A P P E N D I X A

Client Object Map Reference

In the Mobile Wireless Transport Manager (MWTM) client navigation tree, if you click on an object in a view, the associated tabs appear in the content area in the right pane. This appendix provides an overview of the tabs available for each MWTM object in a view, and contains:

Note The MWTM web interface may contain additional tabs (for details, see Chapter 11, "Accessing Data from the Web Interface.")

Object Type	Related Content	Applicable To
Nodes	• BWG Node Tabs, page A-2 • CSG1 and CSG2 Node Tabs, page A-3 • CSR Node Tabs, page A-3 • GGSN Node Tabs, page A-4 • HA Node Tabs, page A-4 • IP-RAN Node Tabs, page A-5 • ITP Node Tabs, page A-5 • mSEF Node Tabs, page A-6 • ONS Node Tabs, page A-6 • RAN Service Card Node Tabs, page A-7 • Unknown Node Tabs, page A-7	All networks

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Object Type	Related Content	Applicable To
Signaling Points	Signaling Point Tabs, page A-8	ITP networks only
Linksets	Linkset Tabs, page A-9	
Links	Link Tabs, page A-9	
Application Servers	Application Server Tabs, page A-9	
Application Server Processes	Application Server Process Tabs, page A-10	
Application Server Process Associations	Application Server Process Association Tabs, page A-10	
Signaling Gateway-Mated Pairs	Signaling Gateway-Mated Pair Tabs, page A-11	
Interfaces	Interface Tabs, page A-11	All networks
RAN Shorthauls	UMTS and GSM Interface Tabs, page A-12	RAN-O networks only
Cards	Card Tabs, page A-12	
RAN Backhauls	RAN Backhaul Tabs, page A-13	
Folders	Physical and Management Interface Folder Tabs, page A-13	All networks
Access Point Name (APN)	Access Point Name Node Tabs, page A-14	GGSN networks only

BWG Node Tabs

Clicking a Broadband Wireless Gateway (BWG) node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all nodes in your system, see Nodes Table, page 6-5.

CSG1 and CSG2 Node Tabs

Clicking a CSG node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all nodes in your system, see Nodes Table, page 6-5.

CSR Node Tabs

Clicking a Cell Site Router (CSR) node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
PWE3 Statistics **Note** This tab is only available for CSR nodes operating Pseudo Wires.	Viewing PWE3 Statistics, page 8-121
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Trap Settings	Viewing Trap Settings, page 8-62
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all nodes in your system, see Nodes Table, page 6-5.

GGSN Node Tabs

Clicking a GGSN node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog **Note** The syslog tab is only available for GGSN R8.	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all nodes in your system, see Nodes Table, page 6-5.

HA Node Tabs

Clicking an HA node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all nodes in your system, see Nodes Table, page 6-5.

IP-RAN Node Tabs

Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
PWE3 Statistics	Viewing PWE3 Statistics, page 8-121
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all nodes in your system, see Nodes Table, page 6-5.

ITP Node Tabs

Clicking an IP Transfer Point (ITP) node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
MSU Rates **Note** Only available for ITPs that have an IOS that implements the CISCO-ITP-MSU-RATES-MIB.	Viewing ITP MSU Rates, page 8-94
MTP3 Errors	Viewing ITP MTP3 Errors, page 8-93
Non-Stop Operation **Note** Only available for ITPs with the NSO feature: 7500 or 7600 devices.	Viewing ITP Non-Stop Operation, page 8-95
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Trap Settings	Viewing Trap Settings, page 8-62
Troubleshooting	Viewing Troubleshooting, page 8-43

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Note   To view all nodes in your system, see Nodes Table, page 6-5.

mSEF Node Tabs

This is a 7600 supervisor card in a chassis that contains SAMI cards.

Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Troubleshooting	Viewing Troubleshooting, page 8-43

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Note   To view all nodes in your system, see Nodes Table, page 6-5.

ONS Node Tabs

Clicking an Optical Networking System (ONS) node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10

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Note   To view all nodes in your system, see Nodes Table, page 6-5.

RAN Service Card Node Tabs

Clicking a Radio Access Network (RAN) Service Card (SVC) node in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Performance	Viewing CPU Performance, page 8-58
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Syslog	Viewing the Syslog, page 8-57
Trap Settings	Viewing Trap Settings, page 8-62
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all nodes in your system, see Nodes Table, page 6-5.

CDT Node Tabs

Clicking a CDT node tab provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10

Note To view all nodes in your system, see Nodes Table, page 6-5.

Unknown Node Tabs

Note Unknown nodes will show a performance tab when the unknown node implements the CISCO-PROCESS-MIB and either the CISCO-ENHANCED-MEMPOOL-MIB or CISCO-MEMORY-POOL-MIB.

