



Enabling Live Communications at the Edge of IP Networks

Technical Bulletin 657

Software Protocol Migration

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Proprietary

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Scope of this Document

The following Technical Document aims to inform partners on the procedure to migrate an analog unit between two protocols. The options are:

From	To
SIP	MGCP
SIP	H.323
MGCP	H.323
MGCP	SIP
H.323	MGCP
H.323	SIP

Note: Because of the number of possibilities, this document uses the SIP to MGCP migration scenario as example. Replace SIP with the protocol you already have and MGCP with the protocol you want in the following document to migrate between other protocols.

Steps to Migrate a Unit Between Protocols

1. Re-upgrade to the current software version.
2. Upgrade to the new software protocol.

Explanation

The Mediatrix units need to be able to read the old version's setup.inf (SIP) file. To be sure the unit can find it, you must re-upgrade with the current version. This sets the path of the current setup.inf (SIP) file in the unit so that the next time it tries to download a software (in this example the new MGCP), it will know where to look for the old setup.inf (SIP) file.

That is also why you will use the *c:\download* root folder in Pumpkin. The unit needs to be able to reach both software folders from this root folder.

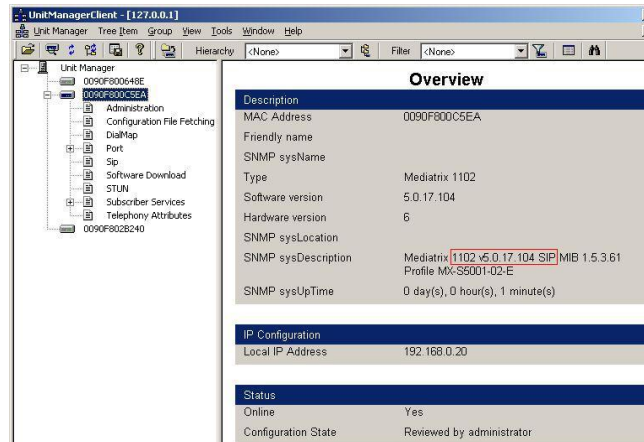
This procedure is valid for the **Mediatrix 1102**, **Mediatrix 1104** and **Mediatrix 1124**.

Software Migration

1. Download the required software versions. These software are available on the Mediatrix Download Portal (<http://www.mediatrix.com/>).

You need to download **two different software versions** to migrate between two protocols:

- The version you are currently running (or more recent) on the analog product.
 - The version number can be found in UMN, as shown below :



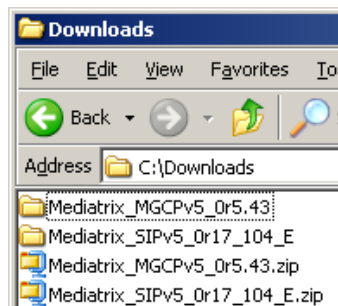
In this example, you download SIP v5.0r17.104 for Mediatrix 1102 from the Download Portal (see the version and platform in the red square)

- You also need the version to which you wish to migrate. Mediatrix suggests the latest available version posted on the Download Portal.
 - In this example you migrate to MGCP, so you would download MGCP v5.0r5.43 (latest available at the moment of this document creation).

Put the two downloaded files in c:\downloads. In this example, the downloaded files would be:

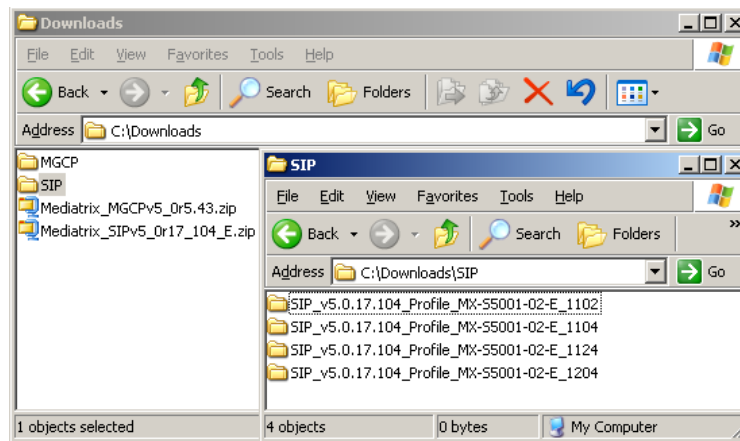
- Mediatrix_SIPv5_0r17_104_E.zip
- Mediatrix_MGCPv5_0r5.43.zip

3. Extract the two zip files directly in the c:\downloads directory. The example directory would now look as follows:



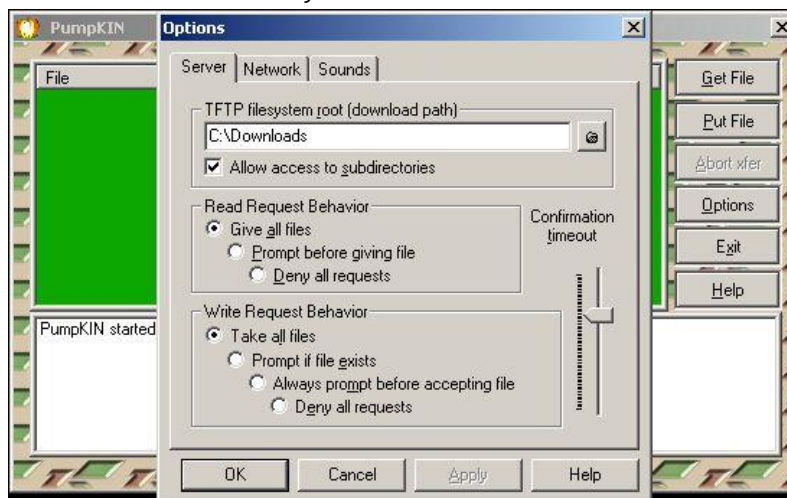
4. Rename the folders with the protocol name (Mediatrrix_MGCPv5_Or5.43 ->MGCP). You must rename the folders because the download pathname variable is only 63 characters long.

