



APPENDIX 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-2 CSR Node Tabs, page A-3 Generic 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 Metro Ethernet Node Tabs, page A-6 mSEF Node Tabs, page A-6 ONS Node Tabs, page A-7 RAN Service Card Node Tabs, page A-7 Unknown Node Tabs, page A-8	- BWG:mSEF networks - CSG1 and CSG2: mSEF networks - CSR: IP-RAN networks - Generic:All networks - GGSN: mSEF networks - HA: mSEF networks - IP-RAN: IP-RAN networks - Metro Ethernet: IP-RAN networks - mSEF: mSEF networks - ONS: IP-RAN networks - RAN Service: IP-RAN networks - Unknown: All networks
Signaling Points	Signaling Point Tabs, page A-9	ITP networks only
Linksets	Linkset Tabs, page A-9	
Links	Link Tabs, page A-10	
Application Servers	Application Server Tabs, page A-10	
Application Server Processes	Application Server Process Tabs, page A-11	
Application Server Process Associations	Application Server Process Association Tabs, page A-11	
Signaling Gateway-Mated Pairs	Signaling Gateway-Mated Pair Tabs, page A-12	

Object Type	Related Content	Applicable To
Interfaces	Interface Tabs, page A-12	All networks
Cards	Card Tabs, page A-13	IP-RAN networks
RAN Backhauls	RAN Backhaul Tabs, page A-14	IP-RAN networks
RAN Shorthauls	UMTS and GSM Interface Tabs, page A-13	
PWE3 Backhauls	PWE3 Backhaul Tabs, page A-14	
PWE3 Shorthauls	PWE3 Shorthauls Tabs, page A-15	
PWE3 Virtual Circuits	PWE3 Virtual Circuits Tabs, page A-15	
Access Point Name (APN)	Access Point Name Node Tabs, page A-15	mSEF networks
Folders	Physical and Management Interface Folder Tabs, page A-16	All networks

BWG Node Tabs

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

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
Statistics	Displaying BWG Real-Time Statistics, page 11-33



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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7

Tab	Related Content
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
Statistics	Displaying CSG2 Real-Time Statistics, page 11-28

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
PWE3 Statistics	Viewing PWE3 Statistics, page 8-110
Note This tab is only available for CSR nodes operating Pseudo Wires.	
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
Trap Settings	Viewing Trap Settings, page 8-58

**Note**

To view all nodes in your system, see [Nodes Table, page 6-5](#).

Generic Node Tabs

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

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Performance	Viewing CPU and Memory Performance, page 8-52

GGSN Node Tabs

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

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Note The syslog tab is only available for GGSN R8.	
Performance	Viewing CPU and Memory Performance, page 8-52
Statistics	Displaying GGSN Real-Time Statistics, page 11-48
APN Instances	Viewing APN Instances, page 8-131



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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7

Tab	Related Content
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
Statistics	Displaying HA Real-Time Statistics, page 11-45

**Note**

To view all nodes in your system, see [Nodes Table, page 6-5](#).

IP-RAN Node Tabs

Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
PWE3 Statistics	Viewing PWE3 Statistics, page 8-110

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52
Trap Settings	Viewing Trap Settings, page 8-58
MTP3 Errors	Viewing ITP MTP3 Errors, page 8-88
MSU Rates	Viewing ITP MSU Rates, page 8-89
Note Only available for ITPs that have an IOS that implements the CISCO-ITP-MSU-RATES-MIB.	
Non-Stop Operation	Viewing ITP Non-Stop Operation, page 8-90
Note Only available for ITPs with the NSO feature: 7500 or 7600 devices.	
Reports	Viewing Reports, page 13-3

**Note**

To view all nodes in your system, see [Nodes Table, page 6-5](#).

Metro Ethernet Node Tabs

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

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52

mSEF Node Tabs

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

Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39

Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51
Performance	Viewing CPU and Memory Performance, page 8-52

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Syslog	Viewing the Syslog, page 8-51

Tab	Related Content
Performance	Viewing CPU and Memory Performance, page 8-52
Trap Settings	Viewing Trap Settings, page 8-58

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

**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
Details	Viewing Details , page 8-9
Status Contributors	Viewing Status Contributors , page 8-7
Notes	Viewing Notes , page 6-39
Troubleshooting	Viewing Troubleshooting , page 8-39
Events	Viewing Alarms and Recent Events , page 8-41
Alarms	Viewing Alarms and Recent Events , page 8-41
ITP Access Lists	Viewing Route Detail , page 8-113
Route Detail	Viewing Route Detail , page 8-113
GTT MAP Status	Viewing GTT MAP Status , page 8-115
GTT Statistics	Viewing GTT Statistics , page 8-116
MLR Details	Viewing MLR Details , page 8-119
MTP3 Event Log	Viewing the MTP3 Event Log , page 8-118
Reports	Viewing Reports , page 13-3

**Note**

To view all signaling points in your system, see [Signaling Points Table](#), page 6-9.

