Yang Spec: t600-1.1

clientv4

dhcpv4 client portion

Attril	Attribute		RW	Туре	Mandatory	Default	Description
fı	fujitsu-dhcp:dhcpClientStatus		RW	container			
	fuj	itsu-dhcp:client-if	R-	list			Key: ifName
		fujitsu-dhcp:ifName	R-	string	X		Interface name which has DHCP Address
		fujitsu-dhcp:clientIpAddr	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Specify the IP address obtained from DHCP server on the interface
		fujitsu-dhcp:dnsServerIpAddr	R-	list of			Specify the DNS server IP address obtained from DHCP server on the interface

clientv4 - Continued

Attrib			RW	Туре	Mandatory	Default	Description
		fujitsu-dhcp:leaseTime	R-	yang:timeticks	X		The timeticks type represents a non-negative integer that
							represents the time, modulo 2^32 (4294967296 decimal), in
							hundredths of a second between two epochs. When a schema
							node is defined that uses this type, the description of
							the schema node identifies both of the reference epochs.
							In the value set and its semantics, this type is equivalent
							to the TimeTicks type of the SMIv2.
							Type: uint32
							Lease time for DHCPv4 address
		fujitsu-dhcp:client-identifier	R-	string	X		DHCP client identifier sent in the DHCP messages
fuj	itsu-	dhcp:client-if	RW	list			Key: ifName
							A client may have several
							interfaces, it is more reasonable to
							configure and manage parameters on
							the interface-level. The list defines
							specific client interfaces and their
							data. Different interfaces are distinguished
							by the key which is a configurable string
							value.
	fuji	itsu-dhcp:ifName	RW	string	X		Pattern: ip-(1 200)/0/0/(LCN1 LCN2 LCN)
							Specify the interface name that dhcp client configured on
	fuji	itsu-dhcp:enable	RW	boolean		true	Enable or disable dhcp client function

clientv6

dhcpv6 client portion

Attribute				RW	Туре	Mandatory	Default	Description
	fujitsu-dhcpv6:dhcpv6ClientStatus			RW	container			
	fujitsu-dhcpv6:client-if		R-	list			Key: if-name	
		fujitsu-	dhcpv6:if-name	R-	string	X		interface name
		fujitsu-	dhcpv6:identity-associations	R-	container			IA is a construct through
								which a server and a client can identify,
								group, and manage a set of related IPv6
								addresses. The key of the list is a
								4-byte number IAID defined in [RFC3315].
		fuj	itsu-dhcpv6:identity-association	R-	list			Key: iaid
								IA
			fujitsu-dhcpv6:iaid	R-	uint32	X		IAID
			fujitsu-dhcpv6:ia-type	R-	string	X		IA type
			fujitsu-dhcpv6:ipv6-addr	R-	list of			ipv6 address
			fujitsu-dhcpv6:t1-time	R-	yang:timeticks	X		The timeticks type represents a non-negative integer that
								represents the time, modulo 2^32 (4294967296 decimal), in
								hundredths of a second between two epochs. When a schema
								node is defined that uses this type, the description of
								the schema node identifies both of the reference epochs.
								In the value set and its semantics, this type is equivalent
								to the TimeTicks type of the SMIv2.
								Type: uint32
								t1 time

clientv6 - Continued

Attr	Attribute		RW	Туре	Mandatory	Default	Description	
			fujitsu-dhcpv6:t2-time	R-	yang:timeticks	X		The timeticks type represents a non-negative integer that
								represents the time, modulo 2^32 (4294967296 decimal), in
								hundredths of a second between two epochs. When a schema
								node is defined that uses this type, the description of
								the schema node identifies both of the reference epochs.
								In the value set and its semantics, this type is equivalent
								to the TimeTicks type of the SMIv2.
								Type: uint32
								t2 time
			fujitsu-dhcpv6:preferred-lifetime	R-	yang:timeticks	X		The timeticks type represents a non-negative integer that
								represents the time, modulo 2^32 (4294967296 decimal), in
								hundredths of a second between two epochs. When a schema
								node is defined that uses this type, the description of
								the schema node identifies both of the reference epochs.
								In the value set and its semantics, this type is equivalent
								to the TimeTicks type of the SMIv2.
								Type: uint32
								preferred lifetime

clientv6 - Continued

Attı	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-dhcpv6:valid-lifetime	R-	yang:timeticks	X		The timeticks type represents a non-negative integer that
								represents the time, modulo 2^32 (4294967296 decimal), in
								hundredths of a second between two epochs. When a schema
								node is defined that uses this type, the description of
								the schema node identifies both of the reference epochs.
								In the value set and its semantics, this type is equivalent
								to the TimeTicks type of the SMIv2.
								Type: uint32
								valid lifetime
			fujitsu-dhcpv6:client-identifier	R-	string	X		DHCP client identifier sent in the DHCP messages
	fujits	su-dhcp	v6:client-if	RW	list			Key: if-name
								A client may have several
								interfaces, it is more reasonable to
								configure and manage parameters on
								the interface-level. The list defines
								specific client interfaces and their
								data. Different interfaces are distinguished
								by the key which is a configurable string
								value.
$ \ $	1	fujitsu-c	lhcpv6:if-name	RW	string	X		Pattern: ip-(1/200)/0/0/(LCN1/LCN2/LCN)
								interface name
	1	fujitsu-c	lhcpv6:enable	RW	boolean	X		whether the interface is enabled

clientv6 - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		fujitsu-dhcpv6:rapid-commit	RW	boolean	X		'1' indicates a client can
							initiate a Solicit-Reply message exchange
							by adding a Rapid Commit option in Solicit
							message. '0' means the client is not allowed
							to add a Rapid Commit option to request
							addresses in a two-message exchange
							pattern.

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notifications

dhcpv6 notification module

Attribu			RW	Туре	Mandatory	Default	Description
dhe			R-	container			dhcpv6 server event
	poo	ol-running-out	R-	container			raised when the
							address/prefix pool is going to
							run out. A threshold for utilization
							ratio of the pool has been defined in
							the server feature so that it will
							notify the administrator when the
							utilization ratio reaches the threshold,
							and such threshold is a settable
							parameter
		utilization-ratio	R-	uint16	X		utilization ratio
		duid	R-	duidtype	X		the type defined for duid
							Type: union
							Type: uint16
							Type: string
							Pattern: (([0-9a-fA-F]{2}){2,128})
							DHCP Unique
							Identifer
		serv-name	R-	string			server name
		pool-name	R-	string	X		pool name
	inv	alid-client-detected	R-	container			raised when the server
							has found a client which can be
							regarded as a potential attacker. Some
							description could also be included.

notifications - Continued

Attri	Attribute		RW	Type	Mandatory	Default	Description
		duid	R-	duidtype	X		the type defined for duid
							Type: union
							Type: uint16
							Type: string
							Pattern: (([0-9a-fA-F]{2}){2,128})
							DHCP Unique
							Identifer
		description	R-	string			description of the event
d	hcpv	6-relay-event	R-	container			dhcpv6 relay event
	to	ppo-changed	R-	container			raised when the topology
							of the relay agent is changed.
		relay-if-name	R-	string	X		relay interface name
		first-hop	R-	boolean	X		first hop

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Attribu	Attribute		Туре	Mandatory	Default	Description
	last-entity-addr	R-	inet:ipv6-address	X		The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format of IPv6 addresses uses the textual
						representation defined in Section 4 of RFC 5952. The
						canonical format for the zone index is the numerical
						format as described in Section 11.2 of RFC 4007.
						Type: string
						Pattern:
						((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}
						F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
						0-9]?[0-9])))(%[\p{N}\p{L}]+)?
						last entity address
dhe	epv6-client-event	R-	container			dhcpv6 client event
	ia-lease-event	R-	container			raised when the
						client was allocated a new IA from
						the server or it renew/rebind/release
						its current IA

Attribu	Attribute			Туре	Mandatory	Default	Description
		event-type	R-	enumeration	X		Enums:
							allocation - allocate
							rebind - rebind
							renew - renew
							release - release
							event type
		duid	R-	duidtype	X		the type defined for duid
							Type: union
							Type: uint16
							Type: string
							Pattern: (([0-9a-fA-F]{2}){2,128})
							DHCP Unique
							Identifer
		iaid	R-	uint32	X		IAID
		serv-name	R-	string			server name
		description	R-	string			description of event
	inv	alid-ia-detected	R-	container			raised when the identity
							association of the client can be proved
							to be invalid. Possible condition includes
							duplicated address, illegal address, etc.

Attribu			RW	Туре	Mandatory	Default	Description
		duid	R-	duidtype	X		the type defined for duid
							Type: union
							Type: uint16
							Type: string
							Pattern: (([0-9a-fA-F]{2}){2,128})
							DHCP Unique
							Identifer
		cli-duid	R-	uint32	X		duid of client
		iaid	R-	uint32	X		IAID
		serv-name	R-	string			server name
		description	R-	string			description of the event
	reti	ransmission-failed	R-	container			raised when the retransmission
							mechanism defined in [RFC3315] is failed.
		duid	R-	duidtype			the type defined for duid
							Type: union
							Type: uint16
							Type: string
							Pattern: (([0-9a-fA-F]{2}){2,128})
							DUID

Attribu	Attribute		Туре	Mandatory	Default	Description
	description	R-	enumeration	X		Enums:
						MRC failed - MRC failed
						MRD failed - MRD failed
						description of failure
	failed-status-turn-up	R-	container			raised when the client receives
						a message includes an unsuccessful Status Code
						option.
	duid	R-	duidtype	X		the type defined for duid
						Type: union
						Type: uint16
						Type: string
						Pattern: (([0-9a-fA-F]{2}){2,128})
						DHCP Unique
						Identifer
	status-code	R-	enumeration	X		Enums:
						1 - UnspecFail
						2 - NoAddrAvail
						3 - NoBinding
						4 - NotOnLink
						5 - UseMulticast
						employed status code

fujitsu-data-encryption File: fujitsu-data-encryption.yang Remote Procedure Calls

zeroize-data-encryption

RPC to perform zeroization of data-encryption partition

A	Attribute		RW	Туре	Mandatory	Default	Description
	out	put	R-				
		status	R-	enumeration			Enums:
							Successful
							Failed
							Indicates the rpc succeeded/failed
		status-message	R-	string			Gives a more detailed reason for failure

fujitsu-database File: fujitsu-database.yang Remote Procedure Calls

db-backup

copy running DB to user provided file to a given path

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		filename	-W	string			Length: 10255
							Path and file name is used with back-up.(xxx.DBS)
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

db-restore

Restore database

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		filename	-W	string			Length: 10255
							PATH/file name use file name.(xxx.DBS)
		sysNameCheck	-W	boolean		true	Flag to indicate if sysNameCheck is required
	out	put	R-				
		status	R-	string			Length: 4.255
							response of the command

db-activate

activate the database

[Attribute	RW	Туре	Mandatory	Default	Description
	input	-W				

fujitsu-database File: fujitsu-database.yang Remote Procedure Calls

db-activate - Continued

At	Attribute		RW	Туре	Mandatory	Default	Description
		rollBackTimer	-W	string			Pattern: (00-[2-5][0-9] 0[1-9]-[0-5][0-9] [1-9][0-9]-[0-5][0-9])-[0-5][0-9]
							RollBackTimer in hh-mm-ss (00-20-00 to 99-59-59)
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

cancel-rollback-timer

Cancel roll back timer which user provisioned as part of activate command

A	Attribute			Туре	Mandatory	Default	Description
	inp	out	-W				
		accept	-W	boolean			TRUE means rollback timer is cancelled and new load is accepted
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

db-init

Initialize the database

A	Attribute		RW	Туре	Mandatory	Default	Description
	outp	put	R-				
		status	R-	string			Length: 4255
							response of the command

factory-db-init

Initialize the database but the system will not restart. Power down the system

fujitsu-database File: fujitsu-database.yang Remote Procedure Calls

factory-db-init - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
A	Attribute		RW	Туре	Mandatory	Default	Description
	output		R-				
		status	R-	string			Length: 4255
							response of the command

db-show

retrieve database information

Ŀ	Attri	ibute		Type	Mandatory	Default	Description
	o	output I	R-				
		status F	R-	list of			Display database information

set-shelfmode

set shelf mode

At	Attribute		RW	Туре	Mandatory	Default	Description
	input -		-W				
		shelfid	-W	string			Length: 13
							Shelf ID 1 to 200.
		shelfrole	-W	string			Length: 4100
							shelf role MAIN or TRIB. MAIN must have shelf ID 1.
		reset	-W	empty			reset the shelf to shelf provision mode.
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

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fujitsu-dcnutils File: fujitsu-dcnutils.yang Remote Procedure Calls

tcpdump

Tool to capture the network traffic.

At	Attribute		RW	Туре	Mandatory	Default	Description
	inp	out	-W				
		duration	-W	int32	X		
		interface	-W	string			
		port	-W	int16			
	out	put	R-				
		status	R-	list of			

dns-cache-flush

DNS Cache cleared.

A	ttrib	oute		Туре	Mandatory	Default	Description
	οι	atput	R-				
		status	R-	list of			

dns-resolver

Configuration of the DNS resolver.

At	Attribute		Туре	Mandatory	Default	Description
	search	RW	list of			An ordered list of domains to search when resolving
						a host name.
	server	RW	list			Key: name
						List of the DNS servers that the resolver should query.
						When the resolver is invoked by a calling application, it
						sends the query to the first name server in this list. If
						no response has been received within 'timeout' seconds,
						the resolver continues with the next server in the list.
						If no response is received from any server, the resolver
						continues with the first server again. When the resolver
						has traversed the list 'attempts' times without receiving
						any response, it gives up and returns an error to the
						calling application.
						Implementations MAY limit the number of entries in this
						list.
	name	RW	string	X		An arbitrary name for the DNS server.

Att	Attribute		RW	Туре	Mandatory	Default	Description
		address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
							version neutral. The format of the textual representation
							implies the IP version. This type supports scoped addresses
							by allowing zone identifiers in the address format.
							Type: union
							Type: inet:ipv4-address
							The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Type: inet:ipv6-address
							The ipv6-address type represents an IPv6 address in full,
							mixed, shortened, and shortened-mixed notation. The IPv6
							address may include a zone index, separated by a % sign.

Attribute F		Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					The address of the DNS server.

Attribu	Attribute		Туре	Mandatory	Default	Description
	port	RW	inet:port-number		53	The port-number type represents a 16-bit port number of an
						Internet transport-layer protocol such as UDP, TCP, DCCP, or
						SCTP. Port numbers are assigned by IANA. A current list of
						all assignments is available from http://www.iana.org/>.
						Note that the port number value zero is reserved by IANA. In
						situations where the value zero does not make sense, it can
						be excluded by subtyping the port-number type.
						In the value set and its semantics, this type is equivalent
						to the InetPortNumber textual convention of the SMIv2.
						Type: uint16
						Range: 065535
						The UDP and TCP port number of the DNS server.
opt	ions	RW	container			Resolver options. The set of available options has been
						limited to those that are generally available across
						different resolver implementations and generally useful.
	timeout	RW	uint8		5	Range: 130
						The amount of time the resolver will wait for a
						response from each remote name server before
						retrying the query via a different name server.
	attempts	RW	uint8		2	Range: 15
						The number of times the resolver will send a query to
						all of its name servers before giving up and returning
						an error to the calling application.

L	Attribute		RW	Туре	Mandatory	Default	Description
		cache-age-timer	RW	uint32		86400	Range: 1max
							The number of seconds (time to live/TTL) resolved entries
							will live in the DNS cache. After timer expires, the cache
							will auto-flush stale entries. Default is 24 hours.

fujitsu-encryption-user File: fujitsu-encryption-user.yang Data

encryption-user

Table of user accounts related to data encryption

Attribute	RW	Туре	Mandatory	Default	Description
username	RW	usersecu-type:username-type	X		A username must begin with a lowercase letter. The remainder of the string
					may contain lowercase letters, numbers 0 through 9, underscores, or dashes.
					Type: string
					Length: 332
					Pattern: [a-z][a-z0-9]*
password	RW	usersecu-type:password-type			BASIC pcontent-type Password must contain at least one alphabetic and
					one non-alphabetic character:
					a) Allowed Alphabetic characters includes
					lower case alphabetic(a-z) and upper alphabetic (A-Z)
					b) Allowed Non alphabetic includes
					Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
					Password must not contain Username.
					ENHANCED pcontent-type Password must contain at least 2 characters from
					each of the following groups:
					a) Lower case alphabetic (a-z)
					b) Upper case alphabetic (A-Z)
					c) Numeric 0-9
					d) Special characters Allowed !@\$%^&*()[]~{}.+
					Password must not contain Username.
					Type: string
					Length: min128
					Pattern: [a-zA-Z0-9!@\$%\^&*()\[\]_\-~{}.+]*
					clear text password.
					crypt-password and password should not co-exist unless password is *

fujitsu-encryption-user File: fujitsu-encryption-user.yang Data

encryption-user - Continued

A	tribute	RW	Туре	Mandatory	Default	Description
	crypt-password	RW	string			encrypted password.
						crypt-password and password should not co-exist unless password is *
	group	RW	usersecu-type:group-type	X		level-1, level-2, or level-6
						Type: string
						Group defines authorization levels that control command and data access
						privileges.
						Entered group must be level-7, level-8.
						level-7 Crypto User
						level-8 Crypto Officer
	adminState	RW	usersecu-type:adminState-ty		allow	Type: enumeration
			pe			Enums:
						allow
						inhibit
						admin State of the user - allow/inhibit

fujitsu-eqpt-operations File: fujitsu-eqpt-operations.yang Remote Procedure Calls

eqpt-reset

Perform Equipment HARD/SOFT reset.

Attr	Attribute		RW	Туре	Mandatory	Default	Description
i	input -		-W				
		shelf-id	-W	string	X		shelf ID
		slot-id	-W	string			slot ID
		sub-slot-id	-W	string			sub-slot number
		port-id	-W	string			port number
		reset	-W	enumeration	X		Enums:
							HARD - Hard Reset
							SOFT - Soft Reset
							Reset Types
	outp	put	R-				
		status	R-	cmd-status			Response of command
							Type: string
							Length: 4255

led-control

LED control, The maintenance object will blink.

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	input					
		shelf-id	-W	string	X		shelf ID
		slot-id	-W	string			slot ID
		sub-slot-id	-W	string			sub-slot number
		port-id	-W	string			port number

fujitsu-eqpt-operations File: fujitsu-eqpt-operations.yang Remote Procedure Calls

led-control - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		enable	-W	led-state	X		Type: enumeration
							Enums:
							ON - LED ON
							OFF - LED OFF
							Blinking ON/OFF
	out	put	R-				
		status	R-	cmd-status			Response of command
							Type: string
							Length: 4255

lamptest

This command is used to perform LAMP Test on the NE

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		shelf-id	-W	string	X		Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							shelf ID
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
		enable	-W	led-state	X		Type: enumeration
							Enums:
							ON - LED ON
							OFF - LED OFF
							LAMP Test ON/OFF

fujitsu-eqpt-operations File: fujitsu-eqpt-operations.yang Remote Procedure Calls

lamptest - Continued

A	Attribute			Туре	Mandatory	Default	Description
	output		R-				
		status	R-	cmd-status			Response of command
							Type: string
							Length: 4255

eqpt

The top container for all equipment entities. Contains a list of shelves identified by the 'shelfId'

Attrib	Attribute		RW	Туре	Mandatory	Default	Description
sh	shelf		RW	list			Key: shelfId
	shelf	Id	RW	string	X		Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
							A unique identifier for the shelf.
	descr	ription	RW	string			Length: min1024
							shelf information
	oper-	status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	6	entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	admin-status		RW	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.

Attribu	te	RW	Туре	Mandatory	Default	Description
	entity-states:admin-status	R-	admin-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						testing - In some test mode.
						The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	type	RW	leafref	X		Note: leafref
						Path: /data:shelfData/shelfType
						The shelf type as defined in 'shelfData'.
	shelf-mode	RW	leafref	X		Note: leafref
						Path: /data:shelfData[data:shelfType=current()//type]/shelfMode
						Shelf Mode: NORMAL Or REGEN
	shelf-role	RW	leafref	X		Note: leafref
						Path: /data:shelfData[data:shelfType=current()//type]/shelfRole
						CL ICD L MADIO TRID
	d D I	DW				Shelf Role: MAIN Or TRIB
	supportingRack	RW	container			information about the rack/bay where the shelf is mounted.
						'rackId' and 'shelfLocation' are attributes that allow
						a netmork management system to associate the shelf with a
	analitat	DW	atuin a			physical location
	rackId	RW	string			descriptive name to associate the shelf to a rack
	shelfLocation	RW	string			location of the shelf within a rack
	pid.s.N	R-	container			Physical inventory information of the shelf
	vendorName	R-	string			A unique string describing the vendor name.
	unitName	R-	string			A unique string describing the type of unit.

Attribute			RW	Туре	Mandatory	Default	Description
		vendorUnitCode	R-	string			Vendor unit code.
		IssueNumber	R-	string			HW Issue #
		fcNumber	R-	string			FC Number
		clei	R-	string			Common Language Equipment Identification
		dom	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
		serialNumber	R-	string			Unit serial number
		usi	R-	string			Unique Serial Identifier which includes the manufacturing location code
	fus	e	RW	uint8		25	Range: 1545
	sup	ply-current	R-	decimal64			Fraction digits: 1
							Range: 0max
	sup	ply-voltage	R-	decimal64			Fraction digits: 1
							Range: 0max
	cur	rentDrawFeed	R-	decimal64			Fraction digits: 1
							Range: 0max
	slo	t	RW	list			Key: slotID
							A list of slots per shelf identified by the 'slotID'
		slotID	RW	leafref	X		Note: leafref
							Path: /data:shelfData[data:shelfType=current()//./type]/slotTypes/slots/slotID
							A unique slot ID
H		description	RW	string			Length: min1024
							slot information
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

Attribute			Туре	Mandatory	Default	Description
	entity-states:oper-status	R-	oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
						The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.
	admin-status	RW	admin-status		down	The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	entity-states:admin-status	R-	admin-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						testing - In some test mode.
						The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.

Attribu	Attribute			RW	Туре	Mandatory	Default	Description
	cardType			RW	leafref	X		Note: leafref
								Path: /data:cardData/cardType
								the card type as defined in 'cardData'
	(cardN	Iode	RW	leafref			Note: leafref
								Path:
								/data:cardData[data:cardType=current()//cardType]/supportingEquipmentMode/
								cardMode
								the card mode as defined in 'cardData'
	I	pi		R-	container			Physical inventory information of the slot
		V	endorName	R-	string			A unique string describing the vendor name.
		u	nitName	R-	string			A unique string describing the type of unit.
		V	endorUnitCode	R-	string			Vendor unit code.
		Is	sueNumber	R-	string			HW Issue #
		fo	Number	R-	string			FC Number
		cl	ei	R-	string			Common Language Equipment Identification
		d	om	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
		se	erialNumber	R-	string			Unit serial number
		u	si	R-	string			Unique Serial Identifier which includes the manufacturing location code
	S	statist	ics	R-	container			Shelf/Slot level system statistics
		cj	pu-statistics	R-	container			Shelf/Slot level CPU statistics
			user-type	R-	string			CPU user type
			instant	R-	decimal64			Fraction digits: 2
								Current CPU usage in %
			avg	R-	decimal64			Fraction digits: 2
								Average CPU usage in %

Attri	Attribute			RW	Туре	Mandatory	Default	Description
			min	R-	decimal64			Fraction digits: 2
								Minimum CPU usage in %
			max	R-	decimal64			Fraction digits: 2
								Maximum CPU usage in %
			interval	R-	uint64			CPU statistics computed interval in nanoseconds
			memory-statistics	R-	container			Shelf/slot level memory statistics
			physical	R-	uint64			Total installed physical memory in MegaBytes
			available	R-	uint64			Total available memory for use by applications in MB
			utilized	R-	uint64			Total utilized memory by applications in MegaBytes
		subs	slot	RW	list			Key: subslotID
		<u></u>						A list of subslots per slot identified by the 'subslotNumber'
			subslotID	RW	leafref	X		Note: leafref
								Path:
								/data:cardData[data:cardType=current()///cardType]/supportedSubslot/subslotI
								D
								A unique subslot number
			description	RW	string			Length: min1024
								subslot information
			oper-status	R-	oper-status			The current operational state of the interface.
								This leaf has the same semantics as ifOperStatus.

Attribute		Туре	Mandatory	Default	Description
entity-states:oper-status	R-	oper-status			Type: enumeration
					Enums:
					up - Ready to pass packets.
					down - The interface does not pass any packets.
					testing - In some test mode. No operational packets can
					be passed.
					unknown - Status cannot be determined for some reason.
					dormant - Waiting for some external event.
					not-present - Some component (typically hardware) is missing.
					lower-layer-down - Down due to state of lower-layer interface(s).
					The current operational state of the interface.
					This leaf has the same semantics as ifOperStatus.
admin-status	RW	admin-status		down	The desired state of the interface.
					This leaf has the same read semantics as ifAdminStatus.
entity-states:admin-status	R-	admin-status			Type: enumeration
					Enums:
					up - Ready to pass packets.
					down - Not ready to pass packets and not in some test mode.
					testing - In some test mode.
					The desired state of the interface.
					This leaf has the same read semantics as ifAdminStatus.
pi	R-	container			Physical inventory information of the subslot
vendorName	R-	string			A unique string describing the vendor name.
unitName	R-	string			A unique string describing the type of unit.

Attribute		RW	Туре	Mandatory	Default	Description	
		vendorUnitCode	R-	string			Vendor unit code.
		IssueNumber	R-	string			HW Issue #
		fcNumber	R-	string			FC Number
		clei	R-	string			Common Language Equipment Identification
		dom	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
		serialNumber	R-	string			Unit serial number
		usi	R-	string			Unique Serial Identifier which includes the manufacturing location code
	p	ort	RW	list			Key: portID
							A list of ports per subslot identified by the 'portID'
		portID	RW	leafref	X		Note: leafref
							Path:
							/data:cardData[data:cardType=current()///cardType]/supportedSubslot[data:s
							ubslotID=current()///subslotID]/supportedPluggableInterfaceClass/port/portID
							A unique port ID.
		description	RW	string			Length: min1024
							circuit-name/customer-name of the port.
		connection-type	RW	string		not-applicable	Length: min1024
							If Feature: fiber-connection-type
							Attribute to provide extra information to interfacing parties such as SDN
							controllers.
		pg-name	RW	string			If Feature: protection-group
							Protection group name.
		pluggableInterfaceType	RW	leafref			Note: leafref
							Path: /data:pluggableData/pluggableInterface/pluggableInterfaceType
							Interface type of the pluggable/fixed unit.

Attribu	ıte		RW	Туре	Mandatory	Default	Description
		num-lanes	RW	leafref		4	Note: leafref
							Path:
							/data:pluggableData/pluggableInterface[data:pluggableInterfaceType=current()//
							pluggableInterfaceType]/numLanes
							Num of lanes for the port, auto create num-lanes of subports
							when num-lanes > 1.
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		admin-status	RW	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.

Attribute	RW	Туре	Mandatory	Default	Description
entity-states:admin-status	R-	admin-status			Type: enumeration
					Enums:
					up - Ready to pass packets.
					down - Not ready to pass packets and not in some test mode.
					testing - In some test mode.
					The desired state of the interface.
					This leaf has the same read semantics as ifAdminStatus.
pi	R-	container			
vendorName	R-	string			A unique string describing the vendor name.
unitName	R-	string			A unique string describing the type of unit.
vendorUnitCode	R-	string			Vendor unit code.
IssueNumber	R-	string			HW Issue #
fcNumber	R-	string			FC Number
clei	R-	string			Common Language Equipment Identification
dom	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
serialNumber	R-	string			Unit serial number
usi	R-	string			Unique Serial Identifier which includes the manufacturing location code
is-tunable	R-	boolean			Describes if the port supports tunable transmitter technology
transmitter-wavelength	R-	decimal64			Fraction digits: 5
					Transmitter wavelength
laser-first-frequency	R-	decimal64			Fraction digits: 5
					Laser first frequency in THz
laser-last-frequency	R-	decimal64			Fraction digits: 5
					Laser last frequency in THz

Attribute			RW	Туре	Mandatory	Default	Description
	las	ser-min-grid-space	R-	decimal64			Fraction digits: 5
							Laser's minimum supporting grid spacing (GHz*10), i.e., in units of 0.1 GHz
	pm		RW	container			Performance Monitoring Info
	pn	n-threshold	RW	list			Key: pm-name, pm-location, pm-direction
							List of PMs thresholds for the parent entity.
		pm-name	RW	pm-identity	X		
		pm-location	RW	pm-location	X		
		pm-direction	RW	pm-direction	X		
		pm-type	RW	enumeration			Enums:
							metered - Metered PM type
		pm-th-metered	RW	container			
		pm-th-type	RW	enumeration		auto	Enums:
							auto - HW autoprovisioned
							user - User-provisioned
		pm-th-low	RW	decimal64	X		Fraction digits: 2
		pm-th-high	RW	decimal64	X		Fraction digits: 2
		pmtypedefs:pm-th-metered	R-	container			
		pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
							auto - HW autoprovisioned
							user - User-provisioned

Attr	bute					RW	Туре	Mandatory	Default	Description
					pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
					pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
			p	mtype	edefs:pm-threshold	R-	list			Key: pm-name, pm-location, pm-direction
										List of PMs thresholds for the parent entity.
				pn	ntypedefs:pm-name	R-	pm-identity			PM name
										Type: identityref
										Base: performance-monitor-identity

Attrib	ute				RW	Type	Mandatory	Default	Description
				pmtypedefs:pm-location	R-	pm-location			PM location
									Type: enumeration
									Enums:
									nearEnd - Near-end location
									farEnd - Far-end location
				pmtypedefs:pm-direction	R-	pm-direction			PM direction
									Type: enumeration
									Enums:
									transmit - Transmit direction
									receive - Receive direction
									na - Direction not applicable
				pmtypedefs:pm-type	R-	pm-type			PM type
									Type: enumeration
									Enums:
									cumulative - Cumulative PM type
									metered - Metered PM type
									binned - Binned PM type
				pmtypedefs:pm-th-metered	R-	container			
				pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
									auto - HW autoprovisioned
									user - User-provisioned

Attribut	te				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
				pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
			pn	ntypedefs:pm-th-binned	R-	container			
				pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period

Attril	bute						RW	Туре	Mandatory	Default	Description
						pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
											Enums:
											cumulative - cumulative
											15-min - 15 minutes period
											1-day - 1 day period
											1-week - 1 week period
											1-month - 1 month period
						pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
											Type: uint64
											Type: int64
											Type: decimal64
											Fraction digits: 2
											Type: decimal64
											Fraction digits: 17
			pn	n-ope	r-range)	R-	list			Key: pm-name, pm-location, pm-direction
			\perp	pm-	-name		R-	pm-identity	X		
			\perp		-locatio		R-	pm-location	X		
		_	\perp	+	-direct		R-	pm-direction	X		
				+-	-alarm		R-	pm-data-type			PM Alarm Detect Low
			\perp		-alarm		R-	pm-data-type			PM Alarm Detect High
			\perp	+		ility-min	R-	pm-data-type			PM Operating Range Low
	\perp		\perp	+		ility-max	R-	pm-data-type			PM Operating Range High
			\perp			ng-low	R-	pm-data-type			PM Threshold Low
		_	\perp	+		ng-high	R-	pm-data-type			PM Threshold High
				pm	typede	fs:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction

At	ribut	e			RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-name	R-	pm-identity			PM name
									Type: identityref
									Base: performance-monitor-identity
				pmtypedefs:pm-location	R-	pm-location			PM location
									Type: enumeration
									Enums:
									nearEnd - Near-end location
									farEnd - Far-end location
				pmtypedefs:pm-direction	R-	pm-direction			PM direction
									Type: enumeration
									Enums:
									transmit - Transmit direction
									receive - Receive direction
									na - Direction not applicable
				pmtypedefs:pm-alarm-low	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Alarm Detect Low

Attrib	ute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-alarm-high	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Alarm Detect High
				pmtypedefs:pm-capability-min	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Operating Range Low

Attrib	bute	e				RW	Туре	Mandatory	Default	Description
					pmtypedefs:pm-capability-max	R-	pm-data-type			Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
										PM Operating Range High
					pmtypedefs:pm-warning-low	R-	pm-data-type			Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
										PM Threshold Low

Attribu	ıte			RW	Type	Mandatory	Default	Description
			pmtypedefs:pm-warning-high	R-	pm-data-type			Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
								PM Threshold High
		remoteSrcP	eerPort-id	RW	string			The port ID of the remote source port to be associated with local
								destination port. Shall be specified in the format of
								<system name="" sid="">/<shelf>/<slot>/<subslot>/<port>.</port></subslot></slot></shelf></system>
		remoteDest	PeerPort-id	RW	string			The port ID of the remote destination port to be associated with
								local source port. Shall be specified in the format of
								<system name="" sid="">/<shelf>/<slot>/<subslot>/<port>.</port></subslot></slot></shelf></system>
		subport		RW	list			Key: subPortID
								List of subport identified by subPortID.
		subPor	tID	RW	string	X		subport identifier
		descrip	tion	RW	string			Length: min1024
								subport information
		xconRe	ef	RW	list			Key: xconID
		xce	onID	RW	string	X		och connection id
		src	Och	RW	string			src och aid
		dst	Och	RW	string			dst och aid

Attr	ibute						RW	Туре	Mandatory	Default	Description
			pm				RW	container			Performance Monitoring Info
				pm-	thresh	nold	RW	list			Key: pm-name, pm-location, pm-direction
											List of PMs thresholds for the parent entity.
					pm-n	ame	RW	pm-identity	X		
Ш						ocation	RW	pm-location	X		
					pm-d	irection	RW	pm-direction	X		
					pm-t	ype	RW	enumeration			Enums:
\square											metered - Metered PM type
		_			pm-tl	n-metered	RW	container			
					I	om-th-type	RW	enumeration		auto	Enums:
											auto - HW autoprovisioned
											user - User-provisioned
\square					F	om-th-low	RW	decimal64	X		Fraction digits: 2
Ш						om-th-high	RW	decimal64	X		Fraction digits: 2
Ш					F	omtypedefs:pm-th-metered	R-	container			
						pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
											auto - HW autoprovisioned
\square											user - User-provisioned
						pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
											Type: uint64
											Type: int64
											Type: decimal64
											Fraction digits: 2
											Type: decimal64
											Fraction digits: 17

Attri	Attribute									RW	Туре	Mandatory	Default	Description
									pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
														Type: uint64
														Type: int64
														Type: decimal64
														Fraction digits: 2
														Type: decimal64
														Fraction digits: 17
							pmty	yped	lefs:pm-threshold	R-	list			Key: pm-name, pm-location, pm-direction
														List of PMs thresholds for the parent entity.
							1	pmt	ypedefs:pm-name	R-	pm-identity			PM name
														Type: identityref
														Base: performance-monitor-identity
							1	pmt	ypedefs:pm-location	R-	pm-location			PM location
														Type: enumeration
														Enums:
														nearEnd - Near-end location
														farEnd - Far-end location

Attrib	Attribute							RW	Type	Mandatory	Default	Description
							pmtypedefs:pm-direction	R-	pm-direction			PM direction
												Type: enumeration
												Enums:
												transmit - Transmit direction
												receive - Receive direction
												na - Direction not applicable
							pmtypedefs:pm-type	R-	pm-type			PM type
												Type: enumeration
												Enums:
												cumulative - Cumulative PM type
												metered - Metered PM type
												binned - Binned PM type
							pmtypedefs:pm-th-metered	R-	container			
							pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
												auto - HW autoprovisioned
												user - User-provisioned
							pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
												Type: uint64
												Type: int64
												Type: decimal64
												Fraction digits: 2
												Type: decimal64
												Fraction digits: 17

Attrib	oute							RW	Туре	Mandatory	Default	Description
						pmt	ypedefs:pm-th-high	R-	pm-data-type	X		Type: union
												Type: uint64
												Type: int64
												Type: decimal64
												Fraction digits: 2
												Type: decimal64
												Fraction digits: 17
					pmt	yped	lefs:pm-th-binned	R-	container			
						pmt	ypedefs:pm-time-periods	R-	list			Key: pm-time-period
							pmtypedefs:pm-time-pe	R-	pm-time-period			Type: enumeration
							riod					Enums:
												cumulative - cumulative
												15-min - 15 minutes period
												1-day - 1 day period
												1-week - 1 week period
												1-month - 1 month period
\Box		 	 									

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
pm-name	R-	pm-identity	X		
pm-location	R-	pm-location	X		
pm-direction	R-	pm-direction	X		
pm-alarm-low	R-	pm-data-type			PM Alarm Detect Low
pm-alarm-high	R-	pm-data-type			PM Alarm Detect High
pm-capability-min	R-	pm-data-type			PM Operating Range Low
pm-capability-max	R-	pm-data-type			PM Operating Range High
pm-warning-low	R-	pm-data-type			PM Threshold Low
pm-warning-high	R-	pm-data-type			PM Threshold High
pmtypedefs:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
pmtypedefs:pm-name	R-	pm-identity			PM name
					Type: identityref
					Base: performance-monitor-identity

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-location	R-	pm-location			PM location
					Type: enumeration
					Enums:
					nearEnd - Near-end location
					farEnd - Far-end location
pmtypedefs:pm-direction	R-	pm-direction			PM direction
					Type: enumeration
					Enums:
					transmit - Transmit direction
					receive - Receive direction
					na - Direction not applicable
pmtypedefs:pm-alarm-low	R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM Alarm Detect Low

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-alarm-high	R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM Alarm Detect High
pmtypedefs:pm-capability-min	R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM Operating Range Low

Attı	Attribute						RW	Туре	Mandatory	Default	Description	
							pmtypedefs:pm-capability-max	R-	pm-data-type			Type: union
												Type: uint64
												Type: int64
												Type: decimal64
												Fraction digits: 2
												Type: decimal64
												Fraction digits: 17
												PM Operating Range High
							pmtypedefs:pm-warning-low	R-	pm-data-type			Type: union
												Type: uint64
												Type: int64
												Type: decimal64
												Fraction digits: 2
												Type: decimal64
												Fraction digits: 17
												PM Threshold Low

A	Attribute								RW	Type	Mandatory	Default	Description
								pmtypedefs:pm-warning-high	R-	pm-data-type			Type: union
													Type: uint64
													Type: int64
													- VF
													Type: decimal64
													Fraction digits: 2
													Type: decimal64
													Fraction digits: 17
L													PM Threshold High
					C	per-sta	itus		R-	oper-status			The current operational state of the interface.
													This leaf has the same semantics as ifOperStatus.

