

Applicable to UC System Release 8.6(1)

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Introduction

This page provides a reference configuration for Cisco Unified Communications Manager Business Edition 3000 Series within the Cisco Unified Communications deployment. The configuration information is based primarily on testing performed on test beds having Cisco Unified Communications Manager Business Edition 3000 Series configured during Cisco Unified Communications system releases. Cisco Unified Communications Manager Business Edition 3000 is designed to support up to three hundred users (400 phones) with a simplified approach to the products user experience. This is achieved by supporting a reduced feature set that hides complex concepts while meeting the requirements of this market segment. This article focuses mainly on a simplified approach in configuring the server, while meeting the requirements of this mid market segment and it does not provide information on how the complex concepts have been hidden. The intended audiences for this article are customers in the Small and Medium Business segment (300 users) who currently have Time-division multiplex key systems/low-end Time-division multiplex PBXs and are planning to implement Cisco Unified Communications Manager Business Edition 3000 Series between Unified Communications Manager clusters.

TIP: Search for related test cases in [System Test Results for IP telephony System Test Results](#).

This topic does not contain detailed step-by-step procedures; for detailed information about configuring Cisco Unified Communications Manager Business Edition 3000 Series, refer to the [Cisco Unified Communications Business Edition 3000 Administration Guide](#) documentation.

Design

This section provides the functionality of Cisco Unified Communications Manager Business Edition 3000 Series in distributed Unified Communications Manager deployments. The Cisco Unified Communications Manager Business Edition 3000 Series configuration is easy to install, administer and manage. Provisioning and administration of Cisco Unified Communications Manager Business Edition 3000 Series would be done solely through the Communications Manager Business Edition 3000 interface. Cisco Unified Communications Manager Business Edition 3000 Series was tested as part of Golden Bridge Solution Testing, and the Cisco MCS 7890-C1 solution was deployed in the Centralized Call Processing Model with three remote sites. Cisco Unified Communications Manager Business Edition 3000 Series has a central site that consists of dual E1 ports on Cisco MCS 7890-C1 platform, has two voice gateways (2901 & SPA 8800) with E1 PRI & FXO connections to PSTN network. The endpoints covered in the central site are Cisco Unified 69xx series phone, 7937 Conference Phone, Cisco IP Communicator, Cisco UC Integration @ for

RTX and analog phones. It consists of three remote sites, with all the three remote sites having Cisco Unified 69xx series phone, Unified IP Phone 3905 and analog phones. Also, one or two remote sites would have Cisco IP Communicator, Cisco UC Integration @ for RTX & Cisco Unified 7937 Conference Phones. For information on design considerations and guidelines for configuring Cisco Unified Communications Manager Business Edition 3000 Series, see [Cisco Unified Communications Manager 8.x Solution Reference Network Design \(SRND\)](#) documentation.

For information on Cisco Unified Communications Manager Business Edition 3000 Series specific deployments and sites where system testing was performed, see [Tested Deployments and Site Models for IP telephony](#) documentation.

