



Working with Signaling Gateway Mated Pairs

SGM enables you to view information about all discovered signaling gateway mated pairs, including their status, congestion levels, and other important information.

This section includes the following information:

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- [Viewing Detailed Information for a Signaling Gateway Mated Pair, page 13-11](#)
- [Viewing Real-Time Data for a Signaling Gateway Mated Pair, page 13-25](#)
- [Attaching a Note to a Signaling Gateway Mated Pair, page 13-35](#)
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- [Viewing Signaling Gateway Mated Pair Information Using a Web Browser, page 13-40](#)

Related Topics:

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Viewing Basic Information for Signaling Gateway Mated Pairs

To view basic information for signaling gateway mated pairs, select **Signaling Gateway Mated Pairs** in the left pane of the SGM Main Window. SGM displays the Signaling Gateway Mated Pair Window.

The Signaling Gateway Mated Pair Window provides information about all signaling gateway mated pairs that have been discovered by SGM, including their status and other important information.

The Signaling Gateway Mated Pair Window is composed of the following sections:

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Related Topics:

- [Right-Click Menu for All Signaling Gateway Mated Pairs, page 13-3](#)
- [Viewing Detailed Information for a Signaling Gateway Mated Pair, page 13-11](#)
- [Changing SGM Client Preference Settings, page 21-3](#)
- [Resizing, Sorting, and Hiding Table Columns, page 2-52](#)
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Right-Click Menu for All Signaling Gateway Mated Pairs

To see the right-click menu for all signaling gateway mated pairs, select **Signaling Gateway Mated Pairs** in the left pane and click the right mouse button. The signaling gateway mated pair right-click menu provides the following options:

Menu Command	Description
Show In New Window	Opens the Signaling Gateway Mated Pair Window in a new window.
Sort Tree By Status	Sorts the entire tree in the left pane by the status of each object.
Sort Tree By Name	Sorts the entire tree in the left pane by the name of each object.
Back > List of Windows	Navigates back to a window viewed in this session. SGM maintains a list of up to 10 Back windows.
Forward > List of Windows	Navigates forward to a window viewed in this session. SGM maintains a list of up to 10 Forward windows.

Right-Click Menu for a Specific Signaling Gateway Mated Pair

The Signaling Gateway Mated Pair Window provides a subset of the SGM Main Menu as a right-click menu. To see this menu, select a signaling gateway mated pair and click the right mouse button. The signaling gateway mated pair right-click menu provides the following options:

Menu Command	Description
Edit Notes	<p>Opens the Edit Notes Dialog for the selected signaling gateway mated pair.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>
Clear Event Icon	<p>Deletes the event icon (orange triangle) from SGM displays for the selected signaling gateway mated pair, for this SGM client only. The actual events are not deleted from SGM, only the event icon for the selected signaling gateway mated pair for this SGM client.</p> <p>This option is grayed-out if the selected signaling gateway mated pair has no associated event icon.</p>

Menu Command	Description
Delete	<p>Deletes the currently selected signaling gateway mated pair from the SGM database. SGM displays the Confirm Deletion dialog:</p> <ul style="list-style-type: none"> To delete the selected signaling gateway mated pair, click Yes. The signaling gateway mated pair is deleted from the SGM database and the Confirm Deletion dialog is closed. To retain the selected signaling gateway mated pair, click No. The signaling gateway mated pair is kept in the SGM database and the Confirm Deletion dialog is closed. To prevent SGM from displaying the Confirm Deletion dialog, select the Do not show this again checkbox. <p>Note If you select the Do not show this again checkbox, and you later decide you want SGM to begin displaying the Confirm Deletion dialog again, you must select the Confirm Deletions checkbox in the General GUI settings in the Preferences window. For more information, see the description of the Confirm Deletions checkbox in the “Startup/Exit Settings” section on page 21-7.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Network Administrator (Level 4) and higher.</p>
Go To > Node	Displays the Node Window for the node associated with this signaling gateway mated pair.
Back > List of Windows	<p>Navigates back to a window viewed in this session.</p> <p>SGM maintains a list of up to 10 Back windows.</p>
Forward > List of Windows	<p>Navigates forward to a window viewed in this session.</p> <p>SGM maintains a list of up to 10 Forward windows.</p>
View > Configuration Details	Displays the Configuration Data panel for the selected signaling gateway mated pair.

■ Viewing Basic Information for Signaling Gateway Mated Pairs

Menu Command	Description
View > Notes	<p>Displays the Notes panel for the selected signaling gateway mated pair.</p> <p>If there are no notes associated with the selected signaling gateway mated pair, this option is grayed-out.</p>
View > Events	Displays the Recent Events panel for the selected signaling gateway mated pair.
View > Real-Time Data and Charts	Displays the SGM Real-Time Statistics Window for the selected signaling gateway mated pair.
Event History > Status Change Messages	Displays the SGM Network Status Log for Status Change Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > SNMP Trap Messages	Displays the SGM Network Status Log for SNMP Trap Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > Status and Trap Messages	Displays the SGM Network Status Log for Status Change Messages and SNMP Trap Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > Network Status Metrics	Displays the SGM Network Status Log for Metrics in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Ignore	<p>Ignores the selected signaling gateway mated pair at the next polling cycle.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>
Unignore	<p>Stops ignoring the selected signaling gateway mated pair at the next polling cycle.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>

Signaling Gateway Mated Pair Table

The signaling gateway mated pair table displays information about the signaling gateway mated pairs that have been discovered by SGM.

To see mouse over help popup for each column in the table, place the cursor over a column header.

If a cell is too small to show all of its data, place the cursor over the cell to see the full data in a mouse over help popup.

You can resize each column, or sort the table based on the information in one of the columns. By default, this table is sorted by **Status**, and SGM displays all of the columns in the signaling gateway mated pair table except **Internal ID** and **Congestion Level**.

- To display hidden columns, right-click in the table header and select the checkboxes for the columns you want to display.
- To hide columns, right-click in the table header and clear the checkboxes for the columns you want to hide.

See the [“Resizing, Sorting, and Hiding Table Columns”](#) section on page 2-52 for more information about resizing, sorting, displaying, or hiding columns.

Viewing Basic Information for Signaling Gateway Mated Pairs

The signaling gateway mated pair table contains the following columns:

Column	Description
Internal ID	Internal ID of the signaling gateway mated pair. The internal ID is a unique ID for every object, assigned by SGM for its own internal use. It can also be useful when the TAC is debugging problems.
Name	Name of the signaling gateway mated pair.
Mate	Name of the node associated with the mate of the signaling gateway mated pair.
Node	Name of the node associated with the signaling gateway mated pair.
Congestion Level	<p>Indicates whether there is congestion on the signaling gateway mated pair. A signaling gateway mated pair is congested if it has too many packets waiting to be sent. This condition could be caused by the failure of an element in your network.</p> <p>Possible values for the Congestion Level field are None, indicating no congestion, and 1 to 7, indicating levels of congestion from very light (1) to very heavy (7).</p>
Ignored	<p>Indicates whether the signaling gateway mated pair is to be included when aggregating and displaying SGM status information:</p> <ul style="list-style-type: none"> • Clear the checkbox to include the signaling gateway mated pair. This is the default setting. • Select the checkbox to exclude the signaling gateway mated pair. <p>This field can be edited by users with authentication level Power User (Level 2) and higher.</p>
Notes	Indicates whether there is a note associated with the signaling gateway mated pair.

Column	Description
Events	<p>Indicates whether there is a recent event associated with the signaling gateway mated pair. (Even if the server purges all of the events associated with the signaling gateway mated pair, SGM continues to display the event icon in this field.)</p> <ul style="list-style-type: none">• To delete the event icon (orange triangle) from SGM displays for a specific signaling gateway mated pair, select the signaling gateway mated pair and click the icon.• To delete the event icon from SGM displays for all signaling gateway mated pairs, select Edit > Clear All Events from the SGM Main Menu. <p>Note During Discovery, SGM might flag most signaling gateway mated pairs with an event icon. If the event icons are too distracting, use the Edit > Clear All Events menu option to remove them.</p>
Last Status Change	Date and time that the status of the signaling gateway mated pair last changed.