Attribute			RW	Туре	Mandatory	Default	Description
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		admin-status	RW	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		entity-states:admin-status	R-	admin-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
	sys:a		RW	ains-state		disabled	
		stimer	RW	vstimer			
	sys:A	CTVST	R-	string			

Attrib	ute			RW	Туре	Mandatory	Default	Description
			fujitsu-mac-addr:mac-address-max	R-	yang:mac-address		00:00:00:00:00	The mac-address type represents an IEEE 802 MAC address.
							:00	The canonical representation uses lowercase characters.
								In the value set and its semantics, this type is equivalent
								to the MacAddress textual convention of the SMIv2.
								Type: string
								Pattern: [0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}
								Maximum value of MAC-address
			fujitsu-mac-addr:mac-address-min	R-	yang:mac-address		00:00:00:00:00	The mac-address type represents an IEEE 802 MAC address.
							:00	The canonical representation uses lowercase characters.
								In the value set and its semantics, this type is equivalent
								to the MacAddress textual convention of the SMIv2.
								Type: string
								Pattern: [0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}
								Minimum value of MAC-address
		fuji	tsu-mac-addr:mac-address-max	R-	yang:mac-address		00:00:00:00:00	The mac-address type represents an IEEE 802 MAC address.
							:00	The canonical representation uses lowercase characters.
								In the value set and its semantics, this type is equivalent
								to the MacAddress textual convention of the SMIv2.
								Type: string
								Pattern: [0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}
								Maximum value of MAC-address

eqpt - Continued

Attı	ibute		RW	Туре	Mandatory	Default	Description
		fujitsu-mac-addr:mac-address-min	R-	yang:mac-address		00:00:00:00:00	The mac-address type represents an IEEE 802 MAC address.
						:00	The canonical representation uses lowercase characters.
							In the value set and its semantics, this type is equivalent
							to the MacAddress textual convention of the SMIv2.
							Type: string
							Pattern: [0-9a-fA-F]{2}(:[0-9a-fA-F]{2}){5}
							Minimum value of MAC-address
		pwrdraw:powerDraw	R-	uint16			powerDraw is defined as 'PowerDraw'

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fujitsu-factory File: fujitsu-factory.yang Remote Procedure Calls

debug-port

Enables SSH Debug Port

A	ttribu	nte	RW	Туре	Mandatory	Default	Description
	inp	out	-W				
		status	-W	debugPortType			Reset Types
							Type: enumeration
							Enums:
							enable - Enable SSH Debug Port
							disable - Disable SSH Debug Port
							enable means to true on the debug port
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

debug-port-state

debug-port state

A	Attribute		RW	Туре	Mandatory	Default	Description
	οι	atput	R-				
		port-status	R-	string			Length: 4255
							response of the command

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transfer

File transfer using FTP/SFTP

Attrib	oute	e		RW	Туре	Mandatory	Default	Description
in	input -		-W					
	t	trans-m	ethod	-W	choice	X		
		sftp	,	-W	case			
			sftp	-W	empty			Transfer mode is SFTP.
		ftp		-W	case			
			ftp	-W	empty			Transfer mode is FTP.
	á	action		-W	enumeration	X		Enums:
								upload - Specify the upload action. The server sends
								the file identified by the local-file-path
								to the remote-file-path.
								download - Specify the download action. The server retrieves
								the file identified by the remote-file-path
								to the local-file-path.
								Type of action - download/upload.
	1	local-fil	le-path	-W	string	X		Local file path.
								Ex: /var/shared/example.txt

transfer - Continued

Att			RW	Туре	Mandatory	Default	Description
		remote-file-path	-W	inet:uri			The uri type represents a Uniform Resource Identifier
							(URI) as defined by STD 66.
							Objects using the uri type MUST be in US-ASCII encoding,
							and MUST be normalized as described by RFC 3986 Sections
							6.2.1, 6.2.2.1, and 6.2.2.2. All unnecessary
							percent-encoding is removed, and all case-insensitive
							characters are set to lowercase except for hexadecimal
							digits, which are normalized to uppercase as described in
							Section 6.2.2.1.
							The purpose of this normalization is to help provide
							unique URIs. Note that this normalization is not
							sufficient to provide uniqueness. Two URIs that are
							textually distinct after this normalization may still be
							equivalent.
							Objects using the uri type may restrict the schemes that
							they permit. For example, 'data:' and 'urn:' schemes
							might not be appropriate.
							A zero-length URI is not a valid URI. This can be used to
							express 'URI absent' where required.
							In the value set and its semantics, this type is equivalent
							to the Uri SMIv2 textual convention defined in RFC 5017.
							Type: string

transfer - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
							A URI for the remote file path. This can be a URI of
							type FTP/SFTP, depending on the protocol
							which is being used for the transfer.
							Format://user[:password]@host[:port]/path.
							Ex:
							IPv4: //test:verify@167.254.211.116:21/home/user/sample
							IPv6: //test:verify@[2001:db8:0:1::10]:22/home/user/sample
Г	out	tput	R-				
Γ		status	R-	string			Status of the file transfer operation

transfer-encryption-log

sftp encryption log file to a remote destination

A	Attribute		Туре	Mandatory	Default	Description
	input	-W				

transfer-encryption-log - Continued

A			RW	Туре	Mandatory	Default	Description
		destination	-W	inet:uri			The uri type represents a Uniform Resource Identifier
							(URI) as defined by STD 66.
							Objects using the uri type MUST be in US-ASCII encoding,
							and MUST be normalized as described by RFC 3986 Sections
							6.2.1, 6.2.2.1, and 6.2.2.2. All unnecessary
							percent-encoding is removed, and all case-insensitive
							characters are set to lowercase except for hexadecimal
							digits, which are normalized to uppercase as described in
							Section 6.2.2.1.
							The purpose of this normalization is to help provide
							unique URIs. Note that this normalization is not
							sufficient to provide uniqueness. Two URIs that are
							textually distinct after this normalization may still be
							equivalent.
							Objects using the uri type may restrict the schemes that
							they permit. For example, 'data:' and 'urn:' schemes
							might not be appropriate.
							A zero-length URI is not a valid URI. This can be used to
							express 'URI absent' where required.
							In the value set and its semantics, this type is equivalent
							to the Uri SMIv2 textual convention defined in RFC 5017.
							Type: string

transfer-encryption-log - Continued

A	ttribu	te	RW	Type	Mandatory	Default	Description
							A URI for the remote file path.
							Format:[sftp:]//user[:password]@host[:port]/path.
							Ex:
							IPv4: //test:verify@167.254.211.116:22/home/user/sample
							IPv6: sftp://test:verify@[2001:db8:0:1::10]:22/home/user/sample
	out	put	R-				
		status	R-	string			Gives the status of the transfer operation

transfer

File transfer using FTP/SFTP

Attrib	oute	e		RW	Туре	Mandatory	Default	Description
in	input -		-W					
	t	trans-m	ethod	-W	choice	X		
		sftp	,	-W	case			
			sftp	-W	empty			Transfer mode is SFTP.
		ftp		-W	case			
			ftp	-W	empty			Transfer mode is FTP.
	á	action		-W	enumeration	X		Enums:
								upload - Specify the upload action. The server sends
								the file identified by the local-file-path
								to the remote-file-path.
								download - Specify the download action. The server retrieves
								the file identified by the remote-file-path
								to the local-file-path.
								Type of action - download/upload.
	1	local-fil	le-path	-W	string	X		Local file path.
								Ex: /var/shared/example.txt

transfer - Continued

Att			RW	Туре	Mandatory	Default	Description
		remote-file-path	-W	inet:uri			The uri type represents a Uniform Resource Identifier
							(URI) as defined by STD 66.
							Objects using the uri type MUST be in US-ASCII encoding,
							and MUST be normalized as described by RFC 3986 Sections
							6.2.1, 6.2.2.1, and 6.2.2.2. All unnecessary
							percent-encoding is removed, and all case-insensitive
							characters are set to lowercase except for hexadecimal
							digits, which are normalized to uppercase as described in
							Section 6.2.2.1.
							The purpose of this normalization is to help provide
							unique URIs. Note that this normalization is not
							sufficient to provide uniqueness. Two URIs that are
							textually distinct after this normalization may still be
							equivalent.
							Objects using the uri type may restrict the schemes that
							they permit. For example, 'data:' and 'urn:' schemes
							might not be appropriate.
							A zero-length URI is not a valid URI. This can be used to
							express 'URI absent' where required.
							In the value set and its semantics, this type is equivalent
							to the Uri SMIv2 textual convention defined in RFC 5017.
							Type: string

transfer - Continued

Ŀ	Attribute		RW	Type	Mandatory	Default	Description
							A URI for the remote file path. This can be a URI of
							type FTP/SFTP, depending on the protocol
							which is being used for the transfer.
							Format:[ftp sftp:]//user[:password]@host[:port]/path.
							Ex:
							IPv4: ftp://test:verify@167.254.211.116:21/home/user/sample
							IPv6: sftp://test:verify@[2001:db8:0:1::10]:22/home/user/sample
	ou	put	R-				
		status	R-	string			Status of the file transfer operation

transfer-encryption-log

sftp encryption log file to a remote destination

Attribute	RW	Туре	Mandatory	Default	Description
input	-W				

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transfer-encryption-log - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	destination	-W	inet:uri			The uri type represents a Uniform Resource Identifier
						(URI) as defined by STD 66.
						Objects using the uri type MUST be in US-ASCII encoding,
						and MUST be normalized as described by RFC 3986 Sections
						6.2.1, 6.2.2.1, and 6.2.2.2. All unnecessary
						percent-encoding is removed, and all case-insensitive
						characters are set to lowercase except for hexadecimal
						digits, which are normalized to uppercase as described in
						Section 6.2.2.1.
						The purpose of this normalization is to help provide
						unique URIs. Note that this normalization is not
						sufficient to provide uniqueness. Two URIs that are
						textually distinct after this normalization may still be
						equivalent.
						Objects using the uri type may restrict the schemes that
						they permit. For example, 'data:' and 'urn:' schemes
						might not be appropriate.
						A zero-length URI is not a valid URI. This can be used to
						express 'URI absent' where required.
						In the value set and its semantics, this type is equivalent
						to the Uri SMIv2 textual convention defined in RFC 5017.
						Type: string

transfer-encryption-log - Continued

Į.	Attribute		RW	Туре	Mandatory	Default	Description
							A URI for the remote file path.
							Format:[sftp:]//user[:password]@host[:port]/path.
							Ex:
							IPv4: //test:verify@167.254.211.116:22/home/user/sample
							IPv6: sftp://test:verify@[2001:db8:0:1::10]:22/home/user/sample
	output		R-				
		status	R-	string			Gives the status of the transfer operation

fujitsu-fwdl File: fujitsu-fwdl.yang Data

fw-info

EQPT AID Example:fw-info 1 // Show fw of shelf 1 fw-info 1/1 // show FW for slot 1 in shelf 1 fw-info 1/1/1// show FW for subslot 1 in shelf 1

Attribute		Туре	Mandatory	Default	Description
entityName	R-	string	X		EQPT AID
					Example:
					fw-info 1 // Show fw of shelf 1
					fw-info 1/1 // show FW for slot 1 in shelf 1
					fw-info $1/1/1$ // show FW for subslot 1 in slot 1 in shelf 1
fwissue	R-	string			This is the firmware version that is actually installed on the hardware.
fwcompat	R-	string			This describes the list of FW issue ranges, which the HAL can be compatible
					with, instead of lowest FW issue
fwdlType	R-	string			FWDL Type read from HW
					This is the FWDLType, for a given unit-code (equipment type) different
					fwdl-types are different hardware designs that provide the same function.
					For example, there are many different cards in the system that have
					different optical modules from different manufacturers. Since each of these
					optical modules requires different firmware, each of these TPE1 cards has a
					different FWDLType.
verFlag	R-	string			Ver Flag read from HW
expfwissue	R-	string			This is the firmware issue for firmware that is yet to be applied.
					For example, after upgrading the software, if new firmware is available
					in the new software load, this is the version of that new firmware.
expfwcompat	R-	string			This is the firmware compat value for the version of firmware that has yet to be
					installed (the firmware whose firmware issue is displayed in expfwissue)
expinservicefwcompat	R-	string			This describes the list of FW issue ranges, for which the new FW upgrade would
					be hitless, instead of lowest FW issue.
expverFlag	R-	string			This would be the new ver flag for the firmware yet to be installed. So if this
					firmware provided new capabilities, this version flag would show those
					capabilities.
updateDate	R-	string			Date at which FW was updated
updateTime	R-	string			Time at which FW was updated
uCode	R-	string			Unit Code

fujitsu-fwdl File: fujitsu-fwdl.yang Data

fw-info - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	bootLoaderType	R-	string		U-Boot	Boot Loader Type
	bootVersion	R-	string			Boot Loader Version running on the EQPT
	expBootVersion	R-	string			Expected boot loader version

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fw-update

Fpga data update

Attrib	ute	RW	Туре	Mandatory	Default	Description
in	input					
	shelf-id	-W	string	X		Note: leafref
						Path: /eqpt:eqpt/shelf/shelfId
						shelf ID
						Length: 13
						Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
	slot-id	-W	leafref			Note: leafref
						Path: /eqpt:eqpt/shelf/slot/slotID
						slot ID
						Path: /data:shelfData[data:shelfType=current()///type]/slotTypes/slots/slotID
	sub-slot-id	-W	leafref			Note: leafref
						Path: /eqpt:eqpt/shelf/slot/subslot/subslotID
						sub-slot number
						Path:
						/data:cardData[data:cardType=current()///cardType]/supportedSubslot/subslotI
						D
	force	-W	boolean		false	Used to update the FW irrespective of the EQPT state
						true - force it
						false - if eqpt is not in desired state then decline the command
						default = false
	overwrite	-W	boolean		false	Used to overwrite the FW even if the FW version is same
						true - update the FW
						false - FW will not be updated if the FW version is same
						default = false
ou	tput	R-				

fw-update - Continued

Attribute		RW	Type	Mandatory	Default	Description
	status	R-	cmd-status			Response of command
						Type: string
						Length: 4255

boot-update

Bootloader update

Attı	ibu	te	RW	Туре	Mandatory	Default	Description
	inpı	ut	-W				
		shelf-id	-W	string	X		Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							shelf ID
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
		slot-id	-W	leafref			Note: leafref
							Path: /eqpt:eqpt/shelf/slot/slotID
							slot ID
							Path: /data:shelfData[data:shelfType=current()///type]/slotTypes/slots/slotID
		sub-slot-id	-W	leafref			Note: leafref
							Path: /eqpt:eqpt/shelf/slot/subslot/subslotID
							sub-slot number
							Path:
							/data:cardData[data:cardType=current()///cardType]/supportedSubslot/subslotI
							D
		fileName	-W	string			Boot image file name
							This attribute is optional; Can be used if we ever want to support
							multiple version of boot code

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boot-update - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
	output		R-				
		status	R-	cmd-status			Response of command
							Type: string
							Length: 4255

fujitsu-inventory File: fujitsu-inventory.yang Data

inventory

Inventory of all the equipment currently plugged in

Att	Attribute R		Type	Mandatory	Default	Description
	inventoryName	R-	string			String indicating the location of equipment
	vendorName	R-	string			A unique string describing the vendor name.
	unitName	R-	string			A unique string describing the type of unit.
	vendorUnitCode	R-	string			Vendor unit code.
	IssueNumber	R-	string			HW Issue #
	fcNumber	R-	string			FC Number
	clei	R-	string			Common Language Equipment Identification
	dom	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
	serialNumber	R-	string			Unit serial number
	usi	R-	string			Unique Serial Identifier which includes the manufacturing location code

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restrict - Continued

A	Attribute		Туре	Mandatory	Default	Description
	temp-extension-delete	RW	leafref			Note: leafref
						Path: /licenses/license-id
						This leaf ref is to avoid deletion of TEMP_EXTENSION
						Path: /data:license-data/supported-license/license-id

licenses

Container that has the list of licenses user can provision

At	Attribute		RW	Туре	Mandatory	Default	Description
	lice	nse	RW	list			Key: license-id
		license-id	RW	leafref	X		Note: leafref
							Path: /data:license-data/supported-license/license-id
							The individually licensed feature ID.
		license-key	RW	string	X		The individually licensed feature Key that was
							downloaded from the license key site. This ky
							is needed to enable this licensed feature on
							the device.
		license-temp-agree	RW	enumeration		no	Enums:
							yes - License Temporary mode enabled
							no - License Temporary mode disabled
							The License Temp Mode. If agreed to then the License
							will be enabled for up to 60 days to enable usage.
							If after 60 days a Software Key for the ILF is not
							entered then provisioning will be locked until a
							valid key is entered.
		license-temp-instances	RW	uint32		1	The number of instances to enable in License Temp
L							Mode for the ILF.
		in-use	RW	uint32		0	The number of instances activated that are in use.

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licenses - Continued

L	Attribu	oute		Type	Mandatory	Default	Description
		installed	RW	uint32		0	The number of instances that have been activated.
		license-user-id	RW	string			The User ID of the user that installed the Key.

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licenses - Continued

At	tribu	ute	RW	Туре	Mandatory	Default	Description
		license-date-time-installed	RW	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							inglet resolution of time section.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically
	1		1	1	1	I	1

licenses - Continued

Attrib	ut	e	RW	Туре	Mandatory	Default	Description
							(DST) time zone offset changes. The canonical format for
							date-and-time values with an unknown time zone (usually
							referring to the notion of local time) uses the time-offset
							-00:00.
							Type: string
							Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [++-]\d{2}:\d{2})$
							The Date and Time the License was activated.
lic	cer	nse-map	RW	list			Key: entity-name
							The list of entities that have licenses activated and in use
		entity-name	RW	string	X		Entity name which is created with license id.
		license-id-list	RW	list			Key: used-lic-id
							List of License id's used by the entity provisioned.
		used-lic-id	RW	string	X		License id used by the entity provisioned.
		use-pattern	RW	enumeration		range_step	Enums:
							range_step - License instances are within a range and
							each time increment/decrement by instance-degree per entity
							range_step_with_free - License instances are within a range,
							each time increment/decrement by instance-degree per entity,
							and free instace is provided first before license is charged
							range_step_per_slot - License instances are within a range,
							each time increment/decrement by instance-degree per slot,
							there might be more than one entities in one slot
							one_per_blade - Only one instance is required per blade
							range_step_with_free_port_per_slot - Free instances for first port on every slot
							The use pattern type for the license

licenses - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description	
			instance-degree	RW	uint32		1	Number of license instances required for each stepping

licenses-status - Continued

Att	ribu	te	RW	Туре	Mandatory	Default	Description
	lice	ense-status	R-	list			Key: license-id
		license-id	R-	string	X		The individually licensed feature ID.
		key-valid	R-	enumeration			Enums:
							yes - License Key installed is valid
							no - License Key installed is invalid
							Flag to indicate if installed KEY is valid
							License.
		key-type	R-	enumeration			Enums:
							REGULAR - Regular License Key
							GOLDEN - Golden License Key
							TEMP_EXTENSION - Temporary Extension License Key
							The License Key Type installed.
		system-name	R-	string			The System Name associated with the KEY at key
							generation time.
		customer-name	R-	string			The Customer name the Key was generated for. Valid
							for Golden Key. Quoted string. Maximum size
							including quotes is 20+4 = 24 chars.
		customer-id	R-	string			The Customer ID the Key was generated for.
							Quoted string. Maximum size including quotes is
							10+4 = 14 chars.
		user-id	R-	string			The User ID of the user that installed the Key.

licenses-status - Continued

A	tribu	ute	RW	Туре	Mandatory	Default	Description
		date-time-installed	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically
	1		l	1	l .	l	

licenses-status - Continued

Attribu	ite	RW	Туре	Mandatory	Default	Description
						(DST) time zone offset changes. The canonical format for
						date-and-time values with an unknown time zone (usually
						referring to the notion of local time) uses the time-offset
						-00:00.
						Type: string
						Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
						The Date and Time the License was activated.
	instances-installed	R-	uint32			The number of instances that have been activated.
	instances-in-use	R-	uint32			The number of instances activated that are in use.
	extension-days	R-	uint32			The number of days provided in extension key.
	temp-days-remaining	R-	uint32			The number of days remaining in extension period.
	ne-type	R-	string			The NE Type in the ILF key

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fujitsu-license File: fujitsu-license.yang Remote Procedure Calls

key-unlock

Provide a SW Key to enable the system during ILF violation.

A	Attribute		RW	Туре	Mandatory	Default	Description
	input -		-W				
		license-id	-W	leafref	X		Note: leafref
							Path: /data:license-data/supported-license/license-id
							The individually licensed feature ID.
		license-key	-W	string	X		The individually licensed feature Key that was
							downloaded from the license key site. This ky
							is needed to enable this licensed feature on
							the device.
	outp	put	R-				
		status	R-	string			

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create-tech-info

Collects all LOG data for debugging and places it in a location accessible via ftp/sftp.

A	Attribute			Туре	Mandatory	Default	Description
	input		-W				
		shelf-id	-W	string	X		shelf ID
		slot-id	-W	string			slot ID
	output		R-				
	status		R-	string			Length: 4255

syslog-get

Contents of syslog are displayed.

At	Attribute			Туре	Mandatory	Default	Description
	inp	input					
		read-from-linenumber	-W	int32	X		Start Line number of syslog to be read from
		num-of-lines	-W	int32	X		Range: 15000
							Number of lines to be read - Range 5000 lines
	out		R-				
		status	R-	list of			All of syslog are displayed.
							(It is likely to become a multi-line.)
		total-num-of-lines	R-	string			Total Number of lines in syslog

clear-syslog

Syslog is cleared.

A	Attribute		RW	Туре	Mandatory	Default	Description
	ou	tput	R-				
		status	R-	string			Length: 1max
							response of command

security-log-get - Continued

Attribute	RW	Type	Mandatory	Default	Description
		J I -			

security-log-get

Contents of security logs are displayed.

A	Attribute			Туре	Mandatory	Default	Description
	inp	input					
		read-from-linenumber	-W	int32	X		
		num-of-lines	-W	int32	X		Range: 15000
							Number of lines to be read - Range 5000 lines
	out		R-				
		status	R-	list of			All of security-log are displayed.
							(It is likely to become a multi-line.)

swerr-log-get

Display swerr log content.

A	Attribute			Туре	Mandatory	Default	Description
	inp	ut	-W				
		shelf-id	-W	string			Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							shelf ID
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
		slot	-W	uint32		0	Display swerrs from specified slot. Default: 0
		filter	-W	choice			
		time	-W	case			

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swerr-log-get - Continued

Attı	Attribute		RW	Туре	Mandatory	Default	Description	
			from	-W	date-time			Date with optional local time. YYYY-MM-DD[THH:MM:SS]
								Type: string
								Pattern: \d{4}-\d{2}-\d{2}(T\d{2}:\d{2})?
								Display swerrs from timestamp(YYYY-MM-DD[THH:MM:SS])
			to	-W	date-time			Date with optional local time. YYYY-MM-DD[THH:MM:SS]
								Type: string
								Pattern: \d{4}-\d{2}-\d{2}(T\d{2}:\d{2}:\d{2})?
								Display swerrs till timestamp(YYYY-MM-DD[THH:MM:SS])
			count	-W	uint32			Range: 1max
								Display up to specified number of swerrs
		nu	mber-first	-W	case			
			first	-W	uint32			Display up to first specified number of swerrs
		nu	mber-last	-W	case			
			last	-W	uint32			Display up to last specified number of swerrs
	outp	ut		R-				
	:	status		R-	list of			

generate-hw-version-log

Generate HW/FW version log.

A	Attribute		Туре	Mandatory	Default	Description
	input	-W				

generate-hw-version-log - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		shelf-id	-W	string			Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							shelf ID
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
	output		R-				
		status	R-	string			Length: 4255

trigger-tech-info

Triggers generation of ON-Demand Log data

At	Attribute			Туре	Mandatory	Default	Description
	inp	input					
		shelf-id	-W	string	X		shelf ID
		slot-id	-W	string			slot ID
		trigger	-W	logType	X		Type: enumeration
							Enums:
							MBLOG - MB Log
							FWLOG - FW Log
							PBCNTLOG - PBCNT Log
							CLLOG - CL Log
							Log Type
	output		R-				
	status		R-	string			Length: 4255

show-log

Display contents of the LOG file from the specified shelf.

show-log - Continued

Att	Attribute			Туре	Mandatory	Default	Description
Att	Attribute			Туре	Mandatory	Default	Description
	inp	out	-W				
		shelf-id	-W	string			Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							shelf ID
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
		log-file	-W	string	X		Length: 1255
							Pattern: ([a-zA-Z0-9\\-]*)
							log file to be displayed from /var/log directory
	out	put	R-				
		status	R-	enumeration	X		Enums:
							Successful
							Failed
							Successful or Failed
		status-message	R-	list of			Gives a more detailed reason for success / failure

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event-notification

This notification is used to report an event.

Attribute	RW	Туре	Mandatory	Default	Description

event-notification - Continued

Attribute		RW	Туре	Mandatory	Default	Description
resour	rce	R-	resource	X		If the resource reporting the event is modelled in YANG,
						this type will be an instance-identifier. If the resource
						is an SNMP object, the type will be an object-identifier.
						If the resource is anything else, this type will be a string.
						Type: union
						Type: instance-identifier
						Type: yang:object-identifier
						The object-identifier type represents administratively
						assigned names in a registration-hierarchical-name tree.
						Values of this type are denoted as a sequence of numerical
						non-negative sub-identifier values. Each sub-identifier
						value MUST NOT exceed 2^32-1 (4294967295). Sub-identifiers
						are separated by single dots and without any intermediate
						whitespace.
						The ASN.1 standard restricts the value space of the first
						sub-identifier to 0, 1, or 2. Furthermore, the value space
						of the second sub-identifier is restricted to the range
						0 to 39 if the first sub-identifier is 0 or 1. Finally,
						the ASN.1 standard requires that an object identifier
						has always at least two sub-identifiers. The pattern
						captures these restrictions.
						Although the number of sub-identifiers is not limited,
						module designers should realize that there may be
						implementations that stick with the SMIv2 limit of 128
						sub-identifiers.

event-notification - Continued

At	Attribute		Туре	Mandatory	Default	Description
						This type is a superset of the SMIv2 OBJECT IDENTIFIER type
						since it is not restricted to 128 sub-identifiers. Hence,
						this type SHOULD NOT be used to represent the SMIv2 OBJECT
						IDENTIFIER type; the object-identifier-128 type SHOULD be
						used instead.
						Type: string
						Pattern: (([0-1](\.[1-3]?[0-9])) (2\.(0 ([1-9]\d*))))(\.(0 ([1-9]\d*)))*
						Type: string
						The resource reporting the event.
	event-type-id	R-	event-type-id	X		Identifies an event type.
						Type: identityref
						Base: event-identity
						This leaf and the leaf 'event-type-qualifier' together
						provides a unique identification of the event type.

event-notification - Continued

Att	Attribute		Туре	Mandatory	Default	Description
	event-type-qualifier	R-	event-type-qualifier			If an event type can not be fully specified at design-time by
						event-type-id, this string qualifier is used in addition to
						fully define a unique event type.
						Type: string
						This leaf is used when the 'event-type-id' leaf cannot
						uniquely identify the event type.
						Event's location and direction are included in this qualifier.
						Threshold crossover events would also include time-period

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event-notification - Continued

A	Attribute		Туре	Mandatory	Default	Description
	event-time	R-	yang:date-and-time	X		The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically
ᆫ	1					

event-notification - Continued

Atı	ribute	RW	Туре	Mandatory	Default	Description
						(DST) time zone offset changes. The canonical format for
						date-and-time values with an unknown time zone (usually
						referring to the notion of local time) uses the time-offset
						-00:00.
						Type: string
						Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
						The time the event occurred. The value represents the time
						the real event occurred in the resource and not when it was
						notified.
	event-text	R-	event-text	X		The string used to inform operators about the event. This
						MUST contain enough information for an operator to be able
						to understand the event. If this string contains structure,
						this format should be clearly documented for programs to be
						able to parse that information.
						Type: string
						Length: 11024
						A user friendly text describing the reason for event.
	circuit-id	R-	string			Length: 0.45
L						Circuit identifier of the resource, if available.
	entity-states:oper-status	R-	container			Entity Operational Status

event-notification - Continued

Attrib	oute	RW	Туре	Mandatory	Default	Description
	entity-states:current-oper-status	R-	entity-states:oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
	entity-states:previous-oper-status	R-	entity-states:oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
e	uipment:physical-inventory	R-	container			Equipment Pyhical Inventory
	equipment:vendorName	R-	string			A unique string describing the vendor name.
	equipment:unitName	R-	string			A unique string describing the type of unit.
	equipment:vendorUnitCode	R-	string			Vendor unit code.
	equipment:IssueNumber	R-	string			HW Issue #
	equipment:fcNumber	R-	string			FC Number
	equipment:clei	R-	string			Common Language Equipment Identification
	equipment:dom	R-	string			Date of manufacture. For example, YY.MM or YYMMDD
	equipment:serialNumber	R-	string			Unit serial number

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event-notification - Continued

Attı	Attribute			RW	Туре	Mandatory	Default	Description
	equipment:usi			R-	string			Unique Serial Identifier which includes the manufacturing location code
	otn:tt	i		R-	container			OTN Received Trace Change
	(otn:cur	rent-tti	R-	container			Current received Trail Trace Identifier
		otr	n:standard	R-	choice			
			otn:itu	R-	case			
			otn:sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
								Type: string
								Length: 015
								Source Access Point Identifier
			otn:dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
								Type: string
								Length: 015
								Destination Access Point Identifier
			otn:op-spec	R-	itu-otn-tti-op-spec			Operator Spec
								Type: string
								Length: 032
								TTI Operator Spec
			otn:ansi	R-	case			
			otn:tti	R-	ansi-otn-tti			Trail Trace Identifier
								Type: string
								Length: 062
								Trail Trace Identifier
	(otn:pre	vious-tti	R-	container			Previous received Trail Trace Identifier

event-notification - Continued

Attri	oute			RW	Туре	Mandatory	Default	Description
		otn:stan	dard	R-	choice			
		otn	itu	R-	case			
			otn:sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
								Type: string
								Length: 015
								Source Access Point Identifier
			otn:dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
								Type: string
								Length: 015
								Destination Access Point Identifier
			otn:op-spec	R-	itu-otn-tti-op-spec			Operator Spec
								Type: string
								Length: 032
								TTI Operator Spec
		otn	ansi	R-	case			
			otn:tti	R-	ansi-otn-tti			Trail Trace Identifier
								Type: string
								Length: 062
								Trail Trace Identifier

och-notif - Continued

Attr	ibute	RW	Туре	Mandatory	Default	Description
	name	R-	string			Note: leafref
						Path: /if:interfaces/interface/name
						Length: 1119
						Pattern:
						$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\} - ([1-9] [1-3][0-9] [4][0-4] 20$
						$0 201)\{1\}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\backslash.[1-6] :0 :1 \backslash.[1-2]:0 :1 \backslash.[1-2]\backslash.([1-9] [1-2] (-6) :0 :1 \backslash.[1-2]:0 :1 \backslash.[1-2] (-6) :0 :1 \backslash.[1-2]:0 :1 \backslash.[$
						$1][0])\{1\})? E([1-9] [1][0])\{1\} (C([1-9] [1][0-9] [2][0]):0 :1)\{1\} C([1-9] [1][0-9] [2][0])$
						$][0-5])/[1-4]\{1\} C([1-9] [1][0-9] [2][0])\{1\} ([1-9] [1-3][0-9] [4][0])\{1\} ([1-9] [1-2][0-9] [4][0])\{1\} ([1-9] [1-2][0-9] [4][0])\{1\} ([1-9] [1-2][0-9] [4][0])\{1\} ([1-9] [1-2][0-9] [4][0])\{1\} ([1-9] [1-2][0-9][1-2][0])\{1\} ([1-9] [1-2][0-9][1-2][0])\{1\} ([1-9] [1-2][0-9][1-2][0][1-2][0])\{1\} ([1-9] [1-2][0][1-2]$
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
						1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
						8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
						[4][0-8]){1}){1}
	och	R-	container			
	ains	R-	ains-state		disabled	
	vstimer	R-	vstimer			
	ACTVST	R-	string			
	actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
						The amount of time a valid state timer has been running uninterrupted.
						This timer is in the format <hh>-<mm>.</mm></hh>
	oper-status	R-	oper-status			The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.

och-notif - Continued

Attribu	Attribute		RW	Туре	Mandatory	Default	Description
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	adn	nin-status	R-	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		entity-states:admin-status	R-	admin-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
	rate		R-	identityref			Base: rate-identity
							rate

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och-notif - Continued

Attrib	Attribute		Type	Mandatory	Default	Description
	slot-width	R-	decimal64			Fraction digits: 2
						Channel slot width in GHz
	center-frequency	R-	decimal64			Fraction digits: 5
						Frequency of the transmit optical channel
	lambda	R-	decimal64			Fraction digits: 2
						lambda corresponding to transmit frequency
	center-frequency-rx	R-	decimal64			Fraction digits: 5
						Frequency of the receive optical channel
	lambda-rx	R-	decimal64			Fraction digits: 2
						Lambda corresponding to receive frequency
	circuit-id	R-	string			Length: 045
						circuit identifier/user label
	direction	R-	enumeration			Enums:
						uni-rx - unidirectional receive only
						uni-tx - unidirectional transmit only
						bi - bidirectional
						direction of interface