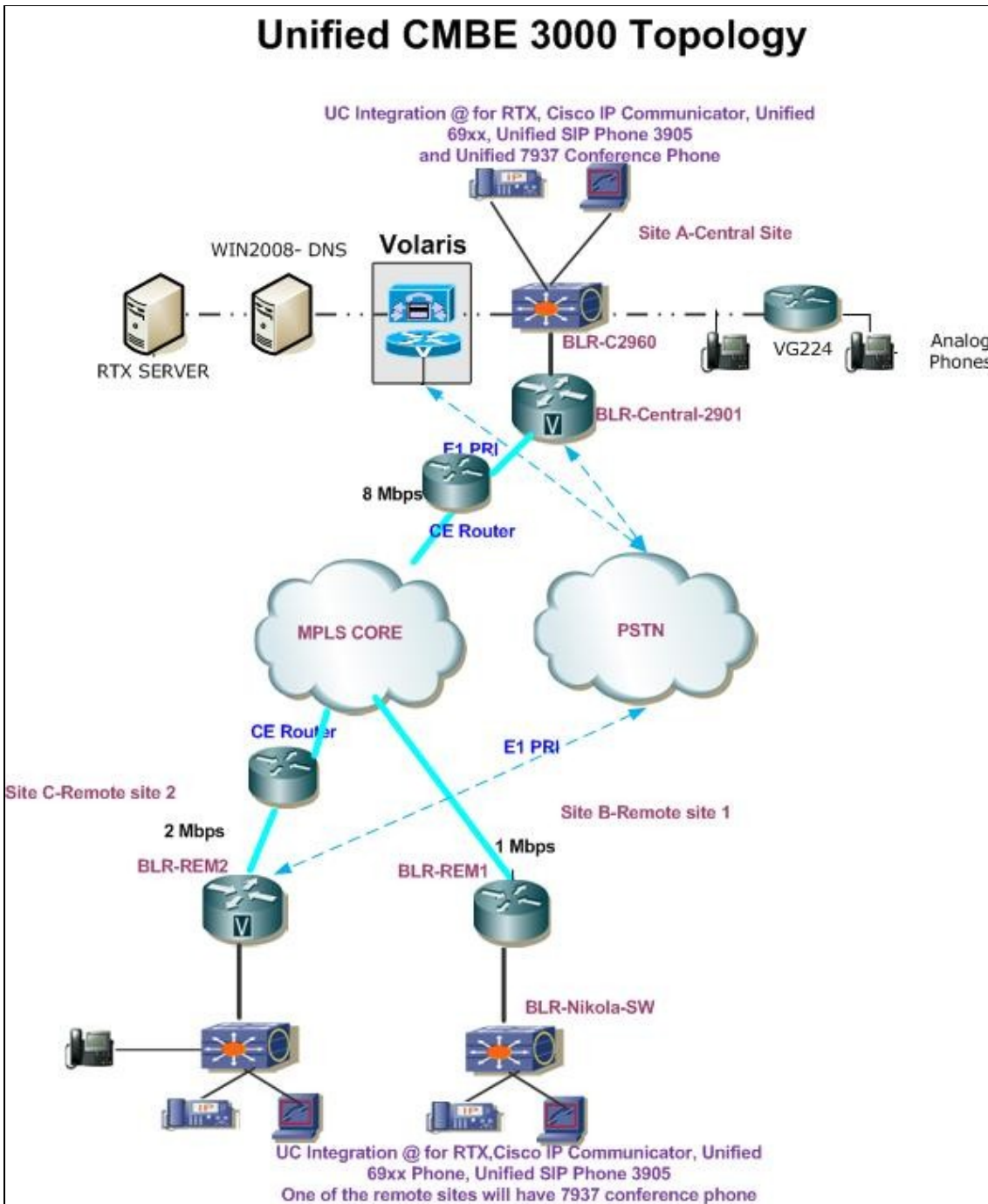
Topologies

This section provides information about Cisco Unified Communications Manager Business Edition 3000 Series deployment scenario and call flows. As part of Golden Bridge solution testing, the Cisco Unified Communications Manager Business Edition 3000 Series solution was deployed in the Centralized Call Processing Model with two remote sites. During Cisco Unified Communications system testing, various call control components including Unified Communications Manager Business Edition 3000 with various end points were installed and tested in IP telephony site models.

Component Deployment

During Cisco Unified Communications system testing, Cisco Unified Communications Manager Business Edition 3000 Series was tested primarily in Small and Medium Sized Business deployment models. The product was deployed in a Centralized call processing model with three remote sites.

Figure 1: Cisco Unified Communications Manager Business Edition 3000 Series Configuration.



