System Release 7.17
ASTRO® 25
INTEGRATED VOICE AND DATA

# ATIA Log Viewer

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# Document History

| Version | Description | Date |
|---|---|---|
| MN003235A01-A | Original release of the *ATIA Log Viewer* manual. | November 2016 |

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# About ATIA Log Viewer

The Air Traffic Information Access (ATIA) Log Viewer is a Motorola System Traffic Monitor (STM) Suite application that displays log files generated by the Air Traffic Router server application (ATR) and ZoneWatch. These log files contain records of all recent zone activity, such as site registrations and calls processed.

## What is Covered in This Manual

This document describes the ATIA Log Viewer application of the Motorola Private Radio Network Management system.

## 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

Refer to the following documents for associated information about the radio system.

| Related Information | Description |
|---|---|
| *Standards and Guidelines for Communication Sites* | Provides standards and guidelines that should be followed when setting up a Motorola Solutions communications site. Also known as the R56 manual. This manual may be purchased on CD 9880384V83, by calling the North America Parts Organization at 800-422-4210 (or the international number: 302-444-9842). |
| *System Overview and Documentation* | For an overview of the ASTRO® 25 system documentation, open the graphical user interface for the ASTRO® 25 system documentation set and select the **System Documentation Overview** link. This opens a file that includes:<br>• ASTRO® 25 system release documentation descriptions<br>• ASTRO® 25 system diagrams<br>For an additional overview of the system, review the architecture and descriptive information in the manuals that apply to your system configuration. |
| *Securing Protocols with SSH* | Provides information relating to the implementation and management of the Secure SHell (SSH) protocol for secure transmission of data between devices in an ASTRO® 25 system. Includes configuration sequences that minimize downtime when adding this feature to a system that is already in operation. |

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Chapter 1

# Description

The Air Traffic Information Access (ATIA) Log Viewer is a Private Radio Network Management (PRNM) Suite application that displays the Air Traffic Router (ATR) log files. These log files contain records of all recent zone activity, such as site registrations and processed calls.

## 1.1 ATIA Log Viewer Overview

The ATIA Log Viewer application permits you to view the “raw” ATIA data straight from the ATIA log files. For an overview, see the following figure.

The ATIA Log Viewer allows you to examine air traffic historical data within channels and sites in the zone, within a particular time interval.

**IMPORTANT:** ATIA data logging must be enabled through the Air Traffic Router (ATR) server Administration Menu. Otherwise, no ATIA log data is collected for viewing.

### 1.1.1 ATIA Log Viewer Features

The ATIA Log Viewer application displays ATIA log files that have been archived in the zone. ATIA messages are recorded and archived daily for all call processing activities and other site events in the zone. The ATIA Log Viewer allows you to select one of the daily log files and view activities that took place in the system.

The ATIA Log Viewer allows you to examine air traffic historical data in a specified zone for one or more specified time intervals. ATIA Log Viewer displays the following data:

- Radio events that have occurred within a zone, active sites, channel numbers, and radio affiliations
- Events occurring at specified intervals in the zone.

This feature is normally used to examine data logs when debugging the system. The ATIA Log Viewer records the last 25 hours of ATIA data packets on the ATR server application. The data displays on an hourly basis, and you can select the interval packets that you want to view. Additionally ATIA Log Viewer provides daily archives for up to 30 days, if there is enough allocated disk space.

The data is displayed in an easy-to-read, text-based format which can be printed, saved, or copied into a third-party application for future evaluation.

ATIA messages include the date, time, and description of the event that occurred (such as a radio registration, call request, or site handover).

ATIA Log Viewer allows to download binary log files and archives from ATR server application using either ATIA Log Viewer menu option “Save as” or the non-interactive options.

The ATR log files are transferred to the ATIA Log Viewer using the File Transfer Protocol (FTP), and decoded into a text format. The maximum size of a log file generated within an hour cannot exceed a specified value (20 MB). When the limit is reached, a new log file is generated. If the size of a log file does not exceed the limit, the data is displayed on an hourly basis. Otherwise, the data is displayed whenever a new log file is generated.

