

System Release 7.17.2
ASTRO® 25
INTEGRATED VOICE AND DATA



Dynamic Reports

User Guide

NOVEMBER 2017

MN004316A01-A

Copyrights

The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions.

© 2017 Motorola Solutions, Inc. All Rights Reserved

No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Furthermore, the purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patents or patent applications of Motorola Solutions, except for the normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

Disclaimer

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of a specific mobile subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

Trademarks

MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners.

European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) directive



The European Union's WEEE directive requires that products sold into EU countries must have the crossed out trash bin label on the product (or the package in some cases).

As defined by the WEEE directive, this cross-out trash bin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

This page intentionally left blank.

Contact Us

Motorola Solutions Support Center

The Solutions Support Center (SSC) is the primary Motorola Solutions support contact. Call:

- Before any software reload.
- To confirm troubleshooting results and analysis before removing and replacing a Field Replaceable Unit (FRU) and Field Replaceable Entity (FRE) to repair the system.

For...	Phone
United States Calls	800-221-7144
International Calls	302-444-9800

North America Parts Organization

For assistance in ordering replacement parts or identifying a part number, contact the Motorola Solutions Parts organization. Your first response when troubleshooting your system is to call the Motorola Solutions SSC.

For...	Phone
Phone Orders	800-422-4210 (US and Canada Orders) For help identifying an item or part number, select choice 3 from the menu.
	302-444-9842 (International Orders) Includes help for identifying an item or part number and for translation as needed.
Fax Orders	800-622-6210 (US and Canada Orders)

Comments

Send questions and comments regarding user documentation to documentation@motorolasolutions.com.

Provide the following information when reporting a documentation error:

- The document title and part number
- The page number with the error
- A description of the error

We welcome your feedback on this and other Motorola Solutions manuals. To take a short, confidential survey on Motorola Solutions Customer Documentation, go to docsurvey.motorolasolutions.com or scan the following QR code with your mobile device to access the survey.



This page intentionally left blank.

Document History

Version	Description	Date
MN004316A01-A	Original release of the <i>Dynamic Reports User Guide</i> .	November 2017

This page intentionally left blank.

Contents

Copyrights.....	3
Contact Us.....	5
Document History.....	7
List of Figures.....	11
List of Tables.....	13
List of Procedures.....	15
About Dynamic Reports User Guide.....	17
What is Covered In This Manual?.....	17
Helpful Background Information.....	17
Related Information.....	17
Chapter 1: Dynamic Reports Description.....	19
1.1 Dynamic Reports Overview.....	19
1.1.1 Templates for Zone-Level Reports.....	19
1.1.2 Templates for Site-Level Reports.....	19
1.1.3 Templates for Console Site-Level Reports	19
1.2 Purpose of Dynamic Reports.....	19
Chapter 2: Dynamic Reports Operation.....	21
2.1 Starting the Dynamic Reports Application.....	21
2.2 Running a Dynamic Report.....	22
2.3 Modifying Dynamic Report Properties.....	23
2.4 Saving Dynamic Report Data.....	24
2.5 Printing Dynamic Report Data.....	24
Chapter 3: Dynamic Reports Reference.....	25
3.1 Security Configuration Window.....	25
3.2 Dynamic Reports Dialog Box Description.....	25
3.3 Display Window Menu Bar.....	27
3.4 Report Templates.....	27
3.4.1 Dynamic Report Templates for Zone-Level Reports.....	27
3.4.2 Dynamic Report Templates for Site-Level Reports.....	29
3.4.3 Dynamic Report Templates for Console Site-Level Reports.....	30
3.5 Statistics.....	31
3.5.1 Statistics for Zone-Level Reports.....	31
3.5.2 Statistics for Site-Level Reports.....	36
3.5.3 Statistics for Console Site-Level Reports.....	39

This page intentionally left blank.

List of Figures

Figure 1: Motorola PRNM Suite icon	21
Figure 2: Example of Dynamic Report: Zone Call Activity.....	23

This page intentionally left blank.

List of Tables

Table 1: Dynamic Reports Dialog Box Parameters.....	25
Table 2: Dynamic Reports Display Window Menu Bar.....	27
Table 3: Dynamic Report Templates for Zone-Level Reports.....	27
Table 4: Dynamic Report Templates for Site-Level Reports.....	29
Table 5: Dynamic Report Templates for Console Site-Level Reports.....	30
Table 6: Statistics for Zone-Level Reports.....	31
Table 7: Statistics for Site-Level Reports.....	36

This page intentionally left blank.

List of Procedures

Starting the Dynamic Reports Application	21
Running a Dynamic Report	22
Modifying Dynamic Report Properties	23
Saving Dynamic Report Data	24
Printing Dynamic Report Data	24

This page intentionally left blank.

About Dynamic Reports User Guide

Dynamic Reports is an application that provides predefined report templates you can use to display statistics for a zone, site, or a console site (but not for a system) in near real time.