Column	Description
Status	<p>Current status of the signaling gateway mated pair. Possible values are:</p> <p>Active (green)</p> <p>Down (red)</p> <p>Inactive (red)</p> <p>Shutdown (blue)</p> <p>Unknown (red)</p> <p>Warning (yellow)</p> <p>For detailed definitions of each status, see the “Status Definitions for Signaling Gateway Mated Pairs” section on page A-7.</p>
Status Reason	<p>Reason for the current status of the signaling gateway mated pair.</p> <p>For a full list of possible reasons, see the <i>stateReasons.html</i> file:</p> <ul style="list-style-type: none"> • If you installed SGM in the default directory, <i>/opt</i>, then the file is located at <i>/opt/CSCOsgm/apache/share/htdocs/eventHelp</i> directory. • If you installed SGM in a different directory, then the help directory and file are located in that directory. <p>If the cell is too small to show all of the status reason, place the cursor over the cell to see the full status reason in a mouse over help popup.</p> <p>The status reasons are listed in order of decreasing magnitude. If two or more reasons apply, the reason of greatest magnitude is displayed.</p> <p>If the status reason is Unsupported Configuration, correct the configuration and enter the sgm cleandiscover command to delete all current network data and begin a clean discovery of the ITP network. If the status reason is still Unsupported Configuration, enter the sgm clean command to restore the SGM server to a “clean” state, such as would exist after a new installation of SGM. For more information on the use of these commands, see the “SGM Command Reference” section on page C-1.</p>

Viewing Detailed Information for a Signaling Gateway Mated Pair

SGM can display detailed information about a selected signaling gateway mated pair, including its status, interface information, and other information.

Updates for the signaling gateway mated pair that are received from the SGM server are reflected automatically in this window.

To display detailed information for a signaling gateway mated pair, use one of the following procedures:

- Select **Signaling Gateway Mated Pairs** in the left pane of the SGM Main Window, right-click a signaling gateway mated pair in the right pane, then select **View > Configuration Details** in the right-click menu.
- Select the turner beside **Signaling Gateway Mated Pairs** in the left pane of the SGM Main Window, then select a signaling gateway mated pair.

SGM displays the Signaling Gateway Mated Pair Details Window.

Detailed information for the selected signaling gateway mated pair is displayed in the left column, and for the adjacent signaling gateway mated pair in the right column.

The Signaling Gateway Mated Pair Details Window is composed of the following sections:

- [Signaling Gateway Mated Pair Details: Right-Click Menu, page 13-12](#)
- [Signaling Gateway Mated Pair Details: Configuration Data, page 13-15](#)
- [Signaling Gateway Mated Pair Details: Notes, page 13-20](#)
- [Signaling Gateway Mated Pair Details: Recent Events, page 13-20](#)

Related Topics:

- [Viewing Basic Information for Signaling Gateway Mated Pairs, page 13-2](#)

Signaling Gateway Mated Pair Details: Right-Click Menu

The Signaling Gateway Mated Pair Details Window provides a right-click menu. To see this menu for a signaling gateway mated pair, select a signaling gateway mated pair in the left pane and click the right mouse button. The signaling gateway mated pair details right-click menu provides the following options:

Menu Command	Description
Show In New Window	Opens the Signaling Gateway Mated Pair Details Window for the selected signaling gateway mated pair in a new window.
Edit Notes	<p>Opens the Edit Notes Dialog for the selected signaling gateway mated pair.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>
Clear Event Icon	<p>Deletes the event icon (orange triangle) from SGM displays for the selected signaling gateway mated pair, for this SGM client only. The actual events are not deleted from SGM, only the event icon for the selected signaling gateway mated pair for this SGM client.</p> <p>This option is grayed-out if the selected signaling gateway mated pair has no associated event icon.</p>

Menu Command	Description
Delete	<p>Deletes the currently selected signaling gateway mated pair from the SGM database. SGM displays the Confirm Deletion dialog:</p> <ul style="list-style-type: none"> To delete the selected signaling gateway mated pair, click Yes. The signaling gateway mated pair is deleted from the SGM database and the Confirm Deletion dialog is closed. To retain the selected signaling gateway mated pair, click No. The signaling gateway mated pair is kept in the SGM database and the Confirm Deletion dialog is closed. To prevent SGM from displaying the Confirm Deletion dialog, select the Do not show this again checkbox. <p>Note If you select the Do not show this again checkbox, and you later decide you want SGM to begin displaying the Confirm Deletion dialog again, you must select the Confirm Deletions checkbox in the General GUI settings in the Preferences window. For more information, see the description of the Confirm Deletions checkbox in the “Startup/Exit Settings” section on page 21-7.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Network Administrator (Level 4) and higher.</p>
Go To > Node	Displays the Node Window for the node associated with this signaling gateway mated pair.
Back > List of Windows	<p>Navigates back to a window viewed in this session.</p> <p>SGM maintains a list of up to 10 Back windows.</p>
Forward > List of Windows	<p>Navigates forward to a window viewed in this session.</p> <p>SGM maintains a list of up to 10 Forward windows.</p>
View > Configuration Details	Displays the Configuration Data panel for the selected signaling gateway mated pair.

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Menu Command	Description
View > Notes	<p>Displays the Notes panel for the selected signaling gateway mated pair.</p> <p>If there are no notes associated with the selected signaling gateway mated pair, this option is grayed-out.</p>
View > Events	Displays the Recent Events panel for the selected signaling gateway mated pair.
View > Real-Time Data and Charts	Displays the SGM Real-Time Statistics Window for the selected signaling gateway mated pair.
Event History > Status Change Messages	Displays the SGM Network Status Log for Status Change Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > SNMP Trap Messages	Displays the SGM Network Status Log for SNMP Trap Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > Status and Trap Messages	Displays the SGM Network Status Log for Status Change Messages and SNMP Trap Messages in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Event History > Network Status Metrics	Displays the SGM Network Status Log for Metrics in a Web browser, with messages displayed for only the selected signaling gateway mated pair.
Ignore	<p>Ignores the selected signaling gateway mated pair at the next polling cycle.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>
Unignore	<p>Stops ignoring the selected signaling gateway mated pair at the next polling cycle.</p> <p>If you have implemented SGM User-Based Access, this option is available to users with authentication level Power User (Level 2) and higher.</p>

Signaling Gateway Mated Pair Details: Configuration Data

The Signaling Gateway Mated Pair Details: Configuration Data section is composed of the following sub-sections:

- [Naming Information, page 13-15](#)
- [Status Information, page 13-15](#)
- [Interface Information, page 13-17](#)
- [Remote IP Address Information, page 13-18](#)
- [Local IP Address Information, page 13-19](#)

Configuration data for the selected signaling gateway mated pair is displayed in the left column, and for the adjacent signaling gateway mated pair in the right column.

Naming Information

The Naming Information sub-section contains the following fields:

Field	Description
Name	Name of the signaling gateway mated pair.
Node	Name of the node associated with the signaling gateway mated pair.
Association ID	Index into the SNMP SCTP association table.
Is Passive	Indicates whether the signaling gateway mated pair can initiate the connection to the mate: <ul style="list-style-type: none"> • Yes—The signaling gateway mated pair is passive, and cannot initiate the connection to the mate. • No—The signaling gateway mated pair is not passive, and can initiate the connection to the mate.

Status Information

The Status Information sub-section contains the following fields:

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Field	Description
Is Ignored	Indicates whether the signaling gateway mated pair is Ignored (that is, whether the signaling gateway mated pair is to be included when aggregating and displaying SGM status information).
Congestion Level	Indicates whether there is congestion on the signaling gateway mated pair. A signaling gateway mated pair is congested if it has too many packets waiting to be sent. This condition could be caused by the failure of an element in your network. Possible values for the Congestion Level field are None , indicating no congestion, and 1 to 7 , indicating levels of congestion from very light (1) to very heavy (7).
Instance Status	Current status of the protocol associated with the signaling gateway mated pair, with a color-coded background. Possible values are: Active (green) —The protocol is available. Shutdown (blue) —An administrator has forced the protocol to an unavailable state. Unknown (red) —SGM cannot determine the current status of the protocol.
Status	Current status of the signaling gateway mated pair. Possible values are: Active (green) Blocked (red) Down (red) Inactive (red) Pending (red) Shutdown (blue) Unknown (red) Warning (yellow) For detailed definitions of each status, see the “Status Definitions for Application Server Process Associations” section on page A-3.