In this example, the example folder would now look as follows:



5. Re-upgrade your unit to the **current** software version (or more recent).

- Configure Pumpkin
 - Enter **c:\Downloads** in the *TFTP filesystem root* field.



- Configure the unit using UMN in the *Software Download Servers* section:
 - Uncheck the *Use DHCP* check box.
 - Enter your Pumpkin server's IP address in the *Primary server* field.
 - Enter the path from c:\downloads to the setup.inf file of the current version software.

In this example this would be: [SIP\SIP_v5.0.17.104_Profile_MX-S5001-02-E_1102](#).

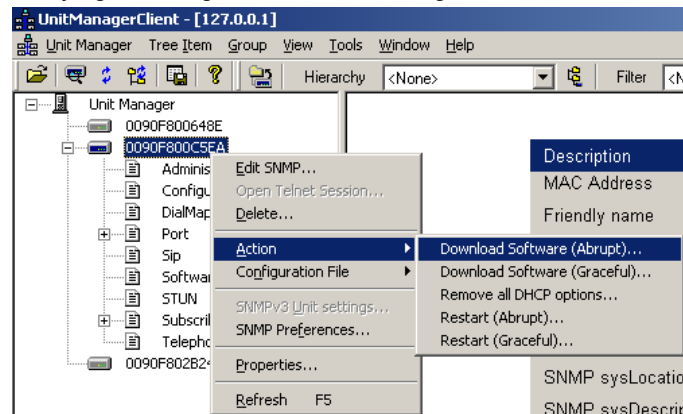
(Take the complete path to setup.inf (c:\downloads\SIP\SIP_v5.0.17.104_Profile_MX-S5001-02-E_1102\setup.inf) and remove the filename and the "c:\downloads\)")

The screenshot shows the 'Administration' window with the following settings:

- IP Configuration:**
 - ☒ Use DHCP: Static
 - Local IP Address: 192.168.0.1
 - Subnet Mask: 255.255.255.0
 - Default Router: 192.168.0.10
 - Primary DNS: 192.168.0.10
 - Secondary DNS: 192.168.0.10
- Unit Manager Server:**
 - ☒ Enable
 - ☒ Use DHCP: Static
 - Unit Manager: 192.168.0.10
- SNTP Server:**
 - ☐ Enable
 - ☒ Use DHCP: Static
 - SNTP Server: 192.168.0.10
- Syslog Daemon:**
 - ☒ Use DHCP: Static
 - Syslog Daemon: 192.168.0.10
 - Messages: Informational
- Software Download Servers:**
 - ☐ Use DHCP
 - Static
 - Primary server: 192.168.0.11
 - Secondary Server: 192.168.0.10
 - Pathname: SIP\SIP_v5.0.17.104_Profile_MX-S5001-02-E_1102

Buttons at the bottom: Set target units..., Exclude IP Configuration on multiple targets, OK, Cancel.

- Start the re-upgrade by right-clicking the unit and selecting **Action -> Download Software (Abrupt)**.



6. Migrate to the **new** version.

- Configure the unit using UMN in the *Software Download Servers* section:
 - Uncheck the *Use DHCP* check box.
 - Enter your Pumpkin server's IP address in the *Primary server* field.
 - Enter the path from c:\downloads to the setup.inf file of the new software.

In this example this would be: **MGCP\MgcpNcs_v5.0.5.43_MX-M5000-01**.

The screenshot shows the 'Administration' window with the following configuration:

- IP Configuration:**
 - ☒ Use DHCP: Static
 - Local IP Address: 192.168.0.1
 - Subnet Mask: 255.255.255.0
 - Default Router: 192.168.0.10
 - Primary DNS: 192.168.0.10
 - Secondary DNS: 192.168.0.10
- Unit Manager Server:**
 - ☒ Enable
 - ☒ Use DHCP: Static
 - Unit Manager: 192.168.0.10
- SNTP Server:**
 - ☐ Enable
 - ☒ Use DHCP: Static
 - SNTP Server: 192.168.0.10
- Syslog Daemon:**
 - ☒ Use DHCP: Static
 - Syslog Daemon: 192.168.0.10
 - Messages: Informational
- Software Download Servers:**
 - ☐ Use DHCP: Static
 - Primary server: 192.168.0.11
 - Secondary Server: 192.168.0.10

A red oval highlights the 'Pathname' field in the 'Software Download Servers' section, which contains the text: **MGCP\MgcpNcs_v5.0.5.43_MX-M5000-01**.

- Start the re-upgrade by right-clicking the unit and selecting **Action -> Download Software (Abrupt)**.

7. Delete and re-detect the unit in UMN for the change to be visible.