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## Configuring a Pure IP Cisco Unified MeetingPlace System

**Note:** The necessary cables should already be attached to the transition modules on the back of your Cisco Unified MeetingPlace Audio Server. If they are not, see [Connecting the Cables to the Cisco Unified MeetingPlace 8100 Series](#).

Before using the **blade** command to configure a pure IP Cisco Unified MeetingPlace system, you must understand the assumptions in [Table: Blade Command Assumptions for Pure IP Cisco Unified MeetingPlace Systems](#). If your installation does not match these assumptions, you must customize the configuration by using the **blade** command's second option that allows you to modify the blade.

**Table: Blade Command Assumptions for Pure IP Cisco Unified MeetingPlace Systems**

Number of IP Ports	Assumed Multi Access Blade Type
1-120	1 MP-MA-4

121-240	2 MP-MA-4s
241-480	1 MP-MA-16
481-600	1 MP-MA-4 and 1 MP-MA-16
601+	2 MP-MA-16s

### To Configure a Pure IP Cisco Unified MeetingPlace System

1. Determine the settings you will make. See [About a Pure IP Cisco Unified MeetingPlace System](#).
2. If you do not already have terminal logging turned on, turn it on. For information, see [Logging Your HyperTerminal Session](#).
3. At the tech\$ prompt, enter **blade -i number\_of\_IP\_ports** . This is the command for a pure IP Cisco Unified MeetingPlace system.
4. Confirm the **blade** command by entering **y** .

The Cisco Unified MeetingPlace system tells you what it is configuring. The tech\$ prompt appears when the configuration is complete. See the following example:

```
meetingplace:tech$ blade -i <# IP ports>
This will reset many DB tables, are you sure? (y/n): y
Configuring "X" IP ports
Restart the system for changes to take effect
meetingplace:tech$
```

5. Verify your configuration by entering **blade** .
6. Confirm the screen output is correct for your configuration.
7. Modify the blade by entering **2** . A prompt for the blade slot to modify appears, as shown in the following example:

```
Enter command: 2
Enter blade slot [1.. 16 ]: 16
Type [IP]:
Card Type [TP1610]:
Port Group [ 1]:
Number of Ports [ 480]:
1st Port [ 480]:
IP address [0] [0.0.0.0]: 10.10.10.10
IP address [1] [0.0.0.0]: 10.10.10.11
Subnet Mask [0.0.0.0]: 255.255.255.0
Default Gateway [0.0.0.0]: 10.10.10.1
Base UDP Port [0] [ 5000]:
Base UDP Port [1] [ 6000]:
Jitter Buffer Minimum Size [ 100]:
Jitter Buffer Optimization [ 7]:
IP Precedence [0]:
Type of Service (TOS) [ 0]:
DSCP / DiffServ [unused]:
RTCP Interval [default]:
```

**Note:** The preceding example is for a Cisco Unified MeetingPlace 8112. For a Cisco Unified MeetingPlace 8106, the blade slot being configured is slot 6, the number of ports is 120, and the first port is 0. Also, the value for the IP address [1] field for a Cisco Unified MeetingPlace 8106 is 0.0.0.0. The bold line in the preceding example (Base UDP Port [1]) only appears for a Cisco Unified MeetingPlace 8112. This line does not appear in the code for a Cisco Unified MeetingPlace 8106.

8. Modify a blade by entering its slot number. In this configuration, for the Cisco Unified MeetingPlace 8112, it is slot 16 so enter **16** . For the Cisco Unified MeetingPlace 8106, it is slot 6, so enter **6** .

9. Continue pressing **Enter** until you are prompted to enter the IP address.
10. Enter the IP address. For an MP-MA-4, the Cisco Unified MeetingPlace system prompts you for one IP address. For an MP-MA-16, the Cisco Unified MeetingPlace system prompts you for two IP addresses. If you are using fewer than 240 ports on an MP-MA-16, leave the second IP address as 0.0.0.0.
11. Continue pressing **Enter** and verify the default settings are correct for this installation. If your installation calls for values other than the defaults, make the necessary changes.