What is Covered In This Manual?

This manual contains the following chapters:

- [Dynamic Reports Description on page 19](#) This chapter describes Dynamic Report templates and the purpose of these reports.
- [Dynamic Reports Operation on page 21](#) This chapter details tasks that you will perform once the Dynamic Reports application is installed and operational on your system.
- [Dynamic Reports Reference on page 25](#) This chapter contains supplemental reference information relating to the report display and statistics.

Helpful Background Information

Motorola Solutions offers various courses designed to assist in learning about the system. For information, go to <http://www.motorolasolutions.com/training> to view the current course offerings and technology paths.

Related Information

In addition to the information in the following table, see the Helpful Background Information.

Related Information	Purpose
<i>Standards and Guidelines for Communication Sites</i>	Provides standards and guidelines that should be followed when setting up a Motorola Solutions communications site. Also known as R56 manual. This document may be purchased by calling the North America Parts Organization at 800-422-4210 (or the international number: 302-444-9842).
<i>System Documentation Overview Feature Guide</i>	For an overview of the ASTRO® 25 new system features, documentation set, technical illustrations, and system-level disaster recovery that support the ASTRO® 25 radio communication system.

This page intentionally left blank.

Chapter 1

Dynamic Reports Description

This chapter describes Dynamic Report templates and the purpose of these reports.

1.1

Dynamic Reports Overview

Dynamic Reports is an application that provides predefined report templates you can use to display statistics for a zone, site, or a console site (but not for a system) in near real time. For a complete list of report templates and descriptions of the statistics associated with them, see [Report Templates on page 27](#).



NOTICE: In systems with ISSI.1 operation, the activities of a particular object, for example a radio user or talkgroup, can be viewed only within the current system. To monitor activities of a given object across systems, view respective Dynamic Reports.

1.1.1

Templates for Zone-Level Reports

Dynamic Reports allows you to run reports to capture statistics across a zone.

For example, the **Zone Call Activity** report provides statistics for determining the levels of different call activities within the zone, such as call rejects or call terminations.

1.1.2

Templates for Site-Level Reports

Dynamic Reports allows you to run reports to capture statistics across a site.

For example, the **Site Busy Count** report provides statistics for determining the number of busies caused by lack of resources at this site or the number of busy calls originating at this site.

1.1.3

Templates for Console Site-Level Reports

Dynamic Reports allows you to run reports to capture statistics across a console site.

For example, the **Console Site Link Bandwidth Usage** report provides the percentage of bandwidth to a console site consumed by trunking calls in the time interval.

1.2

Purpose of Dynamic Reports

With Dynamic Reports, you can monitor and report usage trends and patterns of activity. Based on the results of the reports, you could do any of the following:

- Make changes in how radios and talkgroups are managed.
- Modify your system design to improve communication.
- Recommend system expansion.

This page intentionally left blank.

Chapter 2

Dynamic Reports Operation

This chapter describes the operations performed when using Dynamic Reports.

2.1

Starting the Dynamic Reports Application

Dynamic Reports is opened through the Motorola Private Radio Network Management (PRNM) Suite Application Launcher.

Procedure:

- 1 Double-click the **Motorola PRNM Suite** icon on the desktop.

Figure 1: Motorola PRNM Suite icon



The Motorola PRNM Application Launcher display window appears.

- 2 Double-click the Primary Zone Core or Backup Zone Core icon.



NOTICE: Backup Zone Core icon appears only in systems with the Dynamic System Resilience feature.

Motorola PRNM Application Launcher window displays the list of zones.

- 3 Double-click the icon for the zone that you want to monitor.

The Motorola PRNM Application Launcher display window appears with a list of PRNM application entities for each zone.

- 4 Double-click the **Dynamic Reports** icon.

A pop-up window appears displaying the SNMPv3 passphrase prompt.

- 5 Enter your Authentication Passphrase and Encryption Passphrase if the chosen security level requires inserting these credentials. For configuration information, refer to the *Private Network Management Client Feature Guide* or *SNMPv3 Feature Guide* for your ASTRO® 25 IV&D system.



NOTICE: If you cannot be authenticated using the credentials provided or a connection to the server cannot be set up from the Network Management client, the application displays an error message. The message is written to the error log file and the pop-up window reappears.

Motorola PRNM Dynamic Reports Application opens.