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och-notif - Continued

Attribu	ite	RW	Туре	Mandatory	Default	Description
	modulation-format	R-	enumeration			Enums:
						bpsk - binary phase-shift keying
						dc-dp-bpsk - differential coding dual-polarization binary phase-shift keying
						qpsk - quadrature phase-shift keying
						dp-qpsk - dual-polarization quadrature phase-shift keying
						qam16 - quadrature amplitude modulation 16
						dp-qam16 - dual-polarization quadrature amplitude modulation 16
						dc-dp-qam16 - differential coding dual-polarization quadrature amplitude
						modulation 16
						qam8 - quadrature amplitude modulation 8
						dp-qam8 - dual-polarization quadrature amplitude modulation 8
						dc-dp-qam8 - differential coding dual-polarization quadrature amplitude
						modulation 8
						dc-dp-qpsk - differential coding dual-polarization quadrature phase-shift keying
						modulation format
	ais-pt	R-	enumeration			Enums:
						ais-pt-ais - use AIS-ODU for escalation
						ais-pt-shutdown - shutdown transmit laser
						ais-pt-none - pass thru
						alarm escalation setting
	act-laser	R-	enumeration			Enums:
						none - when laser status is non known. E.g. in situation when hardware cannot be
						accessed to know the laser status.
						normal - laser is on
						shutdown - laser is off
						actual transmit laser status

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och-notif - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
	remote-tp-type	R-	enumeration		fujitsu-tp	Enums:
						fujitsu-tp - Fujitsu tp
						non-fujitsu-tp - Non-Fujitsu tp
						Remote TP Type
						Default : fujitsu-tp
	roadm-type	R-	enumeration			Enums:
						CD - CD degree is applicable.
						AWG - AWG/DIRECT degree is applicable.
						setting of ROADM type.
	confmode-type	R-	enumeration			Enums:
						100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
						connected, carries only 100G wavelengths.
						10GMIX - 10GMIX if the ROADM systems degree, to which this PIU is
						connected, carries 10G wavelengths along with 100G wavelengths.
						CNFMODE is a setting to get the best optical reach
	Nyquist	R-	enumeration			Enums:
						ON
						OFF
						Current status of Nyquist filter mode.
	tx-target-power	R-	decimal64			Fraction digits: 2
						Range: -5.000.00
						transmit output power setting.
	channel-width	R-	int16			Channel width in GHz

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otsig-notif - Continued

Attı	Attribute		RW	Туре	Mandatory	Default	Description
	nan	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Length: 1119
							Pattern:
							$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20\}$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	otsi	g	R-	container			
		vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							Valid state Timer.
							This timer is in the format <hh>-<mm> and inidcates the amount</mm></hh>
							of time to stay in ains state wating foir a valid signal.
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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otsig-notif - Continued

Attribu	nte I	RW	Туре	Mandatory	Default	Description
	entity-states:oper-status	R-	oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
						The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.
	admin-status F	R-	admin-status		down	The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	entity-states:admin-status	R-	admin-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						testing - In some test mode.
						The desired state of the interface.
		_				This leaf has the same read semantics as ifAdminStatus.
	ais-pt F	R-	enumeration			Enums:
						shutdown
						none

otsig-notif - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	nwrate	R-	identityref			Base: nw-rate-identity
						network rate
	subcarrier	R-	uint8			Range: 12
						The number of sub carrier.
						This Value is decided depending on otucn-rate-identity.
	modulation-format	R-	enumeration			Enums:
						bpsk - binary phase-shift keying
						dc-dp-bpsk - DC dual-polarization binary phase-shift keying
						qpsk - quadrature phase-shift keying
						dp-qpsk - dual-polarization binary phase-shift keying
						qam16 - quadrature amplitude modulation 16
						dp-qam16 - dual-polarization quadrature amplitude modulation 16
						dc-dp-qam16 - DC dual-polarization quadrature amplitude modulation 16
						qam8 - quadrature amplitude modulation 8
						dp-qam8 - dual-polarization quadrature amplitude modulation 8
						dc-dp-qam8 - DC dual-polarization quadrature amplitude modulation 8
						modulation format
	fec	R-	enumeration			Enums:
						hpdfec1 - 25% SDFEC used for UTP T200.
						hpdfec2 - 20% SDFEC used for UTP T200.
						FEC mode.
	roadm-type	R-	enumeration		CD	Enums:
						CD - CD degree is applicable.
						AWG - AWG/DIRECT degree is applicable.
						setting of ROADM type.

otsig-notif - Continued

Att	Attribute		RW	Туре	Mandatory	Default	Description
		confmode-type	R-	enumeration		100GONLY	Enums:
							100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
							connected, carries only 100G wavelengths.
							10GMIX - 10GMIX if the ROADM systems degree, to which this PIU is
							connected, carries 10G wavelengths along with 100G wavelengths.
							CNFMODE is a setting to get the best optical reach
		hi-performance-fec	R-	enumeration		OFF	Enums:
							ON
							OFF
							hi-performance-fec is used to improve correction of received data on receiving
							side
		Nyquist	R-	enumeration			Enums:
							ON
							OFF
							Current status of Nyquist filter mode.
		direction	R-	enumeration			Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional

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otsi-notif - Continued

Attribute		RW	Туре	Mandatory	Default	Description	
	nar	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Otsi interface name for Notifications.
							Length: 1119
							Pattern:
							$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\} - ([1-9] [1-3][0-9] [4][0-4] 20$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\.[1]\.[8][0]\.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	ots	i	R-	container			
		vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							Valid state Timer.
							This timer is in the format <hh>-<mm> and inidcates the amount</mm></hh>
							of time to stay in ains state wating foir a valid signal.
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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otsi-notif - Continued

Attribu	Attribute		RW	Туре	Mandatory	Default	Description
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	adn	in-status	R-	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		entity-states:admin-status	R-	admin-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.

otsi-notif - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	act-laser	R-	enumeration			Enums:
						normal
						shutdown
						none
	center-frequency	R-	decimal64			Fraction digits: 5
						Range: 0 191.35000196.10000
						Frequency of the transmit optical channel.
	lambda	R-	decimal64			Fraction digits: 2
						Lambda corresponding to transmit frequency.
	center-frequency-rx	R-	decimal64			Fraction digits: 5
						Range: 0 191.35000196.10000
						Frequency of the receive optical channel.
	lambda-rx	R-	decimal64			Fraction digits: 2
						Lambda corresponding to receive frequency.
	circuit-id	R-	string			Length: 045
						Circuit identifier/user label.
	slot-width	R-	decimal64			Fraction digits: 2
						Channel slot width in GHz.
	param-A	R-	boolean			
	param-B	R-	boolean			
	param-C	R-	uint32			
	param-D	R-	uint32			
	param-E	R-	uint32			
	param-F	R-	uint32			
	param-G	R-	uint32			

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otsi-notif - Continued

Attri	Attribute R		Type	Mandatory	Default	Description
	param-H	R-	uint32			
	param-I	R-	uint32			
	param-J	R-	decimal64			Fraction digits: 4
	param-K	R-	decimal64			Fraction digits: 4
	param-L	R-	decimal64			Fraction digits: 4
	param-M	R-	uint32			
	ais-pt	R-	enumeration			Enums:
						ais-shutdown
						ais-none
						Alarm transfer setting for Alarm Indication Signal.
	transmit-power	R-	decimal64			Fraction digits: 2
						Range: -5.001.00
						Transmit power setting.
	otsi-rate	R-	identityref			Base: otucn-nw-rate-identity
						Network rate.

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otsi-notif - Continued

Attrib	Attribute R		Туре	Mandatory	Default	Description
	modulation-format	R-	enumeration			Enums:
						bpsk - Binary phase-shift keying.
						dc-dp-bpsk - DC dual-polarization binary phase-shift keying.
						qpsk - Quadrature phase-shift keying.
						dp-qpsk - Dual-polarization binary phase-shift keying.
						qam16 - Quadrature amplitude modulation 16.
						dp-qam16 - Dual-polarization quadrature amplitude modulation 16.
						dp-qam32 - Dual-polarization quadrature amplitude modulation 32.
						dp-qam64 - Dual-polarization quadrature amplitude modulation 64.
						dc-dp-qam16 - DC dual-polarization quadrature amplitude modulation 16.
						qam8 - Quadrature amplitude modulation 8.
						dp-qam8 - Dual-polarization quadrature amplitude modulation 8.
						dc-dp-qam8 - DC dual-polarization quadrature amplitude modulation 8.
						8psk - Phase shift keying with 8 states.
						8psk-2 - Phase shift keying with 8 states - 2.
						Modulation format.
	fec	R-	enumeration			Enums:
						hpdfec1 - 25% Soft Decision FEC.
						hpdfec2 - 20% Soft Decision FEC.
						sdfec3 - Soft Decision FEC 3.
						sdfec4 - Soft Decision FEC 4.
						sdfec5 - Soft Decision FEC 5.
						sdfec6 - Soft Decision FEC 6.
						sdfec2 - Soft Decision FEC 2.
						FEC mode.

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otsi-notif - Continued

At	Attribute F		RW	Туре	Mandatory	Default	Description
		roadm-type	R-	enumeration		CD	Enums:
							CD - Colourless Directionless degree is applicable.
							AWG - Arrayed Wave Guide/DIRECT degree is applicable.
							Setting of ROADM type.
		confmode-type	R-	enumeration		100GONLY	Enums:
							100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
							connected, carries only 100G wavelengths.
							10GMIX - 10GMIX if the ROADM systems degree, to which this PIU is
							connected, carries 10G wavelengths along with 100G wavelengths.
							Config Mode is a setting to get the best optical reach.
		nyquist	R-	enumeration			Enums:
							ON
							OFF
							Current status of Nyquist filter mode.
		direction	R-	enumeration			Enums:
							uni-rx - Unidirectional receive only.
							uni-tx - Unidirectional transmit only.
							bi - Bidirectional.
							Otsi Direction.

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fujitsu-otn-odu-interfaces File: fujitsu-otn-odu-interfaces.yang Remote Procedure Calls

operate-dm

on-demand delay measurement.

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		name	-W	string			Note: leafref
							Path: /if:interfaces/interface/name
							interface name
							Length: 1119
							Pattern:
							$ (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20-100 000 000 000 000 000 000 0$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
		layer-measured	-W	identityref			Base: otn-monitoring-layer-identity
							target layer for measurement
	output		R-				
		dm-value	R-	uint32			response of command: measured delay value is responded.

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odu-notif - Continued

Attr	Attribute R		RW	Туре	Mandatory	Default	Description
	nan	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Length: 1119
							Pattern:
							$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20-([1-9] [1-3][0-9] [4][0-4] 20-([1-9] [1-3][0-9] [4][0-4] 20-([1-9][1-3][0-9][1-3][0-9] [4][0-4] 20-([1-9][1-3][0-9][1-3][1-3][1-3][1-3][1-3][1-3][1-3][1-3$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9][3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9][4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	odu		R-	container			
		ains	R-	ains-state		disabled	
		vstimer	R-	vstimer			
		ACTVST	R-	string			
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		rate	R-	identityref			Base: odu-rate-identity
							rate identity of the ODU. 'identityref' is used
							to allow to extend for future higher rates
		oduflexcbr-service	R-	identityref	X		Base: odu-cbr-identity
							cbr service identity of ODUflex. 'identityref' is used
							to allow to extend

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odu-notif - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	oduflex-gfp-num-ts	R-	uint8	X		Range: 180
						No of timeslots allowed when ODUflex-gfp
	oduflex-rate 1	R-	decimal64			Fraction digits: 3
						ODUflex client rate
	oper-status	R-	oper-status			The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.
	entity-states:oper-status	R-	oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
						The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.
	admin-status	R-	admin-status		down	The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.

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odu-notif - Continued

Attribu	Rtribute R		Туре	Mandatory	Default	Description
	entity-states:admin-status	R-	admin-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						testing - In some test mode.
						The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	circuit-id	R-	string			Length: 045
						circuit identifier/user label
	direction	R-	enumeration			Enums:
						uni-rx - unidirectional receive only
						uni-tx - unidirectional transmit only
						bi - bidirectional
						direction of interface
	tx-clock-source	R-	enumeration			Enums:
						through - Timing is passed through
						internal - Timed from freerunning internal oscillator
						system - Timed from system active clock reference
		_				Transmit Clock - Specifies souce of ODU transit timing
	ais-pt	R-	enumeration			Enums:
						ais - use AIS-ODU for escalation
						csf - use CSF-OPU for escalation
	27	_				alarm escalation setting
	tx-ftfl	R-	container			Transmit Fault Type Fault Location (FTFL)

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odu-notif - Continued

Attribute	Attribute		Туре	Mandatory	Default	Description
	fw-op-id	R-	string			Length: 09
						Forward Operator Indentifier sub field of the backward and forward fields
						in the FTFL message
	fw-op-spec	R-	string			Length: 0118
						Forward Operator Specific sub field of the backward and forward fields
						in the FTFL message
	bw-op-id	R-	string			Length: 09
						Backward Operator Indentifier sub field of the backward and forward fields
						in the FTFL message
	bw-op-spec	R-	string			Length: 0118
						Backward Operator Specific sub field of the backward and forward fields
						in the FTFL message
rx	-ftfl	R-	container			Receive Fault Type Fault Location (FTFL)
	fw-op-id	R-	string			Length: 09
						Forward Operator Indentifier sub field of the backward and forward fields
						in the FTFL message
	fw-op-spec	R-	string			Length: 0118
						Forward Operator Specific sub field of the backward and forward fields
						in the FTFL message
	bw-op-id	R-	string			Length: 0.9
						Backward Operator Indentifier sub field of the backward and forward fields
						in the FTFL message

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odu-notif - Continued

Attrib	Attribute			Туре	Mandatory	Default	Description
		bw-op-spec	R-	string			Length: 0118
							Backward Operator Specific sub field of the backward and forward fields
							in the FTFL message
		fw-flt-typ	R-	uint8			Range: 0255
							Forward Fault Type sub field of the backward and forward fields
							in the FTFL message
		bw-flt-typ	R-	uint8			Range: 0255
							Backward Fault Type sub field of the backward and forward fields
							in the FTFL message
	mo	nitoring-mode	R-	enumeration			Enums:
							not-terminated - Not Terminated: no detection or generation.
							Overhead is passed through the interface transparently in receive direction
							terminated - Terminated: detection and generation enabled.
							Overhead is erased (replaced with all zeros) in receive direction
							monitored - Monitored: detection enabled.
							Overhead is passed through the interface transparently in receive direction
	 		D	1 1			Monitoring mode of the ODU Overhead
	aut	D-rX	R-	boolean			enable/disable generation of transient condition when
	<u>.</u>						the value of the TTI changes.
	-	p-tx	R-	boolean		•.	enable/disable automatic population of outgoing TTI
	star	ndard	R-	choice		itu	choice between ANSI Trail Trace Identifier and
\vdash	-		D				ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
\vdash	+	itu	R-	case			TENLETT THE ALL OF COAD DADY OF THE COAD
		tti-itu	R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
\vdash	-	tx-tti	R-	container			Transmitted Trail Trace Identifier
\vdash	-	sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
		dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier

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odu-notif - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description	
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			rx-tti	R-	container			Received Trail Trace Identifier
			sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp-tti	R-	container			Expected Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			tim-det-mode	R-	itu-tim-det-mode			TIM detection mode
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
		ansi		R-	case			
		tti	-ansi	R-	container			ANSI Trail Trace Identifer
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			rx-tti	R-	container			Received Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			exp-tti	R-	container			Expected Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	degtl	hr		R-	int16		0	Range: -92
								DEGTHR:Degraded defect one-second Errored Block Count threshold
								DEGTHR specifies the exponent part X of 10 ^{\(\text{X}\)} [%].
	degn	n		R-	int8		10	Range: 210
	1							DEGM:Degraded defect consecutive one-second monitoring intervals
	proa	ctive-I	DM .	R-	boolean			enable/disable proactive Delay Measurement
	gcc0)-pass-	hrough	R-	boolean			If this attribute is set to false, GCC0 bytes are terminated.
	1							If set to true, GCC0 bytes are tunneled; if traffic is looped back
	1							GCC0 bytes will also be looped back.

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odu-notif - Continued

Attri	bute		RW	Туре	Mandatory	Default	Description
	ter	n	R-	list			Key: layer, tcm-direction
							Tandem Connection Management
		layer	R-	uint8	X		Range: 16
							TCM layer
		extension	R-	enumeration			Enums:
							normal
							erase
							passthrough
							TCM extension
		monitoring-mode	R-	enumeration			Enums:
							not-terminated - Not Terminated: no detection or generation.
							Overhead is passed through the interface transparently in receive direction
							unless extension is set for erase
							terminated - Terminated: detection and generation enabled.
							Overhead is erased (replaced with all zeros) in receive direction, unless
							extension is set to passthrough
							monitored - Monitored: detection enabled.
							Overhead is passed through the interface transparently in receive direction
							unless extension is set for erase
							Monitoring mode of the TCM layer
		ltc-act-enabled	R-	boolean			enable/disable alarm transfer on detection of LTC
		auto-rx	R-	boolean			enable/disable generation of transient condition when
							the value of the TTI changes.
		auto-tx	R-	boolean			enable/disable automatic population of outgoing TTI
		standard	R-	choice		itu	choice between ANSI Trail Trace Identifier and
							ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		itu	R-	case			

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odu-notif - Continued

Attribut	te				RW	Туре	Mandatory	Default	Description
		tti-	itu		R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			tx-t	ti	R-	container			Transmitted Trail Trace Identifier
				sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
				dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
				op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			rx-t	ti	R-	container			Received Trail Trace Identifier
				sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
				dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
				op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp	-tti	R-	container			Expected Trail Trace Identifier
				sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
				dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
				op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			tim-	-det-mode	R-	itu-tim-det-mode			TIM detection mode
			tim-	-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
		ansi			R-	case			
		tti-	-ansi		R-	container			ANSI Trail Trace Identifer
			tx-t	ti	R-	container			Transmitted Trail Trace Identifier
				tti	R-	ansi-otn-tti			Trail Trace Identifier
			rx-t	ti	R-	container			Received Trail Trace Identifier
				tti	R-	ansi-otn-tti			Trail Trace Identifier
			exp	-tti	R-	container			Expected Trail Trace Identifier
				tti	R-	ansi-otn-tti			Trail Trace Identifier
			tim-	-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	de	egthr			R-	int16		0	Range: -92
									DEGTHR:Degraded defect one-second Errored Block Count threshold
									DEGTHR specifies the exponent part X of 10 ^{\(\circ\X\)} [%].
	de	egm	·		R-	int8		10	Range: 210
									DEGM:Degraded defect consecutive one-second monitoring intervals

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odu-notif - Continued

Attri	ribute proactive-DM					Туре	Mandatory	Default	Description
		pro	proactive-DM cm-direction			boolean			enable/disable proactive Delay Measurement
		tcr	m-direc	etion	R-	enumeration	X		Enums:
									up-tcm - TCM termination direction faces the switch fabric.
									down-tcm - TCM termination direction faces the facility
									Direction of TCM.
		pn	n		R-	container			Performance Monitoring Info
			pm-threshold			list			Key: pm-name, pm-location, pm-direction
									List of PMs thresholds for the parent entity.
			1	pm-name	R-	pm-identity	X		
			1	pm-location	R-	pm-location	X		
			1	pm-direction	R-	pm-direction	X		
			1	pm-type	R-	pm-type			
			1	pm-th-metered	R-	container			
				pm-th-type	R-	enumeration		auto	Enums:
									auto - HW autoprovisioned
									user - User-provisioned
				pm-th-low	R-	pm-data-type	X		
				pm-th-high	R-	pm-data-type	X		
				pmtypedefs:pm-th-metered	R-	container			
				pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
									auto - HW autoprovisioned
									user - User-provisioned

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odu-notif - Continued

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pm-th-binned	R-	container			
pm-time-periods	R-	list			Key: pm-time-period
pm-time-period	R-	pm-time-period	X		
pm-value	R-	pm-data-type	X		
pmtypedefs:pm-th-binned	R-	container			
pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period

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odu-notif - Continued

Attribute	RW	Type	Mandatory	Default	Description
pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
					Enums:
					cumulative - cumulative
					15-min - 15 minutes period
					1-day - 1 day period
					1-week - 1 week period
					1-month - 1 month period
pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-threshold	R-	list			Key: pm-name, pm-location, pm-direction
					List of PMs thresholds for the parent entity.
pmtypedefs:pm-name	R-	pm-identity			PM name
					Type: identityref
					Base: performance-monitor-identity

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odu-notif - Continued

Attribu						Туре	Mandatory	Default	Description
				pmtypedefs:pm-location	R-	pm-location			PM location
									Type: enumeration
									Enums:
									nearEnd - Near-end location
									farEnd - Far-end location
				pmtypedefs:pm-direction	R-	pm-direction			PM direction
									Type: enumeration
									Enums:
									transmit - Transmit direction
									receive - Receive direction
									na - Direction not applicable
				pmtypedefs:pm-type	R-	pm-type			PM type
									Type: enumeration
									Enums:
									cumulative - Cumulative PM type
									metered - Metered PM type
									binned - Binned PM type
				pmtypedefs:pm-th-metered	R-	container			
				pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
									auto - HW autoprovisioned
									user - User-provisioned

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odu-notif - Continued

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-th-binned	R-	container			
pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period

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odu-notif - Continued

Attri	bute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
									Enums:
									cumulative - cumulative
									15-min - 15 minutes period
									1-day - 1 day period
									1-week - 1 week period
									1-month - 1 month period
				pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
		pm-	oper-range		R-	list			Key: pm-name, pm-location, pm-direction
			pm-name		R-	pm-identity	X		
			pm-location	n	R-	pm-location	X		
			pm-direction		R-	pm-direction	X		
			pm-alarm-l		R-	pm-data-type			PM Alarm Detect Low
			pm-alarm-l		R-	pm-data-type			PM Alarm Detect High
			pm-capabil		R-	pm-data-type			PM Operating Range Low
			pm-capabil		R-	pm-data-type			PM Operating Range High
			pm-warnin		R-	pm-data-type			PM Threshold Low
			pm-warnin	g-high	R-	pm-data-type			PM Threshold High
			pmtypedefs	s:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction

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odu-notif - Continued

At	ribute			RW	Туре	Mandatory	Default	Description
			pmtypedefs:pm-name	R-	pm-identity			PM name
								Type: identityref
								Base: performance-monitor-identity
			pmtypedefs:pm-location	R-	pm-location			PM location
								Type: enumeration
								Enums:
								nearEnd - Near-end location
								farEnd - Far-end location
			pmtypedefs:pm-direction	R-	pm-direction			PM direction
								Type: enumeration
								Enums:
								transmit - Transmit direction
								receive - Receive direction
								na - Direction not applicable
			pmtypedefs:pm-alarm-low	R-	pm-data-type			Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
								PM Alarm Detect Low

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Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-ala	arm-high R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM Alarm Detect High
pmtypedefs:pm-ca	pability-min R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM Operating Range Low

Attri	Attribute					RW	Туре	Mandatory	Default	Description
					pmtypedefs:pm-capability-max	R-	pm-data-type			Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
										PM Operating Range High
					pmtypedefs:pm-warning-low	R-	pm-data-type			Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
										PM Threshold Low

odu-notif - Continued

Attribut	te			RW	Туре	Mandatory	Default	Description
			pmtypedefs:pm-warning-high	R-	pm-data-type			Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
								PM Threshold High
	opu			R-	container			Optical Channel Payload Unit (OPU)
		payload-type	2	R-	string			Length: 2
								Pattern: [0-9a-fA-F]*
								Payload Type
		rx-payload-t	ype	R-	string			Length: 2
								Pattern: [0-9a-fA-F]*
								Received Payload Type
		exp-payload	-type	R-	string			Length: 2
								Pattern: [0-9a-fA-F]*
								Expected Payload Type
		msi		R-	container			
		tx-msi		R-	list			Key: trib-slot
								Transmit MSI

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odu-notif - Continued

Attribu				RW	Туре	Mandatory	Default	Description
			trib-slot	R-	uint16	X		tributary slot (TS)
			odtu-type	R-	identityref			Base: odtu-type-identity
								ODTU type, part of the MSI (Multiplex Structure Identifier)
			trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
		rx-	msi	R-	list			Key: trib-slot
								Receive MSI
			trib-slot	R-	uint16	X		tributary slot (TS)
			odtu-type	R-	identityref			Base: odtu-type-identity
								ODTU type, part of the MSI (Multiplex Structure Identifier)
			trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
		exp	o-msi	R-	list			Key: trib-slot
								Expected MSI
			trib-slot	R-	uint16	X		tributary slot (TS)
			odtu-type	R-	identityref			Base: odtu-type-identity
								ODTU type, part of the MSI (Multiplex Structure Identifier)
			trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
	par	ent-odu-a	allocation	R-	presence container			
		trib-por	rt-number	R-	trib-resource-type	X		Type: uint16
								Range: 180
								Tributary port number in parent OPU MSI
		trib-slot	ts	R-	list of			Trib slots occupied in parent OPU MSI
	pm			R-	container			Performance Monitoring Info

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odu-notif - Continued

Attribu				RW	Туре	Mandatory	Default	Description
		pm-threshold			list			Key: pm-name, pm-location, pm-direction
								List of PMs thresholds for the parent entity.
			pm-name	R-	pm-identity	X		
			pm-location	R-	pm-location	X		
			pm-direction	R-	pm-direction	X		
			pm-type	R-	pm-type			
			pm-th-metered	R-	container			
			pm-th-type	R-	enumeration		auto	Enums:
								auto - HW autoprovisioned
								user - User-provisioned
			pm-th-low	R-	pm-data-type	X		
			pm-th-high	R-	pm-data-type	X		
			pmtypedefs:pm-th-metered	R-	container			
			pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
								auto - HW autoprovisioned
								user - User-provisioned
			pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17

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odu-notif - Continued

Attribute pmtypedefs:pm-th-high					Туре	Mandatory	Default	Description
			pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
		pm	-th-binned	R-	container			
			pm-time-periods	R-	list			Key: pm-time-period
			pm-time-period	R-	pm-time-period	X		
			pm-value	R-	pm-data-type	X		
			pmtypedefs:pm-th-binned	R-	container			
			pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period
			pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
								Enums:
								cumulative - cumulative
								15-min - 15 minutes period
								1-day - 1 day period
								1-week - 1 week period
								1-month - 1 month period

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odu-notif - Continued

Attribute	RW	Type	Mandatory	Default	Description
pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-threshold	R-	list			Key: pm-name, pm-location, pm-direction
					List of PMs thresholds for the parent entity.
pmtypedefs:pm-name	R-	pm-identity			PM name
					Type: identityref
					Base: performance-monitor-identity
pmtypedefs:pm-location	R-	pm-location			PM location
					Type: enumeration
					Enums:
					nearEnd - Near-end location
					farEnd - Far-end location

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odu-notif - Continued

Attribu	ute		RW	Туре	Mandatory	Default	Description
		pmtypedefs:pm-direction	R-	pm-direction			PM direction
							Type: enumeration
							Enums:
							transmit - Transmit direction
							receive - Receive direction
							na - Direction not applicable
		pmtypedefs:pm-type	R-	pm-type			PM type
							Type: enumeration
							Enums:
							cumulative - Cumulative PM type
							metered - Metered PM type
							binned - Binned PM type
		pmtypedefs:pm-th-metered	R-	container			
		pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
							auto - HW autoprovisioned
							user - User-provisioned
		pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
							Type: uint64
							Type: int64
							Type: decimal64
							Fraction digits: 2
							Type: decimal64
							Fraction digits: 17

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Attrib	Attribute						Туре	Mandatory	Default	Description
					pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
										Type: uint64
										Type: int64
										Type: decimal64
										Fraction digits: 2
										Type: decimal64
										Fraction digits: 17
				pmt	ypedefs:pm-th-binned	R-	container			
					pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period
					pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
										Enums:
										cumulative - cumulative
										15-min - 15 minutes period
										1-day - 1 day period
										1-week - 1 week period
										1-month - 1 month period

Attribute			RW	Type	Mandatory	Default	Description
		pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
							Type: uint64
							Type: int64
							Type: decimal64
							Fraction digits: 2
							Type: decimal64
							Fraction digits: 17
	pn	m-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
		pm-name	R-	pm-identity	X		
		pm-location 1	R-	pm-location	X		
		pm-direction	R-	pm-direction	X		
		pm-alarm-low	R-	pm-data-type			PM Alarm Detect Low
		pm-alarm-high	R-	pm-data-type			PM Alarm Detect High
		pm-capability-min	R-	pm-data-type			PM Operating Range Low
		pm-capability-max	R-	pm-data-type			PM Operating Range High
		pm-warning-low	R-	pm-data-type			PM Threshold Low
		pm-warning-high	R-	pm-data-type			PM Threshold High
		pmtypedefs:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
		pmtypedefs:pm-name	R-	pm-identity			PM name
							Type: identityref
							Base: performance-monitor-identity

Attribute			Туре	Mandatory	Default	Description
pm	ntypedefs:pm-location	R-	pm-location			PM location
						Type: enumeration
						Enums:
						nearEnd - Near-end location
						farEnd - Far-end location
pm	ntypedefs:pm-direction	R-	pm-direction			PM direction
						Type: enumeration
						Enums:
						transmit - Transmit direction
						receive - Receive direction
						na - Direction not applicable
pm	ntypedefs:pm-alarm-low	R-	pm-data-type			Type: union
						Type: uint64
						Type: int64
						Type: decimal64
						Fraction digits: 2
						Type: decimal64
						Fraction digits: 17
						PM Alarm Detect Low

Attri	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-alarm-high	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Alarm Detect High
		+		pmtypedefs:pm-capability-min	R-	pm-data-type			Type: union
				philippeders.phil edparately him	-	pin data type			Type: uint64
									Type. umo i
									Type: int64
									Type. mto+
									Type: decimal64
									Fraction digits: 2
									T 164
									Type: decimal64
									Fraction digits: 17
									PM Operating Range Low

Attr	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-capability-max	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Operating Range High
				pmtypedefs:pm-warning-low	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Threshold Low

odu-notif - Continued

Attribu				RW	Туре	Mandatory	Default	Description
		1	pmtypedefs:pm-warning-high	R-	pm-data-type			Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
								PM Threshold High
	lpg-na	me		R-	string			SNCP Line PG Name
	ppg-na	ame		R-	string			SNCP Path PG Name
	from-y	kcon-na	me	R-	list			Key: xcon-name
	xc	con-nan	ne	R-	string	X		
	to-xco	n-name	,	R-	list			Key: xcon-name
	xc	con-nan	ne	R-	string	X		
	trib-sl	ots-hido	len	R-	list of			Trib slots occupied in parent OPU MSIdden
	trib-po	orts-hid	den	R-	list of			Trib port occupied in parent OPU MSIdden
	bdi-cr	oss-cou	pling-id	R-	uint32			If Feature: bdi-cross-coupling
								BDI Cross Coupling ID.
	allTcn	nList		R-	list			Key: oduIfName, tcmLayer, tcmDirn
	00	duIfNan	ne	R-	string	X		
	tc	mLayeı	•	R-	uint8	X		
	tc	mDirn		R-	uint8	X		

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Att	name		RW	Туре	Mandatory	Default	Description
	nan	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Length: 1119
							Pattern:
							$ (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20-100 000 000 000 000 000 000 0$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1]\\.[1]:0\\.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1]\\.[1]:0\\.[1]\.[1-9]\\.[
							1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	odu	cn	R-	container			
		vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							Valid state Timer.
							This timer is in the format <hh>-<mm> and inidcates the amount</mm></hh>
							of time to stay in ains state wating foir a valid signal.
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		rate	R-	identityref			Base: oducn-rate-identity
							rate identity of the ODUCn. 'identityref' is used
							to allow to extend for future higher rates
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

oducn-notif - Continued

Attribu	te	RW	Туре	Mandatory	Default	Description
	entity-states:oper-status	R-	oper-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - The interface does not pass any packets.
						testing - In some test mode. No operational packets can
						be passed.
						unknown - Status cannot be determined for some reason.
						dormant - Waiting for some external event.
						not-present - Some component (typically hardware) is missing.
						lower-layer-down - Down due to state of lower-layer interface(s).
						The current operational state of the interface.
						This leaf has the same semantics as ifOperStatus.
	admin-status	R-	admin-status		down	The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	entity-states:admin-status	R-	admin-status			Type: enumeration
						Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						testing - In some test mode.
						The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	ais-pt	R-	enumeration			Enums:
						ais
						none

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oducn-notif - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
	circuit-id			R-	string			Length: 045
								circuit identifier/user label
	dire	direction			enumeration			Enums:
								uni-rx - unidirectional receive only
								uni-tx - unidirectional transmit only
								bi - bidirectional
	stan	dard		R-	choice		itu	choice between ANSI Trail Trace Identifier and
								ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		itu		R-	case			
		tti-i	itu	R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			rx-tti	R-	container			Received Trail Trace Identifier
			sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp-tti	R-	container			Expected Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			tim-det-mode	R-	itu-tim-det-mode			TIM detection mode
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
		ansi		R-	case			
		tti-a	ansi	R-	container			ANSI Trail Trace Identifer
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			rx-tti	R-	container			Received Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier

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oducn-notif - Continued

Attribu	Attribute				Type	Mandatory	Default	Description
			exp-tti	R-	container			Expected Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	deg	thr		R-	int16		0	Range: -92
								DEGTHR:Degraded defect one-second Errored Block Count threshold
								DEGTHR specifies the exponent part X of 10 ^x X.
	deg	m		R-	int8		10	Range: 210
								DEGM:Degraded defect consecutive one-second monitoring intervals
	proa	active-D	DM	R-	boolean			enable/disable proactive Delay Measurement
	tcm	l		R-	list			Key: layer
		layer		R-	uint8	X		Range: 16
								TCM layer
		extensi	on	R-	enumeration			Enums:
								normal
								erase
								passthrough
								TCM extension

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oducn-notif - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
		monitor	ng-mode	R-	enumeration			Enums:
								not-terminated - Not Terminated: no detection or generation.
								Overhead is passed through the interface transparently in receive direction
								unless extension is set for erase
								terminated - Terminated: detection and generation enabled.
								Overhead is erased (replaced with all zeros) in receive direction, unless
								extension is set to passthrough
								monitored - Monitored: detection enabled.
								Overhead is passed through the interface transparently in receive direction
								unless extension is set for erase
								Monitoring mode of the TCM layer
		ltc-act-e	nabled	R-	boolean			enable/disable alarm transfer on detection of LTC
		auto-rx		R-	boolean			enable/disable generation of transient condition when
								the value of the TTI changes.
		auto-tx		R-	boolean			enable/disable automatic population of outgoing TTI
		standard		R-	choice		itu	choice between ANSI Trail Trace Identifier and
								ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		itu		R-	case			
			tti-itu	R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			rx-tti	R-	container			Received Trail Trace Identifier
			sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp-tti	R-	container			Expected Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier

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oducn-notif - Continued

Attribute				RW	Type	Mandatory	Default	Description
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
		tir	m-det-mode	R-	itu-tim-det-mode			TIM detection mode
		tir	m-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	ans	si		R-	case			
		tti-ansi	i	R-	container			ANSI Trail Trace Identifer
		tx	-tti	R-	container			Transmitted Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		rx	-tti	R-	container			Received Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		ex	rp-tti	R-	container			Expected Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		tir	m-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	degthr			R-	int16		0	Range: -92
								DEGTHR:Degraded defect one-second Errored Block Count threshold
								DEGTHR specifies the exponent part X of 10 ^{\(\circ\X\)} [%].
	degm			R-	int8		10	Range: 210
								DEGM:Degraded defect consecutive one-second monitoring intervals
	proacti	ve-DM		R-	boolean			enable/disable proactive Delay Measurement
	tcm-dir	ection		R-	enumeration			Enums:
								up-tcm - TCM termination direction faces the switch fabric.
								down-tcm - TCM termination direction faces the facility
								Direction of TCM.