There is a possibility to watch archived logs stored on a local drive. They are displayed in a separate tab. For more information on how to access them go to Accessing Archived ATIA Logs on page 23 section.

The ATIA Log Viewer allows to save binary log files and archives from ATR server application with **Save as** menu option. For more information, see: Downloading ATIA Logs Interactively on page 22 section.

The ATIA Log Viewer supports Controlled Channel Access Data calls. You can view logs of call processing events and resource assignments for both classic and CCA Data calls.

The ATIA Log Viewer supports Random Access Data calls. You can view logs of call processing events and resource assignments for both classic and RA Data calls.

The ATIA stream contains information necessary to distinguish between FDMA and TDMA call types for talkgroup, emergency, multigroup, supergroup (patch and msel), interconnect, and unit-to-unit calls.

## 1.2 ATIA Log Viewer Window

This section describes the ATIA Log Viewer Window.

The ATIA Log Viewer Window consists of three menus and the list of available report dates from the most recent log files. The report date includes: time, day, date, year, and size. For files stored on the ATR server, the time denotes the time of the arrival of the first packet logged to a file. Time and date portions denote the time when a log was created. In case of files opened from a local drive, what is shown is only a file name.

The contents pane consists of three tabs:

- Current logs tab – shows current logs.
- Local logs tab – shows logs added by the user.
- Archived logs tab – shows archived logs in zip format. When one is chosen, it is displayed in the fourth tab.

The ATIA Log Viewer application launches a document processor associated with doc files. In this example, the document processor is Wordpad.

Chapter 2

# Operation

The ATIA Log Viewer application performs several user-oriented functions.

## 2.1 Viewing ATIA Logs

The ATIA Log Viewer allows you to examine air traffic historical data in a specified zone for a particular time interval or intervals. shows you how to use the ATIA Log Viewer to select, open, and examine data log files.

**Prerequisites:** ATIA data logging must be enabled through the Air Traffic Router (ATR) Administration Menu. Otherwise, no ATIA log data is collected for viewing. Historical reports data is collected regardless of the ATIA log setting.

**Procedure:**

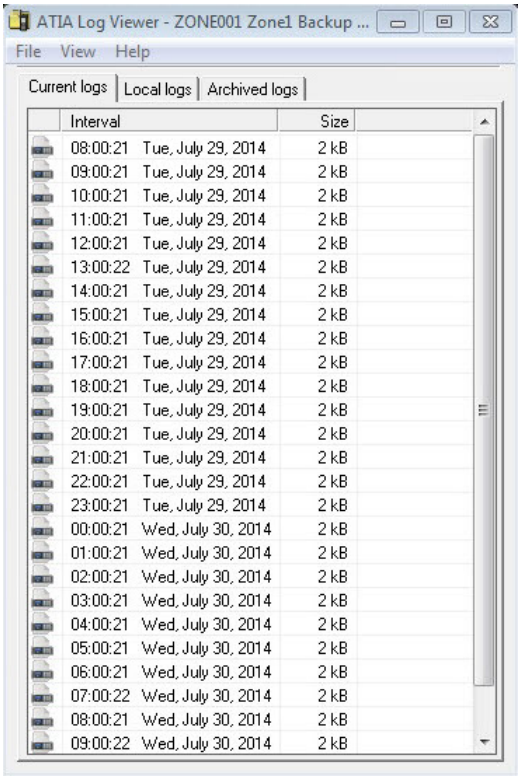
1. From the Application Launcher, select a zone.

   All available applications for the zone appear in the content pane.

2. Double-click the **ATIA Log Viewer** folder entry.

   The ATIA Log Viewer Window appears with the list of stored logs, as shown inFigure 1: ATIA Log Viewer Window on page 21.