Field	Description
Last Status Change	Date and time that the status of the signaling gateway mated pair last changed.
Status Reason	<p>Reason for the current status of the signaling gateway mated pair.</p> <p>For a full list of possible reasons, see the <i>stateReasons.html</i> file:</p> <ul style="list-style-type: none"> • If you installed SGM in the default directory, <i>/opt</i>, then the file is located at <i>/opt/CSCOsgm/apache/share/htdocs/eventHelp</i> directory. • If you installed SGM in a different directory, then the help directory and file are located in that directory. <p>If the cell is too small to show all of the status reason, place the cursor over the cell to see the full status reason in a mouse over help popup.</p> <p>The status reasons are listed in order of decreasing magnitude. If two or more reasons apply, the reason of greatest magnitude is displayed.</p> <p>If the status reason is Unsupported Configuration, correct the configuration and enter the sgm cleandiscover command to delete all current network data and begin a clean discovery of the ITP network. If the status reason is still Unsupported Configuration, enter the sgm clean command to restore the SGM server to a “clean” state, such as would exist after a new installation of SGM. For more information on the use of these commands, see the “SGM Command Reference” section on page C-1.</p>

Interface Information

The Interface Information sub-section contains the following fields:

Field	Description
QoS	Quality of service (QoS) class of the signaling gateway mated pair.
Configured Local Port	Local port number that was configured for the signaling gateway mated pair.
Local Port	Local port number that is currently being used by the signaling gateway mated pair.

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Field	Description
Configured Remote Port	Remote port number that was configured for the signaling gateway mated pair.
Actual Remote Port	Remote port number that is currently being used by the signaling gateway mated pair.

Remote IP Address Information

The Remote IP Address Information sub-section contains the following fields:

Field	Description
IP Address	Remote IP address associated with the signaling gateway mated pair.
Type	<p>Indicates whether this is the designated primary IP address for the signaling gateway mated pair (Primary), or is the IP address currently being used by the signaling gateway mated pair (Effective), or both (Primary/Effective).</p> <p>Usually, the same IP address is both Primary and Effective. However, if the primary IP address is down for some reason, a different IP address is used by the signaling gateway mated pair and is labeled Effective.</p>
Status	<p>Current status of the IP address. Possible values are:</p> <p>Active (green)—The IP address is currently fully functional.</p> <p>Inactive (red)—The IP address is not currently functional.</p>
Cfg	<p>(12.2(4)MB10 and later) Indicates whether this remote IP address was configured for the signaling gateway mated pair. Possible values are:</p> <ul style="list-style-type: none"> Yes—This is a configured remote IP address. (blank)—This is not a configured remote IP address. N/A—SGM cannot determine whether this is the configured remote IP address. <p>For Cisco IOS software releases prior to 12.2(4)MB10, this field always displays N/A.</p>
Actual	<p>Indicates whether this remote IP address is currently being used by the signaling gateway mated pair. Possible values are:</p> <ul style="list-style-type: none"> Yes—This IP address is being used by the signaling gateway mated pair. (blank)—This IP address is not being used by the signaling gateway mated pair.

Local IP Address Information

The Local IP Address Information sub-section contains the following fields:

Field	Description
IP Address	<p>Local IP address that is being used by the signaling gateway mated pair, or the primary IP address that is configured for the signaling gateway mated pair, or both.</p> <p>The primary IP address is the first CS7 local IP address configured in the ITP. For example, if the following IP addresses are configured in the ITP:</p> <pre>cs7 local-peer 4180 local-ip 128.3.0.77 local-ip 128.3.0.254</pre> <p>then SGM uses 128.3.0.77 as the primary IP address. If at any time that IP address is deleted from the ITP configuration, or if a new IP address is added to the beginning of the list, SGM detects the change and automatically updates this field to reflect the new primary IP address.</p>
Interface Name	Name of the interface to which the IP address is assigned. If the signaling gateway mated pair has no interface name, this field is blank.
Status	<p>Current status of the IP address. Possible values are:</p> <p>Active (green)—The IP address is currently fully functional.</p> <p>Inactive (red)—The IP address is not currently functional.</p>
Cfg	<p>Indicates whether this local IP address was configured for the signaling gateway mated pair. Possible values are:</p> <ul style="list-style-type: none"> Yes—This is a configured local IP address. (blank)—This is not a configured local IP address.
Actual	<p>Indicates whether this local IP address is currently being used by the signaling gateway mated pair. Possible values are:</p> <ul style="list-style-type: none"> Yes—This IP address is being used by the signaling gateway mated pair. (blank)—This IP address is not being used by the signaling gateway mated pair.

Signaling Gateway Mated Pair Details: Notes

The Signaling Gateway Mated Pair Details: Notes section displays:

- Notes associated with the selected signaling gateway mated pair in the left column.
- Notes associated with the adjacent signaling gateway mated pair in the right column.
- The date and time the notes associated with the signaling gateway mated pair were last updated, or the phrase **Not Set** if there are no notes associated with the signaling gateway mated pair.
- The phrase **No Notes** if there are no notes associated with the signaling gateway mated pair.

Signaling Gateway Mated Pair Details: Recent Events

The Signaling Gateway Mated Pair Details: Recent Events table displays about all recent events associated with the signaling gateway mated pair, and enables you to perform event-related tasks, such as setting filters and acknowledging events.

To see mouse over help popup for each column in the table, place the cursor over a column header.

If a cell is too small to show all of its data, place the cursor over the cell to see the full data in a mouse over help popup.

You can resize each column, or sort the table based on the information in one of the columns. By default, SGM displays all of the columns in the table except **Internal ID**, **Note**, **Message Name**, **Ack By**, **Ack Time**, **Node**, **SP**, **Linkset**, **Link**, **SGMP**, **ASP**, **AS**, **ASPA**, **Probe Conn**, and **Probe Link**.

- To display hidden columns, right-click in the table header and select the checkboxes for the columns you want to display.
- To hide columns, right-click in the table header and clear the checkboxes for the columns you want to hide.

See the [“Resizing, Sorting, and Hiding Table Columns”](#) section on page 2-52 for more information about resizing, sorting, displaying, or hiding columns.

The Signaling Gateway Mated Pair Details: Recent Events table contains the following toolbar buttons and columns:

Toolbar Button or Column	Description
Set Filter	Opens the Event Filter dialog.
Apply Filter or Remove Filter	<p>Activates and deactivates the event filter specified in the Event Filter dialog:</p> <ul style="list-style-type: none"> • If the filter is activated, SGM displays only those events that pass the filter. • If the filter is deactivated, SGM displays all events. • If you activate a filter in an object's Recent Events table in the SGM Main Window, the filter is activated in all Recent Events tables in the SGM Main Window for all other objects. The filter is not activated in Recent Events tables in Show In New Window windows or Real-Time Data and Charts windows.
Pause or Resume	<p>Pauses or resumes the table.</p> <p>While the table is paused, SGM does not display new events in the table (unless you apply an event filter or edit your event preferences). When the table is resumed, all new events since the table was paused are added to the display.</p> <p>If events are deleted while the table is paused, they are not removed from the table. Instead, they are grayed-out and cannot be acknowledged or edited. Deleted events are removed from the table when you resume the table.</p>
Acknowledge	Makes the selected event or events acknowledged.
Unacknowledge	Makes the selected event or events unacknowledged.
Event Properties	Opens the Event Properties window.
Edit Notes	Opens the Edit Event Dialog.
Time Difference	Displays the difference in days, minutes, hours, and seconds between two events.
Find	Finds specific text in the event table.
Create Sound Filter	Opens the Event Sound Filters dialog and the Event Sound Filters List dialog, with fields populated based on the selected event.

