



## Managing Probes

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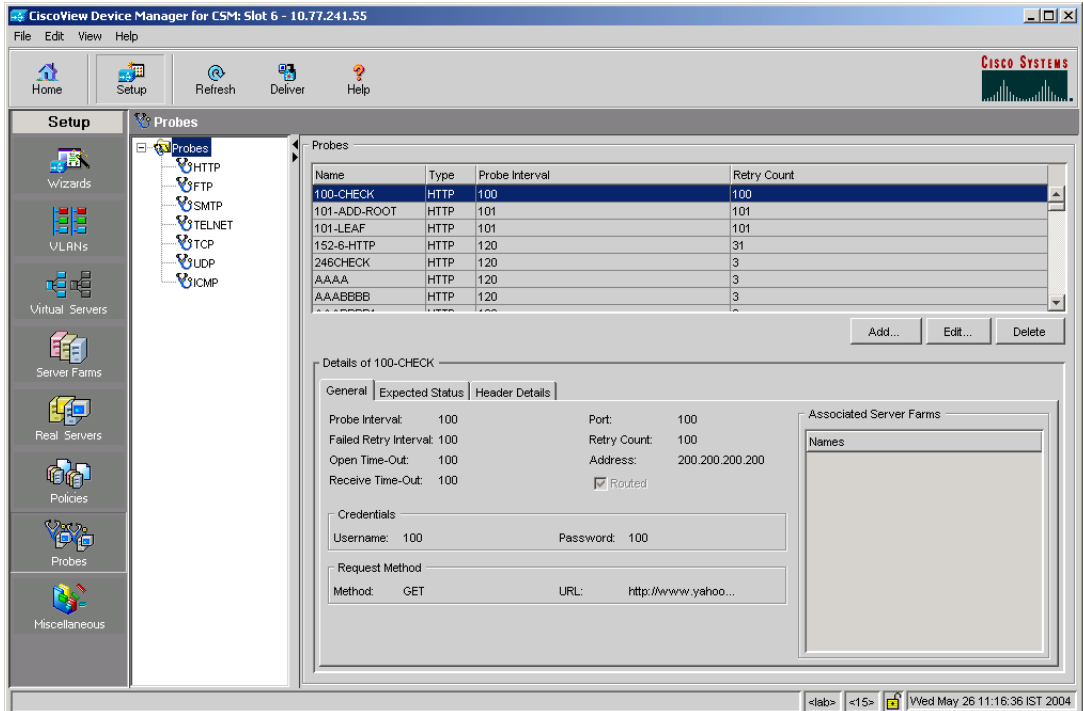
Associating probes to the real servers and server farms allows you to determine if the real servers are operating correctly.

CVDM-CSM supports probes to monitor real servers and lets you to configure them through CVDM-CSM.

This section includes the following topics:

- [Viewing Probes, page 10-2](#)
  - [Viewing HTTP Probes, page 10-7](#)
  - [Viewing FTP Probes, page 10-17](#)
  - [Viewing SMTP Probes, page 10-26](#)
  - [Viewing TELNET Probes, page 10-34](#)
  - [Viewing TCP Probes, page 10-42](#)
  - [Viewing UDP Probes, page 10-47](#)
  - [Viewing ICMP Probes, page 10-52](#)
- [Adding Probes, page 10-4](#)
- [Editing Probes, page 10-6](#)

# Viewing Probes




You can view information about all probes on the device.

To view the probes:

- Step 1** Click **Setup** from the task bar.
- Step 2** Click **Probes** in the left-most pane. A table with details of all configured Probes appears.

The following fields are displayed:

Field	Action/Action/Description
<b>Probes</b>	
Name	Name of the Probe. The character string is limited to 15 characters.
Type	Type of probe. The different types are http, ftp, smtp, telnet, telnet, tcp, udp and icmp.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.
Details	<p>The details of the selected Probe is displayed.</p> <p>For more information on HTTP, see <a href="#">“Viewing HTTP Probes” section on page 10-7.</a></p> <p>For more information on FTP, see <a href="#">“Viewing FTP Probes” section on page 10-17.</a></p> <p>For more information on SMTP, see <a href="#">“Viewing SMTP Probes” section on page 10-26.</a></p> <p>For more information on TELNET, see <a href="#">“Viewing TELNET Probes” section on page 10-34.</a></p> <p>For more information on TCP, see <a href="#">Viewing TCP Probes.</a></p> <p>For more information on UDP, see <a href="#">“Viewing UDP Probes” section on page 10-47.</a></p> <p> <b>Note</b> UDP probes cannot be viewed in the following IOS versions: 12.1(13)E, 12.2(14)SY and 12.2(14)SX1.</p> <p>For more information on ICMP, see <a href="#">“Viewing ICMP Probes” section on page 10-52.</a></p>