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oducn-notif - Continued

Attribu	ite		RW	Туре	Mandatory	Default	Description
	mo	nitoring-mode	R-	enumeration			Enums:
							not-terminated - Not Terminated: no detection or generation.
							Overhead is passed through the interface transparently in receive direction
							unless extension is set for erase
							terminated - Terminated: detection and generation enabled.
							Overhead is erased (replaced with all zeros) in receive direction, unless
							extension is set to passthrough
							monitored - Monitored: detection enabled.
							Overhead is passed through the interface transparently in receive direction
							unless extension is set for erase
							Monitoring mode of the TCM layer
	opu		R-	container			Optical Channel Payload Unit (OPU)
		payload-type	R-	string			Length: 2
							Pattern: [0-9a-fA-F]*
							Payload Type
		rx-payload-type	R-	string			Length: 2
							Pattern: [0-9a-fA-F]*
							Received Payload Type
		exp-payload-type	R-	string			Length: 2
							Pattern: [0-9a-fA-F]*
							Expected Payload Type

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otu-notif - Continued

Attı	ribu	ite	RW	Туре	Mandatory	Default	Description
	nan	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Length: 1119
							Pattern:
							$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20-1000 000 000 000 000 000 000 000 000 0$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	otu		R-	container			
		ains	R-	ains-state		disabled	
		vstimer	R-	vstimer			
		ACTVST	R-	string			
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		rate	R-	identityref			Base: otu-rate-identity
							rate identity of the OTU. 'identityref' is used
							to allow to extend for future higher rates
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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otu-notif - Continued

Attrib	ttribute			Туре	Mandatory	Default	Description
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	adn	nin-status	R-	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		entity-states:admin-status	R-	admin-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
	standard		R-	choice		itu	choice between ANSI Trail Trace Identifier and
							ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		itu	R-	case			

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otu-notif - Continued

Attribut				RW	Туре	Mandatory	Default	Description
		tti-itı	1	R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		t	x-tti	R-	container			Transmitted Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
		1	rx-tti	R-	container			Received Trail Trace Identifier
			sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp-tti	R-	container			Expected Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
		t	tim-det-mode	R-	itu-tim-det-mode			TIM detection mode
		t	tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	an	ısi		R-	case			
		tti-an	nsi	R-	container			ANSI Trail Trace Identifer
		t	x-tti	R-	container			Transmitted Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		1	rx-tti	R-	container			Received Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		6	exp-tti	R-	container			Expected Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
		t	tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	directi	on		R-	enumeration			Enums:
								uni-rx - unidirectional receive only
								uni-tx - unidirectional transmit only
								bi - bidirectional
								direction of interface

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otu-notif - Continued

Attrib	ute	RW	Туре	Mandatory	Default	Description
	degthr	R-	int16		0	Range: -92
						DEGTHR:Degraded defect one-second Errored Block Count threshold
						DEGTHR specifies the exponent part X of 10 ^{\(\circ\)} X [%].
	degm	R-	int8		10	Range: 210
						DEGM:Degraded defect consecutive one-second monitoring intervals
	circuit-id	R-	string			Length: 045
						circuit identifier/user label
	fec	R-	enumeration			Enums:
						off - fec off
						rsfec - rsfec
						sdfeca1 - Clariphy SDFEC
						efec - G.975.1 I.4
						ufec - G.975.1 I.7
						sdfec - Soft Decision FEC
						sdfecb1 - SDFEC with SCFEC
						scfec - Stair case FEC
						hgsdfec - SDFEC 16% with RSFEC
						hgsdfec2 - SDFEC 23% with RSFEC
						Forward Error Correction
	differential-decode	R-	enumeration			Enums:
						off - differntial decode off
						on - differntial decode on
						Differential Decode
	auto-rx	R-	boolean			enable/disable generation of transient condition when
						the value of the TTI changes.
	auto-tx	R-	boolean			enable/disable automatic population of outgoing TTI

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Attrib				RW	Туре	Mandatory	Default	Description
				R-	container			Performance Monitoring Info
		pm-threshold		R-	list			Key: pm-name, pm-location, pm-direction
								List of PMs thresholds for the parent entity.
		pr	n-name	R-	pm-identity	X		
		pr	n-location	R-	pm-location	X		
		pr	n-direction	R-	pm-direction	X		
		pr	n-type	R-	pm-type			
		pr	m-th-metered	R-	container			
			pm-th-type	R-	enumeration		auto	Enums:
								auto - HW autoprovisioned
								user - User-provisioned
			pm-th-low	R-	pm-data-type	X		
			pm-th-high	R-	pm-data-type	X		
			pmtypedefs:pm-th-metered	R-	container			
			pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
								auto - HW autoprovisioned
								user - User-provisioned
			pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17

Attrib	ute			RW	Туре	Mandatory	Default	Description
			pmtypedefs:pm-th-high	R-	pm-data-type	X		Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
		pm	-th-binned	R-	container			
			pm-time-periods	R-	list			Key: pm-time-period
			pm-time-period	R-	pm-time-period	X		
			pm-value	R-	pm-data-type	X		
			pmtypedefs:pm-th-binned	R-	container			
			pmtypedefs:pm-time-periods	R-	list			Key: pm-time-period
			pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
								Enums:
								cumulative - cumulative
								15-min - 15 minutes period
								1-day - 1 day period
								1-week - 1 week period
								1-month - 1 month period

otu-notif - Continued

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
pmtypedefs:pm-threshold	R-	list			Key: pm-name, pm-location, pm-direction
					List of PMs thresholds for the parent entity.
pmtypedefs:pm-name	R-	pm-identity			PM name
					Type: identityref
					Base: performance-monitor-identity
pmtypedefs:pm-location	R-	pm-location			PM location
					Type: enumeration
					Enums:
					nearEnd - Near-end location
					farEnd - Far-end location

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otu-notif - Continued

Attrib	Attribute					Туре	Mandatory	Default	Description
				pmtypedefs:pm-direction I	R-	pm-direction			PM direction
									Type: enumeration
									Enums:
									transmit - Transmit direction
									receive - Receive direction
									na - Direction not applicable
				pmtypedefs:pm-type	R-	pm-type			PM type
									Type: enumeration
									Enums:
									cumulative - Cumulative PM type
									metered - Metered PM type
									binned - Binned PM type
				1 1 1	R-	container			
				pmtypedefs:pm-th-type	R-	enumeration		auto	Enums:
									auto - HW autoprovisioned
									user - User-provisioned
				pmtypedefs:pm-th-low	R-	pm-data-type	X		Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17

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otu-notif - Continued

Attrib	Attribute						RW	Туре	Mandatory	Default	Description
					pmt	ypedefs:pm-th-high	R-	pm-data-type	X		Type: union
											Type: uint64
											Type: int64
											Type: decimal64
											Fraction digits: 2
											Type: decimal64
											Fraction digits: 17
				pm	itypec	lefs:pm-th-binned	R-	container			
					pmt	ypedefs:pm-time-periods	R-	list			Key: pm-time-period
						pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
											Enums:
											cumulative - cumulative
											15-min - 15 minutes period
											1-day - 1 day period
											1-week - 1 week period
											1-month - 1 month period

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Attribute			RW	Type	Mandatory	Default	Description
		pmtypedefs:pm-value	R-	pm-data-type	X		Type: union
							Type: uint64
							Type: int64
							Type: decimal64
							Fraction digits: 2
							Type: decimal64
							Fraction digits: 17
	pn	m-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
		pm-name	R-	pm-identity	X		
		pm-location 1	R-	pm-location	X		
		pm-direction	R-	pm-direction	X		
		pm-alarm-low	R-	pm-data-type			PM Alarm Detect Low
		pm-alarm-high	R-	pm-data-type			PM Alarm Detect High
		pm-capability-min	R-	pm-data-type			PM Operating Range Low
		pm-capability-max	R-	pm-data-type			PM Operating Range High
		pm-warning-low	R-	pm-data-type			PM Threshold Low
		pm-warning-high	R-	pm-data-type			PM Threshold High
		pmtypedefs:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
		pmtypedefs:pm-name	R-	pm-identity			PM name
							Type: identityref
							Base: performance-monitor-identity

Att	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-location	R-	pm-location			PM location
									Type: enumeration
									Enums:
									nearEnd - Near-end location
									farEnd - Far-end location
				pmtypedefs:pm-direction	R-	pm-direction			PM direction
									Type: enumeration
									Enums:
									transmit - Transmit direction
									receive - Receive direction
									na - Direction not applicable
				pmtypedefs:pm-alarm-low	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Alarm Detect Low

Attri	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-alarm-high	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Alarm Detect High
		+		pmtypedefs:pm-capability-min	R-	pm-data-type			Type: union
				philippeders.phil edparately him	-	pin data type			Type: uint64
									Type. umo i
									Type: int64
									Type. mto+
									Type: decimal64
									Fraction digits: 2
									T 164
									Type: decimal64
									Fraction digits: 17
									PM Operating Range Low

Attr	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-capability-max	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Operating Range High
				pmtypedefs:pm-warning-low	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM Threshold Low

otu-notif - Continued

Attribu	te		RW	Туре	Mandatory	Default	Description
		pmtypedefs:pm-warning-high	R-	pm-data-type			Type: union
							Type: uint64
							Type: int64
							Type: decimal64
							Fraction digits: 2
							Type: decimal64
							Fraction digits: 17
							PM Threshold High

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otucn-notif - Continued

Att	ribu	ite	RW	Туре	Mandatory	Default	Description
	nan	ne	R-	string			Note: leafref
							Path: /if:interfaces/interface/name
							Length: 1119
							Pattern:
							$ (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20-100 000 000 000 000 000 000 0$
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9][3][0-8])(\.[1]\\.[1]:0\\.[1]\.[1-8]){1} ([3][9][4][0])(\.[1]\\.[1]:0\\.[1]\.[1-9]\\.[
							1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
	otu	cn	R-	container			
		vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							Valid state Timer.
							This timer is in the format <hh>-<mm> and inidcates the amount</mm></hh>
							of time to stay in ains state wating foir a valid signal.
		actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
							The amount of time a valid state timer has been running uninterrupted.
							This timer is in the format <hh>-<mm>.</mm></hh>
		rate	R-	identityref			Base: otucn-rate-identity
							rate identity of the OTUCn. 'identityref' is used
							to allow to extend for future higher rates
		oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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otucn-notif - Continued

Attribu	ttribute			Туре	Mandatory	Default	Description
		entity-states:oper-status	R-	oper-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
	adn	nin-status	R-	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		entity-states:admin-status	R-	admin-status			Type: enumeration
							Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
	star	dard	R-	choice		itu	choice between ANSI Trail Trace Identifier and
							ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		itu	R-	case			

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otucn-notif - Continued

Attribu	ite			RW	Туре	Mandatory	Default	Description
		tti-	itu	R-	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			rx-tti	R-	container			Received Trail Trace Identifier
			sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			exp-tti	R-	container			Expected Trail Trace Identifier
			sapi	R-	itu-otn-tti-sapi			Source Access Point Identifier
			dapi	R-	itu-otn-tti-dapi			Destination Access Point Identifier
			op-spec	R-	itu-otn-tti-op-spec			TTI Operator Spec
			tim-det-mode	R-	itu-tim-det-mode			TIM detection mode
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	a	ınsi		R-	case			
		tti-	ansi	R-	container			ANSI Trail Trace Identifer
			tx-tti	R-	container			Transmitted Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			rx-tti	R-	container			Received Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			exp-tti	R-	container			Expected Trail Trace Identifier
			tti	R-	ansi-otn-tti			Trail Trace Identifier
			tim-act-enabled	R-	boolean			Enables TTI Mismatch consequent actions.
	degth	ır		R-	int16		0	Range: -92
								DEGTHR:Degraded defect one-second Errored Block Count threshold
								DEGTHR specifies the exponent part X of 10 ^{\(\text{X}\)} [%].
	degm	1		R-	int8		10	Range: 210
								DEGM:Degraded defect consecutive one-second monitoring intervals

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otucn-notif - Continued

L	Attribute			Туре	Mandatory	Default	Description
		circuit-id	R-	string			Length: 045
							circuit identifier/user label
		direction	R-	enumeration			Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
		auto-rx	R-	boolean			enable/disable generation of transient condition when
							the value of the TTI changes.
Γ		auto-tx	R-	boolean			enable/disable automatic population of outgoing TTI

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pm-equipment

Top container for all equipment performance monitoring entities.

Att	ribute			RW	Туре	Mandatory	Default	Description
	shelf			R-	list			Key: shelfId
								List of shelf entities to store performance monitoring operational data
	sh	elfId		R-	string	X		Pattern: [0-9]+
								Shelf Identifier
	pn	ı-ope	or-data	R-	list			Key: pm-name, pm-location, pm-direction
		pm	-name	R-	pm-identity	X		
		pm	l-location	R-	pm-location	X		
		pm	-direction	R-	pm-direction	X		
		pm	ı-type	R-	pm-type			
		pm	-time-period-index	R-	list			Key: pm-time-period, pm-index
			pm-time-period	R-	pm-time-period	X		
			pm-index	R-	pm-index	X		
			pm-value	R-	pm-data-type			PM value
	pm-validity		R-	pm-validity				

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pm-equipment - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically

pm-equipment - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
								(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string
								Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d{+})?(Z [\+\-]\d{2}:\d{2})$
		pmt	typedefs:pm-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
			pmtypedefs:pm-name	R-	pm-identity			PM name
								Type: identityref
								Base: performance-monitor-identity
			pmtypedefs:pm-location	R-	pm-location			PM location
								Type: enumeration
								Enums:
								nearEnd - Near-end location
								farEnd - Far-end location
			pmtypedefs:pm-direction	R-	pm-direction			PM direction
								Type: enumeration
								Enums:
								transmit - Transmit direction
								receive - Receive direction
								na - Direction not applicable

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pm-equipment - Continued

Attrib	ute		RW	Type	Mandatory	Default	Description
		pmtypedefs:pm-type		pm-type			PM type
							Type: enumeration
							Enums:
							cumulative - Cumulative PM type
							metered - Metered PM type
							binned - Binned PM type
		pmtypedefs:pm-time-period-index	R-	list			Key: pm-time-period, pm-index
		pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
							Enums:
							cumulative - cumulative
							15-min - 15 minutes period
							1-day - 1 day period
							1-week - 1 week period
							1-month - 1 month period
		pmtypedefs:pm-index	R-	pm-index			Index for PM history
							Type: uint32

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pm-equipment - Continued

Att	ribute			RW	Туре	Mandatory	Default	Description
			pmtypedefs:pm-value	R-	pm-data-type			Type: union
								Type: uint64
								Type: int64
								Type: decimal64
								Fraction digits: 2
								Type: decimal64
								Fraction digits: 17
								PM value
			pmtypedefs:pm-validity	R-	pm-validity			Type: enumeration
								Enums:
								false - PM is not valid
								true - PM is valid

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pm-equipment - Continued

Attril	bute		RW	Туре	Mandatory	Default	Description
		pmtypedefs:pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically

pm-equipment - Continued

Attrib	ute				RW	Туре	Mandatory	Default	Description
									(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string
	slo	t			R-	list			Key: slotId
	slotId				R-	string	X		List of slot entities to store performance monitoring operational data Pattern: [0-9]+
									Slot Identifier
		sut	bslot		R-	list			Key: subslotId
									List of subslot entities to store performance monitoring operational data
			subslo	otId	R-	string	X		Subslot Identifier
			port		R-	list			Key: portId List of port entities to store performance monitoring operational data
			р	ortId	R-	string	X		Port Identifier
			p	m-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
			$\top \top$	pm-name	R-	pm-identity	X		
				pm-location	R-	pm-location	X		
				pm-direction	R-	pm-direction	X		
				pm-type	R-	pm-type			
			$\perp \perp$	pm-time-period-index	R-	list			Key: pm-time-period, pm-index
			$\perp \perp$	pm-time-period	R-	pm-time-period	X		
			$\perp \perp$	pm-index	R-	pm-index	X		
				pm-value	R-	pm-data-type			PM value

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pm-equipment - Continued

At	Attribute						RW	Туре	Mandatory	Default	Description
						pm-validity	R-	pm-validity			

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pm-equipment - Continued

A	tribu	ıte				RW	Туре	Mandatory	Default	Description
					pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
										standard for representation of dates and times using the
										Gregorian calendar. The profile is defined by the
										date-time production in Section 5.6 of RFC 3339.
										The date-and-time type is compatible with the dateTime XML
										schema type with the following notable exceptions:
										(a) The date-and-time type does not allow negative years.
										(b) The date-and-time time-offset -00:00 indicates an unknown
										time zone (see RFC 3339) while -00:00 and +00:00 and Z
										all represent the same time zone in dateTime.
										(c) The canonical format (see below) of data-and-time values
										differs from the canonical format used by the dateTime XML
										schema type, which requires all times to be in UTC using
										the time-offset 'Z'.
										This type is not equivalent to the DateAndTime textual
										convention of the SMIv2 since RFC 3339 uses a different
										separator between full-date and full-time and provides
										higher resolution of time-secfrac.
										inglet resolution of time-sectrac.
										The canonical format for date-and-time values with a known time
										zone uses a numeric time zone offset that is calculated using
										the device's configured known offset to UTC time. A change of
										the device's offset to UTC time will cause date-and-time values
										to change accordingly. Such changes might happen periodically
L	1	1		- 1		1		1		

pm-equipment - Continued

Attrib	Attribute						Туре	Mandatory	Default	Description
										(DST) time zone offset changes. The canonical format for
										date-and-time values with an unknown time zone (usually
										referring to the notion of local time) uses the time-offset
										-00:00.
										Type: string
										Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
				pmt	ypedefs:pm-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
					pmtypedefs:pm-name	R-	pm-identity			PM name
										Type: identityref
										Base: performance-monitor-identity
					pmtypedefs:pm-location	R-	pm-location			PM location
										Type: enumeration
										Enums:
										nearEnd - Near-end location
										farEnd - Far-end location
					pmtypedefs:pm-direction	R-	pm-direction			PM direction
										Type: enumeration
										Enums:
										transmit - Transmit direction
										receive - Receive direction
										na - Direction not applicable

pm-equipment - Continued

Attrib	Attribute						Type	Mandatory	Default	Description
					pmtypedefs:pm-type	R-	pm-type			PM type
										Type: enumeration
										Enums:
										cumulative - Cumulative PM type
										metered - Metered PM type
										binned - Binned PM type
					pmtypedefs:pm-time-period-index	R-	list			Key: pm-time-period, pm-index
					pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
										Enums:
										cumulative - cumulative
										15-min - 15 minutes period
										1-day - 1 day period
										1-week - 1 week period
										1-month - 1 month period
					pmtypedefs:pm-index	R-	pm-index			Index for PM history
										Type: uint32

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pm-equipment - Continued

Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-value	R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM value
pmtypedefs:pm-validity	R-	pm-validity			Type: enumeration
					Enums:
					false - PM is not valid
					true - PM is valid

Att	ribut	te					RW	Туре	Mandatory	Default	Description
						pmtypedefs:pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
											standard for representation of dates and times using the
											Gregorian calendar. The profile is defined by the
											date-time production in Section 5.6 of RFC 3339.
											The date-and-time type is compatible with the dateTime XML
											schema type with the following notable exceptions:
											(a) The date-and-time type does not allow negative years.
											(b) The date-and-time time-offset -00:00 indicates an unknown
											time zone (see RFC 3339) while -00:00 and +00:00 and Z
											all represent the same time zone in dateTime.
											(c) The canonical format (see below) of data-and-time values
											differs from the canonical format used by the dateTime XML
											schema type, which requires all times to be in UTC using
											the time-offset 'Z'.
											This type is not equivalent to the DateAndTime textual
											convention of the SMIv2 since RFC 3339 uses a different
											separator between full-date and full-time and provides
											higher resolution of time-secfrac.
											inglet resolution of time sectrae.
											The canonical format for date-and-time values with a known time
											zone uses a numeric time zone offset that is calculated using
											the device's configured known offset to UTC time. A change of
											the device's offset to UTC time will cause date-and-time values
											to change accordingly. Such changes might happen periodically
			- 1	1	1		1	I	1	I	1

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string Pattern:
subport	R-	list			Key: subportId List of subport entities to store performance monitoring operational data
subportId	R-	string	X		Subport Identifier
pm-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
pm-name	R-	pm-identity	X		
pm-location	R-	pm-location	X		
pm-direction	R-	pm-direction	X		
pm-type	R-	pm-type			
pm-time-period-index	R-	list			Key: pm-time-period, pm-index
pm-time-period	R-	pm-time-period	X		
pm-index	R-	pm-index	X		
pm-value	R-	pm-data-type			PM value
pm-validity	R-	pm-validity			

Attribute	RW	Туре	Mandatory	Default	Description
pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
					standard for representation of dates and times using the
					Gregorian calendar. The profile is defined by the
					date-time production in Section 5.6 of RFC 3339.
					The date-and-time type is compatible with the dateTime XML
					schema type with the following notable exceptions:
					(a) The date-and-time type does not allow negative years.
					(b) The date-and-time time-offset -00:00 indicates an unknown
					time zone (see RFC 3339) while -00:00 and +00:00 and Z
					all represent the same time zone in dateTime.
					(c) The canonical format (see below) of data-and-time values
					differs from the canonical format used by the dateTime XML
					schema type, which requires all times to be in UTC using
					the time-offset 'Z'.
					This type is not equivalent to the DateAndTime textual
					convention of the SMIv2 since RFC 3339 uses a different
					separator between full-date and full-time and provides
					higher resolution of time-secfrac.
					The canonical format for date-and-time values with a known time
					zone uses a numeric time zone offset that is calculated using
					the device's configured known offset to UTC time. A change of
					the device's offset to UTC time will cause date-and-time values
					to change accordingly. Such changes might happen periodically

At	ttribute							RW	Туре	Mandatory	Default	Description
												(DST) time zone offset changes. The canonical format for
												1
												date-and-time values with an unknown time zone (usually
												referring to the notion of local time) uses the time-offset
												-00:00.
												Type: string
												Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [++-]\d{2}:\d{2})$
				-								
		_		_			ypedefs:pm-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
							pmtypedefs:pm-name	R-	pm-identity			PM name
												Type: identityref
												Base: performance-monitor-identity
							pmtypedefs:pm-location	R-	pm-location			PM location
												Type: enumeration
												Enums:
												nearEnd - Near-end location
												farEnd - Far-end location
							pmtypedefs:pm-direction	R-	pm-direction			PM direction
												Type: enumeration
												Enums:
												transmit - Transmit direction
												receive - Receive direction
												na - Direction not applicable
L	1		- 1		1			1	l	ı	1	

pm-equipment - Continued

Attr	Attribute								RW	Type	Mandatory	Default	Description
							pm	typedefs:pm-type	R-	pm-type			PM type
													Type: enumeration
													Enums:
													cumulative - Cumulative PM type
													metered - Metered PM type
													binned - Binned PM type
							pm	typedefs:pm-time-period-index	R-	list			Key: pm-time-period, pm-index
								pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
													Enums:
													cumulative - cumulative
													15-min - 15 minutes period
													1-day - 1 day period
													1-week - 1 week period
													1-month - 1 month period
								pmtypedefs:pm-index	R-	pm-index			Index for PM history
													Type: uint32

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Attribute	RW	Туре	Mandatory	Default	Description
pmtypedefs:pm-value	R-	pm-data-type			Type: union
					Type: uint64
					Type: int64
					Type: decimal64
					Fraction digits: 2
					Type: decimal64
					Fraction digits: 17
					PM value
pmtypedefs:pm-validity	R-	pm-validity			Type: enumeration
					Enums:
					false - PM is not valid
					true - PM is valid

At	ribu	te						RW	Туре	Mandatory	Default	Description
							pmtypedefs:pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
												standard for representation of dates and times using the
												Gregorian calendar. The profile is defined by the
												date-time production in Section 5.6 of RFC 3339.
												The date-and-time type is compatible with the dateTime XML
												schema type with the following notable exceptions:
												(a) The date-and-time type does not allow negative years.
												(b) The date-and-time time-offset -00:00 indicates an unknown
												time zone (see RFC 3339) while -00:00 and +00:00 and Z
												all represent the same time zone in dateTime.
												(c) The canonical format (see below) of data-and-time values
												differs from the canonical format used by the dateTime XML
												schema type, which requires all times to be in UTC using
												the time-offset 'Z'.
												This type is not equivalent to the DateAndTime textual
												convention of the SMIv2 since RFC 3339 uses a different
												separator between full-date and full-time and provides
												higher resolution of time-secfrac.
												ingler resolution of time-sectrac.
												The canonical format for date-and-time values with a known time
												zone uses a numeric time zone offset that is calculated using
												the device's configured known offset to UTC time. A change of
												the device's offset to UTC time will cause date-and-time values
												to change accordingly. Such changes might happen periodically
	1		- 1	1	1	1		1	I	I	1	

pm-equipment - Continued

A	Attribute							RW	Type	Mandatory	Default	Description
												(DST) time zone offset changes. The canonical format for
												date-and-time values with an unknown time zone (usually
												referring to the notion of local time) uses the time-offset
												-00:00.
												Type: string
												$Pattern: \ \ \ \ \ \ \ \ \ \ \ \ \ $

pm-interfaces

Top container for all interface performance monitoring entities.

Att	ttribute				Туре	Mandatory	Default	Description
	interfa	ce		R-	list			Key: name
								List of interface entities to store performance monitoring operational data
	na	name			string	X		Interface name
	pn	n-op	er-data	R-	list			Key: pm-name, pm-location, pm-direction
		pr	n-name	R-	pm-identity	X		
		pr	n-location	R-	pm-location	X		
		pr	n-direction	R-	pm-direction	X		
		pr	n-type	R-	pm-type			
		pr	n-time-period-index	R-	list			Key: pm-time-period, pm-index
			pm-time-period	R-	pm-time-period	X		
			pm-index	R-	pm-index	X		
		pm-value			pm-data-type			PM value
		pm-validity			pm-validity	-		

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pm-interfaces - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically

pm-interfaces - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
								(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string
								Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d{+})?(Z [\+\-]\d{2}:\d{2})$
		pmt	typedefs:pm-oper-data	R-	list			Key: pm-name, pm-location, pm-direction
			pmtypedefs:pm-name	R-	pm-identity			PM name
								Type: identityref
								Base: performance-monitor-identity
			pmtypedefs:pm-location	R-	pm-location			PM location
								Type: enumeration
								Enums:
								nearEnd - Near-end location
								farEnd - Far-end location
			pmtypedefs:pm-direction	R-	pm-direction			PM direction
								Type: enumeration
								Enums:
								transmit - Transmit direction
								receive - Receive direction
								na - Direction not applicable

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pm-interfaces - Continued

Attri	ttribute				Type	Mandatory	Default	Description
			pmtypedefs:pm-type	R-	pm-type			PM type
								Type: enumeration
								Enums:
								cumulative - Cumulative PM type
								metered - Metered PM type
								binned - Binned PM type
			pmtypedefs:pm-time-period-index	R-	list			Key: pm-time-period, pm-index
			pmtypedefs:pm-time-period	R-	pm-time-period			Type: enumeration
								Enums:
								cumulative - cumulative
								15-min - 15 minutes period
								1-day - 1 day period
								1-week - 1 week period
								1-month - 1 month period
			pmtypedefs:pm-index	R-	pm-index			Index for PM history
								Type: uint32

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pm-interfaces - Continued

Attri	Attribute				RW	Туре	Mandatory	Default	Description
				pmtypedefs:pm-value	R-	pm-data-type			Type: union
									Type: uint64
									Type: int64
									Type: decimal64
									Fraction digits: 2
									Type: decimal64
									Fraction digits: 17
									PM value
				pmtypedefs:pm-validity	R-	pm-validity			Type: enumeration
									Enums:
									false - PM is not valid
									true - PM is valid

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pm-interfaces - Continued

Attril	bute		RW	Туре	Mandatory	Default	Description
		pmtypedefs:pm-start-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically

pm-interfaces - Continued

Attr	Attribute			RW	Туре	Mandatory	Default	Description	
									(DST) time zone offset changes. The canonical format for
									date-and-time values with an unknown time zone (usually
									referring to the notion of local time) uses the time-offset
									-00:00.
									Type: string
									$Pattern: \ \ \ \ \ \ \ \ \ \ \ \ \ $

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fujitsu-performance-monitoring File: fujitsu-performance-monitoring.yang Remote Procedure Calls

init-pm

Command to initialize PM data

At	ribu	te	RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		id	-W	string	X		Pattern:
							$((shelf)-\backslash S+) ((port eth otsi otuc oduc odu otu oc)-\backslash S+/\backslash S+/\backslash S+/\backslash S+) ((subport)-\backslash S+/\backslash S+/\backslash S+) ((subport)-\backslash S+/\backslash S+/\backslash S+/\backslash S+/\backslash S+/\backslash S+/\backslash S+/\backslash S+/$
							$S+ \land S+ \land S+ \land S+) ((odu)- \land S+ \land S+ \land S+ \land S+ \land S+) ((odu)- \land S+ \land S$
							Entity Identifier
		time-period	-W	enumeration		15-min	Enums:
							cumulative - cumulative
							15-min - 15 minutes period
							1-day - 1 day period
		index	-W	pmtypedefs:pm-history		current	Type: enumeration
							Enums:
							current - Current PM time-period
							all - All PM time-periods including current
	output		R-				
		status	R-	string			

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threshold-crossover-notification

This notification is used to report a threshold cross-over event.

At	Attribute		Туре	Mandatory	Default	Description
	resource	R-	resource	X		The resource reporting the event.
	event-type-id	R-	event-type-id	X		This leaf and the leaf 'event-type-qualifier' together
						provides a unique identification of the event type.
	event-type-qualifier	R-	event-type-qualifier			This leaf is used when the 'event-type-id' leaf cannot
						uniquely identify the event type.
						Event's location and direction are included in this qualifier.
						Threshold crossover events would also include time-period

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threshold-crossover-notification - Continued

Attribute R		Туре	Mandatory	Default	Description
event-time	R-	yang:date-and-time	X		The date-and-time type is a profile of the ISO 8601
					standard for representation of dates and times using the
					Gregorian calendar. The profile is defined by the
					date-time production in Section 5.6 of RFC 3339.
					The date-and-time type is compatible with the dateTime XML
					schema type with the following notable exceptions:
					(a) The date-and-time type does not allow negative years.
					(b) The date-and-time time-offset -00:00 indicates an unknown
					time zone (see RFC 3339) while -00:00 and +00:00 and Z
					all represent the same time zone in dateTime.
					(c) The canonical format (see below) of data-and-time values
					differs from the canonical format used by the dateTime XML
					schema type, which requires all times to be in UTC using
					the time-offset 'Z'.
					This type is not equivalent to the DateAndTime textual
					convention of the SMIv2 since RFC 3339 uses a different
					separator between full-date and full-time and provides
					higher resolution of time-secfrac.
					The canonical format for date-and-time values with a known time
					zone uses a numeric time zone offset that is calculated using
					the device's configured known offset to UTC time. A change of
					the device's offset to UTC time will cause date-and-time values
					to change accordingly. Such changes might happen periodically

threshold-crossover-notification - Continued

At	tribute	RW	Туре	Mandatory	Default	Description
						(DST) time zone offset changes. The canonical format for
						date-and-time values with an unknown time zone (usually
						referring to the notion of local time) uses the time-offset
						-00:00.
						Type: string
						Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
						The time the event occurred. The value represents the time
						the real event occurred in the resource and not when it was
						notified.
	event-text	R-	event-text	X		A user friendly text describing the reason for event.
	pm-value	R-	pmtypedefs:pm-data-type	X		Type: union
						Type: uint64
						Type: int64
						Type: decimal64
						Fraction digits: 2
						Type: decimal64
						Fraction digits: 17
						Monitored performance value

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threshold-crossover-notification - Continued

Attril	bute	RW	Туре	Mandatory	Default	Description
p:	m-threshold-level	R-	pmtypedefs:pm-data-type	X		Type: union
						Type: uint64
						Type: int64
						Type: decimal64
						Fraction digits: 2
						Type: decimal64
						Fraction digits: 17
						Performance monitor threshold level

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protocols

configuration of protocols instances.

Attrib	oute		RW	Туре	Mandatory	Default	Description
pr	otoco	1	RW	list			Key: name
							Protocol instance
	nar	me	RW	string	X		Name of the protocol instance
	typ	e	RW	identityref	X		Base: protocol-type
							The type of the protocol like NAT,LLDP etc.
	lldı	o:lldp-instance	RW	container			LLDP configurable and retrievable
		lldp:global-config	RW	container			LLDP global configurations
		lldp:adminStatus	RW	enumeration		enable	Enums:
							disable - Disable LLDP feature per NE
							enable - Enable LLDP feature per NE
							Enable/Disable LLDP feature per NE
		lldp:msgTxInterval	RW	uint16		30	Range: 532768
							LLDP frame Retransmit Interval in seconds
		lldp:msgTxHoldMultiplier	r RW	uint8		4	Range: 210
							TTL value for the TLVs transmitter over wire in seconds
		lldp:notificationInterval	RW	uint16		5	Range: 53600
							notification interval in seconds
		lldp:port	RW	list			Key: ifName
							LLDP port configurations

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protocols - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	lldp:ifName	RW	string	X		Note: leafref
						Path: /if:interfaces/interface/name
						Ethernet interface name where LLDP runs
						Length: 1119
						Pattern:
						$(otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\}-([1-9] [1-3][0-9] [4][0-4] 20\}$
						0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
						1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
						1]\.[1-7][0-9]\.[1]\.[8][0] \.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
						8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
						[4][0-8]){1}){1}
	lldp:if-alias	RW	string			Alternate Port Id which will be multicast in LLDP pdu if configured
	lldp:adminStatus	RW	enumeration		txandrx	Enums:
						disable - Disable Transmit and Receive LLDP frames on specific interface
						txandrx - Enable Transmit and Receive LLDP frames on specific interface
						rxonly - Enable only Receive LLDP frames on specific interface
						LLDP enable per port basis
	lldp:notificationEnable	RW	boolean		false	Flag to control notification when remote info changes
	lldp:neighbour	R-	list			Key: remoteSysName
						LLDP Oper data - Neighbour List information
	lldp:remoteSysName	R-	string	X		remote neighbour system name
	lldp:remoteMgmtAddress	R-	list			

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protocols - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	lldp:AddressSubType	R-	ianaaf:address-family			This typedef is a YANG enumeration of IANA-registered address
						family numbers (AFN).
						Type: enumeration
						Enums:
						ipV4 - IP version 4
						ipV6 - IP version 6
						nsap - NSAP
						hdlc - HDLC (8-bit multidrop)
						bbn1822 - BBN 1822
						all802 - 802 (includes all 802 media plus Ethernet 'canonical
						format')
						e163 - E.163
						e164 - E.164 (SMDS, FrameRelay, ATM)
						f69 - F.69 (Telex)
						x121 - X.121 (X.25, Frame Relay)
						ipx - IPX (Internetwork Packet Exchange)
						appletalk - Appletalk
						decnetIV - DECnet IV
						banyanVines - Banyan Vines
						e164withNsap - E.164 with NSAP format subaddress
						dns - DNS (Domain Name System)
						distinguishedName - Distinguished Name (per X.500)
						asNumber - Autonomous System Number
						xtpOverIpv4 - XTP over IP version 4
						xtpOverIpv6 - XTP over IP version 6
						xtpNativeModeXTP - XTP native mode XTP
						fibreChannelWWPN - Fibre Channel World-Wide Port Name
						fibreChannelWWNN - Fibre Channel World-Wide Node Name
						gwid - Gateway Identifier

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protocols - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					mplsTpSectionEndpointIdentifier - MPLS-TP Section Endpoint Identifier
					mplsTpLspEndpointIdentifier - MPLS-TP LSP Endpoint Identifier
					mplsTpPseudowireEndpointIdentifier - MPLS-TP Pseudowire Endpoint
					Identifier
					eigrpCommonServiceFamily - EIGRP Common Service Family
					eigrpIpv4ServiceFamily - EIGRP IPv4 Service Family
					eigrpIpv6ServiceFamily - EIGRP IPv6 Service Family
					lispCanonicalAddressFormat - LISP Canonical Address Format (LCAF)
					bgpLs - BGP-LS
					48BitMac - 48-bit MAC
					64BitMac - 64-bit MAC
					remote neighbour Management Address Subtype Enumeration

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protocols - Continued

Attribute	R	RW	Туре	Mandatory	Default	Description
lldp:A	Address R	₹-	inet:ip-address			The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.