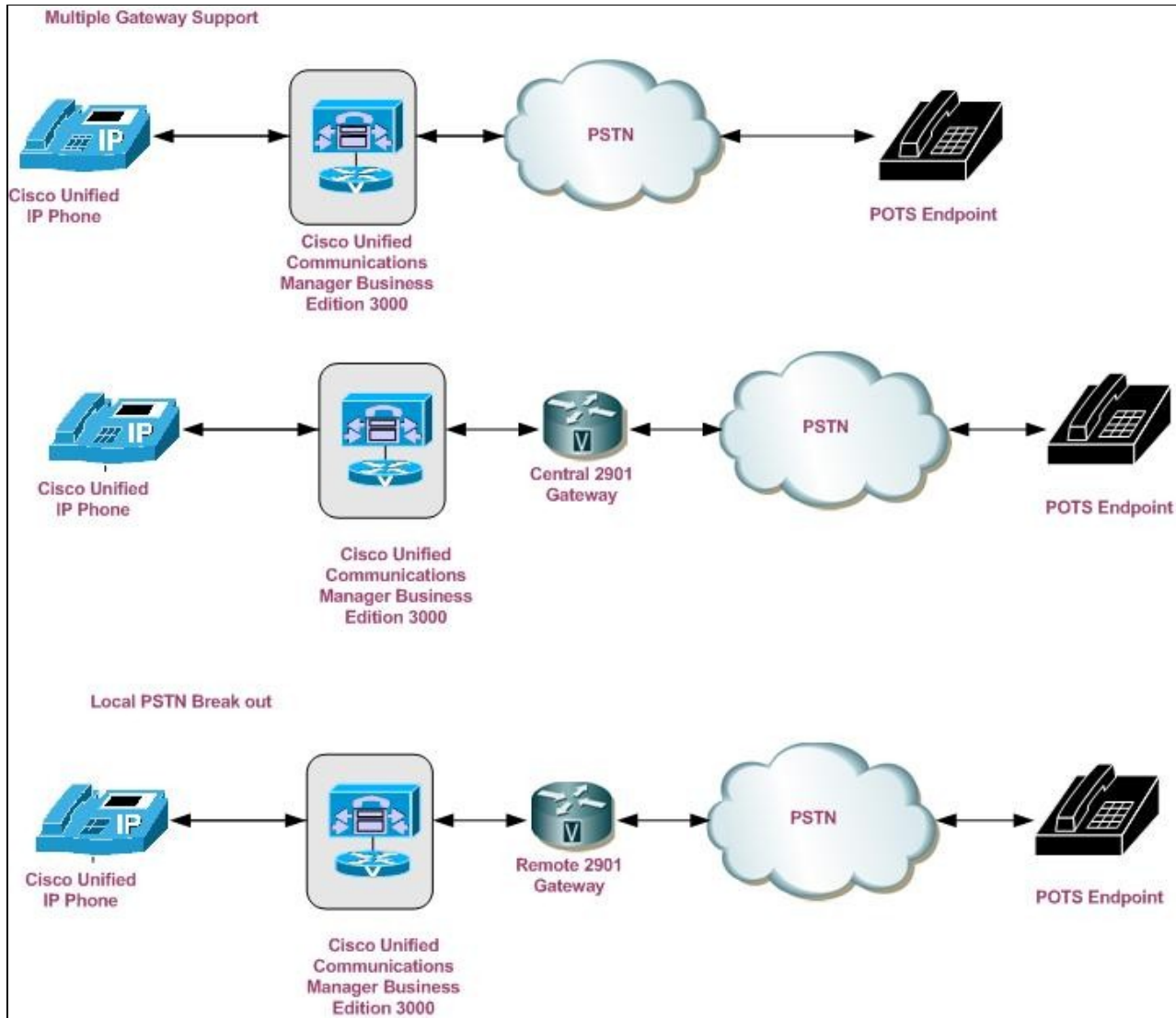
CUCMBE3000-Topology.jpg

In Figure 1, Cisco Unified Communications Manager Business Edition 3000 Series is configured in Site A, Site B and Site C. These sites are based on Centralized Call Processing deployment model, and include two remote sites, Site B and Site C. The Central Site A, apart from dual E1 ports on Cisco MCS 7890-C1 platform, will have two voice gateways (2901 & SPA 8800) with E1 PRI & FXO connections to PSTN network. It utilizes the endpoints Unified 69xx IP Phone series, Unified IP Phone 3905, Unified 7937 Conference Phone, Cisco IP Communicator, Cisco Unified Communications Integration @ for RTX and analog phones. Call flows between central site phones and remote site phones are tested. For more information on Cisco Unified Communications Manager Business Edition 3000 Series tested functionality, see [System Test Results for IP telephony](#). You can see the Cisco Unified Communications Manager Business Edition 3000 test results in Tested Feature column "Unified CMBE" grouped under Unified Communications Manager test results.

Call Flow Diagram

This section provides an example call flow for Cisco Unified Communications Manager Business Edition 3000 Series.

Figure 2: Cisco Unified Communications Manager Business Edition 3000 Series Call Flow.



CUCMBE-3000-Call-Flows.jpg

Configuration

This section provides the high-level tasks and related information for configuring a Cisco Unified Communications Manager Business Edition 3000 Series. Default and recommended values specified in the product documentation were used during system testing, except as noted. The following tables provide this information:

Configuration Tasks: List of high-level configuration tasks

System Test Specifics: System test variations from default values documented in the product documentation.

More Information: Links to product documentation for detailed configuration information related to the high-level tasks.

Note: Default and recommended values specified in the product documentation were used during system testing, unless otherwise noted in the **System Test Specifics** column.

Table 1: Cisco Unified Communications Manager Business Edition 3000 Series setup and configuration in Unified Communications Manager Deployment

| Configuration Tasks | System Test Specifics | More Information |
|---|-----------------------|--|
| Configure the Network Settings. Under System Settings->Network | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| Upload the License. Under Maintenance->Manage Licenses | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| Configure Dial Plan. Under System Settings->Dial Plan | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| Configure the Sites. Under Connections->Sites | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| Configure Usage Profiles. Under Users/Phones ->Usage Profiles | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| Configure Users, Phones. Under Users/Phones ->Users and then phones | | Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide |
| | | |

| | | |
|---|--|---|
| Configure PSTN connections & devices. Under Connections ->PSTN connections | | <u>Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide</u> |
| Check the Health status of system . Under Monitoring status -> Health Summary | | <u>Refer the Cisco Unified Communications Manager Business Edition 3000 Admin Guide</u> |

Related Documentation

For related information about Cisco Unified Communications Manager Business Edition 3000 Series, see Cisco Unified Communications Manager Documentation at:

- [*Cisco Unified Communications Manager System Guide*](#)
- [*Cisco Unified Communications Manager Administration Guide*](#)

For information on the results obtained from the system testing, see [Cisco System Test Results for IP Telephony](#)

For information on configuring the security components, see [Unified Communications Security Configurations](#)