From this page, you can access functions to do the following:

- Click **Add** to add probes. For more information, see [“Adding Probes” section on page 10-4](#).
  - Click **Edit** to add probes. For more information, see [“Editing Probes” section on page 10-6](#).
  - Select a Probe, then click **Delete** to delete the probe.
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## Adding Probes

To add Probes:

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- Step 1** Click **Setup** from the task bar.
  - Step 2** Click **Probes** in the left-most pane. A table with details of all configured Probes appears.
  - Step 3** Click **Add**. The Add Probes dialog box appears.

In the **Type** field, choose the type of Probe which you wish to add.

They are: HTTP,FTP,SMTP,TELNET,TCP,UDP,andICMP.

The fields in the pane changes as per the type of the Probe.

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For more information on adding a HTTP Probe, see [“Adding HTTP Probes” section on page 10-11](#).

For more information on adding a FTP Probe, see [“Adding FTP Probes” section on page 10-20](#).

For more information on adding a SMTP Probe, see [“Adding SMTP Probes” section on page 10-29](#).

For more information on adding a TELNET Probe, See [“Adding TELNET Probes” section on page 10-37](#)

For more information on adding a TCP Probe, see [“Adding TCP Probes” section on page 10-44](#).

For more information on adding a UDP Probe, see [“Adding UDP Probes” section on page 10-49](#).

For more information on adding a ICMP Probe, see [“Adding ICMP Probes” section on page 10-54](#).

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# Editing Probes

To edit Probes:

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- Step 1** Click **Setup** from the task bar.
  - Step 2** Click **Probes** in the left-most pane. A table with details of all configured Probes appears.
  - Step 3** Select the Probe that you wish to modify and click **Edit**. The Edit Probes dialog box appears.
  - Step 4** In the **Edit Probe** pane, the field **Type** shows the type of Probe.  
They are: HTTP,FTP,SMTP,TELNET,TCP,UDP,andICMP.  
The fields in the pane changes as per the type of the Probe.
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For more information on editing a HTTP Probe, see [“Editing HTTP Probes” section on page 10-14](#).

For more information on editing a FTP Probe, see [“Editing FTP Probes” section on page 10-23](#).

For more information on editing a SMTP Probe, see [“Editing SMTP Probes” section on page 10-31](#).

For more information on editing a TELNET Probe, see [“Editing TELNET Probes” section on page 10-39](#)

For more information on editing a TCP Probe, see [“Editing TCP Probes” section on page 10-46](#).

For more information on editing a UDP Probe, see [“Editing UDP Probes” section on page 10-51](#).

For more information on editing a ICMP Probe, see [“Editing ICMP Probes” section on page 10-56](#).

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# Viewing HTTP Probes

To view HTTP Probes:

**Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.

**Step 2** Select **Probes > HTTP** in the object selector.

The following fields appear:

Field	Action/Description
Name	Name of the probe.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table. These are of three types:

- [General](#)
- [Expected Status](#)
- [Header Details](#)

## General

The following details appears:

Field	Action/Description
<b>Details</b>	
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Port	Decimal TCP/UDP port number or port name.
Failed Retry Interval	Time in seconds before retrying a failed server.
Retry Count	Number of probes to wait before marking a server as failed.
Open Time- Out	Maximum time in seconds to wait for a TCP connection.
Address	IP address of the real server .
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Routed	Displays the check box status, Selected or unselected.  Specifies that the probe is routed according to the CSM routing table.
<b>User Credentials</b>	
Username	Name that appears in the HTTP header.



Field	Action/Description
Password	Password that appears in the HTTP header.
Associated Server Farms	Server Farm associated with the probe.  All servers in the server farm receive probes of the probe types that are associated with that server farm.  You can associate one or more probe types with a server farm.

## Expected Status

The following details appears:

Field	Action/Description
<b>Expected Status</b>	
Minimum Value	Minimum status code in a range. There will be only a single status code if max-number is not specified.
Maximum Value	Maximum status code in a range.

