



Cisco DPA Integration

The Cisco DPA 7630 and 7610 Voice Mail Gateways (DPA 7630/7610) enable you to integrate Cisco Unified Communications Manager systems with Octel voice-messaging systems, which might also connect to either Definity or Meridian 1 PBX systems. This integration enables you to use your existing third-party telephony systems along with your Cisco IP telephony system.

For example, you can ensure that features such as message-waiting indicators (MWI) for Octel voice messages are properly set on Cisco Unified IP Phones (connected to Cisco Unified Communications Manager) and traditional telephony phones (connected to Definity or Meridian 1 PBX systems).

Using the DPA 7630/7610, you can integrate the following systems:

- Cisco Communications Manager 3.1(1) or higher
- Octel 200 and 300 voice-messaging systems (using APIC/NPIC integration)
- Octel 250 and 350 voice-messaging systems (using FLT-A/FLT-N integration)
- Definity G3 PBX systems (DPA 7630 only)
- Meridian 1 PBX systems (DPA 7610 only)

These sections provide you with an overview of the DPA 7630/7610 and its interactions with the other components in traditional and IP telephony networks:

- [Understanding the DPA 7630/7610, page 32-1](#)
- [How the DPA 7630/7610 Works, page 32-2](#)

Understanding the DPA 7630/7610

The DPA 7630/7610 functions as a gateway between Cisco Unified Communications Manager and an Octel system (which may connect to a PBX system) and performs these tasks:

- Determines the call type from Cisco Unified Communications Manager and sends display, light, and ring messages to the Octel system.
- Determines when the Octel system is attempting to transfer, set message waiting indicators (MWI) and so on, and sends the appropriate messages to Cisco Unified Communications Manager.
- Converts dual-tone multifrequency (DTMF) tones to Skinny Client Control Protocol messages.
- Provides companding-law transcoding and voice compression.
- Performs Real-Time Transport Protocol (RTP) encapsulation of the voice message.

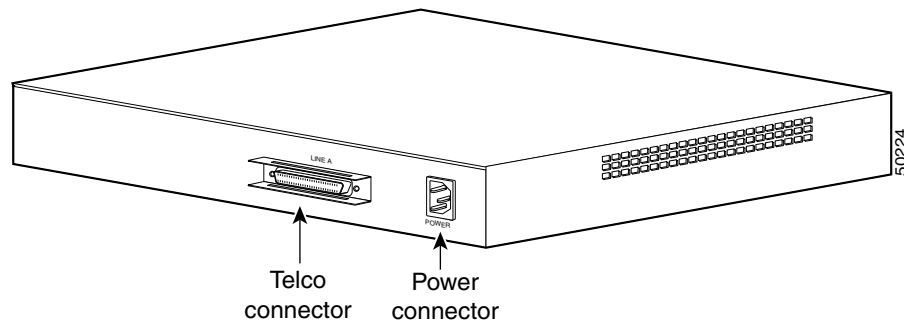
How the DPA 7630/7610 Works

With the Cisco DPA 7630/7610, you can integrate your existing Octel voice-messaging system with Cisco Unified Communications Manager and either a Definity PBX system or a Meridian 1 PBX system. If you have a Definity PBX, use the DPA 7630; if you have a Meridian 1 system, use the DPA 7610.

The DPA 7630/7610 functions by emulating digital phone or PBX systems. This capability allows it to appear like these devices to Cisco Unified Communications Manager, Octel, Definity, and Meridian 1 systems.

Figure 32-1 illustrates the Cisco DPA.

Figure 32-1 Cisco DPA



Why is the DPA 7630/7610 Needed?

If you want to migrate your telephony system from a Definity G3 PBX or a Meridian 1 PBX to Cisco Unified Communications Manager, you must decide whether to do a complete cutover to Cisco Unified Communications Manager or to migrate slowly. If you do a complete cutover to Cisco Unified Communications Manager and Cisco voice-messaging solution, you do not need the DPA 7630/7610. However, if you are slowly migrating your systems, you might want to maintain some phones on the Definity or Meridian 1 PBX while you are installing new phones on the Cisco Unified Communications Manager system. You might want to use your existing Octel voice-messaging system with your Cisco Unified Communications Manager system. In these cases, the DPA 7630/7610 can assist your migration to Cisco Unified Communications Manager.

Can I Just Use SMDI?

Because voice-messaging systems such as Octel were designed to integrate to only one PBX at a time, difficulty occurs with migration. To resolve this difficulty, many people use Simplified Message Desk Interface (SMDI), which was designed to enable integrated voice-messaging services to multiple clients.

To use SMDI, you must ensure that your voice-messaging system meets several qualifications:

- It must have sufficient database capacity to support two PBX systems simultaneously and to associate each mailbox with the correct PBX to send MWI information on the correct link.

- You must have the ability to physically connect the IP network to the voice-messaging system while maintaining the existing physical link to the PBX.
- It must support analog integration. SMDI primarily acts as an analog technology.

Additionally, SMDI requires reconfiguration of your existing telephony network.

What If I Cannot Use SMDI?

Be aware that SMDI might not be an option for you, particularly if you are using a digital interface on your Octel systems. Octel systems with digital line cards emulate digital phones and appear to the PBX as digital extensions, referred to as per-port or PBX integration cards (PIC). On PIC systems, the voice and data streams (for setting MWI) use the same path. The system sets and clears the MWIs via feature access codes on dedicated ports. Because these PIC ports use proprietary interfaces, you cannot use standard interfaces to connect them to the Cisco Unified Communications Manager system.

The DPA 7630/7610 can, however, translate these interfaces to enable communication among the Cisco Unified Communications Manager, Octel, and Definity or Meridian 1 systems. Depending on the needs of your network, you can choose among several different integration methods.

Where to Find More Information

Related Topic

- [Understanding the DPA 7630/7610, page 32-1](#)
- [How the DPA 7630/7610 Works, page 32-2](#)
- [SMDI Voice Mail Integration, page 30-1](#)

Additional Cisco Documentation

- *Cisco DPA 7630/7610 Voice Mail Gateways Administration Guide*