   **Figure 1: ATIA Log Viewer Window**



**WARNING:** In case the server host key is different than the one cached in the ATIA Log Viewer`s registry, a warning window displays informing you that a potential security incident occurs. It is important to verify that no security breach is taking place. If you have any questions or doubts, contact Motorola Solutions or perform the key rotation procedure — see the *Securing Protocols with SSH* manual.

**Figure 2: ATIA Server Host Key Warning Window**

**NOTICE:** ATIA log files which are present on the local hard drive can be opened using a pop-up Windows context menu option **Send To** To view the ATIA logs, select the desired log file from the local hard drive and right-click the mouse button. Select the **Send To** option and then **ATIA Log Viewer**.

3 Select the desired log file from the list (you may select multiple intervals using standard Windows selection techniques), and then click the **View** button.

The log is displayed in the default document processor window.

4 You may perform any operation on the log your document processor allows, including printing the log, saving it to another file, or editing it.

## 2.2 Downloading ATIA Logs Interactively

Use this procedure to save a log file copy for later viewing from the ATIA Log application.

**Procedure:**

1 From the PRNM Suite Application window, select a zone.

All available applications for the zone appear in the content pane.

2 Double-click the **ATIA Log Viewer** icon.

The ATIA Log Viewer window appears with a list of stored log files that you can view.

3 Select a single log or archive you want to save.

4 From the File menu, choose **File → Save As...**.

5 Choose the directory and filename for the file.

The log file will be downloaded to the selected directory.

6 To save logs archive, navigate to **Archived logs**, select the desired archive and tab and repeat step 4 and step 5.

The logs archive will be downloaded to the selected directory.

7 To save an unpacked log, navigate to the fourth tab, select the desired log and repeat step 4 and step 5.

The log will be copied to the selected directory.

## 2.3 Downloading ATIA Logs Non-Interactively

Use this procedure to save a log file copy from the ATR server.

**Procedure:**

1 Press the WINDOWS key + R to access the Run command prompt.

2 For the list of ATIA log files from the ATR server, execute following command:`"<atialv_dir>.\atialv.exe" -DSERVER="<atr_ip>" -DLISTLOGS` where `<atialv_dir>` is the install directory of STM applications and `<atr_ip>` is the IP address of ATR server application.

List of log files available on ATR server names will be printed to console.

3 To download a selected log file from the ATR server, type:`"<atialv_dir>.\atialv.exe" -DSERVER="<atr_ip>" -DGETLOG="<log_name>"`

**NOTICE:** The user needs to have write permission for that directory.

The log file <log_name> will be downloaded to the local directory.

4 To get the list of ATIA log archives from the ATR server, type:`"<atialv_dir>.\atialv.exe" -DSERVER="<atr_ip>" -DLISTARCHIVES`

List of archives is printed.

5 To download a selected archive from the ATR server, type: `"<atialv_dir>.\atialv.exe" -DSERVER="<atr_ip>" -DGETARCHIVE="<archive>"`

**NOTICE:** The user needs to have write permission for that directory.

The archive is downloaded from ATR to the local directory.