## Header Details

The following details appears:

Field	Action/Description
<b>Header name and value</b>	
Name	Name for the header being defined.
Value	Content for the header.

From this page, you can access functions to do the following:

- Click **Add** to add HTTP Probes. For more information, see [“Adding HTTP Probes” section on page 10-11.](#)
- Click **Edit** to edit an HTTP Probes. For more information, see [“Editing HTTP Probes” section on page 10-14.](#)
- Select a HTTP Probe, then click **Delete** to delete the Probe.



# Adding HTTP Probes

To add HTTP Probes:

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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > HTTP** in the object selector.
  - Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	The type HTTP is displayed.
Port I	Enter the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Enter the number of probes to wait before marking a server as failed. The range is from 0 to 65535. The default value is 3.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server. The range is from 2 to 65535. The default value is 300.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs. The default value is 10.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server The range is from 1 to 65535 Secs. The default value is 10.
Address	Enter the IP address of the real server. The check box for Routed adjacent to this field shows if the probe is routed according to the CSM routing table
<b>User Credentials</b>	
Username	Enter the name that appears in the HTTP header.
Password	Enter the password that appears in the HTTP header.
<b>Expected Status</b>	

Field	Action/Description
Minimum Value	<p>Click <b>Add</b> and enter the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p>Enter the maximum status code in a range.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
<b>Header name and value</b>	
Name	Click <b>Add</b> , then enter the name for the header being defined.
Value	Enter the content for the header.



# Editing HTTP Probes

To edit HTTP Probes:

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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > HTTP** in the object selector.
  - Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	The name of the probe.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 0 to 65535.
Type	Type of probe. Here it will be HTTP.
Retry Count	Enter the number of probes to wait before marking a server as failed. The range is from 0 to 65535.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Enter the time in seconds before retrying a failed server. The range is from 2 to 65535.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs.
Address	Modify the IP address of the real server. The check box for Routed adjacent to this field shows if the probe is routed according to the CSM routing table
<b>User Credentials</b>	
Username	Modify the name that appears in the HTTP header.

Field	Action/Description
Password	Modify the password that appears in the HTTP header.
<b>Expected Status</b>	
Minimum Value	<p>Click <b>Add</b>. Modify the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p>The default range is 0 to 999.</p> <p> <b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p>Modify the maximum status code in a range.</p> <p>The default range is 0 to 999.</p> <p> <b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
<b>Header name and value</b>	
Name	Click <b>Add</b> . Modify the name for the header being defined.
Value	Modify the content for the header.



# Viewing FTP Probes

To view FTP Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > FTP** in the object selector.

The following fields appears:

Field	Action/Description
Name	Name of the probe.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table. These are of two types:

- [General](#)
- [Expect Status](#)

## General

The following details appears:

Field	Action/Description
Port	Decimal TCP/UDP port number or port name.
Retry Count	Number of probes to wait before marking a server as failed.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Failed Retry Interval	Time in seconds before retrying a failed server.
Open Time-Out	Maximum time in seconds to wait for a TCP connection.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Associated Server Farm	The Server Farm associated with the probe. All servers in the server farm receive probes of the probe types that are associated with that server farm. You can associate one or more probe types with a server farm.

## Expect Status

The following details appears:

Field	Action/Description
Minimum Value	Minimum status code in a range. There will be only a single status code if max-number is not specified.
Maximum Value	Maximum status code in a range.

From this page, you can access functions to do the following:

- Click **Add** to add FTP Probes. For more information, see [“Adding FTP Probes” section on page 10-20](#)
  - Click **Edit** to edit a FTP Probes. For more information, see [“Editing FTP Probes” section on page 10-23](#).
  - Select a FTP Probe, then click **Delete** to delete the probe.
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# Adding FTP Probes

To add FTP Probes:

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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > FTP** in the object selector.
  - Step 3** Click **Add**. The Add Probe dialog box appears.

The following fields appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Displays the type of probe. Here it will be FTP.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs. The default value is 10.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs. The default value is 10.
Port	Enter the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Enter the number of probes to wait before marking a server as failed. The range is from 0 to 65535. The default value is 3.
<b>Expected Status</b>	

Field	Action/Description
Minimum Value	<p>Click <b>Add</b>. Enter the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p>The default range is 0 to 999.</p>  <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p>Enter the maximum status code in a range.</p> <p>The default range is 0 to 999.</p>  <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>

From this page, you can access functions to do the following:

- Click **Add** to add expect status details by adding the minimum and maximum expect status.
- Select a row and click **Delete** to delete the expect status.

