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Before installing the shadow server, do the tasks in these sections:

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Verifying Requirements

Before installing a shadow server, verify that you have met each of the following requirements:

- The primary server uses Cisco Unified MeetingPlace Audio Server Release 6.1.
- The shadow server uses Cisco Unified MeetingPlace Audio Server Release 6.1.
- The shadow server has a clean database.
- The shadow server has a shadow server license.
- All TCP ports are open between the primary server and the shadow server.
- All UDP ports are open between the primary server and the shadow server.
- You have scheduled a restart of the primary server so that you can configure the shadow server.

Note: Ensure that "All" TCP and UDP ports are open between the primary and shadow server and not just required ports.

Obtaining the Necessary Information

Before installing a shadow server, obtain the following information:

- IP address for the primary server
- Host name for the primary server
- IP address for the shadow server
- Host name for the shadow server
- Ethernet address for the shadow server
- Default gateway address for the shadow server
- Subnet mask address for the shadow server

- IP address of the NTP server for the shadow server

Installing the Shadow Server

Installing the shadow server is the same as installing the primary server. .

Checking the Licenses on the Shadow Server

The shadow server must have the same license keys as the primary server.

To Check the Licenses on the Shadow Server

1. Verify that you are connected to the shadow server.
2. Access the CLI.
Note: CLI commands are case-sensitive. For CLI command information, see [Command-Line Interface Reference](#).
3. If you do not already have terminal logging turned on, turn it on. For information, see [Logging Your HyperTerminal Session](#).
4. Log in to the CLI as a superuser, by following these steps:
 1. Connect to the Cisco Unified MeetingPlace Audio Server system either via telnet, ssh, or locally.
 2. For the username, enter the default (admin). For the password, enter the default (cisco) or if you have changed the default password, use the new password.
 3. Enter **su** to change to the CSC privilege level.
 4. The Cisco Unified MeetingPlace Audio Server system prompts you for another password. For this password, use the Password Of the Day (POD). Contact Cisco TAC to get this Password Of the Day.
The csc\$ prompt appears.
5. At the csc\$ prompt, enter **om -c** . This outputs the list of licenses, similar to the following examples:

Cisco Unified MeetingPlace 8106:

```
meetingplace:csc$ om -c
avail (erc ) name versn ocount xdate sdate ecode
576 (0 ) accessports 1.000 576 01-jan-00 01-jan-00
E020407148BF2B2B1218
1 (0 ) calendar 1.000 1 01-jan-00 01-jan-00
4A7148E020407148BF22
576 (0 ) confports 1.000 576 01-jan-00 01-jan-00
A0C204C07148048BCB2B
576 (0 ) dataconf 1.000 576 01-jan-00 01-jan-00
B024040B71E48DB0714B
1 (0 ) directory 1.000 1 01-jan-00 01-jan-00
70207407148BF2B071EC
1 (0 ) exchg dataconf 1.000 1 01-jan-00 01-jan-00
402071480407148BF271
1 (0 ) fax 1.000 1 01-jan-00 01-jan-00 B02040071487148BF1A9
1 (0 ) flexmenus 1.000 1 01-jan-00 01-jan-00
602040707148148BF29D
```