Linkset Tabs

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

Tab	Related Content
Details	Viewing Details , page 8-9
Status Contributors	Viewing Status Contributors , page 8-7
Notes	Viewing Notes , page 6-39
Troubleshooting	Viewing Troubleshooting , page 8-39
Events	Viewing Alarms and Recent Events , page 8-41
Alarms	Viewing Alarms and Recent Events , page 8-41
Linkset Access Lists	Viewing ITP Linkset Access Lists , page 8-112

Tab	Related Content
Reports	Viewing Reports, page 13-3
Statistics	Viewing ITP Linkset Statistics, page 8-112

**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
Details	Viewing Details, page 8-9
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Reports	Viewing Reports, page 13-3
Interface Details	Interface Details, page 8-70
Statistics	Statistics: Application Server Process Associations, page 8-79
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-75
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-77
Q.752 Measurements	Q.752 Measurements, page 8-73
Status Details	Status Details, page 8-84

**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 8-9
Status Contributors	Viewing Status Contributors, page 8-7

Tab	Related Content
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Statistics	Statistics: Application Servers, page 8-78
Reports	Viewing Reports, page 13-3

**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
Details	Viewing Details, page 8-9
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

**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
Details	Viewing Details, page 8-9
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Statistics	Statistics: Application Server Process Associations, page 8-79
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-75

Tab	Related Content
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-77
Interface Details	Interface Details, page 8-70
Reports	Viewing Reports, page 13-3

**Note**

To view all application server process associations in your system, see [Application Server Process Associations Table, page 6-17](#).

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
Details	Viewing Details, page 8-9
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-75
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-77
Interface Details	Interface Details, page 8-70

**Note**

To view all signaling gateway-mated pairs in your system, see [Signaling Gateway Mated Pairs Table, page 6-19](#).

Interface Tabs

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

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
Troubleshooting	Viewing Troubleshooting, page 8-39

Tab	Related Content
Interface Errors ¹	Viewing Data for Interfaces, page 8-60
Interface Performance ²	Viewing Data for Interfaces, page 8-60
TDM Statistics	Viewing TDM Statistics, page 8-95
Note TDM statistics are available only on some interfaces on nodes that implement either the CISCO-ICSUDSU-MIB or RFC1406-MIB.	

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

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



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 8-41
Details	Viewing Details, page 8-9
Errors	Viewing Shorthaul Errors, page 8-106
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-41
Shorthaul Performance	Viewing Shorthaul Performance Data, page 8-101
Shorthaul Errors	Viewing Shorthaul Errors, page 8-106
Status Contributors	Viewing Status Contributors, page 8-7
Troubleshooting	Viewing Troubleshooting, page 8-39



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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Note Only available when the card has child objects such as interfaces.	
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

**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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
RAN Shorthauls	Viewing RAN Shorthauls, page 8-129
Backhaul Performance	Viewing Backhaul Performance Data, page 8-102 (Real-time data on the MWTM client) Displaying Backhaul Performance Statistics, page 11-23 (Historical data on the MWTM web interface)
Backhaul Errors	Viewing Backhaul Errors, page 8-110 (Real-time data on the MWTM client) Displaying Backhaul Error Statistics, page 11-27 (Historical data on the MWTM web interface)

**Note**

To view all RAN backhauls in your system, see [RAN Backhauls Table, page 6-25](#).

PWE3 Backhaul Tabs

Clicking on a PWE3 backhaul in a MWTM view provides you with the following tabs:

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
PWE3 Virtual Circuits	PWE3 Virtual Circuits, page 6-29

PWE3 Shorthauls Tabs

Clicking on a PWE3 shorthaul in a MWTM view provides you with the following tabs:

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
PWE3 Virtual Circuits	PWE3 Virtual Circuits, page 6-29

PWE3 Virtual Circuits Tabs

Clicking on a PWE3 virtual circuit in a MWTM view provides you with the following tabs:

Tab	Related Content
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41

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 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41
APN Instances	Viewing APN Instances, page 8-131
GGSN Nodes	Viewing GGSN Nodes, page 8-132
Tools	Using the APN Search Tool, page 8-133

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
Details	Viewing Details, page 8-9
Status Contributors	Viewing Status Contributors, page 8-7
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-41
Alarms	Viewing Alarms and Recent Events, page 8-41