# Editing FTP Probes



To edit FTP Probes:

- 
- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > FTP** in the object selector.
  - Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	The name of the probe.
Type	Type of probe. Here it will be FTP.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Open Time- Out	Modify the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs.
Receive Time-Out	Modify the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Modify the number of probes to wait before marking a server as failed. The range is from 0 to 65535.
<b>Expected Status</b>	



Field	Action/Description
Minimum Value	<p data-bbox="608 240 1233 334">Click <b>Add</b>. Modify the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p data-bbox="608 350 935 380">The default range is 0 to 999.</p>  <hr/> <p data-bbox="608 443 1220 532"><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p data-bbox="608 561 1106 591">Modify the maximum status code in a range.</p> <p data-bbox="608 607 935 636">The default range is 0 to 999.</p>  <hr/> <p data-bbox="608 699 1220 789"><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>

# Viewing SMTP Probes

To view SMTP Probes:

**Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.

**Step 2** Select **Probes > SMTP** in the object selector.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table. These are of two types:

- [General](#)
- [Expect Status](#)

## General

The following details appears:

Field	Action/Description
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Port	Decimal TCP/UDP port number or port name.
Failed Retry Interval	Time in seconds before retrying a failed server.
Retry Count	Number of probes to wait before marking a server as failed.
Open Time- Out	Maximum time in seconds to wait for a TCP connection.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Associated Server Farm	The Server Farm associated with the probe. All servers in the server farm receive probes of the probe types that are associated with that server farm. You can associate one or more probe types with a server farm.

## Expect Status

The following details appears.

Field	Action/Description
Minimum Value	Minimum status code in a range. There will be only a single status code if max-number is not specified.
Maximum Value	Maximum status code in a range.

From this page, you can access functions to do the following:

- Click **Add** to add SMTP Probes. For more information, see [“Adding SMTP Probes” section on page 10-29](#).
- Click **Edit** to edit a SMTP Probe. For more information, see [“Editing SMTP Probes” section on page 10-31](#).
- Select a SMTP Probe, then click **Delete** to delete the Probe.



# Adding SMTP Probes

To add SMTP Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > SMTP** in the object selector.
- Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears.

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Displays the type of probe. Here it will be SMTP.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs. The default value is 10.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs. The default value is 10.

Field	Action/Description
Port	Enter the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Enter the number of probes to wait before marking a server as failed.  The range is from 0 to 65535. The default value is 3.
<b>Expected Status</b>	
Minimum Value	<p>Click <b>Add</b>. Enter the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p>Enter the maximum status code in a range.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>

From this page, you can access functions to do the following:

- Click **Add** to add expect status details by adding the minimum and maximum expect status.

- Select a row and click **Delete** to delete the expect status.
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## Editing SMTP Probes

To edit SMTP Probes:



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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > SMTP** in the object selector.
- Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Type	Type of probe. Here it will be SMTP.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Open Time- Out	Modify the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs.
Receive Time-Out	Modify the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Modify the number of probes to wait before marking a server as failed. The range is from 0 to 65535.
<b>Expected Status</b>	



Field	Action/Description
Minimum Value	<p data-bbox="642 240 1197 334">Click <b>Add</b>. Modify the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p data-bbox="642 350 971 380">The default range is 0 to 999.</p> <p data-bbox="642 396 690 435"></p> <p data-bbox="642 443 1231 532"><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p data-bbox="642 561 1143 591">Modify the maximum status code in a range.</p> <p data-bbox="642 607 971 636">The default range is 0 to 999.</p> <p data-bbox="642 652 690 691"></p> <p data-bbox="642 699 1231 789"><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>

# Viewing TELNET Probes

To view TELNET Probes:

**Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.

**Step 2** Select **Probes > TELNET** in the object selector.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table. These are of two types:

- [General](#)
- [Expect Status](#)

## General

The following details appears:

Field	Action/Description
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Port	Decimal TCP/UDP port number or port name.
Failed Retry Interval	Time in seconds before retrying a failed server.
Retry Count	Number of probes to wait before marking a server as failed.
Open Time- Out	Maximum time in seconds to wait for a TCP connection.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Associated Server Farm	<p>The Server Farm associated with the probe.</p> <p>All servers in the server farm receive probes of the probe types that are associated with that server farm.</p> <p>You can associate one or more probe types with a server farm.</p>

## Expect Status

The following details appears:

Field	Action/Description
Minimum Value	Minimum status code in a range. There will be only a single status code if max-number is not specified.
Maximum Value	Maximum status code in a range.