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protocols - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: $((: [0-9a-fA-F]\{0,4\}:)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\}))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).)\{3\}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])(0-9]?[0-9])))(%[\p{N}\p{L}]+)?$
					remote neighbour management address

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protocols - Continued

Attribu				RW	Туре	Mandatory	Default	Description
			lldp:remotePortIdSubType	R-	enumeration			Enums:
								other - reserved
								ifalias - Interface Alias (IfAlias - IETF RFC 2863)
								portcomponent - Port component (EntPhysicalAlias IETF RFC 4133)
								macaddress - MAC address (IEEE Std 802)
								networkaddress - Network Address
								ifname - Interface Name (ifName - IETF RFC 2863)
								agentcircuitid - Agent Circuit Id (IETF RFC 3046)
								local - Locally assigned
								NotSupported - Not Supported
								remote neighbour Port ID Subtype Enumeration
			lldp:remotePortId	R-	string			remote neighbour port Id
			lldp:remotePortDescription	R-	string			remote neighbour port Description
			lldp:remoteChassisIdSubType	R-	enumeration			Enums:
								reserved - reserved
								chassiscomponent - Chassis component (EntPhysicalAlias IETF RFC 4133)
								ifalias - Interface Alias (IfAlias - IETF RFC 2863)
								portcomponent - Port component (EntPhysicalAlias IETF RFC 4133)
								macaddress - MAC address (IEEE Std 802)
								networkaddress - Network Address
								ifname - Interface Name (ifName - IETF RFC 2863)
								local - Locally assigned
								NotSupported - Not Supported
								Chassis ID Subtype Enumeration
			lldp:remoteChassisId	R-	string			remote neighbour Chassis Id

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fujitsu-rasis-utils-framework File: fujitsu-rasis-utils-framework.yang Data

rasis-utils

list all the periodic tasks managed by RASIS Utilities Framework.

At	Attribute		RW	Туре	Mandatory	Default	Description
	she	lf-id	R-	string	X		Shelf ID
	info	p-type	R-	list			Key: name
							Display the options (configurations) of an async task
		name	R-	string	X		The name of an info type
		options	R-	string			The configuration options of the periodic tasks

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fujitsu-rasis-utils-framework File: fujitsu-rasis-utils-framework.yang Remote Procedure Calls

rasis-util-create

Execute an one-time info collection or Schedule a periodic task

At	Attribute		RW	Туре	Mandatory	Default	Description
	input		-W				
		shelf-id	-W	string	X		Shelf ID
		info-type	-W	string	X		Available Options Here: (1) tech_info; (2) backup; (3) any other available options
		options	-W	string			The parameters passed to the script to be executed
	out	put	R-				
		status	R-	string			Length: 1255

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fujitsu-rmon File: fujitsu-rmon.yang Data

rmon

RMON Control and stats params

Attrib	ıte	RW	Туре	Mandatory	Default	Description
CO	control		list			Key: ctrlId
						rmon control parameters
	ctrlId	RW	uint16	X		Range: 1 200
						rmon Control Index: 1200
	owner	RW	ownerType	X		Owner for the current RMON instance.
						Type: string
						Length: 1 127
						rmon control owner
	dataSource	RW	rmon:dataSourceType	X		Pattern:
						(eth){1}-([1-9] [1-3][0-9] [4][0]){1}/[0-5]/[0]/(E[1-2](\.[1-4] :0 \.[1-2]\.([1-9] [1][
						0]){1})? (C([1-9] [1][0-9] [2][0]):0){1} C([1-9] [1][0-9] [2][0-5])/[1-4]{1} C([1-9]
						[[1][0-9][[2][0]){1}){1}
						Source interface for rmon control
	interval	RW	uint32		900	interval in seconds between each sample collection
	bucketsRequested	RW	uint8		32	Total no of samples Requested.
	bucketsGranted	RW	uint8		32	Total no of samples Granted.
sta	ts	RW	list			Key: ctrlId
						rmon stats parameters
	ctrlId	RW	uint16	X		Range: 1 200
						rmon Stats Index: 1200

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fujitsu-rmon File: fujitsu-rmon.yang Data

rmon - Continued

Attr	ibu	te	RW	Туре	Mandatory	Default	Description
		owner	RW	ownerType	X		Owner for the current RMON instance.
							Type: string
							Length: 1 127
							rmon stats owner
		dataSource	RW	rmon:dataSourceType	X		Pattern:
							(eth){1}-([1-9] [1-3][0-9] [4][0]){1}/[0-5]/[0]/(E[1-2](\.[1-4] :0 \.[1-2]\.([1-9] [1][
							0]){1})? (C([1-9] [1][0-9] [2][0]):0){1} C([1-9] [1][0-9] [2][0-5])/[1-4]{1} C([1-9]
							[1][0-9] [2][0]){1}){1}
							Source interface for rmon stats
l	info		RW	presence container			Display rmon status information
		info-control	RW	presence container			
		size	RW	uint16			Size of the Rmon control table
		used	RW	uint16			Current used up number of entries in Rmon Control
		nextIndex	RW	uint16			Next available index in Rmon control table
		info-stats	RW	presence container			
		size	RW	uint16			Size of the Rmon Stats table
		used	RW	uint16			Current used up number of entries in Rmon stats
		nextIndex	RW	uint16			Next available index in Rmon stats Table

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fujitsu-scripting-utility File: fujitsu-scripting-utility.yang Remote Procedure Calls

execute-script

For executing scripts from user interfaces

Attrib	Attribute		RW	Туре	Mandatory	Default	Description	
in	input		-W					
	s	script-ty	ре	-W	choice			
		cli-s	script	-W	case			
			cli-script	-W	empty			Script type is cli
		jsor	n-script	-W	case			
			json-script	-W	empty			Script type is json
		neto	conf-script	-W	case			
			netconf-script	-W	empty			Script type is netconf
	s	script-na	ame	-W	string	X		Name of the script file to execute
	p	paramet	er	-W	string			Optional parameters to be supplied to the script.
								Ex: server=localhost;port=8080
OI	utpu	ıt		R-				
	s	status		R-	enumeration	X		Enums:
								Successful
								Failed
								Successful or Failed
	s	status-m	nessage	R-	string			Output from the script execution, as string

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fujitsu-security-certificates File: fujitsu-security-certificates.yang Remote Procedure Calls

reinstall-certificate

Reinstall the certificate.

At	tribu	te	RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		certificate-id	-W	certificate-id-type	X		Note: leafref
							Path: /secu:security/secuCert:certificates/certificate-id
							ID of the certificate from security table
							<certificate-id> must start with an alphabet and</certificate-id>
							end with a letter or digit. Interior characters are only
							alphabets, digits, minus, underscore and dot. It
							should not end as .pem and should not be the keyword 'default'.
							Type: string
							Length: 3250
							Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
	out	put	R-				
		status	R-	string			

reinstall-ca-certificate

Reinstall the ca-certificate.

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	out	-W				
		ca-certificate-id	-W	leafref	X		Note: leafref
							Path: /secu:security/secuCert:ca-profile/ca-certificate-id
							ID of the ca-certificate from security table
							Path: /secu:security/secuCert:ca-profile/ca-name
	ou	tput	R-				
		status	R-	string			

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snmp

SNMP Agent Configuration

Atı	ttribute		RW	Туре	Mandatory	Default	Description
	number-of-traps		RW	uint32		5	Maximum number of trap-groups
	nur	number-of-communities		uint32		10	Maximum number of v1/v2c communities
	nur	mber-of-targets	RW	uint32		5	Maximum number of v3 target destinations
	nur	mber-of-access-group	RW	uint32		10	Maximum number of v3 access groups
	con	mmunity	RW	list			Key: community-name
							Community grants authorization to its members
		community-name	RW	communityNameType	X		Type: string
							Length: 6 32
							Community string acts like a password and permits access to the SNMP protocol
		authorization	RW	enumeration		read-only	Enums:
							read-only
							Authorization level for the community
	con	ntact	RW	string			Length: 0 255
							System contact information
	des	scription	RW	string			Length: 0 255
							System Description
	loca	eation	RW	string			Length: 0 255
							System location information
	nan	me	RW	string			Length: 0 255
							System Name

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snmp - Continued

Attri	Attribute		Туре	Mandatory	Default	Description
t	rap-group	RW	list			Key: trap-group-name
						Trap group to receive the specified trap notifications
	trap-group-name	RW	targetAddressNameType	X		Type: string
						Length: 6 32
						Name of the trap group
	community-name	RW	communityNameType	X		Type: string
						Length: 6 32
						Name of the community
	categories	RW	enumeration	X		Enums:
						trap
						inform
						Types of traps sent to targets of trap group
	destination-port	RW	uint32	X		Range: 162 102465535
						Assign a SNMP trap port number

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snmp - Continued

Attribute		RW	Туре	Mandatory	Default	Description	
		targets	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
							version neutral. The format of the textual representation
							implies the IP version. This type supports scoped addresses
							by allowing zone identifiers in the address format.
							Type: union
							Type: inet:ipv4-address
							The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Type: inet:ipv6-address
							The ipv6-address type represents an IPv6 address in full,
							mixed, shortened, and shortened-mixed notation. The IPv6
							address may include a zone index, separated by a % sign.

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snmp - Continued

Attribute		Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: $((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).)\{3\}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(\%[\p{N}\p{L}]+)?$
version	RW	version	X		Enter the destination target IPV6 IPV4 address Type: enumeration
					Enums: v1 v2 Version number of SNMP traps
v3		container			SNMP v3 configuration

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snmp - Continued

A	Attribute			RW	Type	Mandatory	Default	Description
		eng	;ine-id	RW	union			Type: yang:hex-string
								Length: 5 32
								Type: enumeration
								Enums:
								use-mac-address
								SNMP V3 Engine ID.
		trap	p-group	RW	list			Key: target-address-name
L								Address of SNMP management application
			target-address-name	RW	target Address Name Type	X		Type: string
								Length: 6 32
								String that identifies the target address

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snmp - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
	targets	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.

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snmp - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: $((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).)\{3\}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?$
					IPv4 IPv6 address of the system to receive traps or informs
destination-port	RW	yang:counter64	X		Range: 162 102465535 Port number for the SNMP target
target-parameters	RW	targetAddressNameType	X		Type: string Length: 6 32
					Target parameters name

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snmp - Continued

Attri	Attribute			Туре	Mandatory	Default	Description
		categories	RW	enumeration	X		Enums:
							trap
							inform
							Types of traps sent to targets of trap group
	targ	get-parameters	RW	list			Key: target-parameters-name
							Target parameters for sending notifications
		target-parameters-name	RW	targetAddressNameType	X		Type: string
							Length: 6 32
							The name of the target parameters
		param-security-name	RW	securityNameType	X		Type: string
							Length: 6 32
							Security name to use when generating SNMP notifications
		target-security-level	RW	securityLevelType	X		Type: enumeration
							Enums:
							noAuthNoPriv
							authNoPriv
							authPriv
							Security level to use when generating SNMP notifications
	use	r	RW	list			Key: username
							User associated with an SNMPv3 group

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snmp - Continued

username RW userNameType X Type: string Length: 6 32 SNMPv3 user-based security model username authentication-protocol RW enumeration none Enums:	
SNMPv3 user-based security model username authentication-protocol RW enumeration none Enums:	
authentication-protocol RW enumeration none Enums:	
authentication-protocol RW enumeration none Enums:	
authentication-protocol RW enumeration none Enums:	
sha	
none	
Authentication type for SNMPv3 user	
authentication-password RW string Length: 8 32	
Authentication password for SNMPv3 user	
privacy-protocol RW enumeration none Enums:	
aes128	
des	
none	
Privacy type for SNMPv3 user	
privacy-password RW string Length: 8 32	
Privacy password for SNMPv3 user	
access-group RW list Key: groupname	
Assign security name and context applicable to	group
groupname RW groupNameType X Type: string	
Length: 6 32	
SNMPv3 group name	

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snmp - Continued

Attrib	Attribute			Туре	Mandatory	Default	Description
	access-security-level		RW	securityLevelType	X		Type: enumeration
							Enums:
							noAuthNoPriv
							authNoPriv
							authPriv
							Security level used for access priviliges
		read-view	RW	vacmAccessViewNameType			Type: string
							Length: 6 32
							Read View Name for the access group
		notify-view	RW	vacmAccessViewNameType			Type: string
							Length: 6 32
							Notify View Name for the access group
fu	fujitsu-snmp-cli-show:snmp-show		R-	container			
	fujitsu-snmp-cli-show:statistics		R-	container			
		fujitsu-snmp-cli-show:input	R-	container			

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snmp - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:inPackets	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inBadVersions	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inBadCommunityNames	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	fujitsu-snmp-cli-show:inBadCommunityUses	R-	yang:counter32			The counter32 type represents a non-negative integer
						that monotonically increases until it reaches a
						maximum value of 2^32-1 (4294967295 decimal), when it
						wraps around and starts increasing again from zero.
						Counters have no defined 'initial' value, and thus, a
						single value of a counter has (in general) no information
						content. Discontinuities in the monotonically increasing
						value normally occur at re-initialization of the
						management system, and at other times as specified in the
						description of a schema node using this type. If such
						other times can occur, for example, the creation of
						a schema node of type counter32 at times other than
						re-initialization, then a corresponding schema node
						should be defined, with an appropriate type, to indicate
						the last discontinuity.
						The counter32 type should not be used for configuration
						schema nodes. A default statement SHOULD NOT be used in
						combination with the type counter32.
						In the value set and its semantics, this type is equivalent
						to the Counter32 type of the SMIv2.
						Type: uint32

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snmp - Continued

Attrib	Attribute			Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:inASNParseErrors	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inTooBigs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inNoSuchNames	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	ute		RW	Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:inBadValues	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attrib	ıte		RW	Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:inReadOnlys	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attrib	ttribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inGenErrs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	ttribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inTotalReqVar	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inTotalSetVar	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inGetRequests	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inGetNexts	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inSetRequests	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description	
			fujitsu-snmp-cli-show:inGetResponses	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inTraps	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inSilentDrops	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inProxyDrops	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	fujitsu-snmp-cli-show:inCommitPendingDrops	R-	yang:counter32			The counter32 type represents a non-negative integer
						that monotonically increases until it reaches a
						maximum value of 2^32-1 (4294967295 decimal), when it
						wraps around and starts increasing again from zero.
						Counters have no defined 'initial' value, and thus, a
						single value of a counter has (in general) no information
						content. Discontinuities in the monotonically increasing
						value normally occur at re-initialization of the
						management system, and at other times as specified in the
						description of a schema node using this type. If such
						other times can occur, for example, the creation of
						a schema node of type counter32 at times other than
						re-initialization, then a corresponding schema node
						should be defined, with an appropriate type, to indicate
						the last discontinuity.
						The counter32 type should not be used for configuration
						schema nodes. A default statement SHOULD NOT be used in
						combination with the type counter32.
						In the value set and its semantics, this type is equivalent
						to the Counter32 type of the SMIv2.
						Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:inThrottleDrops	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32
		fuji	tsu-snmp-cli-show:v3-input	R-	container			

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snmp - Continued

Attril				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:unknownSecurityModel	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:invalidMsgs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:unknownPDUHandlers	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:unavailableContexts	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:unknownContexts	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attril				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:unsupportedSecLevels	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:notInTimeWindows	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attril				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:unknownUserNames	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib				RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:unknownEngineIDs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:wrongDigests	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		fujitsu-snmp-cli-show:decryptionErrors	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32
	fı	ıjitsu-snmp-cli-show:output	R-	container			

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snmp - Continued

Attril	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outPackets	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attril	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outTooBigs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outNoSuchNames	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outBadValues	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attri	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outGenErrs	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outGetRequests	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outGetNexts	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outSetRequests	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outGetResponses	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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snmp - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			fujitsu-snmp-cli-show:outTraps	R-	yang:counter32			The counter32 type represents a non-negative integer
								that monotonically increases until it reaches a
								maximum value of 2^32-1 (4294967295 decimal), when it
								wraps around and starts increasing again from zero.
								Counters have no defined 'initial' value, and thus, a
								single value of a counter has (in general) no information
								content. Discontinuities in the monotonically increasing
								value normally occur at re-initialization of the
								management system, and at other times as specified in the
								description of a schema node using this type. If such
								other times can occur, for example, the creation of
								a schema node of type counter32 at times other than
								re-initialization, then a corresponding schema node
								should be defined, with an appropriate type, to indicate
								the last discontinuity.
								The counter32 type should not be used for configuration
								schema nodes. A default statement SHOULD NOT be used in
								combination with the type counter32.
								In the value set and its semantics, this type is equivalent
								to the Counter32 type of the SMIv2.
								Type: uint32

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fujitsu-ssh-host-key File: fujitsu-ssh-host-key.yang Remote Procedure Calls

generate-ssh-host-key - Continued

At	Attribute		RW	Type	Mandatory	Default	Description
	out	put	R-				
		begin-generation	R-	string			Returned immediately to indicate host key
							generation has begun.

show-ssh-host-key - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
	out	tput	R-				
		status	R-	string			Status of host key. For example:
							'Host Key Generation is in progress' or
							'Host Key Generation Complete' and include a date-time string.
		fingerprint	R-	string			Fingerprint of Host key (once generated).
							Should be blank while generation is in progress.

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fujitsu-ssh-host-key File: fujitsu-ssh-host-key.yang Notifications

ssh-host-key-generation-complete

SSH Host Key generation completed.

Attribute		RW	Туре	Mandatory	Default	Description
5	status	R-	string			
1	fingerprint	R-	string			

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sw-version - Continued

A	Attribute		Type	Mandatory	Default	Description
	bankType	R-	swBankType	X		SW Banks
						Type: enumeration
						Enums:
						ACTIVE - Active Bank
						STAGE - Staging Bank
						BACKUP - Backup Bank
						SECONDARY - Secondary Bank
						sw bank type
	gissue	R-	string			Gissue of the SW in this bank
	build-detail	R-	string			detailed build information
	validation-timer	R-	string			value of validation timer in hh-mm-ss

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sw-version - Continued

At	tribute	RW	Туре	Mandatory	Default	Description
	activation-date-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(a) The date-and-time type does not anow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically
						to change accordingly. Such changes might happen periodically

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sw-version - Continued

	ttribute	RW	Type	Mandatory	Default	Description
Γ						
						(DST) time zone offset changes. The canonical format for
						date-and-time values with an unknown time zone (usually
						referring to the notion of local time) uses the time-offset
						-00:00.
						Type: string
						$Pattern: \ \ \ \ \ \ \ \ \ \ \ \ \ $
						activation date and time: The date load was activated

sw-repository

A list of software repositories

At	tribute	RW	Туре	Mandatory	Default	Description
	repository-bank	R-	swBankType	X		SW Banks
						Type: enumeration
						Enums:
						ACTIVE - Active Bank
						STAGE - Staging Bank
						BACKUP - Backup Bank
						SECONDARY - Secondary Bank
						The repository bank type
	master-manifest-name	R-	string			The name of the master manifest file in this repository bank
	pgm	R-	list			Key: pgm-name
						A list of PGMs which are referred to by the master manifest in this repository
						bank
	pgm-name	R-	string	X		The name of the PGM file

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sw-repository - Continued

L	Attribute		RW	Туре	Mandatory	Default	Description
		gissue	R-	string			GISSUE of the software PGM
		build-detail	R-	string			Detailed build information
		card-support	R-	string			A comma separated list of unitNames supported by this PGM
		present	R-	boolean			Describes whether a PGM's content is present in the repository

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sw-unpack

SW unpack - copies the SW from destination dir to repository. This command is only run at NE if repository is on the NE

A	Attribute		RW	Туре	Mandatory	Default	Description
	inp	out	-W				
		filename	-W	string			Length: 10255
							Path and TAR.GZIP file name which has the load
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

sw-stage

Stage a software PGM file or signed.tgz file for software activation

Att	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		filename	-W	string			Length: 10255
							The software PGM or signed.tgz file name.
		repository	-W	swBankType		STAGE	SW Banks
							Type: enumeration
							Enums:
							ACTIVE - Active Bank
							STAGE - Staging Bank
							BACKUP - Backup Bank
							SECONDARY - Secondary Bank
							The destination repository bank.
		gissue-check	-W	boolean		true	Setting gissue-check to false will disable the upgrade-path checks if
							an upgrade path is specified in the PGM file.

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sw-stage - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		shelfrole-check	-W	boolean		true	Setting shelfrole-check to false will disable the check that would
							prevent loading a MAIN shelf with a PGM file that is designed only
							for shelves configured as TRIBs.
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

sw-activate

Activate a new software load

A	Attribute		RW	Type	Mandatory	Default	Description
	inp	ut	-W				
		gissue	-W	string			GISSUE of the new load which is being activated
		validationTimer	-W	string		01-00-00	Pattern:
							(240-00-00) ((2[0-3][0-9] 1[0-9][0-9] 0?[1-9][0-9] 0?0?[1-9])-[0-5][0-9]-[0-5][0-9
							1)
							Validation timer in hhh-mm-ss (hours-minutes-seconds).
							The validation time is an amount of time after software
							activation during which the user can validate system
							behavior before accepting the new software load. Mininum
							01-00-00 (one hour), maximum 240-00-00.
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

cancel-validation-timer

Cancel the validation timer which was provisioned as part of the sw-activate command

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cancel-validation-timer - Continued

At	Attribute			Туре	Mandatory	Default	Description
At	Attribute		RW	Туре	Mandatory	Default	Description
	inpı	ıt	-W				
		accept	-W	boolean		true	true will cancel the validation timer and accept the new software load,
							false will trigger an immediate reversion to the previous software load
	out	put	R-				
		status	R-	string			Length: 4255
							response of the command

ssw-overwrite

Overwrite of the secondary software repository.

L	Attribute		RW	Type	Mandatory	Default	Description
	О	utput	R-				
Γ		status	R-	string			Length: 4255
							response of the command

format-usb

Format and Encrypt USB device.

	ttrib	ribute		Туре	Mandatory	Default	Description
	ou	tput	R-				
Γ		status	R-	list of			Response of the command.

remove-usb

Safely unmount USB device.

	Attribute		RW	Туре	Mandatory	Default	Description
	OI	output					
Γ		status	R-	list of			Response of the command.

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show-file - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					1 -

show-file

Show one or more files in the specified directory.

A	Attribute			Туре	Mandatory	Default	Description
	inp	out	-W				
		filename	-W	string			Length: 1255
							Specify file(s) to be listed (* is allowed as wild-card).
	output		R-				
		status	R-	list of			File display per request (single file or all files).

delete-file

Delete one or more files in the specified directory.

At	Attribute			RW	Туре	Mandatory	Default	Description
	inpu	ıt		-W				
		delet	te-options	-W	choice			
			admin-level	-W	case			
			admin-level	-W	empty			Warning: Level-6 and Level-4 users can delete any file or directory owned by any
								users of Level 1-6.
			syslog	-W	case			
			syslog	-W	empty			Deletes the file of path /var/log/syslog-local.
		filen	ame	-W	string	X		Length: 1255
								Specify file(s) to be deleted (* is allowed as wild-card).
	outp	output		R-				
		statu	s	R-	string			Length: 1max
								Response of command

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system

System related configurations

Att	tribute	RW	Туре	Mandatory	Default	Description
	vendor	RW	string			Vendor Name - "Fujitsu Limited"
	name	RW	string			Length: 763
						Pattern: (([a-zA-Z]([a-zA-Z0-9-/]*)([a-zA-Z0-9])))
						Admin assigned name/hostname to this system.
						Name starts with a letter, ends with a letter or digit.
						Interior characters are only letters, digits, periods and hyphens.
	location	RW	string			location information
	contact	RW	string			Contact information for this system
	neType	R-	string			Network Element type
	neTypeInDB	RW	string			Network Element Type
	neMgmtMode	RW	neMgmtModeType			NE management plane modes
						Type: enumeration
						Enums:
						Router - Router: NE management plane is running in Router mode
						Bridge - Bridge: NE management plan is running L2 Bridge
						MixMode - MixMode: LCN1 and LCN2 ports in Bridge and all others in Router
						mode
						Network Element Management Modes - Router or Bridge
	softwareVersion	R-	string			Software version of the system
	upTime	R-	uint32			Number of TimeTicks (in one hudredth of second) since last time System was
						initilized
	sys-uptime	R-	string			Displays how long the system has been running.
						The current time, how long the system has been running,
						how many users are currently logged on,
						and the system load averages for the past 1, 5, and 15 minutes
	autoP	RW	boolean			Global flag to turn ON/OFF auto provisioning on the system

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
ЕНТ	RW	EHT-value		0	Factor for Ethernet Holdoff Timer Range <020>
					Type: int32
					Range: 020
					Ethernet Holdoff Timer
AAT	RW	AAT-value			Activation time for alarms in seconds
					Type: enumeration
					Enums:
					aat-zero - alarm activation time = 0
					aat-twoPointFive - alarm activation time = 2.5
					Alarm Activation Time
ADT	RW	ADT-value			Deactivation time for alarms in seconds
					Type: enumeration
					Enums:
					adt-zero - alarm de-activation time = 0
					adt-ten - alarm de-activation time = 10
					Alarm De-activation Time
showFwBackwardCompatAllAlarm	RW	boolean		true	true: show firmwareBackwardCompatibleAll alarm
					false: Do not show firmwareBackwardCompatibleAll alarm
fw-auto-update	RW	boolean		false	true: hitless fw-update triggered automatically after swdl
					false: hitless fw-update has to be triggered manually
sys-vstimer	RW	string		08-00	Pattern: ((([0-3][0-9] 4[0-7])-([0-5][0-9])) 48-00)
					value of validation timer in hh-mm
console	RW	container			Configuration of the console port properties.
console-enabled	RW	boolean		true	Global flag to enable (true) or disable (false) console login on the system

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system - Continued

L	Attribute		RW	Туре	Mandatory	Default	Description
		enable-last-resort-access	RW	boolean		true	Global flag to enable (true) or disable (false) Last Resort Access on the system
		clock	RW	container			Configuration of the system date and time properties.

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system - Continued

Att			RW	Туре	Mandatory	Default	Description
		timezone-name	RW	string		UTC	If Feature: timezone-name
							The TZ database name to use for the system.
							The allowed ones's are
							Mexico/General,
							Mexico/BajaSur,
							Mexico/BajaNorte,
							America/Denver,
							America/Caracas,
							America/Nassau,
							America/Tortola,
							America/Los_Angeles,
							America/Boa_Vista,
							America/Martinique,
							America/Indianapolis,
							America/Phoenix,
							America/Catamarca,
							America/Paramaribo,
							America/Pangnirtung,
							America/Monterrey,
							America/Araguaina,
							America/Guatemala,
							America/Inuvik,
							America/Shiprock,
							America/Adak,
							America/Yakutat,
							America/Halifax,
							America/St_Barthelemy,
							America/Thunder_Bay,
ш					l		

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					America/Godthab,
					America/Sao_Paulo,
					America/Danmarkshavn,
					America/Bahia_Banderas,
					America/Anchorage,
					America/Whitehorse,
					America/Ensenada,
					America/Belem,
					America/Curacao,
					America/Nome,
					America/Menominee,
					America/Vancouver,
					America/Lima,
					America/Guayaquil,
					America/North_Dakota/Center,
					America/North_Dakota/Beulah,
					America/North_Dakota/New_Salem,
					America/Bogota,
					America/Blanc-Sablon,
					America/Recife,
					America/Fortaleza,
					America/Porto_Velho,
					America/Yellowknife,
					America/Edmonton,
					America/Winnipeg,
					America/El_Salvador,
					America/Kentucky/Monticello,
					America/Kentucky/Louisville,
					America/Port_of_Spain,

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system - Continued

Attrib	ute	RW	Туре	Mandatory	Default	Description
						America/Scoresbysund,
						America/Detroit,
						America/Guadeloupe,
						America/Guyana,
						America/Thule,
						America/Manaus,
						America/Marigot,
						America/Iqaluit,
						America/Atikokan,
						America/Juneau,
						America/Swift_Current,
						America/Buenos_Aires,
						America/Santiago,
						America/Bahia,
						America/New_York,
						America/St_Kitts,
						America/Knox_IN,
						America/Maceio,
						America/Mendoza,
						America/Panama,
						America/Cambridge_Bay,
						America/Coral_Harbour,
						America/Virgin,
						America/Anguilla,
						America/Metlakatla,
						America/Cayman,
						America/Puerto_Rico,
						America/Hermosillo,
						America/Creston,

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					America/Aruba,
					America/Montserrat,
					America/Havana,
					America/Eirunepe,
					America/Asuncion,
					America/Nipigon,
					America/Kralendijk,
					America/Rankin_Inlet,
					America/Rosario,
					America/Montevideo,
					America/Santarem,
					America/Tegucigalpa,
					America/Argentina/ComodRivadavia,
					America/Argentina/Catamarca,
					America/Argentina/San_Juan,
					America/Argentina/Salta,
					America/Argentina/Rio_Gallegos,
					America/Argentina/San_Luis,
					America/Argentina/Buenos_Aires,
					America/Argentina/La_Rioja,
					America/Argentina/Mendoza,
					America/Argentina/Ushuaia,
					America/Argentina/Jujuy,
					America/Argentina/Cordoba,
					America/Argentina/Tucuman,
					America/Montreal,
					America/Chicago,
					America/Dawson_Creek,
					America/Tijuana,

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					America/Barbados,
					America/Glace_Bay,
					America/Chihuahua,
					America/Belize,
					America/Jamaica,
					America/St_Thomas,
					America/Moncton,
					America/Boise,
					America/Santo_Domingo,
					America/Cayenne,
					America/Campo_Grande,
					America/Grand_Turk,
					America/Mexico_City,
					America/Mazatlan,
					America/Fort_Wayne,
					America/Noronha,
					America/Jujuy,
					America/Cancun,
					America/Regina,
					America/Santa_Isabel,
					America/Merida,
					America/Resolute,
					America/St_Lucia,
					America/St_Vincent,
					America/Indiana/Petersburg,
					America/Indiana/Indianapolis,
					America/Indiana/Winamac,
					America/Indiana/Marengo,
					America/Indiana/Vevay,

system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					America/Indiana/Vincennes,
					America/Indiana/Tell_City,
					America/Costa_Rica,
					America/Port-au-Prince,
					America/Sitka,
					America/Miquelon,
					America/Goose_Bay,
					America/Louisville,
					America/Cordoba,
					America/Porto_Acre,
					America/Rainy_River,
					America/Antigua,
					America/Lower_Princes,
					America/Dominica,
					America/Matamoros,
					America/Rio_Branco,
					America/Ojinaga,
					America/La_Paz,
					America/Cuiaba,
					America/Managua,
					America/St_Johns,
					HST,
					UTC,
					WET,
					Etc/GMT-1,
					Etc/GMT+3,
					Etc/UTC,
					Etc/GMT+4,
					Etc/GMT-11,

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system - Continued

Attrib	ite	RW	Туре	Mandatory	Default	Description
						Etc/GMT-6,
						Etc/GMT0,
						Etc/Universal,
						Etc/Greenwich,
						Etc/GMT-3,
						Etc/GMT-4,
						Etc/GMT+0,
						Etc/GMT+1,
						Etc/GMT+10,
						Etc/GMT-12,
						Etc/GMT-13,
						Etc/GMT-5,
						Etc/GMT-7,
						Etc/GMT-14,
						Etc/GMT+5,
						Etc/GMT+9,
						Etc/GMT-9,
						Etc/GMT-2,
						Etc/GMT+7,
						Etc/GMT-10,
						Etc/UCT,
						Etc/Zulu,
						Etc/GMT+2,
						Etc/GMT-0,
						Etc/GMT+11,
						Etc/GMT+12,
						Etc/GMT+6,
						Etc/GMT+8,
						Etc/GMT,

system - Continued

Attrib	nte	RW	Туре	Mandatory	Default	Description
						Universal,
						Greenwich,
						Indian/Comoro,
						Indian/Chagos,
						Indian/Maldives,
						Indian/Mayotte,
						Indian/Mauritius,
						Indian/Reunion,
						Indian/Christmas,
						Indian/Mahe,
						Indian/Kerguelen,
						Indian/Antananarivo,
						Indian/Cocos,
						GMT+0,
						Pacific/Honolulu,
						Pacific/Noumea,
						PRC,
						EET,
						NZ,
						Asia/Manila,
						Asia/Hovd,
						Asia/Katmandu,
						Asia/Kamchatka,
						Asia/Makassar,
						Asia/Ujung_Pandang,
						Asia/Dushanbe,
						Asia/Thimbu,
						Asia/Yakutsk,
						Asia/Tehran,

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					Asia/Choibalsan,
					Asia/Novokuznetsk,
					Asia/Irkutsk,
					Asia/Jayapura,
					Asia/Tel_Aviv,
					Asia/Ashgabat,
					Asia/Aqtau,
					Asia/Tashkent,
					Asia/Almaty,
					Asia/Tbilisi,
					Asia/Macau,
					Asia/Ho_Chi_Minh,
					Asia/Ulan_Bator,
					Asia/Ust-Nera,
					Asia/Samarkand,
					Asia/Kuala_Lumpur,
					Asia/Pontianak,
					Asia/Colombo,
					Asia/Omsk,
					Asia/Thimphu,
					Asia/Ashkhabad,
					Asia/Kabul,
					Asia/Dubai,
					Asia/Seoul,
					Asia/Aden,
					Asia/Tokyo,
					Asia/Gaza,
					Asia/Jerusalem,
					Asia/Chungking,

system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					Asia/Hebron,
					Asia/Saigon,
					Asia/Nicosia,
					Asia/Kuwait,
					Asia/Vladivostok,
					Asia/Bangkok,
					Asia/Urumqi,
					Asia/Kashgar,
					Asia/Khandyga,
					Asia/Ulaanbaatar,
					Asia/Magadan,
					Asia/Baghdad,
					Asia/Vientiane,
					Asia/Karachi,
					Asia/Riyadh,
					Asia/Damascus,
					Asia/Macao,
					Asia/Amman,
					Asia/Taipei,
					Asia/Dacca,
					Asia/Calcutta,
					Asia/Harbin,
					Asia/Krasnoyarsk,
					Asia/Shanghai,
					Asia/Bahrain,
					Asia/Chongqing,
					Asia/Novosibirsk,
					Asia/Baku,
					Asia/Pyongyang,

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system - Continued

Attribu	te	RW	Туре	Mandatory	Default	Description
						Asia/Aqtobe,
						Asia/Singapore,
						Asia/Jakarta,
						Asia/Yekaterinburg,
						Asia/Qatar,
						Asia/Phnom_Penh,
						Asia/Bishkek,
						Asia/Hong_Kong,
						Asia/Kathmandu,
						Asia/Anadyr,
						Asia/Yerevan,
						Asia/Kolkata,
						Asia/Sakhalin,
						Asia/Kuching,
						Asia/Dili,
						Asia/Dhaka,
						Asia/Brunei,
						Asia/Beirut,
						Asia/Muscat,
						Asia/Rangoon,
						GB,
						EST5EDT,
						NZ-CHAT,
						ROK,
						EST,
						W-SU,
						MST,
						CET,
						CST6CDT,

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					Europe/Prague,
					Europe/Helsinki,
					Europe/Tiraspol,
					Europe/Vilnius,
					Europe/Zaporozhye,
					Europe/Simferopol,
					Europe/Minsk,
					Europe/Bucharest,
					Europe/Tirane,
					Europe/Zurich,
					Europe/Paris,
					Europe/Brussels,
					Europe/Berlin,
					Europe/Sarajevo,
					Europe/Chisinau,
					Europe/Dublin,
					Europe/Lisbon,
					Europe/Vatican,
					Europe/Belfast,
					Europe/Istanbul,
					Europe/Oslo,
					Europe/Sofia,
					Europe/Nicosia,
					Europe/Podgorica,
					Europe/Samara,
					Europe/Rome,
					Europe/Copenhagen,
					Europe/Belgrade,
					Europe/Mariehamn,

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					Europe/London,
					Europe/Uzhgorod,
					Europe/Kiev,
					Europe/Skopje,
					Europe/Volgograd,
					Europe/Busingen,
					Europe/Isle_of_Man,
					Europe/Luxembourg,
					Europe/Zagreb,
					Europe/Warsaw,
					Europe/Gibraltar,
					Europe/Riga,
					Europe/San_Marino,
					Europe/Monaco,
					Europe/Andorra,
					Europe/Athens,
					Europe/Vaduz,
					Europe/Guernsey,
					Europe/Moscow,
					Europe/Bratislava,
					Europe/Stockholm,
					Europe/Kaliningrad,
					Europe/Madrid,
					Europe/Tallinn,
					Europe/Malta,
					Europe/Amsterdam,
					Europe/Jersey,
					Europe/Vienna,
					Europe/Budapest,

system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					Brazil/West,
					Brazil/Acre,
					Brazil/East,
					PST8PDT,
					CT,
					Zulu,
					MET,
					GMT-0,
					Australia/Brisbane,
					Australia/Sydney,
					Australia/Darwin,
					Australia/Adelaide,
					US/Samoa,
					US/Central,
					US/Eastern,
					US/Aleutian,
					US/Hawaii,
					US/Pacific,
					US/East-Indiana,
					US/Michigan,
					US/Alaska,
					US/Mountain,
					US/Arizona,
					US/Indiana-Starke,
					Chile/Continental,
					Chile/EasterIsland,
					Africa/Cairo,
					GMT,
					Canada/Central,

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system - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
						Canada/Saskatchewan,
						Canada/Atlantic,
						Canada/Newfoundland,
						Canada/Pacific,
						Canada/Mountain,
						Canada/Yukon,
						Canada/East-Saskatchewan,
						ROC.
data	abase	RW	container			Configuration elements for database options.
	usb-secondary	RW	enumeration		enable	Enums:
						disable - Disable Secondary Store over USB.
						enable - Enable Secondary Store over USB.
						If Feature: usb-secondary-store
						Enable or Disable Secondary Store over USB.
ntp		RW	presence container			If Feature: ntp
						Configuration of the NTP client.
	enabled	RW	boolean		true	Enable/Disable NTP synchronization
	servers	RW	list			Key: name
						List of NTP servers to use for system clock
						synchronization. If '/system/ntp/enabled'
						is 'true', then the system will attempt to
						contact and utilize the specified NTP servers.
	name	RW	string	X		An arbitrary name for the NTP server.