**Note:** The value for the Base UDP Port fields must be divisible by 10 or you will get an error.

The following shows an example of how to use the **blade** command to configure an IP Precedence value of 5 and a ToS value of 0. Notice that DSCP is disabled.

**Note:** This configuration must be done for each Multi Access Blade used in a pure IP configuration.

```
***** B L A D E C O N F I G M E N U *****
```

```
1) View blade details
2) Modify blade
x) Exit program
Enter command: 2
Enter blade slot [1.. 16 ]: 16
Type [IP]:
Card Type [TP1610]:
Port Group [ 1]:
Number of Ports [120]:
1st Port [ 46 ]:
IP address [0] [172.20.18.30]:
IP address [1] [172.20.18.31]:
Subnet Mask [255.255.0.0]:
Default Gateway [172.20.1.1]:
Base UDP Port [0] [ 5000]:
Base UDP Port [1] [ 6000]:
Jitter Buffer Minimum Size [ 100]:
Jitter Buffer Optimization [ 7]:
IP Precedence [0]: 5
Type of Service (TOS) [ 0]: 0
DSCP / DiffServ [unused]: unused
RTCP Interval [default]:
```

**Note:** The preceding example is for a Cisco Unified MeetingPlace 8112. For a Cisco Unified MeetingPlace 8106, the blade slot being configured is slot 6 and the first port is 0. The bold lines in the preceding example (IP address [1] and Base UDP Port [1]) only appear for a Cisco Unified MeetingPlace 8112. These two lines do not appear in the code for a Cisco Unified MeetingPlace 8106.

The following is an example of how to use the **blade** command to configure a DSCP value of 40. Notice that the "IP Precedence" and "Type of Service" fields are disabled.

**Note:** This configuration must be done for each Multi Access Blade used in a pure IP configuration.

```
***** B L A D E C O N F I G M E N U *****
```

```
1) View blade details
2) Modify blade
x) Exit program
Enter command: 2
Enter blade slot [1..16]: 16
Type [IP]:
Card Type [TP1610]:
```

```

Port Group [ 1]:
Number of Ports [120]:
1st Port [ 46 ]:
IP address [0] [172.20.18.30]:
IP address [1] [172.20.18.31]:
Subnet Mask [255.255.0.0]:
Default Gateway [172.20.1.1]:
Base UDP Port [0] [ 5000]:
Base UDP Port [1] [ 6000]:
Jitter Buffer Minimum Size [ 100]:
Jitter Buffer Optimization [ 7]:
IP Precedence [0]: unused
Type of Service (TOS) [ 0]: unused
DSCP / DiffServ [unused]: 40
RTCP Interval [default]:

```

**Note:** The preceding example is for a Cisco Unified MeetingPlace 8112. For a Cisco Unified MeetingPlace 8106, the blade slot being configured is slot 6 and the first port is 23. The bold lines in the preceding example (IP address [1] and Base UDP Port [1]) only appear for a Cisco Unified MeetingPlace 8112. These two lines do not appear in the code for a Cisco Unified MeetingPlace 8106.

The following example shows how to configure the jitter buffer minimum size to 150 milliseconds and the jitter buffer optimization factor to 9.

**Note:** This configuration must be done for each Multi Access Blade used for an IP configuration.

```

***** B L A D E C O N F I G M E N U *****
1) View blade details
2) Modify blade
x) Exit program
Enter command: 2
Enter blade slot [1.. 16 ]: 16
Type [IP]:
Card Type [TP1610]:
Port Group [ 1]:
Number of Ports [120]:
1st Port [ 46 ]:
IP address [0] [172.20.18.30]:
IP address [1] [172.20.18.31]:
Subnet Mask [255.255.0.0]:
Default Gateway [172.20.1.1]:
Base UDP Port [0] [ 5000]:
Base UDP Port [1] [ 6000]:
Jitter Buffer Minimum Size [ 100]: 150
Jitter Buffer Optimization [ 7]: 9
IP Precedence [0]:
Type of Service (TOS) [ 0]:
DSCP / DiffServ [unused]:
RTCP Interval [default]:

```

**Note:** The preceding example is for a Cisco Unified MeetingPlace 8112. For a Cisco Unified MeetingPlace 8106, the blade slot being configured is slot 6 and the first port is 23. The bold lines in the preceding example (IP address [1] and Base UDP Port [1]) only appear for a Cisco Unified MeetingPlace 8112. These two lines do not appear in the code for a Cisco Unified MeetingPlace 8106.