Toolbar Button or Column	Description
Adjust Row Height	<p>Adjusts the table row height and wraps the message text as follows:</p> <ul style="list-style-type: none"> • Click once to double the row height and wrap the message text. • Click again to triple the row height and wrap the message text. • Click again for single row height and no message text wrapping. This is the default setting. <p>This setting is saved automatically with your preferences.</p>
Help for Event	<p>Displays context-sensitive help for the selected event in a separate Web browser.</p>
Internal ID	<p>Internal ID of the event. The internal ID is a unique ID for every object, assigned by SGM for its own internal use. It can also be useful when the TAC is debugging problems.</p>
Ack	<p>Indicates whether the event has been acknowledged:</p> <ul style="list-style-type: none"> • To acknowledge an unacknowledged event, use the Acknowledge toolbar button. • To make a previously acknowledged event unacknowledged, use the Unacknowledge toolbar button.

Toolbar Button or Column	Description
Category	<p>Type of the event. Default values are:</p> <ul style="list-style-type: none"> • Create—Creation event, such as the creation of a seed file. • Delete—Deletion event, such as the deletion of an object or file. • Discover—Discovery event, such as Discovery beginning. • Edit—Edit event. A user has edited an object. • Ignore—Ignore event. A user has Ignored a link or linkset. • Login—Login event. A user has logged in to SGM. • LoginDisable—LoginDisable event. SGM has disabled a user’s User-Based Access authentication as a result of too many failed attempts to log in to SGM. • LoginFail—LoginFail event. An attempt by a user to log in to SGM has failed. • Logout—Logout event. A user has logged out of SGM. • OverWrite—OverWrite event. An existing file, such as a seed file or route file, has been overwritten. • Poll—Poll event, such as an SNMP poll. • Purge—Purge event. A user has requested Discovery with Delete Existing Data selected, and SGM has deleted the existing SGM database. • Status—Status change message generated. • Trap—SNMP trap message generated. <p>You can customize this field. See the “Changing Event Categories” section on page 5-42 for more information.</p>

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Toolbar Button or Column	Description
Severity	<p>Severity of the event. Default values are:</p> <ul style="list-style-type: none"> • Admin—The default color is cyan. • Error—The default color is coral. • None—The default color is white. • Normal—The default color is light green. • Warning—The default color is yellow. <p>You can customize this field. See the “Changing Event Severities and Colors” section on page 5-44 for more information.</p>
Note	Indicates whether there is a note associated with the event.
Message Name	<p>User-specified message name for the event, used by SGM for trap forwarding. The default message name is SGM.</p> <p>For more information about user-specified message names and trap forwarding, see the “Forwarding Events as Traps to Other Hosts” section on page 5-59.</p>
Time	Date and time the event was logged.
Ack By	<p>If you have not implemented SGM User-Based Access, name of the device that last acknowledged the event.</p> <p>If you have implemented SGM User-Based Access, name of the user who last acknowledged the event.</p> <p>If no one has acknowledged the event, this field is blank.</p>
Ack Time	Date and time the event was last acknowledged or unacknowledged.
Node	Name of the node associated with the event. If there is no node associated with the event, None is displayed.
SP	Name of the signaling point associated with the event. If there is no signaling point associated with the event, None is displayed.
Linkset	Name of the linkset associated with the event. If there is no linkset associated with the event, None is displayed.
Link	Name of the link associated with the event. If there is no link associated with the event, None is displayed.

Toolbar Button or Column	Description
SGMP	Name of the signaling gateway mated pair associated with the event. If there is no signaling gateway mated pair associated with the event, None is displayed.
ASP	Name of the application server process associated with the event. If there is no application server process associated with the event, None is displayed.
AS	Name of the application server associated with the event. If there is no application server associated with the event, None is displayed.
ASPA	Name of the application server process association associated with the event. If there is no application server process association associated with the event, None is displayed.
Probe Conn	Name of the probe connection associated with the event. If there is no probe connection associated with the event, None is displayed.
Probe Link	Name of the probe link associated with the event. If there is no probe link associated with the event, None is displayed.
Message	Text of the message. You can customize this field. See the “Changing the Way SGM Processes Events” section on page 5-34 for more information.

Viewing Real-Time Data for a Signaling Gateway Mated Pair

SGM enables you to view detailed statistics for a selected signaling gateway mated pair. Detailed information for one signaling gateway mated pair is displayed in the left column, and for the other in the right column.

To display detailed statistics for a signaling gateway mated pair, select **Signaling Gateway Mated Pairs** in the left pane of the SGM Main Window, right-click a signaling gateway mated pair in the right pane, then select **View > Real-Time Data and Charts** in the right-click menu. SGM displays the Statistics Details Window for a Signaling Gateway Mated Pair.

Updates for the signaling gateway mated pair that are received from the SGM server are reflected automatically in this window.

Changes you make in this window might not be reflected throughout SGM until the next poll (by default, every 15 seconds). For information about changing the poll interval, see the “[Signaling Gateway Mated Pair Statistics Details: Poll Settings](#)” section on page 13-26.

**Note**

This window polls your network periodically. To prevent unnecessary traffic on your network, close this window when you no longer need to refer to it.

The Statistics Details Window for a Signaling Gateway Mated Pair is composed of the following sections:

- [Signaling Gateway Mated Pair Statistics Details: Poll Settings](#), page 13-26
- [Signaling Gateway Mated Pair Statistics Details: Configuration Data](#), page 13-27
- [Signaling Gateway Mated Pair Statistics Details: Notes](#), page 13-28
- [Signaling Gateway Mated Pair Statistics Details: Recent Events](#), page 13-28
- [Signaling Gateway Mated Pair Statistics Details: Interface Details](#), page 13-28
- [Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Config Details](#), page 13-31
- [Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Stats Details](#), page 13-34

Signaling Gateway Mated Pair Statistics Details: Poll Settings

To view or change poll settings for the Signaling Gateway Mated Pair Statistics Details Window, select **Poll Settings** in the left pane. SGM displays the Signaling Gateway Mated Pair Statistics Details Poll Settings panel in the right pane.

The Signaling Gateway Mated Pair Statistics Details Poll Settings panel contains the following fields:

Field	Description
Poll Interval (secs)	New poll interval for the Signaling Gateway Mated Pair Statistics Details Window, in seconds. Enter the new poll interval in this field. The valid range is 15 seconds to an unlimited number of seconds. The default value is 15 seconds.
Current Poll Interval	Current poll interval for the Signaling Gateway Mated Pair Statistics Details Window, in seconds.
Number of Polls Received	Total number of polls received since polling began for the Signaling Gateway Mated Pair Statistics Details Window.
Running Time	Total elapsed time since polling began for the Signaling Gateway Mated Pair Statistics Details Window.
Last Message	Date and time of the last poll for the Signaling Gateway Mated Pair Statistics Details Window.
Poll Counter Mode	Displays the current mode for poll counters, and the date and time that counters were last reset. Possible modes are: <ul style="list-style-type: none"> • Since Reboot—Counters display values aggregated since the last reboot of the ITP, or since ITP last reset the counters. • Since Last Poll—Counters display values aggregated since the last poll. • Since User Reset—Counters display values aggregated since the last time they were reset by the user.
Reset Counters	Opens the SGM Reset Counters Dialog, which enables you to change SGM poller and counter settings. For more information, see the “Changing Real-Time Poller and Counter Settings” section on page 2-72.

Signaling Gateway Mated Pair Statistics Details: Configuration Data

The information presented in the Signaling Gateway Mated Pair Statistics Details: Configuration Data section is the same as that presented by the [“Signaling Gateway Mated Pair Details: Configuration Data”](#) section on page 13-15.

Signaling Gateway Mated Pair Statistics Details: Notes

The information presented in the Signaling Gateway Mated Pair Statistics Details: Notes section is the same as that presented by the “[Signaling Gateway Mated Pair Details: Notes](#)” section on page 13-20.

Signaling Gateway Mated Pair Statistics Details: Recent Events

The information presented in the Signaling Gateway Mated Pair Statistics Details: Recent Events section is the same as that presented by the “[Signaling Gateway Mated Pair Details: Recent Events](#)” section on page 13-20.

Signaling Gateway Mated Pair Statistics Details: Interface Details

The Signaling Gateway Mated Pair Statistics Details: Interface Details section provides a tab for each interface used by the selected signaling gateway mated pair. To see information for an interface, select its tab.

The Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Config Details section is composed of the following sub-sections:

- [Configuration Information, page 13-29](#)
- [Status Information, page 13-29](#)
- [Statistics Information, page 13-30](#)
- [Errors Information, page 13-31](#)

Configuration Information

The Configuration Information sub-section contains the following fields:

Field	Description
Type	Type of interface, such as Ethernet.
MTU	Size, in bytes, of the largest datagram that can be sent or received on the interface.
Speed (Bits/Sec)	Estimate, in bits per second, of the interface's current bandwidth. If the interface does not vary in bandwidth, or if no accurate estimate can be made, this field displays the nominal bandwidth.
IP Address	IP address corresponding to the media-dependent “physical” address.
IP Mask	Subnet mask corresponding to the media-dependent “physical” address.
Physical Address	Address of the interface at the protocol layer immediately “below” the network layer in the protocol stack.

Status Information

The Status Information sub-section contains the following fields:

Field	Description
IPT Uptime	Time the interface has been up, in days, hours, minutes, and seconds.
Admin Status	Desired state of the interface. Possible values are: <ul style="list-style-type: none">• Up• Down• Testing

■ Viewing Real-Time Data for a Signaling Gateway Mated Pair

Field	Description
Operational Status	<p>Current operational state of the interface. Possible values are:</p> <ul style="list-style-type: none"> • Up • Down • Testing • Unknown • Dormant
Line Protocol Status	<p>Current state of the line protocol. Possible values are:</p> <ul style="list-style-type: none"> • Up—Software processes that handle the line protocol consider the line to be usable (that is, keepalives are successful). • Down—Software processes that handle the line protocol consider the line to be unusable. <p>You can use the Line Protocol together with Operational Status to troubleshoot interface connection problems. For example, if Operational Status is Up, but Line Protocol is Down, the interface has detected a carrier on the physical layer, but there might be clocking or framing problems.</p>

Statistics Information

The Statistics Information sub-section contains the following fields:

Field	Description
Bytes In per Sec	Number of bytes received on the interface per second, including framing characters.
Bytes Out per Sec	Number of bytes sent on the interface per second, including framing characters.
Packets In per Sec	Number of packets delivered per second to a higher-layer protocol.
Packets Out per Sec	Total number of packets that higher-level protocols requested to be sent to the network per second, including those that were discarded or not sent.

Errors Information

The Errors Information sub-section contains the following fields:

Field	Description
In Discards	Number of inbound packets that were discarded, even though no errors were detected to prevent their delivery to a higher-layer protocol. For example, a packet might be discarded to free buffer space.
Out Discards	Number of outbound packets that were discarded, even though no errors were detected to prevent their delivery to a higher-layer protocol. For example, a packet might be discarded to free buffer space.
In Errors	Number of inbound packets that contained errors that prevented their delivery to a higher-layer protocol.
Out Errors	Number of outbound packets that were not sent because of errors.

Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Config Details

The Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Config Details section is composed of the following sub-sections:

- [Configuration Information, page 13-32](#)
- [Local IP Address Information, page 13-32](#)
- [Remote IP Address Information, page 13-33](#)
- [Transmission Configuration Information, page 13-33](#)

Configuration Information

The Configuration Information sub-section contains the following fields:

Field	Description
Status	<p>Current status of the SCTP association. Possible values are:</p> <ul style="list-style-type: none"> • Closed • CookieWait • CookieEchoed • DeleteTCB • Established • ShutdownAckSent • ShutdownPending • ShutdownReceived • ShutdownSent <p>For detailed information about each status, refer to RFC 2960, Stream Control Transmission Protocol.</p>
Uptime	Time the link has been up, in days, hours, minutes, and seconds.
Actual Remote Port	Remote port number for the SCTP association.
Local Port	Local port number for the SCTP association.
Primary IP Address	Designated primary IP address for the SCTP association.
Effective IP Address	IP address currently being used by the SCTP association.

Local IP Address Information

The Local IP Address Information sub-section contains the following fields:

Field	Description
IP Address	Local IP addresses associated with the link.
Uptime	Time each local IP address associated with the link has been up, in days, hours, minutes, and seconds.

Remote IP Address Information

The Remote IP Address Information sub-section contains the following fields:

Field	Description
IP Address	Remote IP addresses associated with the link.
Uptime	Time each remote IP address associated with the link has been up, in days, hours, minutes, and seconds.
Retry Timeout (msecs)	Current SCTP Retransmission Timeout (T3-rtx timer).
Maximum Retries	Maximum number of retransmissions allowed before this IP address is considered inactive.
Retries	Current retransmission count.

Transmission Configuration Information

The Transmission Configuration Information sub-section contains the following fields:

Field	Description
MTU	Maximum transmission unit (MTU) size to be used by this SCTP association. This is the smallest MTU size supported by any of the IP addresses used by the SCTP association.
In Streams	Inbound streams as negotiated when the SCTP association was started.
Out Streams	Outbound streams as negotiated when the SCTP association was started.
Maximum Retries	Maximum number of data retransmissions in the SCTP association context.
Local Receive Window Size	Current local receive window size for this SCTP association.
Remote Receive Window Size	Current local send window size for this SCTP association.
Initial Retry Timeout (msecs)	Initial timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.
Minimum Retry Timeout (msecs)	Minimum timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.

Field	Description
Maximum Retry Timeout (msecs)	Maximum timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.
Bundle Chunks	Indicates whether the SCTP protocol allows chunks to be bundled into a single datagram as follows. Valid values are: <ul style="list-style-type: none"> • true (1)—Chunks are bundled. • false (2)—Chunks are not bundled.
Bundle Timeout (msecs)	Time, in milliseconds, to wait to allow data chunks to accumulate so that they can be transmitted in the same datagram.

Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Stats Details

The Signaling Gateway Mated Pair Statistics Details: SCTP Assoc. Stats Details section is composed of the following sub-sections:

- [Remote IP Address Information, page 13-34](#)
- [Statistics Information \(per sec\) Rates, page 13-35](#)

Remote IP Address Information

The Remote IP Address Information sub-section contains the following fields:

Field	Description
IP Address	Remote IP addresses associated with the link.
Smoothed Round Trip Time (msecs)	Average, in milliseconds, of all round-trip times between the local and remote systems on an IP network.
Failure Count	Number of times the remote IP address was marked as failed.
Heartbeat Status	Current status of the heartbeat associated with the remote IP address. Valid values are Active and Inactive .
IP Status	Current status of the remote IP address. Valid values are Active and Inactive .

Statistics Information (per sec) Rates

The Statistics Information (per sec) Rates sub-section contains the following fields:

Field	Description
Packets Sent	Number of IP datagrams sent per second by this SCTP association.
Packets Received	Number of IP datagrams received per second by this SCTP association.
Control Chunks Sent	Number of control chunks sent per second by this SCTP association.
Control Chunks Rec	Number of control chunks received per second by this SCTP association.
Ordered Chunks Sent	Number of ordered chunks sent per second by this SCTP association.
Ordered Chunks Rec	Number of ordered chunks received per second by this SCTP association.
Unordered Chunks Sent	Number of unordered chunks sent per second by this SCTP association.
Unordered Chunks Rec	Number of unordered chunks received per second by this SCTP association.
Retransmitted Chunks	Number of chunks retransmitted per second by this SCTP association.
Retransmitted Fast Chunks	Number of fast chunks retransmitted per second by this SCTP association.

Attaching a Note to a Signaling Gateway Mated Pair

SGM enables you to annotate a signaling gateway mated pair, attaching a descriptive string to it.

To attach a note to a signaling gateway mated pair, right-click the signaling gateway mated pair in a window, then select **Edit > Notes** in the right-click menu. SGM displays the Edit Notes Dialog for a Signaling Gateway Mated Pair.

■ Attaching a Note to a Signaling Gateway Mated Pair

The Edit Notes Dialog for a Signaling Gateway Mated Pair contains the following fields and buttons:

Field or Button	Description
Name	Name of the signaling gateway mated pair. You cannot edit this field.
Note Last Updated	Date and time the Notes field for this signaling gateway mated pair was last updated. If there is no note currently associated with this signaling gateway mated pair, this field displays the value Not Set . You cannot edit this field.
Notes	Notes to associate with this signaling gateway mated pair. In this field, you can enter any important information about the signaling gateway mated pair, such as a detailed description, its location, its service history, and so on.
Save	Saves changes you have made to the signaling gateway mated pair's notes, updates all SGM windows to reflect your changes, and exits the dialog. When you annotate a signaling gateway mated pair, the topology map in the Topology Window displays a note icon in the upper left corner of the signaling gateway mated pair element.
Cancel	Exits the dialog without saving any changes.
Help	Displays online help for the dialog.