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system - Continued

Attribu	ıte		RW	Туре	Mandatory	Default	Description
	8	address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
							version neutral. The format of the textual representation
							implies the IP version. This type supports scoped addresses
							by allowing zone identifiers in the address format.
							Type: union
							Type: inet:ipv4-address
							The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Type: inet:ipv6-address
							The ipv6-address type represents an IPv6 address in full,
							mixed, shortened, and shortened-mixed notation. The IPv6
							address may include a zone index, separated by a % sign.

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system - Continued

Attri	bute		RW	Туре	Mandatory	Default	Description
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format of IPv6 addresses uses the textual
							representation defined in Section 4 of RFC 5952. The
							canonical format for the zone index is the numerical
							format as described in Section 11.2 of RFC 4007.
							Type: string
							Pattern:
							((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
							F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
							0-9]?[0-9])))(%[\p{N}\p{L}]+)?
							TILLI CAL NATIO
		version	RW	ntm vyomion			The address of the NTP server.
		version	KW	ntp-version			The current NTP version supported by corresponding association. Currently support versions 3 and 4.
							Type: uint8
							Range: 34
							Kange. J
							NTP version. Supports versions 3 and 4
\Box							1111 Volsion, Supports Volsions 3 and 4

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system - Continued

Attri	Attribute			Туре	Mandatory	Default	Description
		association-type	RW	enumeration		server	Enums:
							server - Use client association mode. This device
							will not provide synchronization to the
							configured NTP server.
							The desired association type for this NTP server.
		minpoll	RW	ntp-minpoll			The minimal poll interval for this NTP association. Range: 4-17
							Type: uint8
							Range: 417
							The minimal poll interval used in this association. Range: 4-17
		maxpoll	RW	ntp-maxpoll			The maximal poll interval for this NTP association. Range: 4-17
							Type: uint8
							Range: 417
							The maximal poll interval used in this association. Range: 4-17
		prefer	RW	boolean		false	Indicates whether this server should be preferred
							or not.
z	ztp		RW	container			Configuration of the ZTP app.
	ztp-enabled		RW	boolean		true	Enable/Disable ZTP application
	auto-upgrade		RW	boolean		true	Enable/Disable ZTP Boot
	zt	p-oper-data	R-	container			

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system - Continued

A	Attribute		RW	Type	Mandatory	Default	Description	
			controller-reg-status	R-	ctrl-status			status of controller registration
								Type: enumeration
								Enums:
								no-entry - no entry
								not-registered - not registered
								registered - registered
								Controller registration status.

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system - Continued

Attribu	ıte		RW	Туре	Mandatory	Default	Description
		controller-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
							version neutral. The format of the textual representation
							implies the IP version. This type supports scoped addresses
							by allowing zone identifiers in the address format.
							Type: union
							Type: inet:ipv4-address
							The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Type: inet:ipv6-address
							The ipv6-address type represents an IPv6 address in full,
							mixed, shortened, and shortened-mixed notation. The IPv6
							address may include a zone index, separated by a % sign.

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system - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used. The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: ((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).){3}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					IP address of the controller
services	RW	container			System Service Configuration
ssh-server	RW	container			SSH server related configuration
ssh-server-enabled	RW	boolean		true	Enable/Disable SSH server
ssh-server-port	RW	uint16		22	Range: 22 20006021 602332767 6100165535 SSH server port to listen on: 22 20006021 602332767 6100165535
algorithms	RW	container			SSH server related algorithms

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system - Continued

Attrib	Attribute			RW	Туре	Mandatory	Default	Description
			mac	RW	list of			Specifies the mac algorithms supported in SSH.
								The supported mac alogorithms are hmac-md5, hmac-sha1,
								hmac-sha2-256, hmac-sha2-512,
								hmac-sha1-96 and hmac-md5-96
			encryption	RW	list of			Specifies the encryption algorithm supported in SSH.
								The supported encryption algorithms
								are aes128-ctr, aes192-ctr, aes256-ctr, aes128-cbc,
								aes256-cbc and 3des-cbc
	we	b-ser	ver	RW	container			Web Server related configuration
		wel	bgui-enabled	RW	boolean		true	Enable/Disable WebGUI
		web	bgui-timeout	RW	xs:duration			Timeout value for WebGUI.
								PT0M means no timeout. Default is PT30M, ie 30 minutes.
								Minimum acceptable timeout is PT10M, ie 10 minutes.
								Please logout and log back in, for changes to take effect after commit
		rest		RW	container			rest related configuration
			rest-enabled	RW	boolean		false	Enable/Disable REST
		http		RW	presence container			Enables http transport
			http-port	RW	inet:port-number		80	Range: 80 20006021 602332767 6100165535
								HTTP port to listen on: 80 20006021 602332767 6100165535
		http	os	RW	presence container			Enables SSL Transport
			certType	RW	choice	X		
			certificate-id	RW	case			

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system - Continued

Attribute	RW	Type	Mandatory	Default	Description
certificate-id	RW	certificate-id-type			Note: leafref
					Path: /secu:security/secuCert:certificates/certificate-id
					ID of the certificate from security table
					<certificate-id> must start with an alphabet and</certificate-id>
					end with a letter or digit. Interior characters are only
					alphabets, digits, minus, underscore and dot. It
					should not end as .pem and should not be the keyword 'default'.
					Type: string
					Length: 3250
					Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
system-generated-certificate	RW	case			
system-generated-certificate	RW	empty			Use the system generated certificate
https-port	RW	inet:port-number		443	Range: 443 20006021 602332767 6100165535
					HTTPS port to listen on: 443 20006021 602332767 6100165535
protocols	RW	list of			Specifies the SSL/TLS protocol versions to be used by the server.
					The supported protocol versions are tlsv1, tlsv1.1 and tlsv1.2

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system - Continued

Attrib			RW	Туре	Mandatory	Default	Description
		ciphers	RW	list of			Specifies the cipher suites allowed on the secure connection.
							The supported ciphers are
							DHE-RSA-AES256-SHA256,DHE-DSS-AES256-SHA256,
							AES256-SHA256, DHE-RSA-AES128-SHA256, DHE-DSS-AES128-SHA256,
							AES128-SHA256, DHE-RSA-AES256-SHA,
							DHE-DSS-AES256-SHA, AES256-SHA, EDH-RSA-DES-CBC3-SHA,
							EDH-DSS-DES-CBC3-SHA, DES-CBC3-SHA, DHE-RSA-AES128-SHA,
							DHE-DSS-AES128-SHA, AES128-SHA, EDH-RSA-DES-CBC-SHA,
							DES-CBC-SHA,
							ECDHE-RSA-AES256-SHA,ECDHE-RSA-AES128-SHA,ECDH-ECDSA-AES1
							28-SHA,
							ECDH-RSA-AES128-SHA,ECDH-ECDSA-DES-CBC3-SHA,ECDH-RSA-DES-
							CBC3-SHA,
							ECDHE-ECDSA-AES128-SHA,ECDH-ECDSA-AES256-SHA,ECDH-RSA-AE
							S256-SHA,
							ECDHE-ECDSA-DES-CBC3-SHA,ECDHE-RSA-DES-CBC3-SHA,ECDHE-EC
							DSA-AES256-SHA,
							ECDHE-ECDSA-AES128-SHA256,ECDHE-RSA-AES128-SHA256,ECDH-EC
							DSA-AES128-SHA256,
							ECDH-RSA-AES128-SHA256,ECDHE-ECDSA-AES256-SHA384,ECDHE-RS
							A-AES256-SHA384,
							ECDH-ECDSA-AES256-SHA384,ECDH-RSA-AES256-SHA384,
							or the word DEFAULT (to configure all the default
							Ciphers).
	ftp		RW	container			ftp related configuration
		ftp-server	RW	container			
		ftp-server-enabled	RW	boolean		false	Enable/Disable FTP server
		ftp-server-port	RW	uint8		21	Range: 21
							FTP server port to listen on: 21
		ftp-client	RW	container			

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system - Continued

Attrib	tribute R		RW	Туре	Mandatory	Default	Description	
			ftp-client-enabled	RW	boolean		false	Enable/Disable FTP client
	sftp)		RW	container			sftp related configuration
		sftp	p-server	RW	container			
			sftp-server-enabled	RW	boolean		false	Enable/Disable SFTP server
			sftp-server-port	RW	uint16		2202	Range: 20006021 602332767 6100165535
								SFTP server port to listen on: 20006021 602332767 6100165535
			algorithms	RW	container			SSH server related algorithms
			allowed-mac	RW	list of			Specifies the mac algorithms supported in SSH.
								The supported mac alogorithms are hmac-md5, hmac-sha1,
								hmac-sha2-256, hmac-sha2-512,
								hmac-sha1-96 and hmac-md5-96
			allowed-encryption	RW	list of			Specifies the encryption algorithm supported in SSH.
								The supported encryption algorithms
								are aes128-ctr, aes192-ctr, aes256-ctr, aes128-cbc,
								aes256-cbc and 3des-cbc
		sftp	p-client	RW	container			
			sftp-client-enabled	RW	boolean		false	Enable/Disable SFTP client
	teln	et		RW	container			telnet related configuration
		telr	net-enabled	RW	boolean		false	Enable/Disable telnet
		telr	net-port	RW	uint8		23	Range: 23
								Telnet port to listen on: 23
	neto	conf		RW	container			netconf related configuration
		net	conf-enabled	RW	boolean		false	Enable/Disable NETCONF
		net	conf-port	RW	inet:port-number		830	Range: 830 20006021 602332767 6100165535
								NETCONF port to listen on: 830 20006021 602332767 6100165535
		net	conf-timeout	RW	xs:duration			netconf-timeout
	snn	ıр		RW	container			SNMP Agent related configuration
		snn	np-enabled	RW	boolean		false	Enable/Disable SNMP Agent

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system - Continued

Α	Attribute		RW	Туре	Mandatory	Default	Description	
			snmp-port	RW	inet:port-number		161	Range: 161 20006021 602332767 6100165535
								SNMP port to listen on: 161 20006021 602332767 6100165535

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system - Continued

Attribu	ite		RW	Туре	Mandatory	Default	Description
	s	snmp-ip	RW	inet:ip-address		0.0.0.0	The ip-address type represents an IP address and is IP
							version neutral. The format of the textual representation
							implies the IP version. This type supports scoped addresses
							by allowing zone identifiers in the address format.
							Type: union
							Type: inet:ipv4-address
							The ipv4-address type represents an IPv4 address in
							dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Type: inet:ipv6-address
							The ipv6-address type represents an IPv6 address in full,
							mixed, shortened, and shortened-mixed notation. The IPv6
							address may include a zone index, separated by a % sign.

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system - Continued

Attribute	ttribute R		Туре	Mandatory	Default	Description
						values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
						The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: $((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).)\{3\}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(\%[\p\{N\}\p\{L\}]+)?$
	system-snmp:authFailureTrap	RW	snmpv2:snmpEnableAuthen		enabled	SNMP agent-address in V1 trap Enable/Disable SNMP Authentication Failure Trap
		DW	TrapsType			Early Direkt, CNIMD Alama Torra Natification
	system-snmp:alarm-trap	RW	snmpv2:snmpEnableAuthen TrapsType		enabled	Enable/Disable SNMP Alarm Trap Notification
	system-snmp:event-trap	RW	snmpv2:snmpEnableAuthen TrapsType		enabled	Enable/Disable SNMP Common Event Trap Notification
	system-snmp:tca-trap	RW	snmpv2:snmpEnableAuthen TrapsType		enabled	Enable/Disable SNMP TCA Trap Notification
SS	h-algorithm	RW	container			SSH server algorithm related configuration

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system - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description
		key-exchange-algorithm	RW	list of			Specifies the key-exchange-algorithms for User Interface (applicable ports),
							Debug and SFTP ports.
							The supported algorithms are curve25519-sha256@libssh.org,
							diffie-hellman-group-exchange-sha1,
							diffie-hellman-group-exchange-sha256, diffie-hellman-group1-sha1,
							diffie-hellman-group14-sha1,
							diffie-hellman-group14-sha256, diffie-hellman-group16-sha512,
							diffie-hellman-group18-sha512,
							ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521 or the word
							DEFAULT (to configure
							all the default algorithms)
		host-key-algorithm	RW	list of			Specifies the host-key-algorithms for User Interface (applicable ports), Debug and
							SFTP ports.
							The supported algorithms are ssh-dss and ssh-rsa
							or the word DEFAULT (to configure all the default algorithms)
		mac-algorithm	RW	list of			Specifies the mac algorithms for User Interface (applicable ports), Debug and
							SFTP ports.
							The supported algorithms are hmac-md5, hmac-md5-96, hmac-sha1,
							hmac-sha1-96, hmac-sha1-etm@openssh.com, hmac-sha2-256,
							hmac-sha2-256-etm@openssh.com, hmac-sha2-512,
							hmac-sha2-512-etm@openssh.com,
							umac-128-etm@openssh.com, umac-128@openssh.com,
							umac-64-etm@openssh.com,
							umac-64@openssh.com or the word DEFAULT (to configure all the default
							algorithms)

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system - Continued

Attribu			RW	Туре	Mandatory	Default	Description
		encryption-algorithm	RW	list of			Specifies the encryption algorithms for User Interface (applicable ports), Debug
							and SFTP ports.
							The supported encryption algorithms are 3des-cbc, aes128-cbc, aes128-ctr,
							aes128-gcm@openssh.com, aes192-cbc, aes192-ctr, aes256-cbc, aes256-ctr,
							aes256-gcm@openssh.com, arcfour, blowfish-cbc, cast128-cbc,
							chacha20-poly1305@openssh.com or the word DEFAULT (to configure all the
							default algorithms)
	sys	tem-gnmi:gnmi	RW	container			gRPC Network Management Interface related configurations
		system-gnmi:gnmi-enabled	RW	boolean		false	Enable/Disable gNMI.
		system-gnmi:gnmi-port	RW	inet:port-number		6030	Range: 20006021 602332767 6100165535
							gNMI port to listen on: 20006021 602332767 6100165535
		system-gnmi:gnmi-protocols	RW	list of			Specifies the SSL/TLS protocol versions to be used by the server.
							The supported protocol version is tlsv1.2
		system-gnmi:gnmi-certificate-id	RW	certificate-id-type			Note: leafref
							Path: /secu:security/secuCert:certificates/certificate-id
							ID of the certificate from security table
							<certificate-id> must start with an alphabet and</certificate-id>
							end with a letter or digit. Interior characters are only
							alphabets, digits, minus, underscore and dot. It
							should not end as .pem and should not be the keyword 'default'.
							Type: string
							Length: 3250
							Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
filt	er-ti	mer	RW	container			It is used for the filter management of FAN on Blade.
	she	lfId	RW	list			Key: shelf_Id

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system - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description
		shelf_Id	RW	string	X		Note: leafref
							Path: /eqpt:eqpt/shelf/shelfId
							Length: 13
							Pattern: ([1-9] [1-8][0-9] 9[0-4] 10[1-9] [1][1-8][0-9] 19[0-4] 200 201)
		repl	RW	uint8		2	Range: 05
							Number of times the filter can be cleaned
							before the filter needs to be replaced.
							repl = 0 means replace everytime.
							Clean Time = FILTTM /(REPL + 1)
							TYPE=REPLACE has to be specified when
							using REPL in init-filter-timer command.
		filttm	RW	uint8		90	Range: 0 30180
							Filter Replace Time (in Days)
							0 - The Timer is Inhibited
		filttmr	R-	uint8			Range: 0180
							Remaining Filter Replacement Time (in Days)
m	em-i	info	R-	container			It can know use state of the memory.
	ta	rget	R-	list			Key: target
		target	R-	enumeration	X		Enums:
							workRAM - Ram
							storage - Storage disk
	\perp						WorkRAM or Storage disk
		size	R-	uint8			On-board memory size
		used	R-	uint8			Memory utilization
		avail	R-	uint8			Available Memory size

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system - Continued

Att	ttribute R		RW	Туре	Mandatory	Default	Description
	memor	y-statistics	R-	container			System memory status
	ph	ysical	R-	uint64			Total available memory in Mega Bytes
	res	erved	R-	uint64			Total used memory in Mega Bytes
	cpu-sta	tistics	R-	container			System level CPU statistics
	срі	1	R-	list			Key: index, user-type
		index	R-	uint8	X		CPU core index
		user-type	R-	string	X		CPU user type
		instant	R-	decimal64			Fraction digits: 2
							Current CPU usage in %
		avg	R-	decimal64			Fraction digits: 2
							Average CPU usage in %
		min	R-	decimal64			Fraction digits: 2
							Minimum CPU usage in %
		max	R-	decimal64			Fraction digits: 2
							Maximum CPU usage in %
		interval	R-	uint64			CPU statistics computed interval in nanoseconds
	process	-statistics	R-	container			System level process information
	pro	ocess	R-	list			Key: pid
		pid	R-	uint64	X		Process PID
		name	R-	string			process name
		args	R-	string			Arguments passed for the process
		start-time	R-	uint64			Start time of the process
		uptime	R-	uint64			Total process uptime
		cpu-usage-user	R-	uint64			Amount of CPU used, user context
		cpu-usage-system	R-	uint64			Amount of CPU used, system context

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system - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description	
			cpu-utilization	R-	decimal64			Fraction digits: 2
								percentage of CPU utilization
			mem-usage	R-	uint64			Memory usage by the process
			mem-utilization	R-	decimal64			Fraction digits: 2
								percentage of memory utilization

system-state

System group operational state.

Att	Attribute			Туре	Mandatory	Default	Description
	cloc	ck	RW	container			Monitoring of the system date and time properties.
		datetime	R-	string			Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}
							The current system date and time.
	cpu-	n-operating-ratio	R-	container			Operating ratio in each CPU core.
		cores	R-	list			Key: core
		core	R-	string	X		
		now-5s	R-	uint8			Average of CPU availability from now to 5s ago
		now-60s	R-	uint8			Average of CPU availability from now to 60s ago
		now-300s	R-	uint8			Average of CPU availability from now to 300s ago
		heapMemory	R-	uint8			Usage rate of HEAP memory

defaults - Continued

Attribute	RW	Type	Mandatory	Default	Description
		-7 F -			F

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defaults - Continued

Att	Attribute F		Type	Mandatory	Default	Description
	def-neMgmtMode	RW	neMgmtModeType		Bridge	NE management plane modes
						Type: enumeration
						Enums:
						Router - Router: NE management plane is running in Router mode
						Bridge - Bridge: NE management plan is running L2 Bridge
						MixMode - MixMode: LCN1 and LCN2 ports in Bridge and all others in Router
						mode
						Network Element Management Modes - Router or Bridge
	def-ppp-mru	RW	uint32		1500	PPP Maximum Receive Unit size.
	def-ipv4-mtu	RW	uint16		1500	IPv4 Maximum Tranmission Unit size.
	eth:def-eth-transport-btsf	RW	backward-transport-signal-fa		none	Codeword to send during Backward Transport Signal Failure
			ilure-type			Type: enumeration
						Enums:
						none - Nothing
						remote-fault - Remote Fault
						Default codeword to send during Backward Transport Signal Failure

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fujitsu-system File: fujitsu-system.yang Remote Procedure Calls

set-current-datetime

Set the /system-state/clock/current-datetime leaf to the specified value. If the system is using NTP (i.e., /system/ntp/enabled is set to 'true'), then this operation will fail with error-tag 'operation-failed' and error-app-tag value of 'ntp-active'.

A	Attribute		RW	Туре	Mandatory	Default	Description
	input		-W				
		current-datetime	-W	string	X		Pattern:
							(19[7-9][0-9] 20[0-2][0-9] 203[0-5]) - (0[1-9] 1[0-2]) - (0[1-9] [1-2][0-9] 3[0-1])T([0-1) 1[0-1]) - (0[1-9] 1[0-1] 1[0-1] 1[0-1]) - (0[1-9] 1[0-1] 1[0-1] 1[0-1]) - (0[1-9] 1[0-1] 1[0-
							-1][0-9] 2[0-3]):([0-5][0-9]):([0-5][0-9])(\.([0-9]+))?
							The current system date and time.Format: CCYY-MM-DDTHH:MM:SS.mm
	output		R-				
		status	R-	string			

restartSystem - Continued

At	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		level	-W	RestartLevel	X		initialization level for restart
							Type: enumeration
							Enums:
							cold - cold re-start
							warm - warm re-start
							restart level.
	output		R-				
		status	R-	string			

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security

Security related Configurations

At	tribu	te	RW	Туре	Mandatory	Default	Description
	defa	aults	RW	container			
		uage	RW	usersecu-type:uage-type	X		User account aging.
							A user account that has been "aged out" is simply disabled (not deleted).
							Uage does not apply to Level 4 and 6 users.
							Type: union
							Type: uint16
							Range: 190
							Type: enumeration
							Enums:
							OFF
							(Deprecated) Use 'set security systemwide username-minimum-length <>' instead
		page	RW	usersecu-type:page-type	X		Password Aging.
							A password that has been "aged out" results in requiring that the
							user change his or her password on the next login.
							Type: union
							Type: uint16
							Range: 2590
							Type: enumeration
							Enums:
							OFF
							(Deprecated) Use 'set security systemwide password-minimum-length <>' instead

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security - Continued

Attribu	Attribute		Type	Mandatory	Default	Description
	minit	RW	usersecu-type:minit-type	X		The minimum time interval that must expire before a user
						is allowed to change his or her password.
						Type: union
						Type: uint16
						Range: 115
						Type: enumeration
						Enums:
						OFF
	reauth	RW	usersecu-type:reauth-type	X		If y, upon the first login into a newly create user account, the
						user is required to enter a new password.
						Type: yORn-type
	idle-timeout	RW	uint64	X		Range: 0 8192
sys	temwide	RW	container			
	authentication-order	RW	list of			AAA authentication order defines the destination hierarchy for authentication and
						authorization
	accounting-order	RW	list of			AAA accounting order defines the destination hierarchy for accounting audit
						logging
	username-minimum-length	RW	usersecu-type:umin-type			Minimum number of characters in username
						Type: uint16
						Range: 310
						Minimum Username length

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security - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
	password-minimum-length	RW	usersecu-type:pmin-type			Minimum password length
						Type: uint16
						Range: 620
						Minimum Password length
	password-mode	RW	usersecu-type:pcontent-type			Determines the allowed password content
						Type: enumeration
						Enums:
						BASIC - Password must contain at least one alphabetic and
						one non-alphabetic character:
						a) Allowed Alphabetic characters includes
						lower case alphabetic(a-z) and upper alphabetic (A-Z)
						b) Allowed Non alphabetic includes
						Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
						Password must not contain Username.
						ENHANCED - Password must contain at least 2 characters from
						each of the following groups:
						a) Lower case alphabetic (a-z)
						b) Upper case alphabetic (A-Z)
						c) Numeric 0-9
						d) Special characters !@\$%^&*()[]~{}.+
						Password must not contain Username.
						Determines the allowed password content - BASIC or ENHANCED

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security - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		pre-login-banner	RW	string		Welcome to the	Length: 01600
						FUJITSU	
						1FINITY	Pre-login banner that is to be displayed before user enters the login
						Copyright	details
						Fujitsu	
						Network	
						Communicatio	
						ns	
		post-login-banner	RW	string		NOTICE:	Length: 01600
						THIS IS A	
						PRIVATE	Post-login banner that is to be displayed after successful login
						COMPUTER	
						SYSTEM.	
						UNAUTHORI	
						ZED ACCESS	
						OR USE MAY	
						LEAD TO	
						PROSECUTIO	
						N.	

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security - Continued

Attı	Attribute		RW	Туре	Mandatory	Default	Description
		uage	RW	usersecu-type:uage-type		OFF	User account aging.
							A user account that has been "aged out" is simply disabled (not deleted).
							Uage does not apply to Level 4 and 6 users.
							Type: union
							Type: uint16
							Range: 190
							Type: enumeration
							Enums:
							OFF
							(Deprecated) Systemwide user account aging
		umin	RW	usersecu-type:umin-type			Minimum number of characters in username
							Type: uint16
							Range: 310
							(Deprecated) Use 'set security systemwide username-minimum-length <>' instead
		pmin	RW	usersecu-type:pmin-type			Minimum password length
							Type: uint16
							Range: 620
							(Deprecated) Use 'set security systemwide password-minimum-length <>' instead

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security - Continued

Attribu	ite	RW	Туре	Mandatory	Default	Description
	pcontent	RW	usersecu-type:pcontent-type			Determines the allowed password content
						Type: enumeration
						Enums:
						BASIC - Password must contain at least one alphabetic and
						one non-alphabetic character:
						a) Allowed Alphabetic characters includes
						lower case alphabetic(a-z) and upper alphabetic (A-Z)
						b) Allowed Non alphabetic includes
						Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
						Password must not contain Username.
						ENHANCED - Password must contain at least 2 characters from
						each of the following groups:
						a) Lower case alphabetic (a-z)
						b) Upper case alphabetic (A-Z)
						c) Numeric 0-9
						d) Special characters !@\$%^&*()[]~{}.+
						Password must not contain Username.
						(Deprecated) Use 'set security systemwide password-mode <>' instead

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security - Continued

Attribu	nte	RW	Туре	Mandatory	Default	Description
	prot	RW	usersecu-type:prot-type			Password Rotation.
						Specifies the number of password (hashes) to save in "circular" history file.
						If the hash of a new password matches a entry in this history file,
						the new password is denied.
						Type: union
						Type: uint16
						Range: 120
						Type: enumeration
						Enums:
						OFF
						(Deprecated) Password Rotation
	smt	RW	usersecu-type:smt-type			If y, then users are permitted to have multiple sessions.
						Type: yORn-type
						(Deprecated) Provides permission to have multiple sessions
	dural	RW	usersecu-type:dural-type			Upon exceeding the number sequential login failure specified by MAXINV
						then the user is inhibited from the number of mintues specified by dural.
						Type: uint16
						Range: 190
						(Deprecated) Duration of account lockout after maximum number of unsuccessful
						user login attempts

security - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
	maxinv	RW	usersecu-type:maxinv-type			Determines the number of sequential unsucessful logins that must before a user is
						inhibited from loggin for the duration of dural.
						Type: union
						Type: uint16
						Range: 15
						Type: enumeration
						Enums:
						OFF
						(Deprecated) Maximum number of unsuccessful user login attempts before
						account gets locked out
	lastlogin	RW	usersecu-type:lastlogin-type			If y, the date time of the last successful login and the
						number of login failures since the last successful login are
						displayed after the user successfully logs in.
						Type: yORn-type
						(Deprecated) Timestamp of the last login and number of login failures since last
						successful login
	warn	RW	usersecu-type:warn-type			Type: string
						Length: 11600
						(Deprecated) Set warning message

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security - Continued

Att	Attribute R		RW	Туре	Mandatory	Default	Description
		debug	RW	usersecu-type:yORn-type			Type: enumeration
							Enums:
							у
							n
							(Deprecated) Enable Debugging level Message
	data	aenc:data-encryption	RW	presence container			configurations specific to data-encryption
		dataenc:bypass-encryption	RW	enumeration	X		Enums:
							not-allowed - allow only encrypted traffic out of the box
							hybrid - allow a mix of encrypted and unencrypted traffic on the box
							choose the strictness level in enforcing encryption on the box
		dataenc:traffic-squelch-tolerance-time	RW	string		00-15	Pattern:
							(00-15 00-1[6-9] 00-[2-5][0-9] 0[1-9]-[0-5][0-9] (1-3][0-9]-[0-5][0-9] 4[0-7]-[0-5]
							[0-9])(-[0-5][0-9])? 48-00(-00)?
							Time within which the peer is expected to have the encryption
							provisioning/deprovisioning completed.Traffic is squelched on expiry of this
							timer. Range [15 minutes, 48 hours]. Default is 15 minutes
		dataenc:interface	RW	list			Key: ifName
							list of interfaces where encryption will be on

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security - Continued

Attribute			RW	Туре	Mandatory	Default	Description
		dataenc:ifName	RW	string	X		Note: leafref
							Path: /if:interfaces/interface/name
							The interface where encryption is to be turned on/off
							Length: 1119
							Pattern:
							$ (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\} - ([1-9] [1-3][0-9] [4][0-4] 20 $
							0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
							1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9] [3][0-8])(\.[1] \.[1]:0 \.[1]\.[1-8]){1} ([3][9] [4][0])(\.[1] \.[1]:0 \.[1]\.[1-9] \.[
							1]\.[1-7][0-9]\.[1]\.[8][0]\\.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
							8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
							[4][0-8]){1}){1}
		dataenc:psk	RW	string	X		Length: 164
							Pattern: [0-9A-Fa-f]+
							The pre-shared key to be used for the handshake
		dataenc:tls-role	RW	choice	X		
		dataenc:server	RW	case			
		dataenc:key-refresh-interval	RW	string		00-15	Pattern:
							(00-15 00-1[6-9] 00-[2-5][0-9] 0[1-9]-[0-5][0-9] [1-3][0-9]-[0-5][0-9] 4[0-7]-[0-5]
							[0-9])(-[0-5][0-9])? 48-00(-00)?
							The key refresh interval in format hh-mm-ss or hh-mm. Range [15 minutes, 48
							hours]. Suggested default 00-15
		dataenc:client	RW	case			

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security - Continued

Attribute		Туре	Mandatory	Default	Description
dataenc:remote-server-ip	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9] 0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

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security - Continued

Attribute			Туре	Mandatory	Default	Description
						values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
						The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: ((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?
	dataenc:encryption-uptime	R-	string			The remote server's IP address Specifies the encryption uptime in the format hh-mm-ss
	dataenc:next-key-refresh-in	R-	string			Pattern: ([0-5][0-9]-[0-5][0-9])(-[0-5][0-9])? Specifies the time left for the next key refresh to happen in the format hh-mm-ss
	dataenc:num-of-failed-key-exchanges dataenc:last-successful-key-exchange	R-	uint64 string			Specifies the number of times key exchange failed Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2} Specifies the date and time of last successful key exchange

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security - Continued

Attribu	ıte		RW	Туре	Mandatory	Default	Description
		dataenc:last-unsuccessful-key-exchange	R-	string			Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}
							Specifies the date and time of last successful key exchange
		dataenc:cipher-used	R-	string			Specifies the cipher used for the current tls session
		dataenc:state	R-	enumeration			Enums:
							INIT
							READY
							UP
							DOWN
							DEGRADED
							Specifies the encryption state
sec	uCe	ert:certificates	RW	list			Key: certificate-id
							A list of certificates for this system.
	sec	cuCert:certificate-id	RW	certificate-id-type	X		<certificate-id> must start with an alphabet and</certificate-id>
							end with a letter or digit. Interior characters are only
							alphabets, digits, minus, underscore and dot. It
							should not end as .pem and should not be the keyword 'default'.
							Type: string
							Length: 3250
							Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
	sec	cuCert:file-path	RW	string	X		The complete path to the .pem formatted certificate
	sec	cuCert:information	R-	string			information about the <cert-id></cert-id>
sec	uCe	ert:ca-profile	RW	list			Key: ca-name
							A list of certificate authority profiles for this system.

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security - Continued

Attril	oute	RW	Туре	Mandatory	Default	Description
	secuCert:ca-name	RW	ca-name-type	X		<ca-name> must start with a letter and</ca-name>
						end with a letter or digit. Interior characters are only
						alphabets, digits, minus, underscore and dot. It
						should not end as .crt
						Type: string
						Length: 3250
						Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
	secuCert:ca-certificate-id	RW	ca-name-type	X		Note: leafref
						Path: /secu:security/secuCert:ca-profile/ca-name
						<ca-certificate-id> should be same as ca-name.</ca-certificate-id>
						<ca-name> must start with a letter and</ca-name>
						end with a letter or digit. Interior characters are only
						alphabets, digits, minus, underscore and dot. It
						should not end as .crt
						Type: string
						Length: 3250
						Pattern: (([a-zA-Z]([a-zA-Z0-9]*)([a-zA-Z0-9])))
	secuCert:file-path	RW	string	X		The complete path to the .crt formatted certificate
	secuCert:information	R-	string			information about the <ca-cert-id></ca-cert-id>
se	ecuCert:system-generated-certificate	RW	container			
	secuCert:information	R-	string			information about the system-generated-certificate
ra	dius-client:radius	RW	container			If Feature: radius
						Configuration of the RADIUS client.
	radius-client:authentication	RW	container			

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security - Continued

Attribu	te		RW	Туре	Mandatory	Default	Description
	radius-client:auth-server			list			Key: auth-server-name
							List of RADIUS servers used by the device.
							When the RADIUS client is invoked by a calling
							application, it sends the query to the first server in
							this list. If no response has been received within
							'timeout' seconds, the client continues with the next
							server in the list. If no response is received from any
							server, the client continues with the first server again.
							When the client has traversed the list 'attempts' times
							without receiving any response, it gives up and returns an
							error to the calling application.
		radius-client:auth-server-name	RW	string	X		Length: 164
							An arbitrary name for the RADIUS server.
		radius-client:transport	RW	choice	X		The transport-protocol-specific parameters for this
							server.
		radius-client:udp	RW	case			
		radius-client:udp	RW	container			Contains UDP-specific configuration parameters
							for RADIUS.

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Attribute	RW	Туре	Mandatory	Default	Description
radius-client:auth-address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

security - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){(0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}))?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					The address of the RADIUS server.
radius-client:auth-port	RW	uint16		1812	Range: 165535
					The port number of the RADIUS server.
radius-client:auth-shared-secret	RW	string	X		The shared secret, which is known to both the
					RADIUS client and server. This shouldn't be in clear text

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security - Continued

Attribut	te			RW	Туре	Mandatory	Default	Description
			radius-client:auth-timeout	RW	uint8		5	Range: 130
								The number of seconds the device will wait for a
								response from each RADIUS server before trying with a
								different server.
		radius-client:	authentication-type	RW	identityref		radius-pap	Base: radius-authentication-type
								The authentication type requested from the RADIUS
								server.
		radius-client:auth-	-server-attempts	RW	uint8		2	Range: 15
								The number of times the device will send a query to
								all of its RADIUS servers before giving up.
		radius-client:auth-	-server-priority	RW	list of			The order of servers the device will attempt authentication.
	radi	us-client:accountir	ng	RW	container			
		radius-client:acct-	server	RW	list			Key: acct-server-name
								List of RADIUS servers used by the device.
								When the RADIUS client is invoked by a calling
								application, it sends the query to the first server in
								this list. If no response has been received within
								'timeout' seconds, the client continues with the next
								server in the list. If no response is received from any
								server, the client continues with the first server again.
								When the client has traversed the list 'attempts' times
								without receiving any response, it gives up and returns an
								error to the calling application.
$ \ \ $		radius-client:	acct-server-name	RW	string	X		Length: 164
								An arbitrary name for the RADIUS server.

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security - Continued

	Attribute]	RW	Туре	Mandatory	Default	Description
		radius-client:transport			RW	choice	X		The transport-protocol-specific parameters for this		
								server.			
ſ		radius-client:udp]	RW	case					
ſ					radius-client:ud	p 1	RW	container			Contains UDP-specific configuration parameters
											for RADIUS.