2.2

Running a Dynamic Report

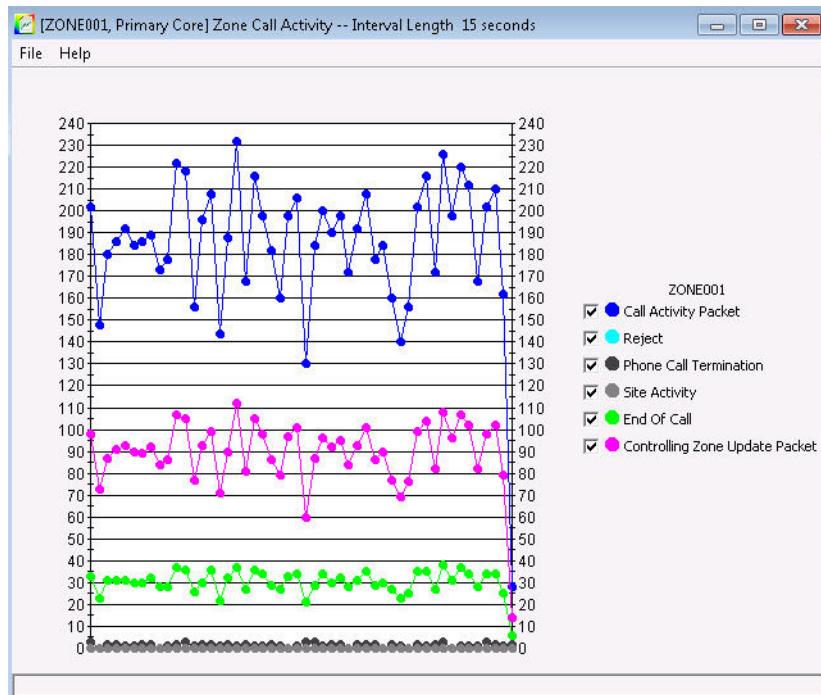
Use this procedure to monitor selected zone, site, or console site dynamically.

Procedure:

- 1 In the **Dynamic Reports** dialog box, from the **Managed Object Type** drop-down menu, select either **ZONE**, **SITE**, or **CONSOLE SITE**.
 **NOTICE:** The title bar of the dialog box displays which Mobile Switching Office (MSO) the application is connected to.
- 2 From the **Report Template** drop-down menu, select the type of report you want to run.
 **NOTICE:** The template specifies which statistics are measured. "Statistics for Zone-Level Reports", "Statistics for Site-Level Reports", and "Statistics for Console Site-Level Reports" list the statistics associated with each type of report.
- 3 From the **Managed Object Instance** field, select the specific zone, site, or console site you want to monitor.
 **NOTICE:** For some report templates, you can select multiple instances. To do so, hold down the **SHIFT** (for consecutive instances) or **CTRL** (for nonconsecutive instances) key on your keyboard as you click each instance in the list. The **Max Number of Objects Allowed** field displays the maximum number of object instances you can select in this field.
- 4 From the **Interval Length** drop-down menu, select the interval you want to measure.
 **NOTICE:** The Interval Length sets the amount of time that is represented by each measurement on the dynamic report. In combination with the **Number of Intervals** field, this setting determines how much time is represented by a complete dynamic report graph. For example, if you select an interval length of 15 seconds, and a number of intervals of 4, then the dynamic display refreshes every 15 seconds until a minute has elapsed.
- 5 In the **Number of Intervals** field, select the number of intervals you want to measure.
- 6 Click **OK**.

The dynamic report display window appears. The window is blank until the first interval has elapsed. Once the interval has elapsed, the statistical data for that interval appears. The display refreshes as each succeeding interval elapses.

Figure 2: Example of Dynamic Report: Zone Call Activity



7 In the **Dynamic Reports** display window, use check boxes to select the statistics to display.



NOTICE: When creating a Dynamic Report with a large number of intervals, expand the report window to see all the tick marks on the horizontal axis.

8 To run another report, in the **Dynamic Reports** display window, select **File → New**



NOTICE: Up to four reports can be run simultaneously.

Example:

If you want to determine the number of busied calls in a given zone, choose:

- **ZONE** for the managed object type, and specify the desired zone for the managed object instance
- **Zone Busy Count** for the report template
- **1 minute** for the interval length (interval length is the time period that the data are polled and displayed) and **5** for the number of intervals (number of intervals is the number of data points that appear in the report)

2.3

Modifying Dynamic Report Properties

After running a dynamic report, you can modify its properties and re-display the report.

Procedure:

- 1 In the **Dynamic Reports** display window, select **File → Properties**.
- 2 Modify the report properties in the **Dynamic Reports** dialog box as needed.

2.4

Saving Dynamic Report Data

Dynamic reports are displayed on screen by default.

Procedure:

Perform one of the following actions:

- To save a report as a graphic, in the **Dynamic Reports** display window select **File** → **Save Report**
- To save a report as data, in the **Dynamic Reports** display window select **File** → **Save Data**

2.5

Printing Dynamic Report Data

Procedure:

In the **Dynamic Reports** display window, select **File** → **Print**.

Chapter 3

Dynamic Reports Reference

This chapter provides reference information for the report display and statistics.

3.1

Security Configuration Window

After each attempt of launching Dynamic Reports a Security Configuration window appears. Enter credentials to pass the process of SNMPv3 authentication. Refer to the *SNMPv3 Feature Guide* for your ASTRO® 25 IV&D system for details.