12. Verify that the IP addresses were changed correctly by entering **1**.

13. Enter the slot number for the blade you want to see.
14. Exit the **blade** command by entering **x** .

## Configuring 480 IP Ports (Cisco Unified MeetingPlace 8106 Only) Example

**Note:** Although a Cisco Unified MeetingPlace 8112 can be configured with 480 IP ports, this example is for a Cisco Unified MeetingPlace 8106 only.

### To Configure 480 IP Ports Example

1. If you do not already have terminal logging turned on, turn it on. For information, see [Logging Your HyperTerminal Session](#).

2. At the tech\$ prompt, enter **blade -i 480** .

3. Confirm the **blade** command by entering **y** .

```
The Cisco Unified MeetingPlace system responds by telling you how many ports it is
configuring. When the tech$ prompt appears, it is complete. See the following example:
meetingplace:tech$ blade -i 480
This will reset many DB tables, are you sure? (y/n): y
Configuring 480 IP ports
Restart the system for changes to take effect
meetingplace:tech$
```

4. Verify your configuration by entering **blade** .

5. Confirm that the screen output is like the following example:

```
meetingplace:tech$ blade
Slot Card Type CardId Ports
1 CG6000C SB 0
2 CG6000C SB 1
3 CG6000C SB 2
4 CG6000C SB 3
5 CG6000C SB 4
6 CG6000C IP 0 0-479 (No IP address)
***** B L A D E C O N F I G M E N U *****
1) View blade details
2) Modify blade
x) Exit program
```

6. Modify a blade by entering **2** . A prompt for the blade slot to modify appears.

7. Modify the blade by entering the slot number of the blade. In this example, it is slot 6 so enter **6** .

```
***** B L A D E C O N F I G M E N U *****
1) View blade details
2) Modify blade
x) Exit program
Enter command: 2
Enter blade slot [1..6]: 6
Type [IP]:
Card Type [TP1610-4]:
Port Group [ 3]:
Number of Ports [120]:
1st Port [ 23]:
IP address [0] [0.0.0.0]: 10.10.10.10
Subnet Mask [0.0.0.0]: 255.255.255.0
Default Gateway [0.0.0.0]: 10.10.10.1
Base UDP Port [0] [ 5000]:
Jitter Buffer Minimum Size [ 100]:
```

```
Jitter Buffer Optimization [ 7]:
IP Precedence [0]:
Type of Service (TOS) [ 0]:
DSCP / DiffServ [unused]:
RTCP Interval [default]:
```

8. Continue pressing **Enter** until you are prompted to enter the IP address.
9. Enter the IP address and continue pressing **Enter** until you get to the **blade** command menu.
10. Modify a blade by entering **2** . A prompt for the blade slot to modify appears.
11. Select the blade in slot 5 by entering **5** .
 

**Note:** The preceding example shows slot 6; however, you have already configured slot 6, so you should select slot 5 now.
12. Continue pressing **Enter** until you are prompted to enter the IP address.
13. Enter the IP address and continue pressing **Enter** until you get to the **blade** command menu.
14. Verify that the IP addresses were changed correctly by entering **1** .
15. Enter the slot number for the blade you want to see.
16. Exit the **blade** command by entering **x** .

## Configuring 960 IP Ports (Cisco Unified MeetingPlace 8112 Only) Example

### To Configure 960 IP Ports Example

1. If you do not already have terminal logging turned on, turn it on. For information, see [Logging Your HyperTerminal Session](#).
2. At the tech\$ prompt, enter **blade -i 960** .
3. Confirm the **blade** command by entering **y** .