Related Topics:

- [Viewing Basic Information for Signaling Gateway Mated Pairs, page 13-2](#)
- [Viewing Detailed Information for a Signaling Gateway Mated Pair, page 13-11](#)
- [Viewing Notes for a Signaling Gateway Mated Pair, page 13-37](#)

Viewing Notes for a Signaling Gateway Mated Pair

SGM enables you to view any notes that have been associated with a signaling gateway mated pair.

To view a note for a signaling gateway mated pair, right-click a signaling gateway mated pair in a window, then select **View > Notes** in the right-click menu. (The **Notes** option is grayed-out if there is no note associated with the selected signaling gateway mated pair.)

SGM displays the Notes panel for the selected signaling gateway mated pair, which displays:

- Notes associated with the selected signaling gateway mated pair in the left column.
- Notes associated with the adjacent signaling gateway mated pair in the right column.
- The date and time the notes associated with the signaling gateway mated pair were last updated, or the phrase **Not Set** if there are no notes associated with the signaling gateway mated pair.
- The phrase **No Notes** if there are no notes associated with the signaling gateway mated pair.

Related Topics:

- [Attaching a Note to a Signaling Gateway Mated Pair, page 13-35](#)

Deleting a Signaling Gateway Mated Pair

After Discovery, the signaling gateway mated pairs in your network are known to SGM and added to the SGM database. Physically deleting signaling gateway mated pairs from your network is not the same as deleting them from the SGM database. The following sections describe the differences between deleting signaling gateway mated pairs from your network and deleting them from the SGM database, and the procedures for doing so:

- [Deleting a Signaling Gateway Mated Pair from Your Network, page 13-38](#)
- [Deleting a Signaling Gateway Mated Pair from the SGM Database, page 13-38](#)

Deleting a Signaling Gateway Mated Pair from Your Network

If you physically delete a known signaling gateway mated pair from your network (for example, by powering down an ITP), it remains in the SGM database, SGM labels it **Unknown**, and it is the system administrator's responsibility to delete it from the SGM database, if you choose to do so.

Deleting a Signaling Gateway Mated Pair from the SGM Database

Typically, you delete a signaling gateway mated pair from the SGM database for one of the following reasons:

- You have physically deleted the signaling gateway mated pair from your network. This is the most common reason for deleting a signaling gateway mated pair from the SGM database.
- The signaling gateway mated pair is **Down**, **Inactive**, or **Unknown**, you are aware of the reason, and you no longer want to see it in SGM displays. For example, the signaling gateway mated pair might be a test lab device.

If you have physically deleted a known signaling gateway mated pair from your network, and you then delete it from SGM, it is no longer in the SGM database, it does not appear in SGM windows, and it is not discovered when you run Discovery.

If you have *not* physically deleted a known signaling gateway mated pair from your network, and you delete it from SGM, at the next poll SGM finds the signaling gateway mated pair and adds it back to the SGM database, setting the status appropriately. If this happens, do not delete the signaling gateway mated pair again. Instead, set it to **Ignored**. See the [“Ignoring a Signaling Gateway Mated Pair”](#) section on page 13-39 for more information.



Note

If you delete a signaling gateway mated pair from the SGM database, the signaling gateway mated pair is deleted for *all* SGM clients and views connected to that SGM server.

To delete a signaling gateway mated pair from the SGM database, use one of the following procedures:

- Select one or more signaling gateway mated pairs in a window, then select **Edit > Delete** from the SGM Main Menu.
- Right-click a signaling gateway mated pair in a window, then select **Delete** in the right-click menu. (You cannot delete more than one signaling gateway mated pair at a time from the right-click menu.)

SGM asks you to confirm the deletion:

- Select **Yes** to delete the selected signaling gateway mated pairs. SGM deletes the signaling gateway mated pairs from the SGM database.
- Select **No** to return to the window without deleting any signaling gateway mated pairs from the SGM database.

Ignoring a Signaling Gateway Mated Pair

You can instruct SGM to ignore a signaling gateway mated pair when it aggregates and displays network data. Setting signaling gateway mated pairs to **Ignored** prevents known signaling gateway mated pair problems from affecting SGM displays for associated objects. In effect, you are preventing a known problem from distracting you from other, more urgent network problems.

For example, you can set a signaling gateway mated pair to **Ignored** before shutting down the signaling gateway mated pair for maintenance.



Note

If you set a signaling gateway mated pair to **Ignored**, the signaling gateway mated pair is ignored for *all* SGM clients and views connected to that SGM server.

Also, if you set a signaling gateway mated pair to **Ignored**, make a note of the change, and do not forget to reset the signaling gateway mated pair when the problem is corrected or the maintenance is complete.

To set a signaling gateway mated pair to **Ignored**, right-click the signaling gateway mated pair in the Signaling Gateway Mated Pair Details window, then select **Ignore** from the right-click menu.

Viewing Ignored Signaling Gateway Mated Pairs

To display all signaling gateway mated pairs that are **Ignored**, display the Signaling Gateway Mated Pair Window and click the **Ignored** column header. SGM displays all ignored signaling gateway mated pairs at the top of the table.

Viewing Signaling Gateway Mated Pair Information Using a Web Browser

SGM enables you to use a Web browser to view the following information about signaling gateway mated pairs:

- [Viewing the Network Status Signaling Gateway Mated Pair Dashboard, page 13-40](#)
- [Viewing ITP Signaling Gateway Mated Pair Status, page 13-42](#)
- [Viewing ITP Signaling Gateway Mated Pair Details, page 13-44](#)
- [Viewing Interface Details for a Signaling Gateway Mated Pair, page 13-48](#)
- [Viewing SCTP Association Details for a Signaling Gateway Mated Pair, page 13-50](#)

Viewing the Network Status Signaling Gateway Mated Pair Dashboard

The SGM Signaling Gateway Mated Pair Dashboard page lists all discovered signaling gateway mated pairs, and provides links to messages and metrics for each signaling gateway mated pair.

To access the SGM Signaling Gateway Mated Pair Dashboard page, select **Network Status Dashboard** from the SGM Server Home Page, then click **SGMP Dashboard**.

The Signaling Gateway Mated Pair Dashboard table contains the following columns:

Column	Description
Server Name (in header)	Name of the SGM server associated with the signaling gateway mated pair.
Update Interval (in header)	Time between automatic updates for the page. None means the page is not automatically updated.
Last Update (in header)	Date and time the information on the page was last updated by SGM.
SGMP	<p>Signaling gateway mated pairs discovered by SGM.</p> <p>You can sort the table based on the information in the SGMP column. See the “Resizing, Sorting, and Hiding Table Columns” section on page 2-52 for more details.</p>
Drill-Down Links: Messages	Displays messages associated with a given signaling gateway mated pair. To see status change messages and SNMP trap messages associated with the signaling gateway mated pair, click Messages .
Drill-Down Links: Metrics	Displays metrics associated with a given signaling gateway mated pair. To see network status metrics associated with the signaling gateway mated pair, click Metrics .
Drill-Down Links: Interface Details	<p>Displays detailed interface information for a given signaling gateway mated pair. To see interface information for the signaling gateway mated pair, click Interface Details.</p> <p>This field is displayed only if the selected signaling gateway mated pair is not a virtual signaling gateway mated pair, has a status of Active or Warning, and is connected to an ITP device.</p>
Drill-Down Links: SCTP Association Details	<p>Displays detailed SCTP association information for a given signaling gateway mated pair. To see SCTP association information for the signaling gateway mated pair, click SCTP Association Details.</p> <p>This field is displayed only if the selected signaling gateway mated pair is not a virtual signaling gateway mated pair, has a status of Active or Warning, and is connected to an ITP device.</p>

Viewing ITP Signaling Gateway Mated Pair Status

The SGM Signaling Gateway Mated Pairs Status page displays information about all discovered signaling gateway mated pairs, including their names, status, and other important information.