3.2

Dynamic Reports Dialog Box Description

This dialog box lets you select the parameters of your report. The following table describes the parameters.

Table 1: Dynamic Reports Dialog Box Parameters

Field	Description	Range of Values	Default
Managed Object Type	The object for which you want to create a report	<ul style="list-style-type: none"> ZONE SITE CONSOLE SITE 	N/A
Report Template	List of predefined report templates	<p>For ZONE:</p> <ul style="list-style-type: none"> Zone Average Sites Per Call Zone Average Number of Sites in a Busied Call Zone Busy Count Zone Busy Service Zone Call Activity Zone Call Level Count Zone Call Properties Zone Call Site Usage Percentages Zone Call Type PTT Count Zone Resource Utilization Zone Non-Voice Activity Zone Reject Graph <p>For SITE:</p> <ul style="list-style-type: none"> Site Channel Utilization 	N/A

Table continued...

Field	Description	Range of Values	Default
		<ul style="list-style-type: none"> • Site Busy Count • Site Busy Service • Site Call Activity • Site Call Type PTT Count 	
		For CONSOLE SITE: <ul style="list-style-type: none"> • Console Site Denied Service • Console Site Busy Service • Console Site Call Type PTT Count • Console Site Link Bandwidth Usage 	
Report Description	Description of the selected report template	N/A	N/A
Managed Object Instance	List of the available managed object instances for the selected managed object type	Zone IDs, Site IDs, and Console Site IDs	N/A
Maximum Number of Objects Allowed	Maximum number of managed objects you can select in the Managed Object Instance field	Varies depending upon the selected report template and managed objects	N/A
Number of Intervals	Number of intervals you wish to display	Depends on the selected managed object (absolute max = 100 intervals)	50
Interval Length	Amount of time that is represented by each measurement on the dynamic report	<ul style="list-style-type: none"> • 15 seconds • 1 minute • 15 minutes 	15 seconds
OK button	Displays the Dynamic Reports display window (if you have selected a template and intervals)		N/A
Cancel button	Closes the dialog box without saving your selections		N/A
Help button	Displays online help for this application		N/A

3.3

Display Window Menu Bar

Table 2: Dynamic Reports Display Window Menu Bar

Menu	Option	Description
File	New	Opens a blank Dynamic Reports dialog box so you can create and run a new report.
	Properties	Opens the Dynamic Reports dialog box for the current report so you can modify its properties and then re-display it.
	Save Report	Opens the Save As dialog box so you can save a graphic of the current report and select a location to store it.
	Save Data	Opens the Save As dialog box so you can save the raw data from the report and select a location to store it.
	Print	Prints the graphic of the current report.
	Close	Closes the Dynamic Reports display window. If this is the only report window open, it also closes the Dynamic Reports application.
Help	Exit	Exits the Dynamic Reports application.
	Help Topics	Displays online help for this application.
	About	Displays copyright information for this application.

3.4

Report Templates

Templates and purposes are described for the following report types:

- [Dynamic Report Templates for Zone-Level Reports on page 27](#)
- [Dynamic Report Templates for Site-Level Reports on page 29](#)
- [Dynamic Report Templates for Console Site-Level Reports on page 30](#)

3.4.1

Dynamic Report Templates for Zone-Level Reports

Table 3: Dynamic Report Templates for Zone-Level Reports

Report Template	Description	Purpose
Zone Average Sites Per Call	Provides: <ul style="list-style-type: none"> • Average number of sites involved in group calls • Average number of sites involved in private calls • Average number of sites involved in emergency calls 	Use this report to track how call traffic is disbursed among the sites in the zone. Note the number of sites involved in a call. If more than two sites are involved in a private call, there may be a problem with duplicate Radio IDs.

Table continued...

Report Template	Description	Purpose
Zone Average Number of Sites in a Busied Call	<p>Provides:</p> <ul style="list-style-type: none"> Average number of sites requested. Average number of sites that were busy in busied calls. Total number of calls that received a busy 	Use this report to track how often busied calls occur among the sites in the zone.
Zone Busy Count	Provides a list of busies categorized by the cause of the busy condition (for example, no site resources).	Use this report to track reasons for busied calls occurring in the zone.
Zone Busy Service	Provides a list of busies categorized by service type (group, private, phone, etc.).	Use this report to track busied calls by service type.
Zone Call Activity	<p>Provides:</p> <ul style="list-style-type: none"> Call rejects Site activity packets Call activity packets 	Use this report to track current call activity levels in the zone.
Zone Call Level Count	<p>Provides:</p> <ul style="list-style-type: none"> Number of single-zone calls Number of multizone calls, broken down into: <ul style="list-style-type: none"> Controlling zone calls Participating zone calls 	Use this report to track how calls are disbursed among zones.
Zone Call Properties	<p>Provides:</p> <ul style="list-style-type: none"> Number of secure calls made within the zone. Number of clear calls made within the zone. 	Use this report to determine how many secure and clear calls were made within the zone.
Zone Call Site Usage Percentages	Provides individual statistics for the distribution of calls involving 10 or more sites.	Use this report to track how often calls span multiple sites within the zone.
Zone Call Type PTT Count	<p>Provides:</p> <ul style="list-style-type: none"> Types of calls made, divided into: <ul style="list-style-type: none"> Group calls Private calls Emergency calls Phone (interconnect) calls Number of Push-to-Talks (PTTs), divided into: 	Use this report to track types of calls and PTTs occurring within the zone.
 NOTICE: PTTs made by consoles and radios during private calls and Conventional Talkgroup Calls are not counted toward the PTT statistics kept by Dynamic Reports.		

