

Chapter 19

Summary of MDT Configuration Statements

The following sections explain each data multicast distribution tree (MDT) configuration statement. The statements are organized alphabetically.

group

Syntax	<pre>group <i>group-address</i> { source <i>source-address</i> { rate <i>threshold-rate</i>; } }</pre>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt threshold], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt threshold]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	The explicit or prefix multicast group address to which the threshold limits apply. This is typically a well-known address for a certain type of multicast traffic.
Options	<i>group-address</i> —Explicit group address to limit. The remaining statements are explained separately.
Usage Guidelines	See “Configuring the Data MDT Threshold Parameters” on page 122.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

group-range

Syntax	<code>group-range multicast-prefix;</code>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Establish the group range to use for data MDTs created in this VRF instance. This address range cannot overlap the default MDT addresses of any other VPNs on the router. If you configure overlapping group ranges, the configuration commit fails.
Options	<i>multicast-prefix</i> —Multicast address range to identify data MDTs. Range: Any valid, nonreserved multicast address range Default: None
Usage Guidelines	See “Configuring the Data MDT Group Range” on page 122.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

mdt

Syntax	<pre>mdt { group-range multicast-prefix; threshold { group group-address { source source-address { rate threshold-rate; } } } tunnel-limit limit; }</pre>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim], [edit routing-instances <i>routing-instance-name</i> protocols pim]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Establish the group range for data MDTs and threshold limits for a multicast group and source. A multicast group can have more than one source of traffic.
Options	The remaining statements are explained separately.
Usage Guidelines	See “MDT Configuration Guidelines” on page 121.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

rate

Syntax	<code>rate threshold-rate;</code>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt threshold group <i>group-address</i> source <i>source-address</i>], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt threshold group <i>group-address</i> source <i>source-address</i>]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Rate threshold applied to a multicast source to create a data MDT.
Options	<i>threshold-rate</i> —Rate in kilobytes per second (Kbps) to apply to source. Range: 10 Kbps through 1 Gbps (1,000,000 Kbps) Default: 10 Kbps
Usage Guidelines	See “Configuring the Data MDT Threshold Parameters” on page 122.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

source

Syntax	<code>source source-address { rate threshold-rate; }</code>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt threshold group <i>group-address</i>], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt threshold group <i>group-address</i>]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Unicast address or prefix of the source of multicast information.
Options	<i>source-address</i> —Explicit unicast address of multicast source. The remaining statement is explained separately.
Usage Guidelines	See “Configuring the Data MDT Group Range” on page 122.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

threshold

Syntax	<pre>threshold { group <i>group-address</i> { source <i>source-address</i> { rate <i>threshold-rate</i>; } } }</pre>
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Establish threshold limits for a multicast group and source. A multicast group can have more than one source of traffic.
Options	The remaining statements are explained separately.
Usage Guidelines	See “Configuring the Data MDT Threshold Parameters” on page 122.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

tunnel-limit

Syntax	tunnel-limit <i>limit</i> ;
Hierarchy Level	[edit logical-routers <i>logical-router-name</i> routing-instances <i>routing-instance-name</i> protocols pim mdt], [edit routing-instances <i>routing-instance-name</i> protocols pim mdt]
Release Information	Statement introduced before JUNOS Release 7.4.
Description	Limit the number of data MDTs created in this VRF instance. If the limit is 0, then no data MDTs are created for this VRF instance.
Options	<i>limit</i> —Maximum number of data MDTs for this VRF instance. Range: 0 through 1024 Default: 0 (No data MDTs are created for this VRF instance.)
Usage Guidelines	See “Configuring the Data MDT Limit” on page 123.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.