

ASTRO[®] 25

INTEGRATED VOICE AND DATA

CSS Getting Started Guide

SEPTEMBER 2024

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6881003Y42-W

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- To confirm troubleshooting results and analysis before taking action

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

Document History

Version	Description	Date
6881003Y42-A –	General revision of the <i>CSS Getting Started Guide</i> . Revised for the 2022.HS and 2022.1 system releases.	September 2022
6881003Y42-V		
6881003Y42-W	Revised for the AN2024.HS and AN2024.1 system releases.	September 2024

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About CSS Getting Started Guide

This guide describes procedures for installing Configuration/Service Software (CSS) and Software Download Manager (SWDL) on a laptop or desktop PC. Follow the step-by-step instructions included in this booklet to install the software.

After installation, see the CSS online help and system documentation manuals for the applicable hardware devices for detailed operational instructions.

Related 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.
<i>System Overview and Documentation Reference Guide</i>	Provides an overview of the new features, technical illustrations, and system-level disaster recovery for the ASTRO® 25 radio communication system.
<i>Configuration/Service Software (CSS) Online Help</i>	Provides descriptions and important information for all screens and parameters used with all G-series devices.

Chapter 1

CSS Supported Releases

Current version of CSS is compatible with releases A7.18 and later.

For more information about supported releases, see *CSS Compatibility Matrix* on your CSS media or ISO.

The enclosed media also contains installation files for the Software Download Manager (SWDL) application. This application is also installed on the Network Management Client and can be operated from a central location. The CSS media provides the Software Download Manager application for service personnel during initial system deployment to load operating software into the various devices. Additionally, the media contains installation bundles for previous and legacy releases (in `PrevReleases` folder).

Chapter 2

CSS User Requirements

The information in this guide is intended for qualified communications technicians and maintenance personnel to program, troubleshoot, and align various Motorola Solutions devices.

The user should also be familiar with the use of Microsoft Windows operating systems and the use of a personal computer (PC). This includes installing software, understanding file and directory structures, opening and closing files, copying and moving files, using menus, using the mouse, using Microsoft Windows help, and navigating between application windows. See your Microsoft Windows operating system manuals and online help for more details on using Microsoft Windows.

CSS is installed on the Network Management (NM) Clients that support the following hardware platforms:

Table 1: Hardware Platforms Supported by Network Management (NM) Client

Hardware Platform	2024.HS 2024.1	2022.HS 2022.1	2021.1	2020.HS 2020.1	2019.2	7.18
HP Z2 Mini G9 with Windows 10 64bit Enterprise LTSC 21H2	✓	✓	✓	✓	✓	✓
HP Z2 Mini G5 with Windows 10 64bit Enterprise LTSC 2019	✓	✓	✓	✓	✓	✓
HP Z2 Mini G4 with Windows 10 64bit Enterprise LTSC 2019	✓	✓	✓	✓	✓	✓
HP Z2 Mini G3 with Windows 10 64bit Enterprise LTSC 2016	✗	✗	✓	✓	✓	✓
HP Z440 with Windows 10 64bit Enterprise LTSC 2015 ¹	✗	✗	✗	✓	✓	✓
HP Z420 ²	✗	✗	✗	✗	✗	✗

¹ Z440 workstations are not supported in A2020.HS Systems with CAC/PIV.

² For more information, contact Centralized Managed Support Operations (CMSO).

Chapter 3

Opening Firewall Ports for CSS and Software Download Manager

You need to open appropriate firewall ports for CSS and Software Download Manager to work correctly. For troubleshooting contact local IT administrator.

Procedure:

1. In Windows, go to **Control Panel** → **Windows Firewall Defender**.
2. Go to **Advanced settings** and select **Inbound rules**.
3. Add `Motorola OpenJDK Platform` binary file to allowed applications by performing the following actions:
 - a. Click **New Rule**.
 - b. Select **Program** and click **Next**.
 - c. Select **This program path** and provide the location of `Motorola OpenJDK Platform` binary file.
Default location: `C:\Program Files\Motorola\Motorola OpenJDK\bin\java.exe`
 - d. Click **Next**.
 - e. When prompted, select **Allow the connection** and click **Next**.
 - f. Select the appropriate network type (**Domain**, **Private** or **Public**) and click **Next**.
 - g. Enter a name for the inbound rule and optionally add a description.
 - h. Click **Finish**.
4. Add specific TCP ports to be allowed for `Motorola OpenJDK Platform` binary file by performing the following actions:
 - a. Click **New Rule**.
 - b. Select **Port** and click **Next**.
 - c. Select **TCP** and **Specific local ports**
 - d. Enter the following ports:
Local ports: `22, 6021, 15000-15999, 49222, 49470-49479, 52152-65535`
Remote ports: `1024-65535`
 - e. Click **Next**.
 - f. Select **Allow the connection** and click **Next**.
 - g. Select the appropriate network type (**Domain**, **Private** or **Public**) and click **Next**.
 - h. Enter a name for the inbound rule and optionally add a description.
 - i. Click **Finish**.
5. Add specific UDP ports to be allowed for `Motorola OpenJDK Platform` binary file by performing the following actions:
 - a. Click **New Rule**.

- b. Select **Port** and click **Next**.
- c. Select **UCP** and **Specific local ports**
- d. Enter the following ports:
Local ports: 161-171, 1054, 1162-1172, 49370-49389
Remote ports: 50152-65535
- e. Click **Next**.
- f. Select **Allow the connection** and click **Next**.
- g. Select the appropriate network type (**Domain**, **Private** or **Public**) and click **Next**.
- h. Enter a name for the inbound rule and optionally add a description.
- i. Click **Finish**.

Chapter 4

Installing CSS and Software Download Manager

Prerequisites: Obtain CSS installation media or ISO.

Procedure:

1. Perform one of the following actions:

If...	Then...
If you use CSS installation media (CD/DVD),	insert the CSS media into the media drive. If the installation program does not automatically start, navigate to the setup.exe file on the media and double click the file.
If you use CSS ISO,	perform the following actions: <ol style="list-style-type: none">a. Right click on CSS ISO and select Mount.b. Open setup.exe.

2. Optional: If a warning about Java Runtime Environment not found appears, close the warning and use the **WindowsInstallFramework** on the *Windows Supplemental* media to install Motorola OpenJDK 64-bit before installing CSS.

The installer for Motorola Open JDK can also be downloaded from the Customer Hub portal. Make sure you are subscribed to this software before you start searching for it.

Latest releases need only 64bit version. Previous versions may also need a 32bit version of JDK. See the *Readme* file on ISO media.

3. Follow the instructions on the screen.
4. In the **Choose Components** window select software to be installed.

By default, both **Configuration Service Software** and **Software Download Manager** options are selected.

5. Click **Install** and follow the instructions on the screen.

Result: Configuration Service Software / Software Download Manager application appears in the **Motorola** menu option under the **Programs** menu and the shortcut icons appear on the Windows desktop. The shortcut denotes **A7.18+** as system release, because the current version of CSS is dedicated for 7.18 and all later releases.

Chapter 5

Uninstalling CSS and Software Download Manager

Procedure:

Navigate to **Control Panel** and use the **Uninstall a program** option.