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security - Continued

Attribute	RW	Туре	Mandatory	Default	Description
radius-client:acct-address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

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security - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					The address of the RADIUS server.
radius-client:acct-port	RW	uint16		1813	Range: 165535
					The port number of the RADIUS server.
radius-client:acct-shared-secret	RW	string	X		The shared secret, which is known to both the
					RADIUS client and server. This shouldn't be in clear text

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Attribu	ıte			RW	Туре	Mandatory	Default	Description
			radius-client:acct-timeout	RW	uint8		5	Range: 130
		\perp						The number of seconds the device will wait for a
		\perp						response from each RADIUS server before trying with a
								different server.
	rac	dius-client:a	acct-server-attempts	RW	uint8		2	Range: 15
								The number of times the device will send a query to
								all of its RADIUS servers before giving up.
	rac	dius-client:a	acct-server-priority	RW	list of			The order of servers the device will attempt to send accounting information.
tac	acsplus:t	tacacs		RW	container			If Feature: tacacs-plus
								Configuration of the TACACS+ client.
	tacacsp	plus:authent	ication	RW	container			
	tac	cacsplus:ser	ver	RW	list			Key: name
								List of TACACS+ Authentication servers used by the device.
		tacacsplus	s:name	RW	string	X		Length: 164
								An arbitrary name for the TACACS+ authentication server.
		tacacsplus	s:transport	RW	choice	X		The transport-protocol-specific parameters for this
								server.
		tacac	splus:tcp	RW	case			
		t	acacsplus:tcp	RW	container			Contains TCP-specific configuration parameters
								for TACACS+.

Attri	bute			RW	Туре	Mandatory	Default	Description
			tacacsplus:address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
								version neutral. The format of the textual representation
								implies the IP version. This type supports scoped addresses
								by allowing zone identifiers in the address format.
								Type: union
								Type: inet:ipv4-address
								The ipv4-address type represents an IPv4 address in
								dotted-quad notation. The IPv4 address may include a zone
								index, separated by a % sign.
								The zone index is used to disambiguate identical address
								values. For link-local addresses, the zone index will
								typically be the interface index number or the name of an
								interface. If the zone index is not present, the default
								zone of the device will be used.
								The canonical format for the zone index is the numerical
								format
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
								Type: inet:ipv6-address
								The ipv6-address type represents an IPv6 address in full,
								mixed, shortened, and shortened-mixed notation. The IPv6
								address may include a zone index, separated by a % sign.

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: ((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					The address of the TACACS+ authentication server.
tacaesplus:port	RW	uint16		49	Range: 165535 The port number of the TACACS+ authentication server.
tacacsplus:shared-secret	RW	string	X		The shared secret, which is known to both the TACACS+ authentication client and server.
tacacsplus:authentication-type	RW	identityref		tacacs-plus-pap	Base: tacacs-authentication-type
					The authentication type requested from the TACACS+ server.

security - Continued

Att	Attribute		RW	Type	Mandatory	Default	Description	
		tacacsp	olus:timeout	RW	uint8		5	Range: 130
								The number of seconds the device will wait for a
								response from each TACACS+ authentication server before trying with a
								different server.
		tacacsp	olus:server-priority	RW	list of			The order of servers in which authentication attempts are done.
	tacacsplus:accounting		RW	container				
	tacacsplus:server		RW	list			Key: name	
								List of TACACS+ Accounting servers used by the device.
		tac	eacsplus:name	RW	string	X		Length: 164
								An arbitrary name for the TACACS+ accounting server.
		tac	eacsplus:transport	RW	choice	X		The transport-protocol-specific parameters for this
								server.
			tacacsplus:tcp	RW	case			
			tacacsplus:tcp	RW	container			Contains TCP-specific configuration parameters
								for TACACS+.

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Attribute	RW	Туре	Mandatory	Default	Description
tacacsplus:address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

security - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					The address of the TACACS+ accounting server.
tacacsplus:port	RW	uint16		49	Range: 165535
					The port number of the TACACS+ accounting server.
tacacsplus:shared-secret	RW	string	X		The shared secret, which is known to both the
					TACACS+ accounting client and server.

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security - Continued

A	Attribute			Туре	Mandatory	Default	Description
		tacacsplus:timeout	RW	uint8		5	Range: 130
							The number of seconds the device will wait for a
							response from each TACACS+ accounting server before trying with a
							different server.
		tacacsplus:server-priority	RW	list of			The order of servers in which accounting messages are sent.
		tacacsplus:events	RW	list of	·		The type of event[s] in which accounting messages are sent.

usergrp

User group related configurations

A	Attribute		Туре	Mandatory	Default	Description
	group	RW	usersecu-type:group-type	X		level-1, level-2, or level-6
						Type: string
	gid	RW	int32			

usersec

User security related configurations

[Attribute		Туре	Mandatory	Default	Description
Ī	username	RW	usersecu-type:username-type	X		A username must begin with a lowercase letter. The remainder of the string
						may contain lowercase letters, numbers 0 through 9, underscores, or dashes.
						Type: string
						Length: 332
						Pattern: [a-z][a-z0-9]*

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usersec - Continued

Att	ribute	RW	Туре	Mandatory	Default	Description
	uage	RW	usersecu-type:uage-type			User account aging.
						A user account that has been "aged out" is simply disabled (not deleted).
						Uage does not apply to Level 4 and 6 users.
						Type: union
						Type: uint16
						Range: 190
						Type: enumeration
						Enums:
						OFF
	page	RW	usersecu-type:page-type			Password Aging.
						A password that has been "aged out" results in requiring that the
						user change his or her password on the next login.
						Type: union
						Type: uint16
						Range: 2590
						Type: enumeration
						Enums:
						OFF
	pidout	R-	int32			

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usersec - Continued

A	ttribute	RW	Туре	Mandatory	Default	Description
	minit	RW	usersecu-type:minit-type			The minimum time interval that must expire before a user
						is allowed to change his or her password.
						Type: union
						Type: uint16
						Range: 115
						Type: enumeration
						Enums:
						OFF
	reauth	RW	usersecu-type:reauth-type			If y, upon the first login into a newly create user account, the
						user is required to enter a new password.
						Type: yORn-type

users

Users related configurations

A	Attribute		RW	Туре	Mandatory	Default	Description
	use	er	RW	list			Key: username
		username	RW	usersecu-type:username-type	X		A username must begin with a lowercase letter. The remainder of the string
							may contain lowercase letters, numbers 0 through 9, underscores, or dashes.
							Type: string
							Length: 332
							Pattern: [a-z][a-z0-9]*
		crypt-password	RW	usersecu-type:crypt-passwor			<sha-256 digest="" string=""></sha-256>
				d-type			Type: string
							Pattern: \$5\$(rounds=\d+\$)?[a-zA-Z0-9./]{1,16}\$[a-zA-Z0-9./]{43}

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users - Continued

Attri	ribute	RW	Туре	Mandatory	Default	Description
	password	RW	usersecu-type:password-type			BASIC pcontent-type Password must contain at least one alphabetic and
						one non-alphabetic character:
						a) Allowed Alphabetic characters includes
						lower case alphabetic(a-z) and upper alphabetic (A-Z)
						b) Allowed Non alphabetic includes
						Numeric (0-9) and special characters $!@\%\%*(-[]-{}.+$
						Password must not contain Username.
						ENHANCED poontent-type Password must contain at least 2 characters from
						each of the following groups:
						a) Lower case alphabetic (a-z)
						b) Upper case alphabetic (A-Z)
						c) Numeric 0-9
						d) Special characters Allowed !@\$%^&*()[]~{}.+
						Password must not contain Username.
						Type: string
						Length: min128
						Pattern: [a-zA-Z0-9!@\$%\^&*()\[\]_\-~{}.+]*
	group	RW	usersecu-type:group-type	X		level-1, level-2, or level-6
						Type: string
	adminState	RW	usersecu-type:adminState-ty		allow	Type: enumeration
			pe			Enums:
						allow
						inhibit

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change-password

RPC to change the logged in user's password

Att	Attribute		RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		currentPassword	-W	usersecu-type:password-type	X		BASIC pcontent-type Password must contain at least one alphabetic and
							one non-alphabetic character:
							a) Allowed Alphabetic characters includes
							lower case alphabetic(a-z) and upper alphabetic (A-Z)
							b) Allowed Non alphabetic includes
							Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
							Password must not contain Username.
							ENHANCED pcontent-type Password must contain at least 2 characters from
							each of the following groups:
							a) Lower case alphabetic (a-z)
							b) Upper case alphabetic (A-Z)
							c) Numeric 0-9
							d) Special characters Allowed !@\$%^&*()[]~{}.+
							Password must not contain Username.
							Type: string
							Length: min128
							Pattern: [a-zA-Z0-9!@\$%\^&*()\[\]_\-~{}.+]*
							provide the current password

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fujitsu-user-security File: fujitsu-user-security.yang Remote Procedure Calls

change-password - Continued

Attrib	oute	RW	Туре	Mandatory	Default	Description
	newPassword	-W	usersecu-type:password-type	X		BASIC pcontent-type Password must contain at least one alphabetic and
						one non-alphabetic character:
						a) Allowed Alphabetic characters includes
						lower case alphabetic(a-z) and upper alphabetic (A-Z)
						b) Allowed Non alphabetic includes
						Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
						Password must not contain Username.
						ENHANCED pcontent-type Password must contain at least 2 characters from
						each of the following groups:
						a) Lower case alphabetic (a-z)
						b) Upper case alphabetic (A-Z)
						c) Numeric 0-9
						d) Special characters Allowed !@\$%^&*()[]~{}.+
						Password must not contain Username.
						Type: string
						Length: min128
						Pattern: [a-zA-Z0-9!@\$%\^&*()\[\]_\-~{}.+]*
						provide a new password

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fujitsu-user-security File: fujitsu-user-security.yang Remote Procedure Calls

change-password - Continued

Attribute	RW	Туре	Mandatory	Default	Description
newPasswordConfirm	-W	usersecu-type:password-type	X		BASIC pcontent-type Password must contain at least one alphabetic and
					one non-alphabetic character:
					a) Allowed Alphabetic characters includes
					lower case alphabetic(a-z) and upper alphabetic (A-Z)
					b) Allowed Non alphabetic includes
					Numeric (0-9) and special characters !@\$%^&*()[]~{}.+
					Password must not contain Username.
					ENHANCED pcontent-type Password must contain at least 2 characters from
					each of the following groups:
					a) Lower case alphabetic (a-z)
					b) Upper case alphabetic (A-Z)
					c) Numeric 0-9
					d) Special characters Allowed !@\$%^&*()[]~{}.+
					Password must not contain Username.
					Type: string
					Length: min128
					Pattern: [a-zA-Z0-9!@\$%\^&*()\[\]_\-~{}.+]*
					re-enter the new password
output	R-				
status	R-	enumeration	X		Enums:
					Successful
					Failed
					Successful or Failed
status-message	R-	string			Gives a more detailed reason for success / failure

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fujitsu-ycable-protection File: fujitsu-ycable-protection.yang Data

ycable-protection

yeable protection

Attrib	ute	RW	Туре	Mandatory	Default	Description
yp	g-group	RW	list			Key: name
						Port level protection group.
	name	RW	string	X		Length: 1255
						Pattern: [a-zA-Z0-9_/-]*
						The name of the protection group.
	pg-id	RW	uint32			An identifier for protection group, unique per port.
	revertive	RW	boolean		false	Sets reversion behavior.
	clear-switching-delay	RW	uint16		0	Range: 0 500 1000 2500
						Switch clear delay time in milliseconds.
	remote-fault-trigger	RW	boolean		true	Trigger switch on detection of backward defect.
	holdoff-timer	RW	container			
	holdoff	RW	uint8		0	Range: 0 20 50 100
						Switch holdoff time in milliseconds.
	holdoff-multiplier	RW	uint8		1	Range: 110
						Switch holdoff time multiplier x100 milliseconds.
	working-if	RW	string	X		Pattern: port-([1-9] [1-3][0-9] [4][0])/0/0/C([1-9] [1][0-9] [2][0])
						Designated working interface.
	ypg-interfaces	RW	list of			List of interfaces in the YPG.
	active-if	R-	string			Length: 0.45
						Active interface in the YPG.

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fujitsu-ycable-protection File: fujitsu-ycable-protection.yang Remote Procedure Calls

protection-switch - Continued

At	ribu	ite	RW	Туре	Mandatory	Default	Description
	inp	ut	-W				
		protection-group	-W	string	X		Note: leafref
							Path: /ycable-protection/ypg-group/name
							Target protection group name.
							Length: 1255
							Pattern: [a-zA-Z0-9_/-]*
		ypg-interface	-W	string	X		Target protection group working/protect interface name.
		switch-command	-W	enumeration	X		Enums:
							Do-Not-Switch
							Force-Switch
							Manual-Switch
							Release
							Protection switch request type.
	out	put	R-				
		status	R-	enumeration	X		Enums:
							Successful
							Failed
							In-progress
							Successful, Failed or In-progress.
		status-message	R-	string			Gives a more detailed status.

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access-lists

This is a top level container for Access Control Lists. It can have one or more Access Control Lists.

At	Attribute						Туре	Mandatory	Default	Description
	acl					RW	list			Key: acl-name
										An Access Control List(ACL) is an ordered list of
										Access List Entries (ACE). Each Access Control Entry has a
										list of match criteria and a list of actions.
										Since there are several kinds of Access Control Lists
										implemented with different attributes for
										different vendors, this
										model accommodates customizing Access Control Lists for
										each kind and for each vendor.
		acce	ess-lis	t-entries		RW	container			The access-list-entries container contains
										a list of access-list-entries(ACE).
			ace			RW	list			Key: rule-name
										List of access list entries(ACE)
			1	natches		RW	container			Definitions for match criteria for this Access List
										Entry.
				ace-typ	e	RW	choice			Type of access list entry.
				ace	e-ip	RW	case			IP Access List Entry.
					ace-ip-version	RW	choice			IP version used in this Acess List Entry.
					ace-ipv4	RW	case		-	

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access-lists - Continued

Attri	bute					RW	Туре	Mandatory	Default	Description
					source-ipv4-network	RW	inet:ipv4-prefix			The ipv4-prefix type represents an IPv4 address prefix.
										The prefix length is given by the number following the
										slash character and must be less than or equal to 32.
										A prefix length value of n corresponds to an IP address
										mask that has n contiguous 1-bits from the most
										significant bit (MSB) and all other bits set to 0.
										The canonical format of an IPv4 prefix has all bits of
										the IPv4 address set to zero that are not part of the
										IPv4 prefix.
										Type: string
										Pattern:
										$(([0-9][1-9][0-9][1[0-9][0-9][2[0-4][0-9][25[0-5]) \setminus) \{3\}([0-9][1-9][0-9][1[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]$
										9] 2[0-4][0-9] 25[0-5])/(([0-9]) ([1-2][0-9]) (3[0-2]))
										Source IPv4 address prefix.
				ace-	-ipv6	RW	case			

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access-lists - Continued

Attril	Attribute							RW	Туре	Mandatory	Default	Description
							source-ipv6-network	RW	inet:ipv6-prefix			The ipv6-prefix type represents an IPv6 address prefix.
												The prefix length is given by the number following the
												slash character and must be less than or equal to 128.
												A prefix length value of n corresponds to an IP address
												mask that has n contiguous 1-bits from the most
												significant bit (MSB) and all other bits set to 0.
												The IPv6 address should have all bits that do not belong
												to the prefix set to zero.
												The canonical format of an IPv6 prefix has all bits of
												the IPv6 address set to zero that are not part of the
												IPv6 prefix. Furthermore, the IPv6 address is represented
												as defined in Section 4 of RFC 5952.
												Type: string
												Pattern:
												((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
												F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
												0-9]?[0-9])))(/(([0-9])([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
												Source IPv6 address prefix.
					prot	ocol		RW	uint8			Internet Protocol number.
					fujit	su-a	icl:source-port	RW	container			Source port definition.
						fuji	tsu-acl:port-range-or-operator	RW	choice			Choice of specifying a port range or a single
												port along with an operator.
							fujitsu-acl:range	RW	case			
							fujitsu-acl:lower-port	RW	inet:port-number	X		Range: 165535
												Lower boundary for a port.

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access-lists - Continued

Attr	Attribute									RW	Туре	Mandatory	Default	Description
									fujitsu-acl:upper-port	RW	inet:port-number	X		Range: 165535
														Upper boundry for port.
								fuji	tsu-acl:operator	RW	case			
									fujitsu-acl:operator	RW	operator		eq	The source and destination port range definitions
														can be further qualified using an operator. An
														operator is needed only if lower-port is specified
														and upper-port is not specified. The operator
														therefore further qualifies lower-port only.
														Type: enumeration
														Enums:
														lt - Less than.
														gt - Greater than.
														eq - Equal to.
														Operator to be applied on the port below.
									fujitsu-acl:port	RW	inet:port-number	X		Range: 165535
														Port number on which to match.
						fuji	tsu-a	icl:de	estination-port	RW	container			Destination port definition.
							fuji	tsu-a	cl:port-range-or-operator	RW	choice			Choice of specifying a port range or a single
					\perp									port along with an operator.
					\perp			fuji	tsu-acl:range	RW	case			
									fujitsu-acl:lower-port	RW	inet:port-number	X		Range: 165535
					\perp									Lower boundary for a port.
									fujitsu-acl:upper-port	RW	inet:port-number	X		Range: 165535
														Upper boundry for port.
								fuji	tsu-acl:operator	RW	case			

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access-lists - Continued

Attrib	Attribute							RW	Туре	Mandatory	Default	Description
							fujitsu-acl:operator	RW	operator		eq	The source and destination port range definitions
												can be further qualified using an operator. An
												operator is needed only if lower-port is specified
												and upper-port is not specified. The operator
												therefore further qualifies lower-port only.
												Type: enumeration
												Enums:
												lt - Less than.
												gt - Greater than.
												eq - Equal to.
												Operator to be applied on the port below.
							fujitsu-acl:port	RW	inet:port-number	X		Range: 165535
												Port number on which to match.
					fujits	u-acl:f	lags	RW	list of			Control Bits(URG/ACK/PSH/RST/FIN/SYN)
		ac	ctions					RW	container			Definitions of action criteria for this Access List
			_									Entry.
			pa	cket-h	andlii	ng		RW	choice		permit	Packet handling action.
				deny				RW	case			
					deny			RW	empty			Deny action.
				pern				RW	case			
					perm	it		RW	empty			Permit action.
		rı	ıle-na	me				RW	string	X		Length: 1255
												Pattern: [a-zA-Z0-9]*
												A unique name identifying this Access List
												Entry(ACE).

access-lists - Continued

4	Attrib	ute	RW	Туре	Mandatory	Default	Description
		acl-name	RW	string	X		Length: 128
							Pattern: [a-zA-Z0-9]*
							The name of access-list. A device MAY restrict the length
							and value of this name, possibly space and special
							characters are not allowed.
Ī	fuj	itsu-acl:auto-permitted-protocols	RW	list of			Auto permit protocols.

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alarms

The top container for this module

Attribu	ite	RW	Туре	Mandatory	Default	Description
cor	ntrol	RW	container			Configuration to control the alarm behaviour.
ala	rm-inventory	R-	container			This list contains all possible alarm types for the system.
						The list also tells if each alarm type has a corresponding
						clear state. The inventory shall only contain concrete alarm
						types.
	alarm-type	R-	list			An entry in this list defines a possible alarm.
	alarm-type-id	R-	alarm-type-id	X		Identifies an alarm type. The description of the alarm type id
						MUST indicate if the alarm type is abstract or not. An
						abstract alarm type is used as a base for other alarm type ids
						and will not be used as a value for an alarm or be present in
						the alarm inventory.
						Type: identityref
						Base: alarm-identity
						The statically defined alarm type identifier for this
						possible alarm.
	alarm-type-qualifier	R-	alarm-type-qualifier			If an alarm type can not be fully specified at design-time by
						alarm-type-id, this string qualifier is used in addition to
						fully define a unique alarm type.
						The configuration of alarm qualifiers is considered being part
						of the instrumentation and out of scope for this module.
						Type: string
						The optionally dynamically defined alarm type identifier
						for this possible alarm.

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alarms - Continued

Att	ribute		RW	Туре	Mandatory	Default	Description
		has-clear	R-	union	X		Type: boolean
							This leaf tells the operator if the alarm will be
							cleared when the correct corrective action has been
							taken. Implementations SHOULD strive for detecting the
							cleared state for all alarm types. If this leaf is
							true, the operator can monitor the alarm until it
							becomes cleared after the corrective action has been
							taken. If this leaf is false the operator needs to
							validate that the alarm is not longer active using other
							mechanisms. Alarms can lack a corresponding clear due
							to missing instrumentation or that there is no logical
							corresponding clear state.
		description	R-	string	X		A description of the possible alarm. It SHOULD include
							information on possible underlying root causes and
							corrective actions.
	summa	ry	R-	list			Key: severity
							A global summary of all alarms in the system.

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alarms - Continued

Attri	bute	RW	Туре	Mandatory	Default	Description
	severity	R-	severity	X		The severity level of the alarm.
						Type: enumeration
						Enums:
						indeterminate - Indicates that the severity level could not be
						determined. This level SHOULD be avoided.
						minor - The 'minor' severity level indicates the existence of a
						non-service affecting fault condition and that corrective
						action should be taken in order to prevent a more serious
						(for example, service affecting) fault. Such a severity
						can be reported, for example, when the detected alarm
						condition is not currently degrading the capacity of the
						resource.
						warning - The 'warning' severity level indicates the detection of
						a potential or impending service affecting fault, before
						any significant effects have been felt. Action should be
						taken to further diagnose (if necessary) and correct the
						problem in order to prevent it from becoming a more
						serious service affecting fault.
						major - The 'major' severity level indicates that a service
						affecting condition has developed and an urgent
						corrective action is required. Such a severity can be
						reported, for example, when there is a severe
						degradation in the capability of the resource
						and its full capability must be restored.
						critical - The 'critical' severity level indicates that a service
						affecting condition has occurred and an immediate
						corrective action is required. Such a severity can be
						reported, for example, when a resource becomes totally
						out of service and its capability must be restored.

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alarms - Continued

Att	Attribute		RW	Туре	Mandatory	Default	Description
							Alarm summary for this severity level.
		total	R-	yang:gauge32			The gauge 32 type represents a non-negative integer, which
							may increase or decrease, but shall never exceed a maximum
							value, nor fall below a minimum value. The maximum value
							cannot be greater than 2^32-1 (4294967295 decimal), and
							the minimum value cannot be smaller than 0. The value of
							a gauge32 has its maximum value whenever the information
							being modeled is greater than or equal to its maximum
							value, and has its minimum value whenever the information
							being modeled is smaller than or equal to its minimum value.
							If the information being modeled subsequently decreases
							below (increases above) the maximum (minimum) value, the
							gauge32 also decreases (increases).
							In the value set and its semantics, this type is equivalent
							to the Gauge32 type of the SMIv2.
							Type: uint32
							Total number of alarms of this severity level.
	alar	rm-list	R-	container			The alarms in the system.

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alarms - Continued

Attri	Attribute		Туре	Mandatory	Default	Description
	number-of-alarms	R-	yang:gauge32			The gauge32 type represents a non-negative integer, which
						may increase or decrease, but shall never exceed a maximum
						value, nor fall below a minimum value. The maximum value
						cannot be greater than 2^32-1 (4294967295 decimal), and
						the minimum value cannot be smaller than 0. The value of
						a gauge32 has its maximum value whenever the information
						being modeled is greater than or equal to its maximum
						value, and has its minimum value whenever the information
						being modeled is smaller than or equal to its minimum value.
						If the information being modeled subsequently decreases
						below (increases above) the maximum (minimum) value, the
						gauge32 also decreases (increases).
						In the value set and its semantics, this type is equivalent
						to the Gauge32 type of the SMIv2.
						Type: uint32
						This object shows the total number of currently
						alarms, i.e., the total number of entries
						in the alarm list.

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alarms - Continued

Attribute		Туре	Mandatory	Default	Description
last-changed	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
					standard for representation of dates and times using the
					Gregorian calendar. The profile is defined by the
					date-time production in Section 5.6 of RFC 3339.
					The date-and-time type is compatible with the dateTime XML
					schema type with the following notable exceptions:
					(a) The date-and-time type does not allow negative years.
					(b) The date-and-time time-offset -00:00 indicates an unknown
					time zone (see RFC 3339) while -00:00 and +00:00 and Z
					all represent the same time zone in dateTime.
					(c) The canonical format (see below) of data-and-time values
					differs from the canonical format used by the dateTime XML
					schema type, which requires all times to be in UTC using
					the time-offset 'Z'.
					This type is not equivalent to the DateAndTime textual
					convention of the SMIv2 since RFC 3339 uses a different
					separator between full-date and full-time and provides
					higher resolution of time-secfrac.
					The canonical format for date-and-time values with a known time
					zone uses a numeric time zone offset that is calculated using
					the device's configured known offset to UTC time. A change of
					the device's offset to UTC time will cause date-and-time values
					to change accordingly. Such changes might happen periodically

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alarms - Continued

Attı	Attribute		RW	Туре	Mandatory	Default	Description
							(DST) time zone offset changes. The canonical format for
							date-and-time values with an unknown time zone (usually
							referring to the notion of local time) uses the time-offset
							-00:00.
							Type: string
							$Pattern: \ \ \ \ \ \ \ \ \ \ \ \ \ $
							A timestamp when the active alarm list was last
							changed. The value can be used by a manager to
							initiate an alarm resynchronization procedure.
		alarm	R-	list			Key: resource, alarm-type-id, alarm-type-qualifier
							The list of alarms. Each entry in the list holds one
							alarm for a given alarm type and device, managed object.
							An alarm can be updated from the underlying device or
							by the user. These changes are reflected in different
							lists below the corresponding alarm.

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alarms - Continued

RW	Туре	Mandatory	Default	Description
R-	resource	X		If the alarming resource is modelled in YANG, this type
				will be an instance-identifier. If the resource is an SNMP
				object, the type will be an object-identifier. If the
				resource is anything else, for example a distinguished
				name or a CIM path, this type will be a string.
				Type: union
				Type: instance-identifier
				Type: yang:object-identifier
				The object-identifier type represents administratively
				assigned names in a registration-hierarchical-name tree.
				Values of this type are denoted as a sequence of numerical
				non-negative sub-identifier values. Each sub-identifier
				value MUST NOT exceed 2^32-1 (4294967295). Sub-identifiers
				are separated by single dots and without any intermediate
				whitespace.
				The ASN.1 standard restricts the value space of the first
				sub-identifier to 0, 1, or 2. Furthermore, the value space
				of the second sub-identifier is restricted to the range
				0 to 39 if the first sub-identifier is 0 or 1. Finally,
				the ASN.1 standard requires that an object identifier
				has always at least two sub-identifiers. The pattern
				captures these restrictions.
				Although the number of sub-identifiers is not limited,
				module designers should realize that there may be
				implementations that stick with the SMIv2 limit of 128
		<u> </u>		

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alarms - Continued

Attribute		RW	Туре	Mandatory	Default	Description
						This type is a superset of the SMIv2 OBJECT IDENTIFIER type
						since it is not restricted to 128 sub-identifiers. Hence,
						this type SHOULD NOT be used to represent the SMIv2 OBJECT
						IDENTIFIER type; the object-identifier-128 type SHOULD be
						used instead.
						Type: string
						Pattern: (([0-1](\.[1-3]?[0-9])) (2\.(0 ([1-9]\d*))))(\.(0 ([1-9]\d*)))*
						Type: string
						The alarming resource. See also 'alt-resource'.
	alarm-type-id	R-	alarm-type-id	X		Identifies an alarm type. The description of the alarm type id
						MUST indicate if the alarm type is abstract or not. An
						abstract alarm type is used as a base for other alarm type ids
						and will not be used as a value for an alarm or be present in
						the alarm inventory.
						Type: identityref
						Base: alarm-identity
						This leaf and the leaf 'alarm-type-qualifier' together
						provides a unique identification of the alarm type.

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alarms - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	alarm-type-qualifier	R-	alarm-type-qualifier	X		If an alarm type can not be fully specified at design-time by
						alarm-type-id, this string qualifier is used in addition to
						fully define a unique alarm type.
						The configuration of alarm qualifiers is considered being part
						of the instrumentation and out of scope for this module.
						Type: string
						This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. Normally, this is not
						the case, and this leaf is the empty string.

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alarms - Continued

Attribu	ite		RW	Туре	Mandatory	Default	Description
	1	ast-status-change	R-	yang:date-and-time	X		The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The data and discretize office 00.00 indicates a suphrasure
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically

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alarms - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for
					date-and-time values with an unknown time zone (usually
					referring to the notion of local time) uses the time-offset
					-00:00.
					Type: string
					Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
					A timestamp when the status-change list was last
					changed. This value equals the latest 'when' leaf in the
					status-change list. The value can be used by a manager
					to read the last status change without iterating the
					status-change list below.

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alarms - Continued

Attribu	ite		RW	Туре	Mandatory	Default	Description
	la	ast-perceived-severity	R-	severity	X		The severity level of the alarm.
							Type: enumeration
							Enums:
							indeterminate - Indicates that the severity level could not be
							determined. This level SHOULD be avoided.
							minor - The 'minor' severity level indicates the existence of a
							non-service affecting fault condition and that corrective
							action should be taken in order to prevent a more serious
							(for example, service affecting) fault. Such a severity
							can be reported, for example, when the detected alarm
							condition is not currently degrading the capacity of the
							resource.
							warning - The 'warning' severity level indicates the detection of
							a potential or impending service affecting fault, before
							any significant effects have been felt. Action should be
							taken to further diagnose (if necessary) and correct the
							problem in order to prevent it from becoming a more
							serious service affecting fault.
							major - The 'major' severity level indicates that a service
							affecting condition has developed and an urgent
							corrective action is required. Such a severity can be
							reported, for example, when there is a severe
							degradation in the capability of the resource
							and its full capability must be restored.
							critical - The 'critical' severity level indicates that a service
							affecting condition has occurred and an immediate
							corrective action is required. Such a severity can be
							reported, for example, when a resource becomes totally
							out of service and its capability must be restored.

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alarms - Continued

Attr	Attribute		RW	Туре	Mandatory	Default	Description	
								The severity of the last status-change that
								reported a severity that is not equal to cleared.
			last-alarm-text	R-	alarm-text	X		The string used to inform operators about the alarm. This
								MUST contain enough information for an operator to be able
								to understand the problem and how to resolve it. If this
								string contains structure, this format should be clearly
								documented for programs to be able to parse that
								information.
								Type: string
								Length: 11024
								The alarm-text of the last status-change that
								reported a severity that is not equal to cleared.
			alarms-ext:last-is-service-affecting	R-	boolean			Indicated whether the alarm is service-affecting
								or non-service-affecting.
			alarms-ext:notification-enabled	R-	boolean			Indicated whether the warning alarm is associated with
								an alarm-notification.
			alarms-ext:circuit-id	R-	string			Length: 045
								Circuit identifier of the resource.
1	ıları	ns-e	ext:alarm-severity-assignment	RW	list			Key: entity, alarm-type-id, alarm-direction, alarm-location
								Alarm severity assignments per entity keyed by
								'alarm-type-id', 'alarm-direction' and 'alarm-location'.
		alaı	rms-ext:entity	RW	string	X		The alarming entity.
		alaı	rms-ext:alarm-type-id	RW	al:alarm-type-id	X		Alarm name. This leaf and the leaves 'alarm-direction'
								and 'alarm-location' together provides a unique
								identification of the alarm type.

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alarms - Continued

Attı	Attribute		RW	Туре	Mandatory	Default	Description
		alarms-ext:alarm-direction	RW	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
							uniquely identify the alarm type. Normally, this is not
							the case, and this leaf is the empty string.
		alarms-ext:alarm-location	RW	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
							uniquely identify the alarm type. location can be either
							near-end or far-end
		alarms-ext:severity-assigned-when-sa	RW	alarm-severity-code			The alarm assignment severity level.
							Type: enumeration
							Enums:
							minor
							major
							critical
							warning
							not-applicable
							The alarm severity level for the service affecting.
		alarms-ext:notification-enabled-when-sa	RW	boolean		true	Indicated whether the service affecting warning alarm is
							associated with an alarm-notification.
		alarms-ext:severity-assigned-when-nsa	RW	alarm-severity-code			The alarm assignment severity level.
							Type: enumeration
							Enums:
							minor
							major
							critical
							warning
							not-applicable
							The alarm severity level for non-service-affecting.

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alarms - Continued

Attribu	ate	RW	Туре	Mandatory	Default	Description
	alarms-ext:notification-enabled-when-nsa	RW	boolean		true	Indicated whether the non-service affecting warning alarm is
						associated with an alarm-notification.
ala	rms-ext:alarm-severity-status	R-	list			Key: entity, alarm-type-id, alarm-direction, alarm-location
						Table listing the alarm-severity-status for each
						resource keyed by entity, alarm-type-id,
						alarm-direction and alarm-location.
	alarms-ext:entity	R-	string	X		The resource/entity-id where an alarm is reported.
	alarms-ext:alarm-type-id	R-	al:alarm-type-id	X		This leaf and the leaf 'alarm-type-qualifier' together
						provides a unique identification of the alarm type.
	alarms-ext:alarm-direction	R-	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. Normally, this is not
						the case, and this leaf is the empty string.
	alarms-ext:alarm-location	R-	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. location can be either
						near-end or far-end
	alarms-ext:severity-assigned-when-sa	R-	alarm-severity-code			The alarm assignment severity level.
						Type: enumeration
						Enums:
						minor
						major
						critical
						warning
						not-applicable
						The alarm severity level for service-affecting.
	alarms-ext:notification-enabled-when-sa	R-	boolean		true	Indicated whether the service affecting warning alarm is
						associated with an alarm-notification.

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alarms - Continued

Attribu	Attribute		Туре	Mandatory	Default	Description
	alarms-ext:severity-assigned-when-nsa	R-	alarm-severity-code			The alarm assignment severity level.
						Type: enumeration
						Enums:
						minor
						major
						critical
						warning
						not-applicable
						The alarm severity level for non-service-affecting.
	alarms-ext:notification-enabled-when-nsa	R-	boolean		true	Indicated whether the non-service affecting warning alarm is
						associated with an alarm-notification.
alar	ms-ext:severity-defaults	R-	list			Key: entity, alarm-type-id, alarm-direction, alarm-location
						Table listing the default values for alarm-severities
						for each entity keyed by entity, alarm-type-id, alarm-direction
						and alarm-location.
	alarms-ext:entity	R-	string	X		The alarming entity.
	alarms-ext:alarm-type-id	R-	al:alarm-type-id	X		This leaf and the leaf 'alarm-type-qualifier' together
						provides a unique identification of the alarm type.
	alarms-ext:alarm-direction	R-	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. Normally, this is not
						the case, and this leaf is the empty string.
	alarms-ext:alarm-location	R-	string	X		This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. location can be either
						near-end or far-end

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alarms - Continued

Attribu	nte	RW	Туре	Mandatory	Default	Description
	alarms-ext:default-severity-when-sa	R-	alarm-severity-code			The alarm assignment severity level.
						Type: enumeration
						Enums:
						minor
						major
						critical
						warning
						not-applicable
						The default alarm severity. Presence of this indicates
						the alarm is service affecting.
	alarms-ext:notification-enabled-when-sa	R-	boolean			Indicated whether the warning alarm is associated with
						an alarm-notification.
	alarms-ext:default-severity-when-nsa	R-	alarm-severity-code			The alarm assignment severity level.
						Type: enumeration
						Enums:
						minor
						major
						critical
						warning
						not-applicable
						The default alarm severity. Presence of this indicates
						the alarm is non-service affecting.
	alarms-ext:notification-enabled-when-nsa	R-	boolean			Indicated whether the warning alarm is associated with
						an alarm-notification.

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alarm-notification

This notification is used to report a state change for an alarm. The same notification is used for sending a newly raised alarm, a cleared alarm or changing the text and/or severity of an existing alarm.

