



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:



The MWTM client has a subset of the tabs described in this section.

Object Type	Related Content	Applicable To
Nodes	• BWG Node Tabs, page A-2	• BWG: mSEF networks
	• CSG1 and CSG2 Node Tabs, page A-3	• CSG1 and CSG2: mSEF networks
	• CSR Node Tabs, page A-3	• CSR: IP-RAN networks
	• Generic Node Tabs, page A-4	• Generic: All networks
	• GGSN Node Tabs, page A-4	• GGSN: mSEF networks
	• HA Node Tabs, page A-5	• HA: mSEF networks
	• IP-RAN Node Tabs, page A-6	• IP-RAN: IP-RAN networks
	• ITP Node Tabs, page A-6	• ITP: ITP networks
	• Metro Ethernet Node Tabs, page A-7	• Metro Ethernet: IP-RAN networks
	• mSEF Node Tabs, page A-7	• mSEF: mSEF networks
	• ONS Node Tabs, page A-8	• ONS: IP-RAN networks
	• PDSN Node Tabs, page A-8	• PDSN: mSEF networks
	• RAN Service Card Node Tabs, page A-9	• RAN Service: IP-RAN networks
	• Unknown Node Tabs, page A-10	• Unknown: All networks

Object Type	Related Content	Applicable To
Signaling Points	Signaling Point Tabs, page A-10	ITP networks only
Linksets	Linkset Tabs, page A-11	
Links	Link Tabs, page A-11	
Application Servers	Application Server Tabs, page A-12	
Application Server Processes	Application Server Process Tabs, page A-12	
Application Server Process Associations	Application Server Process Association Tabs, page A-13	
Signaling Gateway-Mated Pairs	Signaling Gateway-Mated Pair Tabs, page A-13	
Interfaces	Interface Tabs, page A-14	All networks
Cards	Card Tabs, page A-15	IP-RAN networks
RAN Backhauls	RAN Backhaul Tabs, page A-16	IP-RAN networks
RAN Shorthauls	UMTS and GSM Interface Tabs, page A-15	
PWE3 Backhauls	PWE3 Backhaul Tabs, page A-16	
PWE3 Virtual Circuits	PWE3 Virtual Circuits Tabs, page A-17	
Access Point Names (APN)	Access Point Name Node Tabs, page A-17	mSEF networks
Access Point Name Instance (APMN Instance)	Access Point Name Node Tabs, page A-17	mSEF networks
Folders	Physical and Management Interface Folder Tabs, page A-17	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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
Statistics	Displaying BWG Real-Time Statistics, page 11-44
Reports	Viewing Reports, page 13-3



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
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Chassis View	Viewing Chassis View, page 8-132
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
Statistics	Displaying CSG2 Real-Time Statistics, page 11-29
Reports	Viewing Reports, page 13-3



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 8-40
PWE3 Statistics	Viewing PWE3 Statistics, page 8-113
Note This tab is only available for CSR nodes operating Pseudo Wires.	
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54

Tab	Related Content
Performance	Viewing CPU and Memory Performance, page 8-54
Trap Settings	Viewing Trap Settings, page 8-60
QOS	Displaying QoS Statistics, page 11-76
PWE3 Statistics	Viewing PWE3 Statistics, page 8-113
Reports	Viewing Reports, page 13-3



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Performance	Viewing CPU and Memory Performance, page 8-54
Reports	Viewing Reports, page 13-3

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Chassis View	Viewing Chassis View, page 8-132

Tab		Related Content
Syslog		Viewing the Syslog, page 8-54
Note	The syslog tab is available for GGSN R8 and later.	
Perfor	rmance	Viewing CPU and Memory Performance, page 8-54
Statistics		Displaying GGSN Real-Time Statistics, page 11-60
Note	The Statistics tab is available for GGSN R8 and later.	
APN Instances		Viewing APN Instances, page 8-135
Reports		Viewing Reports, page 13-3



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
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
Statistics	Displaying HA Real-Time Statistics, page 11-57
Reports	Viewing Reports, page 13-3



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

IP-RAN Node 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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
PWE3 Statistics	Viewing PWE3 Statistics, page 8-113
Note The PWE3 Statistics tab is only available for devices running Pseudo Wire.	
Reports	Viewing Reports, page 13-3

Clicking an IP-RAN node in a MWTM view provides you with the following tabs:



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
Trap Settings	Viewing Trap Settings, page 8-60
MTP3 Errors	Viewing ITP MTP3 Errors, page 8-91

Tab		Related Content
MSU	Rates	Viewing ITP MSU Rates, page 8-92
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 8-93
Note	Only available for ITPs with the NSO feature: 7500 or 7600 devices.	
Reports		Viewing Reports, page 13-3