Table continued...

Report Template	Description	Purpose
	<ul style="list-style-type: none"> - Console PTTs - Non-Console PTTs • Data Channel Allocations 	
Zone Resource Utilization	Provides: <ul style="list-style-type: none"> • Data Channel Utilization • High Watermark for transcoded calls • Highest percent utilization of transcoded calls • Transcoding available capacity 	Use this report to track resource utilization as a percentage of current activity within the zone.
Zone Non-Voice Activity	Provides levels of non-voice related activities within the zone, such as affiliations and deaffiliations.	Use this report to determine the levels of non-voice related activities within the zone.
Zone Reject Graph	Provides different types of call rejects, such as console rejects, invalid site rejects, and group rejects.	Use this report to determine the primary causes of call rejects.

3.4.2

Dynamic Report Templates for Site-Level Reports

Table 4: Dynamic Report Templates for Site-Level Reports

Report Template	Description	Purpose
Site Channel Utilization	Provides: <ul style="list-style-type: none"> • Relative use of the site for the different call types • Site utilization 	Use this report to track call types as a percentage of current activity within the site.
Site Busy Count	Provides list of busies categorized by the cause of the busy condition (for example, no site resources).	Use this report to track reasons for busied calls occurring in the site.
Site Busy Service	Provides list of busies categorized by service type (group, private, phone, etc.).	Use this report to track busied calls by service type.
Site Call Activity	Provides: <ul style="list-style-type: none"> • Call rejects • Site activity packets • Call activity packets 	Use this report to track current call activity levels in the site.
Site Call Type PTT Count	Provides: <ul style="list-style-type: none"> • Types of calls made, divided into: 	Use this report to track types of calls and PTTs occurring within the site.

Report Template	Description	Purpose
	<ul style="list-style-type: none"> - Group calls - Private calls - Emergency calls - Phone (interconnect) calls • Number of Push-to-Talks (PTTs), • Number of grants • Number of active calls • Data channel allocations count 	 NOTICE: PTTs made by consoles and radios during private calls are not counted toward the PTT statistics kept by Dynamic Reports.

3.4.3

Dynamic Report Templates for Console Site-Level Reports

Table 5: Dynamic Report Templates for Console Site-Level Reports

Report Template	Description	Purpose
Console Site Link Bandwidth Usage	<p>Provides:</p> <ul style="list-style-type: none"> • Trunking BW Utilization • Conventional BW Utilization • Trunking and Conventional Talkgroup BW Utilization 	Use this report to track the percentage of bandwidth to a console site consumed by trunking, conventional, and Conventional Talkgroup calls in the time interval.
Console Site Denied Service	<p>Provides:</p> <ul style="list-style-type: none"> • Denied Analog Conventional Call Count • Denied Conventional Talkgroup Call Count • Denied Digital Conventional Call Count • Denied Digital Conventional Emergency Call Count 	Use this report to track the total number of conventional calls denied participation at this console site.
Console Site Busy Service	<p>Provides:</p> <ul style="list-style-type: none"> • Busy Conventional Talkgroup Calls • Busy Emergency Calls • Busy Group Calls • Busy Private Calls • Channel Busy Conventional Talkgroup Calls 	Use this report to track the types of busy calls at this site.
Console Site Call Type PTT Count	Provides:	Use this report to track the total number of calls made at this site.

Report Template	Description	Purpose
	<ul style="list-style-type: none"> • Group Calls • Private Calls • Emergency Calls • Push-to-Talks • Analog Conventional Call • Digital Conventional Call • Digital Conventional Emergency Call • Secure Digital Conventional Call • Clear Digital Conventional Call • Conventional Talkgroup Call • Conventional Talkgroup Emergency Call • Clear Conventional Talkgroup Call • Secure Conventional Talkgroup Call • Grant Count • Total Active Calls 	 NOTICE: Push-to-Talk (PTT) commands made by consoles and radios during private calls are not counted toward the PTT statistics kept by Dynamic Reports. PTT commands and Grant Count statistics do not include any Conventional Talkgroup Calls activities.

