
Threat Management Service Commands

- [Card Commands on page 795](#)
- [MDA Commands on page 796](#)
- [Threat Management Service Interface Commands on page 797](#)
- [Policy Commands on page 801](#)

Card Commands

card

Syntax	<code>card slot-number</code> <code>no card slot-number</code> <code>card slot-number</code>
Context	config
Description	<p>This mandatory command enables access to the chassis card Input/Output Control Forwarding Module (IOM/CFM), slot, MCM and MDA CLI context.</p> <p>The no form of this command removes the card from the configuration. All associated ports, services, and MDAs must be shutdown.</p>
Default	No cards are configured.
Parameters	<p><i>slot-number</i> — The slot number of the card in the chassis.</p> <p>Values 1 — 10 depending on chassis model.</p> <p>SR-12: <i>slot-number</i> = 1 — 10</p>

MDA Commands

mda

Syntax	mda <i>mda-slot</i> no mda <i>mda-slot</i>
Context	config>card
Description	This mandatory command enables access to a card's MDA CLI context to configure MDAs.
Default	No MDA slots are configured by default.
Parameters	<i>mda-slot</i> — The MDA slot number to be configured. Slots are numbered 1 and 2. On vertically oriented slots, the top MDA slot is number 1, and the bottom MDA slot is number 2. On horizontally oriented slots, the left MDA is number 1, and the right MDA slot is number 2. For 7750 SR-c12/4 systems, MDAs may not be provisioned before MCMs are configured for the same slot. MCMs are not required for CMA provisioning.
Values	1, 2

mda-type

Syntax	mda-type <i>mda-type</i> no mda-type
Context	config>card>mda
Description	This mandatory command provisions a specific MDA type to the device configuration for the slot. The MDA can be preprovisioned but an MDA must be provisioned before ports can be configured. Ports can be configured once the MDA is properly provisioned. The no form of this command deletes the MDA from the configuration. The MDA must be administratively shut down before it can be deleted from the configuration.
Default	No MDA/CMA types are configured for any slots by default.
Parameters	<i>mda-type</i> — The type of MDA selected for the slot position.
Values	isa-tms

Threat Management Service Interface Commands

ies

Syntax	ies <i>service-id</i> customer <i>customer-id</i> [vpn <i>vpn-id</i>] [create] no ies <i>service-id</i>
Context	config>service
Description	<p>This command creates or edits an IES service instance.</p> <p>The ies command is used to create or maintain an Internet Enhanced Service (IES). If the <i>service-id</i> does not exist, a context for the service is created. If the <i>service-id</i> exists, the context for editing the service is entered.</p> <p>IES services allow the creation of customer facing IP interfaces in the same routing instance used for service network core routing connectivity. IES services require that the IP addressing scheme used by the subscriber must be unique between it and other addressing schemes used by the provider and potentially the entire Internet.</p> <p>While IES is part of the routing domain, the usable IP address space may be limited. This allows a portion of the service provider address space to be set aside for service IP provisioning, becoming administered by a separate but subordinate address authority. This feature is defined using the config router service-prefix command.</p> <p>IP interfaces defined within the context of an IES service ID must have a SAP created as the access point to the subscriber network. This allows a combination of bridging and IP routing for redundancy purposes.</p> <p>When a service is created, the customer keyword and <i>customer-id</i> must be specified and associates the service with a customer. The <i>customer-id</i> must already exist having been created using the customer command in the service context. Once a service has been created with a customer association, it is not possible to edit the customer association. The service must be deleted and recreated with a new customer association.</p> <p>Once a service is created, the use of the customer <i>customer-id</i> is optional for navigating into the service configuration context. Attempting to edit a service with the incorrect <i>customer-id</i> specified will result in an error.</p> <p>Multiple IES services are created to separate customer owned IP interfaces. More than one IES service may be created for a single customer ID. More than one IP interface may be created within a single IES service ID. All IP interfaces created within an IES service ID belongs to the same customer.</p> <p>By default, no IES service instances exist until they are explicitly created.</p> <p>The no form of this command deletes the IES service instance with the specified <i>service-id</i>. The service cannot be deleted until all the IP interfaces defined within the service ID have been shutdown and deleted.</p>
Parameters	<i>service-id</i> — The unique service identification number or string identifying the service in the service domain. This ID must be unique to this service and may not be used for any other service of any type. The <i>service-id</i> must be the same number used for every 7750 SR, 7450 ESS and 7710 SR on which this service is defined.