From this page, you can access functions to do the following:

- Click **Add** to add TELNET probes. For more information, see [“Adding TELNET Probes” section on page 10-37](#).
- Click **Edit** to edit a TELNET probe. For more information, see [“Editing TELNET Probes” section on page 10-39](#).
- Select a TELNET probe, then click **Delete** to delete the Probe.



# Adding TELNET Probes

To add TELNET Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > TELNET** in the object selector.
- Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Displays the type of probe. Here it will be TELNET.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1-65535 Secs. The default value is 10.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server. The range is from 1-65535 Secs. The default value is 10.

Field	Action/Description
Port	Enter the decimal TCP/UDP port number or port name.
Retry Count	Enter the number of probes to wait before marking a server as failed.  The range is from 0 to 65535. The default value is 3.
<b>Expected Status</b>	
Minimum Value	Click <b>Add</b> . Enter the minimum status code in a range. There will be only a single status code if max-number is not specified.  The default range is 0 to 999.   <b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.
Maximum Value	Enter the maximum status code in a range.  The default range is 0 to 999.   <b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.

From this page, you can access functions to do the following:

- Click **Add** to add expect status details by adding the minimum and maximum expect status.
- Select a row and click **Delete** to delete the expect status.

# Editing TELNET Probes



To edit TELNET Probes:

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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > TELNET** in the object selector.
  - Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Type	Type of probe. Here it will be TELNET.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.  The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Open Time- Out	Modify the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs.
Receive Time-Out	Modify the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 1 to 65535.
Retry Count	Modify the number of probes to wait before marking a server as failed.  The range is from 0 to 65535.
Expected Status	



Field	Action/Description
Minimum Value	<p>Click <b>Add</b>. Modify the minimum status code in a range. There will be only a single status code if max-number is not specified.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>
Maximum Value	<p>Modify the maximum status code in a range.</p> <p>The default range is 0 to 999.</p> <p></p> <p><b>Note</b> You cannot add overlapping status code. The range should be outside what you have already added.</p>

# Viewing TCP Probes

To view TCP Probes:

- 
- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > TCP** in the object selector.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table.

The following details appears:

Field	Action/Description
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Port	Decimal TCP/UDP port number or port name.
Failed Retry Interval	Time in seconds before retrying a failed server.
Retry Count	Number of probes to wait before marking a server as failed.
Open Time- Out	Maximum time in seconds to wait for a TCP connection.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Associated Server Farm	The Server Farm associated with the probe.  All servers in the server farm receive probes of the probe types that are associated with that server farm.  You can associate one or more probe types with a server farm.

From this page, you can access functions to do the following:

- Click **Add** to add TCP probes. For more information, see [“Adding TCP Probes” section on page 10-44](#).
- Click **Edit** to edit a TCP probe. For more information, see [“Editing TCP Probes” section on page 10-46](#).
- Select a TCP probe, then click **Delete** to delete the probe.

# Adding TCP Probes

To add TCP Probes:

- 
- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > TCP** in the object selector.
  - Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Type of probe. Here it will be TCP.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Open Time- Out	Enter the maximum time in seconds to wait for a TCP connection. The range is from 1-65535 Secs. The default value is 10.
Port	Enter the decimal TCP/UDP port number or port name. The range is from 1 to 65535.

# Editing TCP Probes

To edit TCP Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > FTP** in the object selector.
- Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Type	Type of probe. Here it will be TCP.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Open Time- Out	Modify the maximum time in seconds to wait for a TCP connection. The range is from 1 to 65535 Secs.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 1 to 65535.