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```
4 (0 ) languages 1.000 4 01-jan-00 01-jan-00
5020407148BF2B07549E
576 (0 ) mndata 1.000 576 01-jan-00 01-jan-00
E020407148F207619B68
1 (0 ) mpvideo 1.000 0 01-jan-00 01-jan-00
B02040071487148BF1A9
1 (0 ) mpwebcam 1.000 0 01-jan-00 01-jan-00
602040707148148BF29D
1 (0 ) msmail 1.000 1 01-jan-00 01-jan-00 0020407148B071481203
0 (0 ) multiunit 1.000 0 01-jan-00 01-jan-00
70204071480F2B2B1251
1 (0 ) netmgt 1.000 1 01-jan-00 01-jan-00 B02014865ACF2B2B12FE
1 (0 ) notes calendar 1.000 1 01-jan-00 01-jan-00
2020407148BF2B2B129F
576 (0 ) notification 1.000 576 01-jan-00 01-jan-00
B0204071407F2B2B123A
576 (0 ) recording 1.000 576 01-jan-00 01-jan-00
602048BF2B993F6012BB
1 (0 ) sametime 1.000 1 01-jan-00 01-jan-00
00071480407148BF127A
1 (0 ) shadow 1.000 0 01-jan-00 01-jan-00 00048BF207148B2B129D
1 (0 ) smtp 1.000 1 01-jan-00 01-jan-00 007148020407148B129B
1 (0 ) voting 1.000 1 01-jan-00 01-jan-00 E02007148407148B1201
100 (0 ) web 1.000 100 01-jan-00 01-jan-00
50700F1173F84D916199
110 (0 ) workstations 1.000 110 01-jan-00 01-jan-00
309090E10C840031B759
```

Cisco Unified MeetingPlace 8112:

```
meetingplace:csc$ om -c
avail (erc ) name versn ocount xdate sdate ecode
1152 (0 ) accessports 1.000 1152 01-jan-00 01-jan-00
E020407148BF2B2B1218
1 (0 ) calendar 1.000 1 01-jan-00 01-jan-00
4A7148E020407148BF22
1152 (0 ) confports 1.000 1152 01-jan-00 01-jan-00
A0C204C07148048BCB2B
1152 (0 ) dataconf 1.000 1152 01-jan-00 01-jan-00
B024040B71E48DB0714B
1 (0 ) directory 1.000 1 01-jan-00 01-jan-00
70207407148BF2B071EC
0 (0 ) exchg dataconf 1.000 0 01-jan-00 01-jan-00
402071480407148BF271
1 (0 ) fax 1.000 1 01-jan-00 01-jan-00 B02040071487148BF1A9
2 (0 ) flexmenus 1.000 2 01-jan-00 01-jan-00
602040707148148BF29D
4 (0 ) languages 1.000 4 01-jan-00 01-jan-00
5020407148BF2B07549E
1152 (0 ) mndata 1.000 1152 01-jan-00 01-jan-00
E020407148F207619B68
1 (0 ) msmail 1.000 1 01-jan-00 01-jan-00 0020407148B071481203
0 (0 ) multiunit 1.000 0 01-jan-00 01-jan-00
70204071480F2B2B1251
1 (0 ) netmgt 1.000 4 01-jan-00 01-jan-00 B02014865ACF2B2B12FE
```

Cisco_Unified_MeetingPlace_Release_6.1_--_Before_Configuring_the_Shadow_Server

```
1 (0 ) notes calendar 1.000 1 01-jan-00 01-jan-00
2020407148BF2B2B129F
1152 (0 ) notification 1.000 1152 01-jan-00 01-jan-00
B0204071407F2B2B123A
1152 (0 ) recording 1.000 1152 01-jan-00 01-jan-00
602048BF2B993F6012BB
1 (0 ) sametime 1.000 1 01-jan-00 01-jan-00
00071480407148BF127A
1 (0 ) shadow 1.000 1 01-jan-00 01-jan-00 00048BF207148B2B129D
1 (0 ) smtp 1.000 1 01-jan-00 01-jan-00 007148020407148B129B
1152 (0 ) voting 1.000 1152 01-jan-00 01-jan-00
E02007148407148B1201
2 (0 ) web 1.000 2 01-jan-00 01-jan-00 50700F1173F84D916199
200 (0 ) workstations 1.000 200 01-jan-00 01-jan-00
309090E10C840031B759
```

6. Access the primary server's CLI.
7. Log in to the CLI as a superuser. The csc\$ prompt appears.
8. At the csc\$ prompt, enter **om -c** . This outputs the list of licenses, similar to the preceding examples.
9. Compare the output from the shadow server with the output from the primary server. The license information for the shadow server and the primary server must be identical. If the shadow server does not have the same licenses as the primary server, do not proceed. Contact Cisco TAC.