



# Application Note for the NEC NEAX 2400 IMX TIMG Integration

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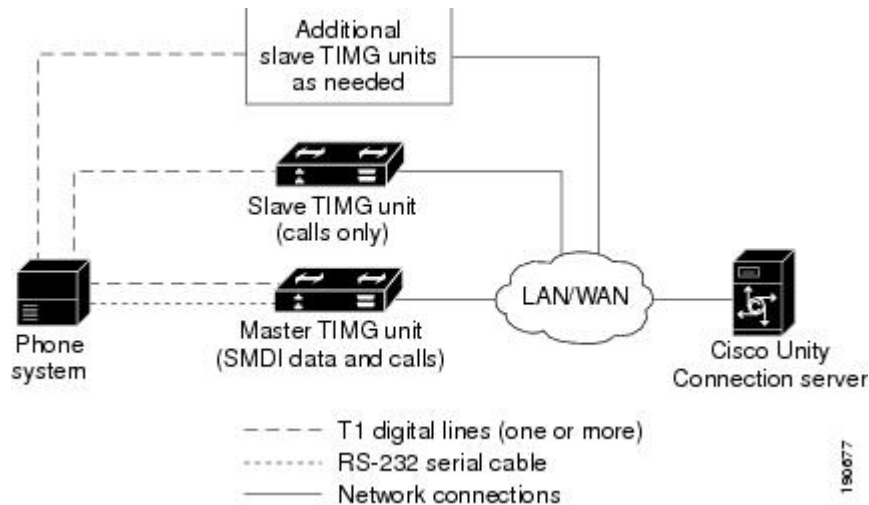
## Introduction

This is an application note for programming the NEC NEAX 2400 IMX phone system for a serial SMDI integration with Cisco Unity Connection using TIMG units. For instructions on setting up the TIMG units (media gateways) and creating the integration in Unity Connection, see the [Setting Up a Serial \(SMDI, MCI, or MD-110\) TIMG Integration with Cisco Unity Connection](#) chapter.

## Network Topology

[Network Topology](#) shows the required connections for a serial SMDI integration using TIMG units.

Figure 1: Connections for a Serial SMDI TIMG Integration



For more information about this integration, see [Integration Description](#)

## Requirements

The phone system met the following requirements:

- The NEC NEAX 2400 IMX phone system.
- MCI feature II.
- One T1 digital trunk interface card (card number PA-24DTR/DLI) for each group of 24 voice messaging ports.

Note that the following requirements for the T1 digital trunk interface card before programming the phone system:

- The firmware must be configured to support T1 line-side signaling.
- The card must be validated.

## Programming NEC NEAX 2400 IMX Phone System for TIMG Integration

The following programming instructions are provided as an example. The specific programming for your phone system may vary depending on its configuration.



**Caution** In programming the phone system, do not send calls to voice messaging ports in Unity Connection that cannot answer calls (voice messaging ports that are not set to Answer Calls). For example, if a voice messaging port is set only to Perform Message Notification, do not send calls to it.

### Example of Programming for the NEC NEAX 2400 IMX Phone System in a TIMG Integration

1. Use the AUCD command to program the phone system to send UCD call information to MCI. Assign a value of “0” to the “MCI Data Transfer” field for the applicable tenant and UCD pilot numbers.
2. Use the programming system data table to program the ASYD settings. Each bit is part of a hexadecimal number displayed in the ASYD settings. Convert the hexadecimal number to binary to determine the individual settings.

**Table 1: Programming System Data**

System	Index	Bit	Value	Description
1	17	b4	1	Release (blind) transfer to attendant console
	28	b0–4	0	Guard timer not required
		b5	1	MWI controlled by MCI
	29	b1–7	0/1	No/Yes: Assign I/O port for MCI output Port 1 = b1, port 2 = b2, and so on
	34	b1–4	0	Set output to no parity and 1 stop bit
	60	b3	0	UCD queuing required
	63	b0	1	Release transfer for stations in service
	69	b0	1	No recall, execute call forwarding on no answer
	70	b0	1	Called number display, when forwarding to attendant console
	78	b0	1	Calling number display enabled
		b1	1	Called station status display enabled
	238	b0–7	0	Lamp flash rate
	246	b3	0	MCI expansion set to normal
	400	b2	1	Calling number information sent to MCI
2	6	b0	1	MCI in service when terminating to a UCD group
	7	b1	0	MCI out of service when terminating to attendant console

3. Use the programming system data local data table to program the ASYDL settings. Each bit is part of a hexadecimal number displayed in the ASYDL settings. Convert the hexadecimal number to binary to determine the individual settings.

**Table 2: Programming System Data Local Data**

System	Index	Bit	Value	Description
1	641	b1	0/1	0/1: MCI/IMX station number/phone number
	832	b0–7	00–FD	Assign the FPC of the node connected to MC
	833	b0	0	MWI controlled by MCI

- Use the ASDT command to add ports that connect to the first voice messaging port on the first TIMG unit by entering the following settings.

**Table 3: ASDT Command Settings for Adding Ports**

Field	Setting
TN	Enter the tenant number, which is typically 1.
STN	Enter the station number.
TEC	Enter 11 (which sets the port type as “voice mail”). Some sites may require setting this to 3 in order to complete transfers to Virtual Line Groups (AMNO).
RSC	Accept the default (all route options) or enter another route service class.
SFC	Accept the default (all options) or enter another service feature class.

- In the WRT field, enter **Y** and press **Enter**.
- Repeat Step 4. and Step 5. for all remaining ports that connect to the voice messaging ports on the TIMG unit.
- Repeat Step 6. for all remaining TIMG units.
- Use the ASHU command to add the UCD hunt group access number (a real or virtual extension number) by entering the following settings.

**Table 4: ASHU Command Settings for Adding the Hunt Group Access Number**

Field	Setting
TN	Enter the tenant number, which is typically 1.
STN	Enter the access number. for the hunt group.
Edit STN	Enter the extensions for each voice messaging port on the TIMG units, pressing Enter after each extension.

- Select **Set**.