-prime CA session usage in seconds	N	10
17	dnrafrvmasesuins	Prime VM session usage in seconds	N	10

Continued on next page

Table A-67. NMODgettrafmon — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
18	dnrafnprvmseuins	Non-prime VM session usage in seconds	N	10
19	dnrafnprcamsgrcv	Prime CA messages received	N	10
20	dnrafnprcamsgrcv	Non-prime CA messages received	N	10
21	dnrafnprlvmmmsgrcv	Prime local VM messages received	N	10
22	dnrafnprlvmmmsgrcv	Non-prime local VM messages received	N	10
23	dnrafnprrvmmmsgrcv	Prime remote VM messages received	N	10
24	dnrafnprrvmmmsgrcv	Non-prime remote VM messages received	N	10
25	dnrafnprlvmmmsgsnd	Prime local VM messages sent	N	10
26	dnrafnprlvmmmsgsnd	Non-prime local VM messages sent	N	10
27	dnrafnprrvmmmsgsnd	Prime remote VM messages sent	N	10
28	dnrafnprrvmmmsgsnd	Non-prime remote VM messages sent	N	10
29	dnrafnprcatshc	Prime CA text service headers created	N	10
30	dnrafnprcatshc	Non-prime CA text service headers created	N	10
31	dnrafnprvmtshc	Prime VM text service headers created	N	10
32	dnrafnprvmtshc	Non-prime VM text service headers created	N	10
33	dnrafnprcommid	Community ID	N	2
34	dnrafnprvmunnot	Prime VM undeliverable notifications	N	10

Continued on next page

Table A-67. NMODgettrafmon — Continued

Seq. No.	Data Field	Field Description	Type	Max. Width
35	dnrafnprvmunnot	Non-prime VM undeliverable notifications	N	10
36	dnrafnprtovmmgcr	Prime total VM messages created	N	10
37	dnrafnprtovmmgcr	Non-prime total VM messages created	N	10
38	dnrafnprbomgcr	Prime broadcast messages created	N	10
39	dnrafnprbomgcr	Non-prime broadcast messages created	N	10
40	dnrafnprlinancr	Prime login announcements created	N	10
41	dnrafnprlinancr	Non-prime login announcements created	N	10
42	dnrafnprprmngcr	Prime priority messages created	N	10
43	dnrafnprprmngcr	Non-prime priority messages created	N	10
44	dnrafnprprvmgcr	Prime private messages created	N	10
45	dnrafnprprvmgcr	Non-prime private messages created	N	10
46	ddrafstdate	Starting date	D	8
47	dcrafenddate	Ending date	D	8

Reference

gettraf

Index

Symbols

/etc/hosts file, [37](#), [55](#)

A

activity log report, [94](#)

add

ME, [11](#)

subscriber, [210](#)

add_sub command, [236](#)

administration

add subscriber, [210](#)

cancel scheduled provisioning, [240](#)

change subscriber data, [223](#)

checklists

add an ME, [11](#)

initial, [10](#)

schedule reports, [12](#)

customer, [24](#)

delete subscriber, [221](#)

log on, [14](#)

managed element, [29](#)

add, [35](#)

delete, [36](#)

perform audit, [37](#)

update, [35](#)

move subscriber, [225](#)

trusted server, [17](#)

view log files, [241](#)

administration log report, [99](#)

alarm log report, [105](#)

audit, [37](#)

auto attendant information report, [112](#)

B

blk_sub commands, [237](#)

bulk provisioning, [233](#)

bulk subscriber administration, [5](#)

C

cancel, scheduled request, [240](#)

capacities, system, [7](#)

change

IMAPI password, [19](#)

subscriber data, [223](#)