Note

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54

mSEF Node Tabs

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

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42

Syslo	g	Viewing the Syslog, page 8-54
Performance Statistics		Viewing CPU and Memory Performance, page 8-54Viewing Statistics, page 11-22
Repor	rts	Viewing Reports, page 13-3



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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42



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

PDSN Node Tabs

Clicking an Packet Data Serving Node (PDSN) 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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Chassis View	Viewing Chassis View, page 8-132

Tab	Related Content
Performance	Viewing CPU and Memory Performance, page 8-54
Statistics	Viewing Statistics, page 11-22
Reports	Viewing Reports, page 13-3

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Syslog	Viewing the Syslog, page 8-54
Performance	Viewing CPU and Memory Performance, page 8-54
Trap Settings	Viewing Trap Settings, page 8-60
QOS	Displaying QoS Statistics, page 11-76
Reports	Viewing Reports, page 13-3



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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42



Unknown Node Tabs

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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
ITP Access Lists	Viewing Route Detail, page 8-116
Route Detail	Viewing Route Detail, page 8-116
GTT MAP Status	Viewing GTT MAP Status, page 8-118
GTT Statistics	Viewing GTT Statistics, page 8-119
MLR Details	Viewing MLR Details, page 8-122

<u>Note</u>

Tab	Related Content
MTP3 Event Log	Viewing the MTP3 Event Log, page 8-121
Reports	Viewing Reports, page 13-3



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Linkset Access Lists	Viewing ITP Linkset Access Lists, page 8-115
Reports	Viewing Reports, page 13-3
Statistics	Viewing ITP Linkset Statistics, page 8-115



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

Link Tabs

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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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Reports	Viewing Reports, page 13-3
Interface Details	Interface Details, page 8-73

Tab	Related Content
Statistics	Statistics: Application Server Process Associations, page 8-82
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-78
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-80
Q.752 Measurements	Q.752 Measurements, page 8-76
Status Details	Status Details, page 8-87



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
Notes	Viewing Notes, page 6-39
Troubleshooting	Viewing Troubleshooting, page 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Statistics	Statistics: Application Servers, page 8-81
Reports	Viewing Reports, page 13-3



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	

Tab	Related Content
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Statistics	Statistics: Application Server Process Associations, page 8-82
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-78
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-80
Interface Details	Interface Details, page 8-73
Reports	Viewing Reports, page 13-3



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42

Tab	Related Content
Alarms	Viewing Alarms and Recent Events, page 8-42
SCTP Assoc. Config Details	SCTP Association Configuration Details, page 8-78
SCTP Assoc. Stats Details	SCTP Association Statistics Details, page 8-80
Interface Details	Interface Details, page 8-73

<u>Note</u>

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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Troubleshooting	Viewing Troubleshooting, page 8-40
Interface Performance ¹	Viewing Data for Interfaces, page 8-62
Interface Errors/Discards ²	Viewing Data for Interfaces, page 8-62
Interface Advanced Details ³	Viewing Data for Interfaces, page 8-62
TDM Statistics	Viewing TDM Statistics, page 8-98
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.

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



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 8-42
Details	Viewing Details, page 8-9
Errors	Viewing Shorthaul Errors, page 8-109
Notes	Viewing Notes, page 6-39
Recent Events	Viewing Alarms and Recent Events, page 8-42
Shorthaul Performance	Viewing Shorthaul Performance Data, page 8-104
Shorthaul Errors	Viewing Shorthaul Errors, page 8-109
Status Contributors	Viewing Status Contributors, page 8-7
Troubleshooting	Viewing Troubleshooting, page 8-40



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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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42



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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
RAN Shorthauls	Viewing RAN Shorthauls, page 8-132
Backhaul Performance	Viewing Backhaul Performance Data, page 8-105 (Real-time data on the MWTM client)
	Displaying Backhaul Performance Statistics, page 11-24 (Historical data on the MWTM web interface)
Backhaul Errors	Viewing Backhaul Errors, page 8-113 (Real-time data on the MWTM client)
	Displaying Backhaul Error Statistics, page 11-28 (Historical data on the MWTM web interface)



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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
PWE3 Virtual Circuits	PWE3 Virtual Circuits, page 6-29

PWE3 Virtual Circuits 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 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
Troubleshooting	Viewing Troubleshooting, page 8-40
PWE3 Statistics	Viewing PWE3 Statistics, page 8-113
Reports	Viewing Reports, page 13-3

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

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 8-40
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42
APN Instances	Viewing APN Instances, page 8-135
Nodes	Viewing GGSN Nodes, page 8-136
Tools	Using the APN Search Tool, page 8-137

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

Tab	Related Content
Notes	Viewing Notes, page 6-39
Events	Viewing Alarms and Recent Events, page 8-42
Alarms	Viewing Alarms and Recent Events, page 8-42