3.5

Statistics

Templates and statistics are described for the following report types:

- [Statistics for Zone-Level Reports on page 31](#)
- [Statistics for Site-Level Reports on page 36](#)
- [Statistics for Console Site-Level Reports on page 39](#)

3.5.1

Statistics for Zone-Level Reports

Table 6: Statistics for Zone-Level Reports

Report Template	Report Statistic	Description
Zone Average Sites Per Call	Group Call Site Count	The average number of sites in a zone used for non-emergency group calls.
	Private Call Site Count	The average number of sites in a zone used for private calls. Private calls are made between two radios.

Table continued...

Report Template	Report Statistic	Description
Zone Average Number of Sites in a Bused Call	Emergency Call Site Count	The average number of sites in a zone used for emergency calls.
	Requested Sites	The average number of sites in a zone that were requested to participate in calls that received a busy.
	Busy Sites	The average number of sites in a zone that were busy when requested to participate in calls that received a busy.
Zone Busy Count	Number of Busy Calls	The total number of calls that received a busy.
	No Zone Resources	The count of all calls that received a busy in a zone due to no zone resources being available.
	No Site/Channel Resources	The count of all calls that received a busy in a zone due to no site resources being available.
	Individual Call Contention	The count of all individual calls that received a busy in a zone due to call contention or conflicts.
	Group Call Contention	The count of talkgroup and multigroup calls in a zone that received a busy due to call contention or conflict.
	Site Wide Call Contention	The count of all site calls that received a busy due to a call contention or conflict.
	Transcoder Current Busy Count	The number of calls being busy due to no transcoding resources within selected time interval.
	Busy Data Channel Requests	The count of all requests for allocation of a data channel that received a busy in a zone. The statistic represents the sum of all such busies received at all sites in the zone.
	Busy Group Calls	The count of all non-emergency group calls that received a busy.
	Busy Private Calls	The count of all private calls that received a busy.



NOTICE: A zone counts all calls that received a busy within the zone. The system counts all unique calls that received a busy within the system (this is done by counting each call made by the radio user that received a busy at the controlling zone of the radio user).

Table continued...

Report Template	Report Statistic	Description
		 NOTICE: A zone counts all calls that received a busy within the zone. The system counts all unique calls that received a busy within the system (this is done by counting each call made by the radio user that received a busy at the controlling zone of the radio user).
	Busy Phone Calls	The count of all phone calls that received a busy.  NOTICE: A zone counts all calls that received a busy within the zone. The system counts all unique calls that received a busy within the system (this is done by counting each call made by the radio user that received a busy at the controlling zone of the radio user).
	Busy Emergency Calls	The count of all emergency calls that received a busy in a zone.  NOTICE: A zone counts all calls that received a busy within the zone. The system counts all unique calls that received a busy within the system (this is done by counting each call made by the radio user that received a busy at the controlling zone of the radio user).
Zone Call Activity	Call Activity Packet	The count of all ATIA packets received in a zone that are related to call activity.
	Reject	The count of all reject calls received in a zone.
	Phone Call Termination	The count of all terminated phone calls received by any site within a zone.
	Site Activity	The count of all ATIA packets related to site activity for any site within the zone.  NOTICE: This value may additionally reflect the periodic link validation between the Air Traffic Router and Zone Controller, typically once every 60 seconds.
	End of Call	The count of all ATIA End of Call packets received in a zone.
	Controlling Zone Update Packet	The count of all ATIA Controlling Zone Update Packets (CZU) received in a zone.

Table continued...

Report Template	Report Statistic	Description
Zone Call Level Count	Single Zone Call	The count of all active calls received in a zone.
	Multi-Zone Call (CZ)	The count of active calls in a zone that involved multiple zones where the zone is the controlling zone.
	Multi-Zone Call (PZ)	The count of active calls in a zone that involved multiple zones where the zone is a participating zone.
Zone Call Properties	Secure	The count of all active calls in a zone that were secure calls.
	Clear	The count of all active calls in a zone that were clear calls.
Zone Call Site Usage Percentages	One Site	The percentage of all active calls received within a zone that involved one site in the zone.
	Two Sites	The percentage of all active calls received within a zone that involved two sites in the zone.
	Three Sites	The percentage of all active calls received within a zone that involved three sites in the zone.
	Four Sites	The percentage of all active calls received within a zone that involved four sites in the zone.
	Five Sites	The percentage of all active calls received within a zone that involved five sites in the zone.
	Six Sites	The percentage of all active calls received within a zone that involved six sites in the zone.
	Seven Sites	The percentage of all active calls received within a zone that involved seven sites in the zone.
	Eight Sites	The percentage of all active calls received within a zone that involved eight sites in the zone.
	Nine Sites	The percentage of all active calls received within a zone that involved nine sites in the zone.
	Ten or More Sites	The percentage of all active calls received within a zone that involved ten or more sites in the zone.
Zone Call Type PTT Count	Group Call	The count of all talkgroup calls that are received at the zone.