- checklists
 - add an ME, [11](#)
 - initial administration, [10](#)
 - schedule reports, [12](#)
 - chg_sub commands, [236](#)
 - circuit cards, CPU, [6](#)
 - class of service report, [118](#)
 - cluster configuration, view, [2](#)
 - commands
 - add_sub, [236](#)
 - blk_sub, [237](#)
 - chg_sub, [236](#)
 - del_sub, [236](#)
 - mov_sub, [237](#)
 - configure, poll logs, [67](#)
 - COS, see class of service report
 - create
 - EPS file, [229](#)
 - reports, guidelines for, [88](#)
 - customer administration, [24](#)
 - delete ID, [28](#)
 - new ID, [26](#)
 - screen, [25](#)
 - update ID, [27](#)
 - customer ID, [26](#)
 - cut-through access
 - description, [3](#), [46](#)
 - screen, [46](#)
 - trouble accessing ME, [47](#)
-

D

- data clean up
 - clean up, [68](#)
 - data file, [69](#)
 - guidelines for, [68](#)
 - on-demand, [71](#)
 - Oracle database, [69](#)
 - scheduled, [73](#)
- data collection
 - clean up, [68](#), [69](#)
 - description of, [3](#), [50](#)
 - frequency values, [59](#)
 - on-demand, [50](#)
 - retry time, [76](#)
 - scheduled, [55](#)
 - troubleshooting, [77](#)
- data types, [54](#), [82](#)
- database schema, [82](#), [245](#)
- del_sub command, [236](#)
- delete
 - customer ID, [28](#)
 - managed element, [36](#)
 - poll logs, [65](#)
 - scheduled data collection, [60](#)
 - scheduled reports, [90](#)
 - subscriber mailbox, [221](#)

E

- Enterprise Manager, [7](#)
 - database schema, [245](#)
 - description, [1](#)
 - features
 - bulk administration, [5](#)
 - cut-through access, [3](#)
 - data collection, [3](#)
 - performance configuration, [6](#)
 - reports, [5](#)
 - subscriber administration, [4](#)
 - log on procedures, [14](#)
 - main menu, [15](#)
 - report types, [82](#)
 - reports
 - create, [88](#)
 - guidelines for creating, [88](#)
 - sample configuration, [2](#)
 - set
 - feature options, [16](#)
 - IMAPI password, [19](#)
 - IMAPI sessions, [21](#)
 - trusted server, [17](#)
 - system capacities, [7](#)
 - system requirements, [6](#)
 - TCP/IP connectivity, [1](#)
 - terminal types, [7](#)
 - transfer files, [233](#)
 - error report, [127](#)
 - external provisioning
 - cancel scheduled request, [240](#)
 - commands
 - add_sub, [236](#)
 - blk_sub, [237](#)
 - chg_sub, [236](#)
 - del_sub, [236](#)
 - mov_sub, [237](#)
 - file contents, [229](#)
 - file format, [230](#)
 - add, [230](#)
 - bulk, [233](#)
 - change, [231](#)
 - delete, [231](#)
 - move, [232](#)
 - options, command line, [238](#)
 - screen interface, [234](#)
-

F

- feature options, setting, [16](#)

features, [3](#)
 bulk subscriber administration, [5](#)
 cut-through access, [3](#)
 data collection, [3](#)
 performance configuration, [6](#)
 reports, [5](#)
 subscriber administration, [4](#)
file format, external provisioning, [230](#)
fragment report, [136](#)
frequency values, data collection, [59](#)
ftp, using to transfer files, [233](#)

G

guidelines, creating reports, [88](#)

H

hardware requirements, [6](#)

I

IMAPI
 password, setting, [19](#)
 sessions, [21](#)
IP address, for trusted server, [18](#)

L

load category, [31](#)
 definition, [41](#), [42](#)
log files, view, [241](#)
log on procedures, [14](#)

M

managed element administration, [29](#)
 add managed element, [35](#)
 delete, [36](#)
 perform audit, [37](#)
 screen, [30](#)
 update, [35](#)
managed element report, [139](#)
MAP/100, central processing unit circuit card, [6](#)
ME, see managed element administration
monthly system summary report, [142](#)
mov_sub commands, [237](#)
move subscriber, [225](#)

N

network load data report, [154](#)

O

on-demand

data clean up, [71](#)

data collection, [50](#)

reports, [82](#)

clean up, [68](#)

fragment, [136](#)

output data, [85](#)

options, feature, setting of, [16](#)

Oracle database cleanup, [69](#)