Threat Management Service Interface Commands

Values *service-id:* 1 — 2147483648
 svc-name: 64 characters maximum

customer *customer-id* — Specifies the customer ID number to be associated with the service. This parameter is required on service creation and optional for service editing or deleting.

Values 1 — 2147483647

vpn *vpn-id* — Specifies the VPN ID number which allows you to identify virtual private networks (VPNs) by a VPN identification number.

Values 1 — 2147483647

Default null (0)

tms-interface

Syntax **tms-interface** *interface-name* [**create**] [**off-ramp-vprn** *off-ramp-svc*] [**mgmt-vprn** *mgmt-svc*]
 no tms-interface *interface-name*

Context config>service>vprn

Description This command configure a Threat Management Service interface.
 The **no** form of the command removes the interface name from the configuration.

Parameters *interface-name* — Specifies the interface name up to 22 characters in length.
 create — Keyword used to create the interface name. The **create** keyword requirement can be enabled/disabled in the **environment>create** context.
 off-ramp-vprn *off-ramp-svc* — Identifies the off-ramp VPRN name or number.
 mgmt-vprn *mgmt-svc* — Identifies the management VPRN name or number.

address

Syntax **address** {*ip-address/mask*|*ip-address netmask*}
 no address

Context config>service>vprn>tms-if

Description This command assigns an IP address/IP subnet/broadcast address to the TMS instance for communications between Arbor CP collectors/managers and the TMS instance operating within the Service Router.
 The **no** form of the command removes the IP address information from the interface configuration.

Parameters *ip-address/mask* *ip-address netmask*
 Specifies IP address information.

Values	<ip-address[/mask]>	ip-address	a.b.c.d
	mask	32	
	<netmask>	a.b.c.d	(all 1 bits)

description

Syntax **description** *long-description-string*
no description

Context config>service>vprn>tms-if

Description This command configures a description for the interface.
 The **no** form of the command removes the description from the interface configuration.

ipv6

Syntax [**no**] **ipv6**

Context config>service>vprn>tms-if

Description This command configures IPv6 for a threat-management service interface.
 The **no** form of the command removes the IP address information from the interface configuration.

password

Syntax **password** [*password*]
no password

Context config>service>vprn>tms-if

Description This command configures a password for the user.
 The **no** form of the command removes the password.

Parameters *password* — Specifies the password for the TMS configuration.

Values <password>key1<delim>value1 key2<delim>value2 ...
 <delim> is one of the following:
 '=' value is unencrypted and remain unencrypted
 '!' value is unencrypted and to be encrypted
 '%' value is encrypted and remain encrypted

port

Syntax	port <i>mda-id</i> no port						
Context	config>service>vprn>tms-if						
Description	This command specifies a chassis slot and MDA to bind the interface to a physical port. The no form of the command removes the MDA ID from the interface configuration.						
Parameters	<i>mda-id</i> — Specifies the chassis slot and MDA.						
Values	<table><tr><td><slot>/<mda></td><td>slot</td><td>[1..10]</td></tr><tr><td></td><td>mda</td><td>[1..2]</td></tr></table>	<slot>/<mda>	slot	[1..10]		mda	[1..2]
<slot>/<mda>	slot	[1..10]					
	mda	[1..2]					

Policy Commands

protocol

Syntax	protocol { <i>protocol</i> } [all instance <i>instance</i>] no protocol
Context	config>router>policy-options>policy-statement>entry>from
Description	This command configures a routing protocol as a match criterion for a route policy statement entry. This command is used for both import and export policies depending how it is used. If no protocol criterion is specified, any protocol is considered a match. The no form of the command removes the protocol match criterion.
Default	no protocol — Matches any protocol.
Parameters	protocol — The protocol name to match on. Values direct, static, bgp, isis, ospf, rip, aggregate, bgp-vpn, igmp, pim, ospf3, ldp, sub- mgmt, mld, managed, vpn-leak, tms, nat instance — The OSPF or IS-IS instance. Values 1 — 31 all — OSPF- or ISIS-only keyword.