Table continued...

Report Template	Report Statistic	Description
	Private Call	The count of all private calls that are received at the zone.
	Emergency Call	The count of all emergency calls made in a zone. A zone counts all emergency calls received at any site in the zone.
	Interconnect Call	The count of all phone calls that are received at the zone.
	Console PTT	The count of all unique Push-to-Talks made by all consoles within a zone.
		 NOTICE: PTTs made by consoles and radios during private calls are not counted toward the PTT statistics kept by Dynamic Reports.
	Non-Console PTT	The count of all unique Non-Console Push-to-Talks made by all radios within a zone.
		 NOTICE: PTTs made by consoles and radios during private calls are not counted toward the PTT statistics kept by Dynamic Reports.
	Data Channel Allocations	The count of allocations of data channels in a zone. The statistic represents the sum of all such allocations for all sites in the zone. This statistic is the count of data calls which had some active duration.
Zone Resource Utilization	Data Channel Utilization	The percentage of data channel resources in a zone that were in use during an interval. Per interval, this is data channel duration of a zone divided by the number of channels configured for data at all sites in the zone multiplied by the length of the interval in seconds.
	High Watermark for Transcoded Calls	The highest number of simultaneous calls that use a dynamic transcoder in a zone for the selected time interval.
	Highest Percent Utilization of Transcoded Calls	Highest percent utilization calculated by number of dynamic transcoder resources in use over the actual total resources available for the selected time interval.
	Transcoding Available Capacity	The last reported number of dynamic transcoder resources available within the selected time interval.
Zone Non-Voice Activity	Non-Voice Service Packet	The count of all ATIA packets received in a zone that are not related to call activity.
	Emergency Status Packet	The count of all ATIA radio status packets related to emergency alarm events that are received in a zone.

Table continued...

Report Template	Report Statistic	Description
Zone Reject Graph	Command	The count of all commands that were received in a zone.
	Command Reject	The count of all commands that were rejected in a zone.
	Affiliation	The count of all affiliations by radios within a zone. A zone counts each affiliation made by any radio at any site within a zone.
	Deaffiliation	The count of all deaffiliations by radios within a zone. A zone counts each deaffiliation made by any radio at any site within the zone.
	Resource Removed	The count of all ATIA Rsrc Removed packets received in a zone.
	Trespass	The count of all ATIA RST Trespass packets received in a zone.
Zone Reject Graph	Requester Reject	The count of all requester rejects received in a zone.
	Target Reject	The count of target rejects received in a zone.
	Console Reject	The count of console rejects received in a zone.
	Group Reject	The count of group rejects received in a zone.
	Invalid Site Reject	The count of invalid site rejects received in a zone due to an invalid site being requested.
	Resource Reject	The count of resource rejects received in a zone due to resources not being available for use in a call.



NOTICE: The call count statistic is incremented only after the call is completed. If a call is active during a change of interval, the duration gets modified at the change of interval, but the count does not. The count is incremented only at the end of a call.

3.5.2

Statistics for Site-Level Reports

Table 7: Statistics for Site-Level Reports

Report Template	Report Statistic	Description
Site Channel Utilization	Group Call	The percentage of total site capacity that were non-emergency group calls.
	Private Call	The percentage of total site capacity that were private calls.
	Phone Call	The percentage of total site capacity that were interconnect calls.

Table continued...

Report Template	Report Statistic	Description
	Emergency Call	The percentage of total site capacity that were emergency calls.
	Data Call	The percentage of total site capacity that were data calls. Per interval, this is the data channel duration of the site divided by the number of channels at the sites multiplied by the length of the interval in seconds.
	Control Channel	The percentage that a channel was used as a Control Channel for an interval.
	Dynamic Frequency Block	The percentage of channels in a site that were blocked in an interval. Dynamic Frequency Block duration/ Number of Channels * Interval Length
	Percent Usage	The percentage a site was in use for an interval. Per interval, this is active call duration of a site (including data channel usage) divided by the number of voice channels at the site multiplied by the length of the interval in seconds and minus the blocked duration for the site.
	One or More Busy Calls	The percentage of time at least one call was busied due to no resources at this site. This includes busy data channels.
	Data Channel Utilization	The percentage of data channel resources of a site that were in use during an interval. Per interval, this is the data channel duration divided by the number of channels configured for data at the site multiplied by the length of the interval in seconds.
Site Busy Count	Busy No Resource	The count of all calls that received a busy due to no site resources being available.
	Source For	The count of calls originating at this site that were busied. The "Source for" means that this site is the source of the busy call (for example, this busy call is initiated at this site).
	Busy Data Channel Requests	The count of all requests for allocation of a data channel that received a busy at the site.
Site Busy Service	Busy Data Channel Requests	The count of all requests for allocation of a data channel that received a busy at the site.