To access the SGM Signaling Gateway Mated Pairs Status page, select **ITP SGMP Status** from the SGM Server Home Page.

You can sort the Signaling Gateway Mated Pairs Status table based on the information in any column. See the [“Resizing, Sorting, and Hiding Table Columns” section on page 2-52](#) for more details.

The Signaling Gateway Mated Pairs table contains the following columns:

Column	Description
Server Name (in header)	Name of the SGM server associated with the signaling gateway mated pair.
Update Interval (in header)	Time between automatic updates for the page.
Last Update (in header)	Date and time the information on the page was last updated by SGM.
SGMP Name	Name of the signaling gateway mated pair. To see detailed information for the signaling gateway mated pair, click the signaling gateway mated pair name.
Node	Name of the node associated with the signaling gateway mated pair. To see detailed information for the node, click the node name.

Column	Description
Status	<p>Current status of the signaling gateway mated pair, with a color-coded background. Possible values are:</p> <p>Active (green)</p> <p>Down (red)</p> <p>Inactive (red)</p> <p>Shutdown (blue)</p> <p>Unknown (red)</p> <p>Warning (yellow)</p> <p>For detailed definitions of each status, see the “Status Definitions for Signaling Gateway Mated Pairs” section on page A-7.</p>
Status Reason	<p>Reason for the current status of the signaling gateway mated pair.</p> <p>For a full list of possible reasons, see the <i>stateReasons.html</i> file:</p> <ul style="list-style-type: none"> • If you installed SGM in the default directory, <i>/opt</i>, then the file is located at <i>/opt/CSCOsgm/apache/share/htdocs/eventHelp</i> directory. • If you installed SGM in a different directory, then the help directory and file are located in that directory. <p>If the cell is too small to show all of the status reason, place the cursor over the cell to see the full status reason in a mouse over help popup.</p> <p>The status reasons are listed in order of decreasing magnitude. If two or more reasons apply, the reason of greatest magnitude is displayed.</p> <p>If the status reason is Unsupported Configuration, correct the configuration and enter the sgm cleandiscover command to delete all current network data and begin a clean discovery of the ITP network. If the status reason is still Unsupported Configuration, enter the sgm clean command to restore the SGM server to a “clean” state, such as would exist after a new installation of SGM. For more information on the use of these commands, see the “SGM Command Reference” section on page C-1.</p>

Column	Description
Instance Status	<p>Current status of the protocol associated with the signaling gateway mated pair, with a color-coded background. Possible values are:</p> <p>Active (green)—The protocol is available.</p> <p>Shutdown (blue)—An administrator has forced the protocol to an unavailable state.</p> <p>Unknown (red)—SGM cannot determine the current status of the protocol.</p>
Congestion	<p>Indicates whether there is congestion on the signaling gateway mated pair. A signaling gateway mated pair is congested if it has too many packets waiting to be sent. This condition could be caused by the failure of an element in your network.</p> <p>Possible values for the Congestion Level field are None, indicating no congestion, and 1 to 7, indicating levels of congestion from very light (1) to very heavy (7).</p>

Viewing ITP Signaling Gateway Mated Pair Details

The SGM Signaling Gateway Mated Pairs Details page displays detailed information about a signaling gateway mated pair.

To access the SGM Signaling Gateway Mated Pairs Details page, click the signaling gateway mated pair name on the SGM Signaling Gateway Mated Pairs Status page.

You can sort the Signaling Gateway Mated Pairs Details table based on the information in any column. See the [“Resizing, Sorting, and Hiding Table Columns” section on page 2-52](#) for more details.

The Signaling Gateway Mated Details table contains the following columns:

Column	Description
Server Name (in header)	Name of the SGM server associated with the signaling gateway mated pair.
Update Interval (in header)	Time between automatic updates for the page.

Column	Description
Last Update (in header)	Date and time the information on the page was last updated by SGM.
Node	Name of the node associated with the signaling gateway mated pair. To see detailed information for the node, click the node name.
SGMP Name	Name of the signaling gateway mated pair. To see detailed information for the signaling gateway mated pair, click the signaling gateway mated pair name.
Drill-Down Links: Messages	Displays messages associated with a given signaling gateway mated pair. To see status change messages and SNMP trap messages associated with the signaling gateway mated pair, click Messages .
Drill-Down Links: Metrics	Displays metrics associated with a given signaling gateway mated pair. To see network status metrics associated with the signaling gateway mated pair, click Metrics .
Drill-Down Links: Interface Details	Displays detailed interface information for a given signaling gateway mated pair. To see interface information for the signaling gateway mated pair, click Interface Details . This field is displayed only if the selected signaling gateway mated pair is not a virtual signaling gateway mated pair, has a status of Active or Warning , and is connected to an ITP device.
Drill-Down Links: SCTP Association Details	Displays detailed SCTP association information for a given signaling gateway mated pair. To see SCTP association information for the signaling gateway mated pair, click SCTP Association Details . This field is displayed only if the selected signaling gateway mated pair is not a virtual signaling gateway mated pair, has a status of Active or Warning , and is connected to an ITP device.

Column	Description
Status	<p>Current status of the signaling gateway mated pair, with a color-coded background. Possible values are:</p> <p>Active (green)</p> <p>Down (red)</p> <p>Inactive (red)</p> <p>Shutdown (blue)</p> <p>Unknown (red)</p> <p>Warning (yellow)</p> <p>For detailed definitions of each status, see the “Status Definitions for Signaling Gateway Mated Pairs” section on page A-7.</p>
Status Reason	<p>Reason for the current status of the signaling gateway mated pair.</p> <p>For a full list of possible reasons, see the <i>stateReasons.html</i> file:</p> <ul style="list-style-type: none"> • If you installed SGM in the default directory, <i>/opt</i>, then the file is located at <i>/opt/CSCOsgm/apache/share/htdocs/eventHelp</i> directory. • If you installed SGM in a different directory, then the help directory and file are located in that directory. <p>If the cell is too small to show all of the status reason, place the cursor over the cell to see the full status reason in a mouse over help popup.</p> <p>The status reasons are listed in order of decreasing magnitude. If two or more reasons apply, the reason of greatest magnitude is displayed.</p> <p>If the status reason is Unsupported Configuration, correct the configuration and enter the sgm cleandiscover command to delete all current network data and begin a clean discovery of the ITP network. If the status reason is still Unsupported Configuration, enter the sgm clean command to restore the SGM server to a “clean” state, such as would exist after a new installation of SGM. For more information on the use of these commands, see the “SGM Command Reference” section on page C-1.</p>

Column	Description
Instance Status	<p>Current status of the protocol associated with the signaling gateway mated pair, with a color-coded background. Possible values are:</p> <p>Active (green)—The protocol is available.</p> <p>Shutdown (blue)—An administrator has forced the protocol to an unavailable state.</p> <p>Unknown (red)—SGM cannot determine the current status of the protocol.</p>
Congestion	<p>Indicates whether there is congestion on the signaling gateway mated pair. A signaling gateway mated pair is congested if it has too many packets waiting to be sent. This condition could be caused by the failure of an element in your network.</p> <p>Possible values for the Congestion Level field are None, indicating no congestion, and 1 to 7, indicating levels of congestion from very light (1) to very heavy (7).</p>
Note	<p>Note associated with this signaling gateway mated pair. If there is no note associated with this signaling gateway mated pair, this field is blank.</p>
Note Timestamp	<p>Date and time the note associated with this signaling gateway mated pair was last updated. If there is no note associated with this signaling gateway mated pair, this field is blank.</p>
QoS	<p>Quality of service (QoS) class of the signaling gateway mated pair.</p>
Passive	<p>Indicates whether the signaling gateway can initiate the connection with the mate. Possible values are:</p> <ul style="list-style-type: none"> • True—The signaling gateway cannot initiate the connection. The mate must initiate the connection. • False—The signaling gateway can initiate the connection.
Config Local Port	<p>Local port number that was configured for the signaling gateway mated pair.</p>
Local Port	<p>Local port number that is currently being used by the signaling gateway mated pair.</p>
Config Remote Port	<p>Remote port number that was configured for the signaling gateway mated pair.</p>
Remote Port	<p>Remote port number that is currently being used by the signaling gateway mated pair.</p>

Viewing Interface Details for a Signaling Gateway Mated Pair

The SGM Interface Details page displays detailed interface information for a signaling gateway mated pair.