P

P5 120 MHz CPU circuit card, [6](#)

password, IMAPI, [19](#)

performance configuration, [40](#)

default file, [42](#)

default values

load definition, [42](#)

system load, [44](#)

description of, [6](#)

load definition, [42](#)

menu, [40](#)

system load, [43](#), [44](#)

windowing, [43](#)

performance monitoring, see performance configuration

poll logs

configure, [67](#)

delete, [65](#)

description of, [4](#)

query, [61](#)

PPP server, [2](#)

Q

query poll logs, [61](#)

R

remote machines report, [163](#)

remote message measurements data report, [166](#)

reports

- activity log, [94](#)
 - administration log, [99](#)
 - alarm log, [105](#)
 - auto attendant information, [112](#)
 - class of service, [118](#)
 - clean up, [68](#)
 - description of, [5](#)
 - error, [127](#)
 - fragment, [136](#)
 - generate with SQL*Report Writer, [92](#)
 - guidelines for creating, [88](#)
 - managed element, [139](#)
 - map to data types, [83](#)
 - menu, [87](#)
 - monthly system summary, [142](#)
 - network load data, [154](#)
 - output data, [85](#)
 - remote machine, [163](#)
 - remote message measurements data, [166](#)
 - scheduled
 - clean up, [69](#)
 - delete, [90](#)
 - special feature measurements, [174](#)
 - subscriber data, [184](#)
 - subscriber information, [179](#)
 - system parameters, [188](#)
 - troubleshooting, [204](#)
 - trusted server, [200](#)
 - type of, [82](#)
 - update scheduled, [90](#)
 - view, [91](#)
 - view table schema, [60](#)
- retry time, [76](#)

S

scheduled

- cancel provision request, [240](#)
- data clean up, [73](#), [75](#)
- data collection, [55](#)
 - retry time, [76](#)

reports, [82](#)

- checklist, [12](#)
- clean up, [69](#)
- delete, [90](#)
- output data, [85](#)
- update, [90](#)

schema, database, [245](#)

server, trusted, [17](#)

service name, for trusted servers, [18](#)

sessions, IMAPI, [21](#)

set feature options, [16](#)

set up

- IMAPI sessions, [21](#)
- trusted server, [17](#)

software requirements, [6](#)

- special feature measurement report, [174](#)
- SQL database, [4](#)
- SQL*ReportWriter, [92](#)
- sqlplus, [50](#), [60](#)
- subscriber administration
 - add subscriber, [210](#)
 - bulk, description of, [5](#)
 - cancel scheduled request, [240](#)
 - change subscriber data, [223](#)
 - delete subscriber, [221](#)
 - description of, [4](#), [208](#)
 - external provisioning, [229](#)
 - impacts of, [208](#)
 - move subscriber, [225](#)
 - transfer files, [233](#)
 - troubleshooting, [242](#)
 - view log files, [241](#)
- subscriber data report, [184](#)
- subscriber information report, [179](#)
- system capacities, [7](#)
- system load
 - default values, [44](#)
 - description, [43](#)
- system parameters IMAPI options screen, [22](#)
- system parameters report, [188](#)
- system requirements, [6](#)

T

- TCP/IP
 - connectivity, [1](#)
 - trusted server, [18](#)
- telnet, [3](#)
- terminal types, [7](#)
- throttling, see performance configuration
- transfer files to EM, [233](#)
- troubleshooting
 - accessing an ME, [47](#)
 - data collection, [77](#)
 - reports, [204](#)
 - subscriber administration, [242](#)
- trusted server administration
 - IMAPI password screen, [20](#)
 - IP address, [18](#)
 - service name, [18](#)
 - set up, [17](#)
 - system parameters IMAPI options screen, [22](#)
 - trusted server profile screen, [17](#)
- trusted server report, [200](#)

U

update

- customer ID, [27](#)
 - managed element, [35](#)
 - schedule data collection, [59](#)
 - scheduled data clean up, [75](#)
 - scheduled reports, [90](#)
-

V

view

- log files, [241](#)
 - reports, [91](#)
-

W

- windowing, [43](#)