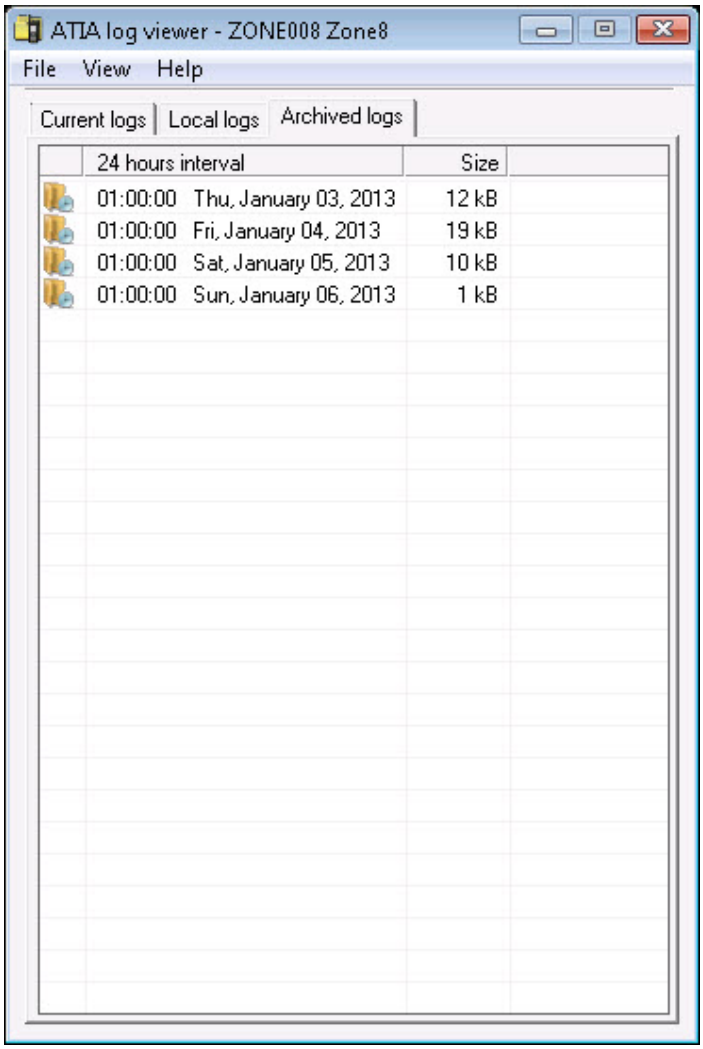
## 2.4 Accessing Archived ATIA Logs

ATIA Log Viewer allows you to examine archived logs. Previously created ATIA log files are obtainable from the Air Traffic Router. The period of log retention is 30 days. Follow the steps in to view the archived ATIA logs.

**Procedure:**

1 In the contents pane, go to Archived logs tab.

**Figure 3: Archived Logs Tab**

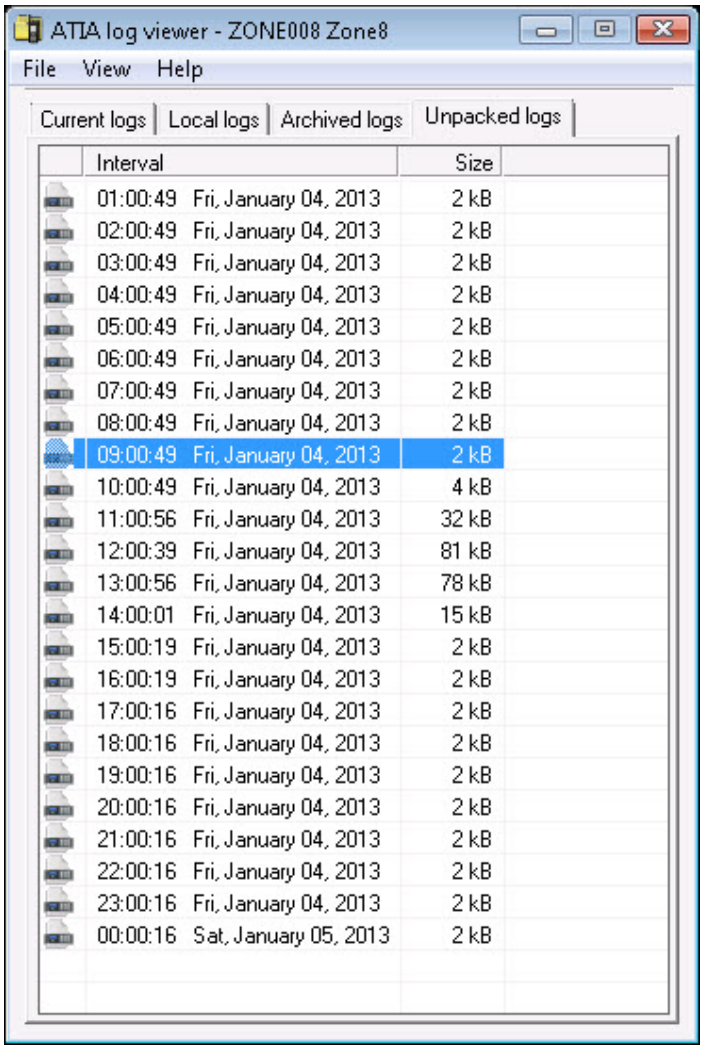



2 Select the archive you want to access.

3 Double-click a file.

The file is extracted into the fourth tab.