# Viewing UDP Probes



**Note** UDP probes cannot be viewed in the following IOS versions: 12.1(13)E, 12.2(14)SY and 12.2(14)SX1.

To view UDP Probes:

**Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.

**Step 2** Select **Probes > UDP** in the object selector.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table.

The following details appears:

Field	Action/Description
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Port	Decimal TCP/UDP port number or port name.
Failed Retry Interval	Time in seconds before retrying a failed server.
Retry Count	Number of probes to wait before marking a server as failed.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Associated Server Farm	<p>The Server Farm associated with the probe.</p> <p>All servers in the server farm receive probes of the probe types that are associated with that server farm.</p> <p>You can associate one or more probe types with a server farm.</p>

From this page, you can access functions to do the following:

- Click **Add** to add UDP Probes. For more information, see [“Adding UDP Probes” section on page 10-49](#).
- Click **Edit** to edit a UDP Probe. For more information, see [“Editing UDP Probes” section on page 10-51](#).
- Select a UDP probe, then click **Delete** to delete the Probe.



# Adding UDP Probes

To add UDP Probes:

- 
- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > UDP** in the object selector.
  - Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Type of probe. Here it will be UDP.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs. The default value is 10.
Port	Enter the decimal TCP/UDP port number or port name. The range is from 1 to 65535.

# Editing UDP Probes

To edit UDP Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > UDP** in the object selector.
- Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Type	Type of probe. Here it will be UDP.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Receive Time-Out	Modify the maximum time in seconds to wait for a reply from real server. The range is from 1-65535 Secs.
Port	Modify the decimal TCP/UDP port number or port name. The range is from 1 to 65535.

# Viewing ICMP Probes

To view ICMP Probes:

- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > ICMP** in the object selector.

The following details appears:

Field	Action/Description
Name	Name of the probe.
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.

## Details

More details about the selected probe appear at the bottom of the table

The following details appears:

Field	Action/Description
Probe Interval	Number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe.
Retry Count	Number of probes to wait before marking a server as failed.
Failed Retry Interval	Time in seconds before retrying a failed server.
Address	The IP address of the probes.
Receive Time-Out	Maximum time in seconds to wait for a reply from real server.
Routed	Displays the check box status, Selected or unselected.  Specifies that the probe is routed according to the CSM routing table.
Associated Server Farm	The Server Farm associated with the probe.  All servers in the server farm receive probes of the probe types that are associated with that server farm.  You can associate one or more probe types with a server farm.

From this page, you can access functions to do the following:

- Click **Add** to add ICMP probes. For more information, see [“Adding ICMP Probes” section on page 10-54](#).
- Click **Edit** to edit an ICMP probe. For more information, see [“Editing ICMP Probes” section on page 10-56](#).

- Select a ICMP probe, then click **Delete** to delete the probe.
- 

## Adding ICMP Probes

To add ICMP Probes:

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- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
- Step 2** Select **Probes > ICMP** in the object selector.
- Step 3** Click **Add**. The Add Probe dialog box appears.

The following details appears:

Field	Action/Description
Name	Enter the name of the probe. The character string is limited to 15 characters.
Type	Type of probe. Here it will be ICMP.
Probe Interval	Enter the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535. The default value is 120.
Failed Retry Interval	Enter the time in seconds before retrying a failed server; the range is from 2 to 65535. The default value is 300.
Receive Time-Out	Enter the maximum time in seconds to wait for a reply from real server The range is from 1 to 65535 Secs. The default value is 10.
Retry Count	Enter the number of probes to wait before marking a server as failed. The range is from 0 to 65535. The default value is 3.
Address	Enter the IP address of the real server .
Routed	Select the check box to specify that the probe should be routed according to the CSM routing table.

# Editing ICMP Probes

To edit ICMP Probes:

- 
- Step 1** Click **Setup** from the task bar. Click Probes in the left-most pane.
  - Step 2** Select **Probes > FTP** in the object selector.
  - Step 3** Click **Edit**. The Edit Probe dialog box appears.

The following details appears:



Field	Action/Description
Name	Name of the probe.
Type	Type of probe. Here it will be icmp.
Probe Interval	Modify the number of seconds to wait between probes from the end of the previous probe to the beginning of the next probe. The range is from 2 to 65535.
Failed Retry Interval	Modify the time in seconds before retrying a failed server; the range is from 2 to 65535.
Receive Time-Out	Modify the maximum time in seconds to wait for a reply from real server. The range is from 1 to 65535 Secs.
Retry Count	Enter the number of probes to wait before marking a server as failed. The range is from 0 to 65535.
Address	Modify the IP address of the real server.
Routed	Displays the check box status, Selected or unselected. Specifies that the probe is routed according to the CSM routing table.