The Cisco Unified MeetingPlace system responds by telling you how many ports it is configuring. When the tech\$ prompt appears, it is complete. See the following example:

```
meetingplace:tech$ blade -i 960
This will reset many DB tables, are you sure? (y/n): y
Configuring 960 IP ports
Restart the system for changes to take effect
meetingplace:tech$
```

4. Verify your configuration by entering **blade** .
5. Confirm that the screen output is similar to the following example:

```
meetingplace:tech$ blade
Slot Card Type CardId Ports
1 CG6000C SB 0
2 CG6000C SB 1
3 CG6000C SB 2
4 CG6000C SB 3
5 CG6000C SB 4
6 CG6000C SB 5
11 CG6000C SB 6
12 CG6000C SB 7
13 CG6000C SB 8
14 CG6000C SB 9
15 TP1610 IP 1 480-959 (No IP address)
16 TP1610 IP 0 0-479 (No IP address)
***** B L A D E C O N F I G M E N U *****
1) View blade details
2) Modify blade
```

x) Exit program

6. Modify a blade by entering **2** . A prompt for the blade slot to modify appears.

7. Enter the slot number for the blade you want to modify. In this example, it is slot 16 so enter **16** .

```
***** B L A D E C O N F I G M E N U *****
```

1) View blade details

2) Modify blade

x) Exit program

Enter command: 2

Enter blade slot [1..16]: 16

Type [IP]:

Card Type [TP1610]:

Port Group [ 1]:

Number of Ports [480]:

1st Port [ 0]:

IP address [0] [0.0.0.0]: 10.10.10.10

IP address [1] [0.0.0.0]: 10.10.10.11

Subnet Mask [0.0.0.0]: 255.255.255.0

Default Gateway [0.0.0.0]: 10.10.10.1

Base UDP Port [0] [ 5000]:

Base UDP Port [1] [ 6000]:

Jitter Buffer Minimum Size [ 100]:

Jitter Buffer Optimization [ 7]:

IP Precedence [0]:

Type of Service (TOS) [ 0]:

DSCP / DiffServ [unused]:

RTCP Interval [default]:

8. Continue pressing **Enter** until you are prompted to enter the IP address.

9. Enter the IP address and continue pressing **Enter** until you get to the **blade** command menu.

10. Modify a blade by entering **2** . A prompt for the blade slot to modify appears, as shown in line 8 of the preceding example.

11. Select the blade in slot 15 by entering **15** .

12. Continue pressing **Enter** until you are prompted to enter the IP address.

13. Enter the IP address and continue pressing **Enter** until you get to the **blade** command menu.

14. Verify that the IP addresses were changed correctly by entering **1** .

15. Enter the slot number for the blade you want to see.

16. Exit the **blade** command by entering **x** .

## Setting IP Codec Configuration

This section only needs to be completed if your Cisco Unified MeetingPlace system uses IP ports.

### To Set IP Codec Configuration

1. Install and configure the Cisco Unified MeetingPlace H.323/SIP Gateway. See [Cisco Unified MeetingPlace H.323/SIP IP Gateway, Release 5.3](#).

2. If you do not already have terminal logging turned on, turn it on. For information, see [Logging Your HyperTerminal Session](#).