To access the SGM Interface Details page, select **Interface Details** in the SGM Signaling Gateway Mated Pairs Details page.

The SGM Interface Details table displays the following information for the selected signaling gateway mated pair:

Field	Description
Server Name (in header)	Name of the SGM server associated with the signaling gateway mated pair.
Update Interval (in header)	Time between automatic updates for the page.
Last Update (in header)	Date and time the information on the page was last updated by SGM.
Node	Name of the node associated with the signaling gateway mated pair. To see detailed information for the node, click the node name.
SGMP	Name of the signaling gateway mated pair. To see detailed information for the signaling gateway mated pair, click the signaling gateway mated pair name.
Description	Text string containing information about the interface.
IP Address	IP address corresponding to the media-dependent “physical” address. If the interface does not have such an address (for example, a serial line), this field displays N/A .
Mask	Subnet mask corresponding to the media-dependent “physical” address. If the interface does not have such an address (for example, a serial line), this field displays N/A .
Type	Type of interface, such as Ethernet.
MTU	Size, in bytes, of the largest datagram that can be sent or received on the interface.

Field	Description
Speed (Bits/Sec)	Estimate, in bits per second, of the interface's current bandwidth. If the interface does not vary in bandwidth, or if no accurate estimate can be made, this field displays the nominal bandwidth.
Physical Address	(SCTP links only) Address of the interface at the protocol layer immediately “below” the network layer in the protocol stack. If the interface does not have such an address (for example, a serial line), this field displays N/A .
ITP Uptime	Time the interface has been up, in days, hours, minutes, and seconds.
Admin Status	Desired state of the interface. Possible values are: <ul style="list-style-type: none"> • Up • Down • Testing
Operational Status	Current operational state of the interface. Possible values are: <ul style="list-style-type: none"> • Up • Down • Testing • Unknown • Dormant
Line Protocol Status	Current state of the line protocol. Possible values are: <ul style="list-style-type: none"> • Up—Software processes that handle the line protocol consider the line to be usable (that is, keepalives are successful). • Down—Software processes that handle the line protocol consider the line to be unusable. <p>You can use the Line Protocol together with Operational Status to troubleshoot interface connection problems. For example, if Operational Status is Up, but Line Protocol is Down, the interface has detected a carrier on the physical layer, but there might be clocking or framing problems.</p>
Bytes In per Sec	Number of bytes received on the interface per second, including framing characters.
Bytes Out per Sec	Number of bytes sent on the interface per second, including framing characters.
Packets In per Sec	Number of packets delivered per second to a higher-layer protocol.

Viewing Signaling Gateway Mated Pair Information Using a Web Browser

Field	Description
Packets Out per Sec	Total number of packets that higher-level protocols requested to be sent to the network per second, including those that were discarded or not sent.
In Discards	Number of inbound packets that were discarded, even though no errors were detected to prevent their delivery to a higher-layer protocol. For example, a packet might be discarded to free buffer space.
Out Discards	Number of outbound packets that were discarded, even though no errors were detected to prevent their delivery to a higher-layer protocol. For example, a packet might be discarded to free buffer space.
In Errors	Number of inbound packets that contained errors that prevented their delivery to a higher-layer protocol.
Out Errors	Number of outbound packets that were not sent because of errors.

Viewing SCTP Association Details for a Signaling Gateway Mated Pair

The SGM SCTP Association Details page displays detailed SCTP association information for a signaling gateway mated pair.

To access the SGM SCTP Association Details page, select **SCTP Association Details** in the SGM Signaling Gateway Mated Pairs Details page.

The SGM SCTP Association Details table displays the following information for the selected signaling gateway mated pair:

Field	Description
Server Name (in header)	Name of the SGM server to which this SCTP association belongs.
Update Interval (in header)	Time between automatic updates for the page.
Last Update (in header)	Date and time the information on the page was last updated by SGM.
Node	Name of the node to which this SCTP association belongs. To see detailed information for the node, click the node name.

Field	Description
SGMP	Name of the signaling gateway mated pair to which this SCTP association belongs. To see detailed information for the signaling gateway mated pair, click the signaling gateway mated pair name.
Status	<p>Current status of the SCTP association. Possible values are:</p> <ul style="list-style-type: none"> • Closed • CookieWait • CookieEchoed • DeleteTCB • Established • ShutdownAckSent • ShutdownPending • ShutdownReceived • ShutdownSent <p>For detailed information about each status, refer to RFC 2960, Stream Control Transmission Protocol.</p>
Uptime	Time the link has been up, in days, hours, minutes, and seconds.
Remote Port	Remote port number for the SCTP association.
Local Port	Local port number for the SCTP association.
Primary IP Address	Designated primary IP address for the SCTP association.
Effective IP Address	IP address currently being used by the SCTP association.
Local IP Address Configuration: IP Address	Local IP addresses associated with the link.
Local IP Address Configuration: Uptime	Time each local IP address associated with the link has been up, in days, hours, minutes, and seconds.
Remote IP Address Configuration: IP Address	Remote IP addresses associated with the link.
Remote IP Address Configuration: Uptime	Time each remote IP address associated with the link has been up, in days, hours, minutes, and seconds.

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Field	Description
Remote IP Address Configuration: Retry Timeout (msecs)	Current SCTP Retransmission Timeout (T3-rtx timer).
Remote IP Address Configuration: Maximum Retries	Maximum number of retransmissions allowed before this IP address is considered inactive.
Remote IP Address Configuration: Retries	Current retransmission count.
Remote IP Address Status: IP Address	Remote IP addresses associated with the link.
Remote IP Address Status: Smoothed Round Trip Time (msecs)	Average, in milliseconds, of all round-trip times between the local and remote systems on an IP network.
Remote IP Address Status: Failure Count	Number of times the remote IP address was marked as failed.
Remote IP Address Status: Heartbeat Status	Current status of the heartbeat associated with the remote IP address. Valid values are Active and Inactive .
Remote IP Address Status: IP Status	Current status of the remote IP address. Valid values are Active and Inactive .
Packets Sent per Sec.	Number of IP datagrams sent per second by this SCTP association.
Packets Received per Sec.	Number of IP datagrams received per second by this SCTP association.
Control Chunks Sent per Sec.	Number of control chunks sent per second by this SCTP association.
Control Chunks Received per Sec.	Number of control chunks received per second by this SCTP association.
Ordered Chunks Sent per Sec.	Number of ordered chunks sent per second by this SCTP association.
Ordered Chunks Received per Sec.	Number of ordered chunks received per second by this SCTP association.
Unordered Chunks Sent per Sec.	Number of unordered chunks sent per second by this SCTP association.
Unordered Chunks Received per Sec.	Number of unordered chunks received per second by this SCTP association.

Field	Description
Retransmitted Chunks per Sec.	Number of chunks retransmitted per second by this SCTP association.
Retransmitted Fast Chunks per Sec.	Number of fast chunks retransmitted per second by this SCTP association.
MTU	Maximum transmission unit (MTU) size to be used by this SCTP association. This is the smallest MTU size supported by any of the IP addresses used by the SCTP association.
In Streams	Inbound streams as negotiated when the SCTP association was started.
Out Streams	Outbound streams as negotiated when the SCTP association was started.
Maximum Retries	Maximum number of data retransmissions in the SCTP association context.
Local Receive Window Size	Current local receive window size for this SCTP association.
Remote Receive Window Size	Current local send window size for this SCTP association.
Initial Retry Timeout (msecs)	Initial timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.
Minimum Retry Timeout (msecs)	Minimum timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.
Maximum Retry Timeout (msecs)	Maximum timeout value, in milliseconds, permitted by the SCTP implementation for the retry timeout.
Bundle Chunks	Indicates whether the SCTP protocol allows chunks to be bundled into a single datagram as follows. Valid values are: <ul style="list-style-type: none"> • true (1)—Chunks are bundled. • false (2)—Chunks are not bundled.
Bundle Timeout (msecs)	Time, in milliseconds, to wait to allow data chunks to accumulate so that they can be transmitted in the same datagram.

■ Viewing Signaling Gateway Mated Pair Information Using a Web Browser