**Figure 4: Unpacked Log Tab**




4 Double-click the log file you want to view.

The log is displayed in the default document processor window.

## 2.5 Closing ATIA Log Files

**Procedure:**

1 In the text editor, select **File** → **Exit**.

The log file closes.

**NOTICE:** If changes have been made to the file, you can choose to save it to disk.

## 2.6
# Closing ATIA Log Viewer

**Procedure:**

1 In the **ATIA Log Viewer** dialog box, select **File** → **Exit**.

The **ATIA Log Viewer** dialog box closes.

**NOTICE:** Close each ATIA log file individually.

Chapter 3

# Reference

The ATIA Log Viewer window consists of elements assigned different functions.

3.1
## ATIA Log Viewer Dialog Box

The ATIA Log Viewer dialog box contains a list of time intervals that are available for you to select. These intervals encompass the last 24 hours collected in the ATIA log.

3.1.1
### ATIA Log Viewer Window

By default, the ATIA Log Viewer has access to the last 24 hours of log files and the older, archived files. The ATR server application keeps the logs for up to 30 days , if the total amount of ATIA data stored does not exceed 40GB. See the following table for description.

The title of the main ATIA Log Viewer window displays additional data;

- <Zone Alias> — reflects the current zone alias that the User is logged on
- <Zone ID> — reflects the current zone ID that the User is logged on
- <Zone Core> — is either "Primary Core" or "Backup Core" depending on whether ATIA Log Viewer is connected to Primary Zone Core or Backup Zone Core

Table 1: ATIA Log Viewer Tabs Description

| Tab number | Tab | Description | Default |
|---|---|---|---|
| 1 | Current logs | Read-only list contains the stored log files that you can choose to view.<br>**NOTICE:** Multiple selection of items is possible. | Visible |
| 2 | Local logs | Read-only list contains the local log files added by user that you can choose to view. | Visible |
| 3 | Archived logs | Read-only list contains the stored archive files that you can choose to open. | Visible |
| 4 | Unpacked logs | Read-only list contains the stored log files that you can choose to view.<br>**NOTICE:** Only visible when an archived log from the Archived logs tab is open. Multiple selection of items is possible. | Hidden |

3.1.2

## Menu Options in the ATIA Log Viewer Window

The ATIA Log Viewer Window contains menu options, as shown in the following table.

Table 2: ATIA Log Viewer Menu Options

| Menu Option | Sub-Menu Option | Description |
|---|---|---|
| **File** | **Open** | Opens the ATIA Log Viewer Report Window to show the selected log file. Also, you can execute this option through the shortcut CTRL + O. |
| | **Open Local** | Opens single file from the disc. Also, you can execute this option through the shortcut CTRL + L. |
| | **Open Local Directory** | Opens the selected folder. Also, you can execute this option through the shortcut CTRL + D. |
| | **Save As...** | Saves a single log file or archive to the disc. |
| | **Exit** | Exits the application and closes ATIA Log Viewer Window. |
| **View** | **Refresh** | Dynamically refreshes the list of ATIA logs. Also, this option can be executed by pressing the F5 key. |
| | **Remove Item from List** | Removes the selected file from the list. Also, you can execute this option through the DELETE button. |
| **Help** | **Help Topics** | Launches the online help for the application. Also, this option can be executed using the shortcut CTRL + T. |
| | **About ATIA** | Displays a version and copyright information for the application. |