3. Log in to the CLI as a technician.

4. Enter **restart** .

5. Confirm that you want to restart the Cisco Unified MeetingPlace system by entering **y** .

6. After the Cisco Unified MeetingPlace system has finished restarting (about five minutes), launch the Cisco Unified MeetingPlace H.323/SIP Gateway service running on the Cisco Unified MeetingPlace H.323/SIP Gateway machine. See [Cisco Unified MeetingPlace H.323/SIP IP Gateway, Release 5.3](#) for information on how to launch the service.
7. Log in to the CLI as a technician.
8. Verify that the software is up by entering `swstatus`. See the example in step 9 of [Setting the Date and Time for the Cisco Unified MeetingPlace 8100 Series](#).
9. Verify that the Cisco Unified MeetingPlace H.323/SIP Gateway service is up by entering `gwstatus`. See the following example:

```
meetingplace:tech$ gwstatus
Gateway SIM Status/Wed Aug 23 20:06:24 2006
-----
Remote Units:
Unit 16 mpgateway v5.2.0.55 Ok 08/23/06 14:02:10
Gateways:
Unit 18 WebPub:DataSvc v5.4.40.0 Ok 08/23/06 14:02:46
Unit 18 WebPub:MPAgent v5.4.40.0 Ok 08/23/06 14:02:30
Unit 18 WebPub:Audio v5.4.40.0 Ok 08/23/06 14:03:26
Unit 18 MPConvert v5.4.40.0 Ok 08/23/06 14:02:02
Unit 18 IP Gateway v5.2.1.22 Ok 08/23/06 14:03:30
Unit 18 MPVideo v5.4.39.0 Ok 08/23/06 14:03:30
Unit 18 WebPub:Master v5.4.40.0 Ok 08/23/06 14:03:30
Unit 18 DataConf:MCS v5.4.40.0 Ok 08/23/06 14:03:18
Unit 18 DataConf:GCC v5.4.40.0 Ok 08/23/06 14:03:18
Unit 18 DataConf:GW v5.4.40.0 Ok 08/23/06 14:03:18
Unit 19 WebPub:DataSvc v5.4.40.0 Ok 08/23/06 14:02:43
Unit 19 WebPub:MPAgent v5.4.40.0 Ok 08/23/06 14:02:11
Unit 19 WebPub:Audio v5.4.40.0 Ok 08/23/06 14:03:15
Unit 19 MPConvert v5.4.40.0 Ok 08/23/06 14:02:43
Unit 19 WebPub:Master v5.4.40.0 Ok 08/23/06 14:03:15
Unit 19 MPVideo v5.2.0.0 Ok 08/23/06 14:02:15
Unit 19 DataConf:GCC v5.4.40.0 Ok 08/23/06 14:02:39
Unit 19 DataConf:MCS v5.4.40.0 Ok 08/23/06 14:02:35
Unit 19 DataConf:GW v5.4.40.0 Ok 08/23/06 14:02:39
```

10. Enter `setipcodec`. The first seven lines of the following example appear.

```
meetingplace:tech$ setipcodec
***** I P C O D E C C O N F I G M E N U *****
1) View IP codec configuration
2) Modify IP codec configuration
x) Exit program
Enter command: 2
Codec Priorities (highest = 1)
-----
G.711 mu-law [ 10] :
G.711 A-law [ 11] :
G.722 [unused] :
G.723 [unused] :
G.726-16 [unused] :
G.726-24 [unused] :
G.726-32 [unused] :
G.726-40 [unused] :
G.728 [unused] :
G.729 [unused] :
```



```

GSM [unused] :
GSM-EFR [unused] :
QCELP [unused] :
Codec Attributes
-----
G.711 packet size (ms) [ 20] :
G.723 frames per packet [ 1] :
G.723 low rate (5.3 kb/s)? [y] :
G.728 frames per packet [ 8] :
G.729 frames per packet [ 2] :
G.729A support? [y] :
G.729B support? [y] :
GSM frames per packet [ 1] :
GSM-EFR frames per packet [ 1] :
QCELP frames per packet [ 1] :
Miscellaneous
-----
Silence Suppression? [n] :

```

11. Modify the IP codec configuration by entering **2**. The next line in the preceding example appears.
12. Continue pressing **Enter** and enter the appropriate codec priority based on your installation requirements. In the preceding example, G.711 mu-law is given the highest priority and G.711 A-law is given the next highest priority. G.729 is unused. These are the default settings. If you need other settings, use the **setipcodec** command to change them.

**Note:** If your Cisco Unified MeetingPlace system uses multiple codecs, enable and test each one individually. Then enable all of them with the correct priority, and test again.

13. Continue pressing **Enter** to accept the default for the remaining settings.
14. Try to place an IP call in to the Cisco Unified MeetingPlace system. If the call is successful, the configuration is complete.

If the call is not successful, use the following commands: (These commands produce logs that give you information about why the call failed.) If you still cannot determine the reason for failure, contact Cisco TAC.

- ◆ **errorlog -s info -l**
- ◆ **cptrace** and **cptrace -v**
- ◆ **gwcptrace unit\_number**
- ◆ **tvportstat -s** and **tvportstat -c**