Table continued...

Report Template	Report Statistic	Description
	Busy Group Calls	The count of all non-emergency group calls received at a site that received a busy.
	Busy Private Calls	The count of all private calls received at a site that received a busy.
	Busy Phone Calls	The count of all phone calls received at a site that received a busy.
	Busy Emergency Calls	The count of all emergency calls received at a site that received a busy.
Site Call Activity	Call Activity Packet	The count of all ATIA packets received at a site that are related to call activity.
	Non-Voice Service Packet	The count of all ATIA packets received at a site that are not related to call activity.
	Emergency Status Packet	The count of all ATIA radio status packets related to emergency alarm events that are received at a site.
	Reject Count	The count of all reject calls received at a site.
	Affiliation Count	The count of all affiliations by radios within a site.
	Deaffiliation Count	The count of all deaffiliations by radios within a site.
	Site Activity	The count of all ATIA packets related to site activity for a site.
Site Call Type PTT Count	Group Call	The count of all talkgroup calls received at a site.
	Private Call	The count of all private calls received at a site.
	Emergency Call	The count of all emergency calls received at a site.
	Interconnect Call	The count of all phone calls received at a site.
	PTT	The count of all group call Push-to-Talks in a call received at a site.
		 NOTICE: PTTs made by consoles and radios during private calls are not counted toward the PTT statistics kept by Dynamic Reports.
	Grant Count	The count of all grants at a site.
	Total Active Calls	The count of all group, private, phone, and emergency calls received at a site.

Table continued...

Report Template	Report Statistic	Description
	Data Channel Allocations	The count of allocations of data channels at the site. This statistic is the count of data calls which had some active duration.

 **NOTICE:** The call count statistic is incremented only after the call is completed. If a call is active during a change of interval, the duration gets modified at the change of interval, but the count does not. The count only gets incremented at the end of a call.

3.5.3

Statistics for Console Site-Level Reports

Statistics for Console Site-Level Reports

Report Template	Report Statistic	Description
Console Site Link Bandwidth Usage	Trunking BW Utilization	The percentage of bandwidth to a console site consumed by the trunking calls in the time interval.
	Trunking and Conventional Talkgroup BW Utilization	The percentage of bandwidth to a console site consumed by the trunking and conventional talkgroup calls in the time interval.
	Conventional BW Utilization	The amount of configured conventional call count actually used on the console site link. This aggregates analog and digital conventional calls.
Console Site Denied Service	Denied Analog Conventional Call Count	The count of analog conventional calls denied participation by this console site.
	Denied Conventional Talkgroup Call Count	The count of conventional talkgroup calls denied participation by this console site.
	Denied Digital Conventional Call Count	The count of digital conventional calls denied participation by this console site.
	Denied Digital Conventional Emergency Call Count	The count of digital conventional emergency calls denied participation by this console site.
Console Site Busy Service	Busy Group Calls	The count of all non-emergency group call busies involving this console site.
	Busy Private Calls	The count of all private call busies involving this console site.
	Busy Emergency Calls	The count of all emergency call busies involving this console site.

Table continued...

Report Template	Report Statistic	Description
	Busy Conventional Talkgroup Calls	The count of all non-emergency conventional talkgroup call busies involving this console site.
	Channel Busy Conventional Talkgroup Calls	The count of all non-emergency conventional talkgroup call busies involving this console site that were busied due to another console originated conventional talkgroup call on the same conventional talkgroup channel located in the same zone as that console site.
Console Site Call Type	Group Call	The count of all group calls that involved this site.
PTT Count	Private Call	The count of all private calls that involved this site.
	Emergency Call	The count of all emergency calls that involved this site.
	PTT	The count of all Push-to-Talks on a talkgroup at this console site.
	Grant Count	The count of all grants at this console site.
	Total Active Calls	The count of all group, private, phone, emergency, conventional, and conventional talkgroup calls that involved this site.
	Analog Conventional Call	The count of analog conventional calls that involved this console site.
	Digital Conventional Call	The count of digital conventional calls that involved this console site.
	Digital Conventional Emergency Call	The count of digital conventional emergency calls that involved this console site.
	Secure Digital Conventional Call	The count of secure digital conventional calls that involved this console site.
	Clear Digital Conventional Call	The count of clear digital conventional calls that involved this console site.
	Conventional Talkgroup Call	The count of conventional talkgroup calls that involved this console site.
	Conventional Talkgroup Emergency Call	The count of conventional talkgroup emergency calls that involved this console site.
	Secure Conventional Talkgroup Call	The count of secure conventional talkgroup calls that involved this console site.

Table continued...

Report Template	Report Statistic	Description
	Clear Conventional Talkgroup Call	The count of clear conventional talk-group calls that involved this console site.

This page intentionally left blank.