Clicking a node in a MWTM view with unknown node status provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10

Note   To view all nodes in your system, see Nodes Table, page 6-5.

Signaling Point Tabs

Clicking on a signaling point in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
GTT MAP Status	Viewing GTT MAP Status, page 8-125
GTT Statistics	Viewing GTT Statistics, page 8-126
ITP Access Lists	Viewing Route Detail, page 8-124
MLR Details	Viewing MLR Details, page 8-130
MTP3 Event Log	Viewing the MTP3 Event Log, page 8-129
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Route Detail	Viewing Route Detail, page 8-124
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all signaling points in your system, see Signaling Points Table, page 6-8.

Linkset Tabs

Clicking on a linkset in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Linkset Access Lists	Viewing ITP Linkset Access Lists, page 8-123
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all linksets in your system, see Linksets Table, page 6-10.

Link Tabs

Clicking on a link in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all links in your system, see Links Table, page 6-13.

Application Server Tabs

Clicking on an application server in a MWTM view provides you with the following tabs:

Tab	Related Content
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45

Tab	Related Content
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all application servers in your system, see Application Servers Table, page 6-14.

Application Server Process Tabs

Clicking on an application server process in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all application server processes in your system, see Application Server Processes Table, page 6-16.

Application Server Process Association Tabs

Clicking on an application server process association in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Troubleshooting	Viewing Troubleshooting, page 8-43

Note To view all application server process associations in your system, see Application Server Process Associations Table, page 6-18.

Signaling Gateway-Mated Pair Tabs

Clicking on a signaling gateway-mated pair in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all signaling gateway-mated pairs in your system, see Signaling Gateway Mated Pairs Table, page 6-20.

Interface Tabs

Clicking on an interface in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Interface Errors[1]	Viewing Data for Interfaces, page 8-63
Interface Performance[2]	Viewing Data for Interfaces, page 8-63
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors[3]	Viewing Status Contributors, page 8-10
TDM Statistics **Note** TDM statistics are available only on some interfaces on nodes that implement either the CISCO-ICSUDSU-MIB or RFC1406-MIB.	Viewing TDM Statistics, page 8-103
Troubleshooting	Viewing Troubleshooting, page 8-43

1. May not be applicable for interfaces that do not collect statistics.

2. May not be applicable for interfaces that do not collect statistics.

3. May not show for parent interfaces that have no children.

Note   To view all interfaces in your system, see Interfaces Table, page 6-21.

UMTS and GSM Interface Tabs

Clicking on a RAN shorthaul (either UMTS or GSM) in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Errors	Viewing Shorthaul Errors, page 8-115
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Shorthaul Performance	Viewing Shorthaul Performance Data, page 8-108
Shorthaul Errors	Viewing Shorthaul Errors, page 8-115
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all interfaces in your system, see Interfaces Table, page 6-21.

Card Tabs

Clicking on a card in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors Note Only available when the card has child objects such as interfaces.	Viewing Status Contributors, page 8-10

Note   To view all cards in your system, see Cards Table, page 6-23.

RAN Backhaul Tabs

Clicking on a RAN backhaul in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Backhaul Errors	Viewing Backhaul Errors, page 8-120 (Real-time data on the MWTM client) Displaying Backhaul Error Statistics, page 11-45 (Historical data on the MWTM web interface)
Backhaul Performance	Viewing Backhaul Performance Data, page 8-111 (Real-time data on the MWTM client) Displaying Backhaul Performance Statistics, page 11-38 (Historical data on the MWTM web interface)
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
RAN Shorthauls	Viewing RAN Shorthauls, page 8-140
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10
Troubleshooting	Viewing Troubleshooting, page 8-43

Note   To view all RAN backhauls in your system, see RAN Backhauls Table, page 6-25.

Physical and Management Interface Folder Tabs

The Physical folder that contains a list of the physical interfaces and cards that belong to the node. The Management Interface folder contains a list of interfaces that the MWTM uses to manage the node.

Clicking on a Physical or Management Interface folder in a MWTM view provides you with the following tabs:

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-45
Details	Viewing Details, page 8-12
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-45
Status Contributors	Viewing Status Contributors, page 8-10

Access Point Name Node Tabs

This section provides information about the tabs available for Access Point Name nodes.

Tab	Related Content
Details	Viewing Details, page 8-12
Status Contributors	Viewing Status Contributors, page 8-10
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-45
Alarms	
APN Instances	Viewing APN Instances, page 8-142
GGSN Nodes	Viewing GGSN Nodes, page 8-143
Tools	Using the APN Search Tool, page 8-145