Attribute	RW	Type	Mandatory	Default	Description
		, · ·			· •

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alarm-notification - Continued

Att	ribute	RW	Туре	Mandatory	Default	Description
	resource	R-	resource	X		If the alarming resource is modelled in YANG, this type
						will be an instance-identifier. If the resource is an SNMP
						object, the type will be an object-identifier. If the
						resource is anything else, for example a distinguished
						name or a CIM path, this type will be a string.
						Type: union
						Type: instance-identifier
						Type: yang:object-identifier
						The object-identifier type represents administratively
						assigned names in a registration-hierarchical-name tree.
						Values of this type are denoted as a sequence of numerical
						non-negative sub-identifier values. Each sub-identifier
						value MUST NOT exceed 2^32-1 (4294967295). Sub-identifiers
						are separated by single dots and without any intermediate
						whitespace.
						The ASN.1 standard restricts the value space of the first
						sub-identifier to 0, 1, or 2. Furthermore, the value space
						of the second sub-identifier is restricted to the range
						0 to 39 if the first sub-identifier is 0 or 1. Finally,
						the ASN.1 standard requires that an object identifier
						has always at least two sub-identifiers. The pattern
						captures these restrictions.
						Although the number of sub-identifiers is not limited,
						module designers should realize that there may be
						implementations that stick with the SMIv2 limit of 128

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alarm-notification - Continued

Att	ribute	RW	Туре	Mandatory	Default	Description
						This type is a superset of the SMIv2 OBJECT IDENTIFIER type
						since it is not restricted to 128 sub-identifiers. Hence,
						this type SHOULD NOT be used to represent the SMIv2 OBJECT
						IDENTIFIER type; the object-identifier-128 type SHOULD be
						used instead.
						Type: string
						Pattern: (([0-1](\.[1-3]?[0-9])) (2\.(0 ([1-9]\d*))))(\.(0 ([1-9]\d*)))*
						Type: string
						The alarming resource. See also 'alt-resource'.
	alarm-type-id	R-	alarm-type-id	X		Identifies an alarm type. The description of the alarm type id
						MUST indicate if the alarm type is abstract or not. An
						abstract alarm type is used as a base for other alarm type ids
						and will not be used as a value for an alarm or be present in
						the alarm inventory.
						Type: identityref
						Base: alarm-identity
						This leaf and the leaf 'alarm-type-qualifier' together
						provides a unique identification of the alarm type.

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alarm-notification - Continued

Atı	Attribute		Type	Mandatory	Default	Description
	alarm-type-qualifier	R-	alarm-type-qualifier			If an alarm type can not be fully specified at design-time by
						alarm-type-id, this string qualifier is used in addition to
						fully define a unique alarm type.
						The configuration of alarm qualifiers is considered being part
						of the instrumentation and out of scope for this module.
						Type: string
						This leaf is used when the 'alarm-type-id' leaf cannot
						uniquely identify the alarm type. Normally, this is not
						the case, and this leaf is the empty string.
	alt-resource	R-	list of			Used if the alarming resource is available over other
						interfaces. This field can contain SNMP OID's, CIM paths or
						3GPP Distinguished names for example.
	related-alarms	R-	list			References to related alarms. The reference is expressed as
						values for the alarm list and not leafrefs since the related
						alarm might have been removed from the alarm list.

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alarm-notification - Continued

Attril	oute	RW	Туре	Mandatory	Default	Description
	resource	R-	resource			If the alarming resource is modelled in YANG, this type
						will be an instance-identifier. If the resource is an SNMP
						object, the type will be an object-identifier. If the
						resource is anything else, for example a distinguished
						name or a CIM path, this type will be a string.
						Type: union
						Type: instance-identifier
						Type: yang:object-identifier
						The object-identifier type represents administratively
						assigned names in a registration-hierarchical-name tree.
						assigned manes in a registration memoritan mane acci-
						Values of this type are denoted as a sequence of numerical
						non-negative sub-identifier values. Each sub-identifier
						value MUST NOT exceed 2^32-1 (4294967295). Sub-identifiers
						are separated by single dots and without any intermediate
						whitespace.
						The ASN.1 standard restricts the value space of the first
						sub-identifier to 0, 1, or 2. Furthermore, the value space
						of the second sub-identifier is restricted to the range
						0 to 39 if the first sub-identifier is 0 or 1. Finally,
						the ASN.1 standard requires that an object identifier
						has always at least two sub-identifiers. The pattern
						captures these restrictions.
						Although the number of sub-identifiers is not limited,
						module designers should realize that there may be
						implementations that stick with the SMIv2 limit of 128

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alarm-notification - Continued

Attribu	te	RW	Туре	Mandatory	Default	Description
						This type is a superset of the SMIv2 OBJECT IDENTIFIER type
						since it is not restricted to 128 sub-identifiers. Hence,
						this type SHOULD NOT be used to represent the SMIv2 OBJECT
						IDENTIFIER type; the object-identifier-128 type SHOULD be
						used instead.
						Type: string
						Pattern: (([0-1](\.[1-3]?[0-9])) (2\.(0 ([1-9]\d*))))(\.(0 ([1-9]\d*)))*
						Type: string
						The alarming resource for the related alarm.
	alarm-type-id	R-	alarm-type-id			Identifies an alarm type. The description of the alarm type id
						MUST indicate if the alarm type is abstract or not. An
						abstract alarm type is used as a base for other alarm type ids
						and will not be used as a value for an alarm or be present in
						the alarm inventory.
						Type: identityref
						Base: alarm-identity
						The alarm type identifier for the related alarm.

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alarm-notification - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		alarm-type-qualifier	R-	alarm-type-qualifier			If an alarm type can not be fully specified at design-time by
							alarm-type-id, this string qualifier is used in addition to
							fully define a unique alarm type.
							The configuration of alarm qualifiers is considered being part
							of the instrumentation and out of scope for this module.
							Type: string
							The optional alarm qualifier for the related alarm.
	imp	pacted-resources	R-	list of			Resources that might be affected by this alarm.
	roo	t-cause-resources	R-	list of			Resources that are candidates for causing the alarm.

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alarm-notification - Continued

A	ttribute	RW	Туре	Mandatory	Default	Description
	event-time	R-	yang:date-and-time	X		The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically
ᆫ	1					

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alarm-notification - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for
					date-and-time values with an unknown time zone (usually
					referring to the notion of local time) uses the time-offset
					-00:00.
					Type: string
					Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\d{2}(\d{2})(\d{2})$
					The time the status of the alarm changed. The value
					represents the time the real alarm state change appeared
					in the resource and not when it was added to the
					alarm list.

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alarm-notification - Continued

A	ttribute	RW	Туре	Mandatory	Default	Description
	perceived-severity	R-	severity-with-clear	X		The severity level of the alarm including clear.
						This is used only in state changes for an alarm.
						Type: union
						Type: enumeration
						Enums:
						cleared - The alarm is cleared by the instrumentation.
						Type: severity
						The severity level of the alarm.
						Type: enumeration
						Enums:
						indeterminate - Indicates that the severity level could not be
						determined. This level SHOULD be avoided.
						minor - The 'minor' severity level indicates the existence of a
						non-service affecting fault condition and that corrective
						action should be taken in order to prevent a more serious
						(for example, service affecting) fault. Such a severity
						can be reported, for example, when the detected alarm
						condition is not currently degrading the capacity of the
						resource.
						warning - The 'warning' severity level indicates the detection of
						a potential or impending service affecting fault, before
						any significant effects have been felt. Action should be
						taken to further diagnose (if necessary) and correct the
						problem in order to prevent it from becoming a more
						serious service affecting fault.
						major - The 'major' severity level indicates that a service
						affecting condition has developed and an urgent
						corrective action is required. Such a severity can be
						problem in order to prevent it from becoming a more serious service affecting fault. major - The 'major' severity level indicates that a service affecting condition has developed and an urgent

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alarm-notification - Continued

Att	ribute	RW	Туре	Mandatory	Default	Description
						degradation in the capability of the resource
						and its full capability must be restored.
						critical - The 'critical' severity level indicates that a service
						affecting condition has occurred and an immediate
						corrective action is required. Such a severity can be
						reported, for example, when a resource becomes totally
						out of service and its capability must be restored.
						The severity of the alarm as defined by X.733. Note
						that this may not be the original severity since the alarm
						may have changed severity.
	alarm-text	R-	alarm-text	X		The string used to inform operators about the alarm. This
						MUST contain enough information for an operator to be able
						to understand the problem and how to resolve it. If this
						string contains structure, this format should be clearly
						documented for programs to be able to parse that
						information.
						Type: string
						Length: 11024
						A user friendly text describing the alarm state change.
	alarms-ext:is-service-affecting	R-	boolean			Indicated whether the alarm is service-affecting
						or non-service-affecting.
	alarms-ext:circuit-id	R-	string			Length: 045
						Circuit identifier of the resource.

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interfaces

Interface configuration parameters.

A	tribute	RW	Туре	Mandatory	Default	Description
	interface	RW	list			Key: name
						The list of configured interfaces on the device.
						The operational state of an interface is available in the
						/interfaces-state/interface list. If the configuration of a
						system-controlled interface cannot be used by the system
						(e.g., the interface hardware present does not match the
						interface type), then the configuration is not applied to
						the system-controlled interface shown in the
						/interfaces-state/interface list. If the configuration
						of a user-controlled interface cannot be used by the system,
						the configured interface is not instantiated in the
						/interfaces-state/interface list.

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interfaces - Continued

Attril	Attribute		Туре	Mandatory	Default	Description
	name	RW	string	X		Length: 1119
						Pattern:
						$ \left (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\} - ([1-9] [1-3][0-9] [4][0-4] 20 \right \\$
						0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
						1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9][3][0-8])(\.[1]\.[1]:0\\.[1]\.[1-8]){1}\([3][9][4][0])(\.[1]\\.[1]:0\\.[1]\.[1-9]\\.[
						1]\.[1-7][0-9]\.[1]\.[8][0]\.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
						8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
						[4][0-8]){1}){1}
						The name of the interface.
						A device MAY restrict the allowed values for this leaf,
						possibly depending on the type of the interface.
						For system-controlled interfaces, this leaf is the
						device-specific name of the interface. The 'config false'
						list /interfaces-state/interface contains the currently
						existing interfaces on the device.
						If a client tries to create configuration for a
						system-controlled interface that is not present in the
						/interfaces-state/interface list, the server MAY reject
						the request if the implementation does not support
						pre-provisioning of interfaces or if the name refers to
						an interface that can never exist in the system. A
						NETCONF server MUST reply with an rpc-error with the
						error-tag 'invalid-value' in this case.
						enor ag myana value in uns case.

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interfaces - Continued

A	Attribute			Туре	Mandatory	Default	Description
							If the device supports pre-provisioning of interface
							configuration, the 'pre-provisioning' feature is
							advertised.
							If the device allows arbitrarily named user-controlled
							interfaces, the 'arbitrary-names' feature is advertised.
							When a configured user-controlled interface is created by
							the system, it is instantiated with the same name in the
							/interface-state/interface list.

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interfaces - Continued

Attribute	RW	Туре	Mandatory	Default	Description
description	RW	string			A textual description of the interface.
					A server implementation MAY map this leaf to the ifAlias
					MIB object. Such an implementation needs to use some
					mechanism to handle the differences in size and characters
					allowed between this leaf and ifAlias. The definition of
					such a mechanism is outside the scope of this document.
					Since ifAlias is defined to be stored in non-volatile
					storage, the MIB implementation MUST map if Alias to the
					value of 'description' in the persistently stored
					datastore.
					Specifically, if the device supports ':startup', when
					ifAlias is read the device MUST return the value of
					'description' in the 'startup' datastore, and when it is
					written, it MUST be written to the 'running' and 'startup'
					datastores. Note that it is up to the implementation to
					decide whether to modify this single leaf in 'startup' or
					perform an implicit copy-config from 'running' to
					'startup'.
					If the device does not support ':startup', ifAlias MUST
					be mapped to the 'description' leaf in the 'running'
					datastore.

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interfaces - Continued

Attrib	ute		RW	Туре	Mandatory	Default	Description
	type			identityref	X		Base: interface-type
							The type of the interface.
							When an interface entry is created, a server MAY
							initialize the type leaf with a valid value, e.g., if it
							is possible to derive the type from the name of the
							interface.
							If a client tries to set the type of an interface to a
							value that can never be used by the system, e.g., if the
							type is not supported or if the type does not match the
							name of the interface, the server MUST reject the request.
							A NETCONF server MUST reply with an rpc-error with the
							error-tag 'invalid-value' in this case.
	fuji	tsu-ael:ael	RW	container			ACL related properties.
		fujitsu-acl:acl-name	RW	string			Note: leafref
							Path: /acl:access-lists/acl/acl-name
							Access Control List name.
							Length: 128
							Pattern: [a-zA-Z0-9]*
	ip:i	pv4	RW	presence container			Parameters for the IPv4 address family.
		ip:enabled	RW	boolean		false	Controls whether IPv4 is enabled or disabled on this
							interface. When IPv4 is enabled, this interface is
							connected to an IPv4 stack, and the interface can send
							and receive IPv4 packets.
		ip:forwarding	RW	boolean		false	Controls IPv4 packet forwarding of datagrams received by,
							but not addressed to, this interface. IPv4 routers
							forward datagrams. IPv4 hosts do not (except those
							source-routed via the host).

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interfaces - Continued

Attrib	ıte	F	RW	Туре	Mandatory	Default	Description
	ip:mtu		RW	uint16			Range: 681500
							The size, in octets, of the largest IPv4 packet that the
							interface will send and receive.
							The server may restrict the allowed values for this leaf,
							depending on the interface's type.
							If this leaf is not configured, the operationally used MTU
							depends on the interface's type.
		ip:address R	RW	list			Key: ip
		l · ·	DW	4 11	v		The list of configured IPv4 addresses on the interface.
		ip:ip R	RW	inet:ipv4-address-no-zone	X		An IPv4 address without a zone index. This type, derived from
							ipv4-address, may be used in situations where the zone is
							known from the context and hence no zone index is needed.
							Type: inet:ipv4-address
							Pattern: [0-9\.]*
							The IPv4 address on the interface.
		ip:subnet R	RW	choice	X		The subnet can be specified as a prefix-length, or,
							if the server supports non-contiguous netmasks, as
							a netmask.
	<u> </u>	111 0	RW	case			
		ip:prefix-length	RW	uint8			Range: 032
							The length of the subnet prefix.
		fujitsu-ip:netmask R	RW	case			

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interfaces - Continued

Attr	Attribute				Type	Mandatory	Default	Description
			fujitsu-ip:netmask	RW	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
								notation, i.e., four octets written as decimal numbers
								and separated with the '.' (full stop) character.
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])
								The subnet specified as a contiguous netmask.
		f	ujitsu-ip:preferred	RW	enumeration		false	Enums:
								true
								false
								Mark address availablity for unnumbered interface use.
		fujits	u-ip:update-addr	RW	enumeration		0	Enums:
								0
								1

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Attribute		RW	Туре	Mandatory	Default	Description
	fujitsu-ip:address-src	RW	string			Note: leafref
						Path: /if:interfaces/interface/name
						The source of the shared IP address for unnumbered IP interface.
						Length: 1119
						Pattern:
						$ (otsig otsi otuc oduc odu eth ip ppp och otu oc gre) \{1\} - ([1-9] [1-3][0-9] [4][0-4] 20 $
						0 201){1}/[0-5]/[0]/(E([1-2] [1-2][A-Z][X])(\.[1-6] :0 :1 \.[1-2]:0 :1 \.[1-2]\.([1-9] [
						1][0]){1})? E([1-9] [1][0]){1} (C([1-9] [1][0-9] [2][0]):0 :1){1} C([1-9] [1][0-9] [2
][0-5])/[1-4]{1} C([1-9] [1][0-9] [2][0]){1} ([1-9] [1-3][0-9] [4][0]){1} ([1-9] [1-2
][0-9][3][0-8])(\.[1]\\.[1]:0\\.[1]\.[1-8]){1}\([3][9][4][0])(\.[1]\\.[1]:0\\.[1]\.[1-9]\\.[
						1]\.[1-7][0-9]\.[1]\.[8][0]\.[1]\.[1-9]\.[1-8] \.[1]\.[1-7][0-9]\.[1-8] \.[1]\.[8][0]\.[1-
						8]){1} LCN LCN[1-2](:([1-9] [1][0-5]){1})? LMP LMP2 NEM P([3-9] [1-3][0-9]
						[4][0-8]){1}){1}
	fujitsu-ip:address-force	RW	inet:ipv4-address-no-zone			Note: leafref
						Path: /if:interfaces/interface/ip:ipv4/address/ip
						The IP address to use for the unnumbered interface
						An IPv4 address without a zone index. This type, derived from
						ipv4-address, may be used in situations where the zone is
						known from the context and hence no zone index is needed.
						Type: inet:ipv4-address
						Pattern: [0-9\.]*
ip:	ipv6	RW	presence container			Parameters for the IPv6 address family.
	ip:enabled	RW	boolean		false	Controls whether IPv6 is enabled or disabled on this
						interface. When IPv6 is enabled, this interface is
						connected to an IPv6 stack, and the interface can send
						and receive IPv6 packets.

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interfaces - Continued

Attribu	te	I	RW	Туре	Mandatory	Default	Description
		ip:forwarding F	RW	boolean		false	Controls IPv6 packet forwarding of datagrams received by,
							but not addressed to, this interface. IPv6 routers
							forward datagrams. IPv6 hosts do not (except those
							source-routed via the host).
		ip:mtu F	RW	uint32		1500	Range: 12801500
							The size, in octets, of the largest IPv6 packet that the
							interface will send and receive.
							The server may restrict the allowed values for this leaf,
							depending on the interface's type.
							If this leaf is not configured, the operationally used MTU
							depends on the interface's type.
		ip:address F	RW	list			Key: ip
							The list of configured IPv6 addresses on the interface.
		ip:ip F	RW	inet:ipv6-address-no-zone	X		An IPv6 address without a zone index. This type, derived from
							ipv6-address, may be used in situations where the zone is
							known from the context and hence no zone index is needed.
							Type: inet:ipv6-address
							Pattern: [0-9a-fA-F:\.]*
							The IPv6 address on the interface.
		ip:prefix-length	RW	uint8	X		Range: 0128
							The length of the subnet prefix.
		v6ur:ipv6-router-advertisements	RW	container			Configuration of IPv6 Router Advertisements.

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interfaces - Continued

Attrib	Attribute			Туре	Mandatory	Default	Description
		v6ur:send-advertisements	RW	boolean		false	A flag indicating whether or not the router sends periodic
							Router Advertisements and responds to Router
							Solicitations.
		v6ur:max-rtr-adv-interval	RW	uint16		600	Range: 41800
							The maximum time allowed between sending unsolicited
							multicast Router Advertisements from the interface.
		v6ur:min-rtr-adv-interval	RW	uint16			Range: 31350
							The minimum time allowed between sending unsolicited
							multicast Router Advertisements from the interface.
							The default value to be used operationally if this leaf is
							not configured is determined as follows:
							- if max-rtr-adv-interval >= 9 seconds, the default value
							is 0.33 * max-rtr-adv-interval;
							- otherwise it is 0.75 * max-rtr-adv-interval.
		v6ur:managed-flag	RW	boolean		false	The value to be placed in the 'Managed address
							configuration' flag field in the Router Advertisement.
		v6ur:other-config-flag	RW	boolean		false	The value to be placed in the 'Other configuration' flag
							field in the Router Advertisement.
		v6ur:link-mtu	RW	uint32		0	The value to be placed in MTU options sent by the router.
							A value of zero indicates that no MTU options are sent.
		v6ur:reachable-time	RW	uint32		0	Range: 03600000
							The value to be placed in the Reachable Time field in the
							Router Advertisement messages sent by the router. A value
							of zero means unspecified (by this router).

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At	Attribute			RW	Type	Mandatory	Default	Description
			v6ur:retrans-timer	RW	uint32		0	The value to be placed in the Retrans Timer field in the
								Router Advertisement messages sent by the router. A value
								of zero means unspecified (by this router).
			v6ur:cur-hop-limit	RW	uint8			The value to be placed in the Cur Hop Limit field in the
								Router Advertisement messages sent by the router. A value
								of zero means unspecified (by this router).
								If this parameter is not configured, the device SHOULD use
								the value specified in IANA Assigned Numbers that was in
								effect at the time of implementation.
			v6ur:default-lifetime	RW	uint16			Range: 09000
								The value to be placed in the Router Lifetime field of
								Router Advertisements sent from the interface, in seconds.
								It MUST be either zero or between max-rtr-adv-interval and
								9000 seconds. A value of zero indicates that the router is
								not to be used as a default router. These limits may be
								overridden by specific documents that describe how IPv6
								operates over different link layers.
								If this parameter is not configured, the device SHOULD use
								a value of 3 * max-rtr-adv-interval.

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A	Attribute					Туре	Mandatory	Default	Description
			v6	ur:prefix-list	RW	container			Configuration of prefixes to be placed in Prefix
									Information options in Router Advertisement messages sent
									from the interface.
									Prefixes that are advertised by default but do not have
									their entries in the child 'prefix' list are advertised
									with the default values of all parameters.
									The link-local prefix SHOULD NOT be included in the list
									of advertised prefixes.
				v6ur:prefix	RW	list			Key: prefix-spec
									Configuration of an advertised prefix entry.

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Attrib	Attribute				Туре	Mandatory	Default	Description
			v6ur:prefix-spec	RW	inet:ipv6-prefix	X		The ipv6-prefix type represents an IPv6 address prefix.
								The prefix length is given by the number following the
								slash character and must be less than or equal to 128.
								A prefix length value of n corresponds to an IP address
								mask that has n contiguous 1-bits from the most
								significant bit (MSB) and all other bits set to 0.
								The IPv6 address should have all bits that do not belong
								to the prefix set to zero.
								The canonical format of an IPv6 prefix has all bits of
								the IPv6 address set to zero that are not part of the
								IPv6 prefix. Furthermore, the IPv6 address is represented
								as defined in Section 4 of RFC 5952.
								Type: string
								Pattern:
								$ ((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F][0,4]:)?(: [0-9a-fA-F][0$
								F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
								0-9]?[0-9])))(/(([0-9]) ([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
								IPv6 address prefix.
			v6ur:control-adv-prefixes	RW	choice		advertise	The prefix either may be explicitly removed from the
								set of advertised prefixes, or parameters with which
								it is advertised may be specified (default case).
			v6ur:no-advertise	RW	case			
			v6ur:no-advertise	RW	empty			The prefix will not be advertised.
								This can be used for removing the prefix from the
								default set of advertised prefixes.

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Attrib	Attribute			RW	Туре	Mandatory	Default	Description		
				ve	бur:advertise	RW	case			
					v6ur:valid-lifetime	RW	uint32		2592000	The value to be placed in the Valid Lifetime in
										the Prefix Information option. The designated
										value of all 1's (0xffffffff) represents
										infinity.
					v6ur:on-link-flag	RW	boolean		true	The value to be placed in the on-link flag
										('L-bit') field in the Prefix Information
										option.
					v6ur:preferred-lifetime	RW	uint32		604800	The value to be placed in the Preferred Lifetime
										in the Prefix Information option. The designated
										value of all 1's (0xffffffff) represents
										infinity.
					v6ur:autonomous-flag	RW	boolean		true	The value to be placed in the Autonomous Flag
										field in the Prefix Information option.
	eth	:ethe	ernet			RW	presence container			Ethernet Interface
		eth	n:admin-sta	itus		RW	admin-status		down	The desired state of the interface.
										This leaf has the same read semantics as ifAdminStatus.
		eth	rate:			RW	uint32		500	Range: 1000000 10000000 100000000
										Set rate - units kbps.
		eth	ı:fec			RW	enumeration		off	Enums:
										off - FEC value is off
										rsfec - FEC value is rsfec
										autofec - FEC value is autofec
										Forward Error Correction Choices.
		eth	:circuit-id			RW	string			Length: 045
										Circuit identifier which can be used in
										alarm correlation and/or connection management

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Attri			RW	Туре	Mandatory	Default	Description
		eth:loopback	RW	enumeration		disabled	Enums:
							disabled - default state loopback not active
							enabled - loopback operated
							loopback operation and release
		eth:location	RW	enumeration		nearEnd	Enums:
							nearEnd - Loopback location at near-end
							Set Loopback Location.
		eth:type	RW	enumeration		fac	Enums:
							fac - pre-FEC Loopback in the facility direction
							term - Loopback in the terminal direction
							fac2 - post-FEC Loopback in the facility direction
							Set Loopback type (or direction).
		eth:oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		eth:testsignal	RW	enumeration		disabled	Enums:
							disabled - testsignal not connected
							enabled - testsignal connected
							testsignal connect and disconnect

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Attribu	tribute R		Туре	Mandatory	Default	Description
	eth:testPattern	RW	enumeration		IDLE	Enums:
						PRBS - Unframed, inverted PN-31 pattern or PRBS31 pattern per IEEE 802.3
						clause 50.3.8.2 (inverted PN-31at line rate)
						PRBS31 - PRBS31 with standard mapping per G.709
						PRBS23 - SONET/SDH Framed,inverted PN-23 pattern.
						PRZEROS - pseudo-random with zeros data pattern per IEEE 802.3 clause
						49.2.8
						IDLE - Scrambled IDLE test-pattern per IEEE 802.3ba
						PRBS7 - PRBS7 non-standard mapping for 8B/10B encoded pattern
						Set test signal pattern
	eth:testsignal-type	RW	enumeration		fac	Enums:
						fac - test signal in the facility direction
						term - test signal in the terminal direction
						Set test signal type (or direction).
	eth:bitErrors	R-	uint32			Range: 04294967295
						bit errors for test signal in facility direction.
	eth:bitErrorsTerminal	R-	uint32			Range: 04294967295
						bit errors for test signal in terminal direction.
	eth:syncSeconds	R-	string			number of seconds the received facility test signal is in sync.
	eth:syncSecondsTerminal	R-	string			number of seconds the received terminal test signal is in sync.
	eth:pm	RW	container			Performance Monitoring Info
	eth:pm-threshold	RW	list			Key: pm-name, pm-location, pm-direction
						List of PMs thresholds for the parent entity.
	eth:pm-name	RW	pm-identity	X		
	eth:pm-location	RW	pm-location	X		
	eth:pm-direction	RW	pm-direction	X		

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interfaces - Continued

Attril	oute			RW	Туре	Mandatory	Default	Description
			eth:pm-type	RW	enumeration			Enums:
								binned - Binned PM type
			eth:pm-th-binned	RW	container			
			eth:pm-time-periods	RW	list			Key: pm-time-period
			eth:pm-time-period	RW	enumeration	X		Enums:
								15-min - 15 minutes period
								1-day - 1 day period
			eth:pm-value	RW	uint64	X		
		eth	:pm-oper-range	R-	list			Key: pm-name, pm-location, pm-direction
			eth:pm-name	R-	pm-identity	X		
			eth:pm-location	R-	pm-location	X		
			eth:pm-direction	R-	pm-direction	X		
			eth:pm-alarm-low	R-	pm-data-type			PM Alarm Detect Low
			eth:pm-alarm-high	R-	pm-data-type			PM Alarm Detect High
			eth:pm-capability-min	R-	pm-data-type			PM Operating Range Low
			eth:pm-capability-max	R-	pm-data-type			PM Operating Range High
			eth:pm-warning-low	R-	pm-data-type			PM Threshold Low
			eth:pm-warning-high	R-	pm-data-type			PM Threshold High
		eth:dcn	-data	R-	container			
		eth	:oper-speed	R-	string			speed (UNKNOWN/AUTO/10/100/1000/10000) corresponding to the interface
		eth	:oper-duplex	R-	string			duplex (HALF/FULL) corresponding to the interface
		eth:ethe	ernet-oper-data	R-	container			
		eth	:eth-oper-speed	R-	string			speed (UNKNOWN/AUTO/10/100/1000/10000) corresponding to the interface
		eth	:eth-oper-duplex	R-	string			duplex (HALF/FULL) corresponding to the interface
		eth:spe	ed	RW	leafref			Note: leafref
								Path: /data:pluggableData/pluggableInterface/supportedSpeed
								Set speed of the interface, unit mbps.
								This is for ETH facility.
								Editable when not part of a LAG.

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Attribute			Туре	Mandatory	Default	Description
	eth:duplex	RW	enumeration		full	Enums:
						half - half duplex
						full - full duplex
						Set duplex selections.
	eth:mtu	RW	uint32		1522	Range: 15189000
						Set Maximum Frame Size.
	eth:auto-negotiation	RW	enumeration		enabled	Enums:
						enabled - Auto Negotiation enabled
						disabled - Auto Negotiation disabled
						Set Auto Negotiation: Enabled/Disabled.
	eth:wavelength	R-	uint32		1511	OSC wavelength in nm
	eth:link-remote-info	RW	container			
	eth:remoteSysName	RW	string			Length: 720
						Remote NE's system name
	eth:remoteIfName	RW	string			Remote Eth interface name to which this Eth interface is connected
	eth:transport	RW	container			If Feature: transport-eth
	eth:act-laser	R-	enumeration			Enums:
						none - when laser status is non known. E.g. in situation when hardware cannot be
						accessed to know the laser status.
						normal - laser is on
						shutdown - laser is off
						actual transmit laser status

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interfaces - Continued

Attribut			RW	Туре	Mandatory	Default	Description
		eth:link-monitoring	RW	enumeration		pcs-only	Enums:
							monitor_all
							pcs-only
							Link Monitoring Mode
		eth:transport-signal-failure	RW	enumeration		tsf-local-fault	Enums:
							tsf-local-fault - Local Fault
							tsf-idle - Idle
							Codeword to send during Transport Signal Failure
		eth:backward-transport-signal-failure	RW	enumeration		none	Enums:
							none - Nothing
							remote-fault - Remote Fault
		eth:ltx-off	RW	enumeration		none	Enums:
							none
							rlanflt
							tsfs
							btsfs
							csf
							all
							LTXOFF Choices
		eth:direction	RW	enumeration		bi-dir	Enums:
							bi-dir - bidirectional
							direction Choices
		eth:tx-clock-source	RW	enumeration		through	Enums:
							through - Timing is passed through
							internal - Timing is from internal clock
							Transmit Clock - Specifies source of transit timing

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interfaces - Continued

Attr	Attribute		RW	Туре	Mandatory	Default	Description	
			eth:alm-transfer-delay	RW	uint16			Alarm transfer delay time in msec
								Delays the shutdown (due to ltxoff provisioning) of the laser.
								Has no effect when ltxoff is set to none.
			eth:actual-vstimer	R-	string			Pattern: ([0-4][0-8])-([0-5][0-9])
								The amount of time a valid state timer has been running uninterrupted.
								This timer is in the format <hh>-<mm>.</mm></hh>
			eth:client-signal-failure	RW	enumeration			Enums:
								csf-local-fault - Local Fault
								csf-idle - Idle
								csf-err - 10B_ERR or /v/ codeword
								Codewords to send when receiving Client Signal Failure indication from far-end
								or
								during Transport Singal Failure.
			eth:encapsulation	RW	enumeration			Enums:
								none - No encapsulation. Bit transparent mapping
								gfp-frame-mapped - Encapsulation using frame-mapped GFP (GFP-F)
								gfp-transparent - Encapsulation using transparent GFP (GFP-T)
								gfp-semi-transparent - Encapsulation using semi-transparent GFP (GFP-ST)
								Type of encapsulation to use

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interfaces - Continued

Attribute			Туре	Mandatory	Default	Description
	eth:local-fault-remote-fault	RW	enumeration			Enums:
						lfrf-transport - Transport LF and RF by mapping ordered sets at the client
						interface to GFP data frames
						lfrf-client-signal-fail - Indicate Client Signal Fail toward network when LF
						ordered sets are received at client interface.
						lfrf-client-mgm-frames - Transport LF and RF by mapping ordered sets at the
						client interface to GFP Client Management Frames
						lfrf-terminate - Terminate LF/RF signaling locally. Send RF back to client in
						response to received LF
						lfrf-drop - Drop LF/RF Ordered Sets
						Controls handling of Local Fault and Remote Fault ordered sets at the client
						interface
	eth:lan-signal-fail-indication	RW	enumeration			Enums:
						lsfi-local-fault - Transmit Client Management Frames or LF ordered sets
						lsfi-client-signal-fail - Transmit Client Signal Fail frames (LOS- 01h, LOSYNC-
						02h)
						lsfi-idle - Transmit GFP Idle frames
						LAN Signal Fail forward indication
	eth:gfp-fcs	RW	boolean		false	Specifies whether a GFP payload Frame Check Sum hould be appended to the
						GFP frames
	eth:gfp-upi	RW	string		01	Length: 2
						Pattern: [0-9a-fA-F]*
						User Payload Identifier for GFP client frames
$ \ \ \ $	eth:los-upi	RW	string		01	Length: 2
						Pattern: [0-9a-fA-F]*
						GFP CMF User Payload Identifier for loss of client signal

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interfaces - Continued

Attribu			RW	Туре	Mandatory	Default	Description
		eth:losync-upi	RW	string		02	Length: 2
							Pattern: [0-9a-fA-F]*
							GFP CMF User Payload Identifier for loss of character synchronization
		eth:dci-upi	RW	string		03	Length: 2
							Pattern: [0-9a-fA-F]*
							GFP CMF User Payload Identifier for client defect clear indication
		eth:fdi-upi	RW	string		04	Length: 2
							Pattern: [0-9a-fA-F]*
							GFP CMF User Payload Identifier for client forward defect indication
		eth:rdi-upi	RW	string		05	Length: 2
							Pattern: [0-9a-fA-F]*
							GFP CMF User Payload Identifier for client reverse defect indication
		eth:mac-fcs	RW	enumeration		mac-fcs-transp	Enums:
						ort	mac-fcs-transport - forward frames with FCS errors
							mac-fcs-drop - Drop frames with FCS errors
							Controls handling of MAC FCS error
		eth:ains	RW	ains-state		disabled	
		eth:vstimer	RW	vstimer			
		eth:ACTVST	R-	string			
	och:oc	h	RW	presence container			Optical Channel (OCh)
		h:ains	RW	ains-state		disabled	
		h:vstimer	RW	vstimer			
		h:ACTVST	R-	string			
	oc	h:oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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interfaces - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	och:admin-status	RW	enumeration		down	Enums:
						up - Ready to pass packets.
						down - Not ready to pass packets and not in some test mode.
						The desired state of the interface.
						This leaf has the same read semantics as ifAdminStatus.
	och:rate	RW	identityref			Base: rate-identity
						rate
	och:slot-width	RW	decimal64		50.0	Fraction digits: 2
						Channel slot width in GHz
	och:center-frequency	RW	decimal64		0	Fraction digits: 5
						Frequency of the transmit optical channel
	och:lambda	RW	decimal64			Fraction digits: 2
						lambda corresponding to transmit frequency
	och:center-frequency-rx	RW	decimal64		0	Fraction digits: 5
						Range: 0 186.54375 196.10625
						Frequency of the receive optical channel
	och:lambda-rx	RW	decimal64			Fraction digits: 2
						Lambda corresponding to receive frequency
	och:circuit-id	RW	string			Length: 045
						circuit identifier/user label

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Attribu			RW	Туре	Mandatory	Default	Description
		och:direction	RW	enumeration		bi	Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
							direction of interface
		och:modulation-format	RW	enumeration			Enums:
							dp-qpsk - dual-polarization quadrature phase-shift keying
							dp-qam16 - dual-polarization quadrature amplitude modulation 16
							dc-dp-qam16 - differential coding dual-polarization quadrature amplitude
							modulation 16
							dc-dp-qpsk - differential coding dual-polarization quadrature phase-shift keying
							modulation format
		och:ais-pt	RW	enumeration		ais-pt-none	Enums:
							ais-pt-ais - use AIS-ODU for escalation
							ais-pt-shutdown - shutdown transmit laser
							ais-pt-none - pass thru
							alarm escalation setting
		och:act-laser	R-	enumeration			Enums:
							none - when laser status is non known. E.g. in situation when hardware cannot be
							accessed to know the laser status.
							normal - laser is on
							shutdown - laser is off
							actual transmit laser status

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Attribu			RW	Туре	Mandatory	Default	Description
		och:roadm-type	RW	enumeration		CD	Enums:
							CD - CD degree is applicable.
							AWG - AWG/DIRECT degree is applicable.
							setting of ROADM type.
		och:confmode-type	RW	enumeration		100GONLY	Enums:
							100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
							connected, carries only 100G wavelengths.
							10GMIX - 10GMIX if the ROADM systems degree, to which this PIU is
							connected, carries 10G wavelengths along with 100G wavelengths.
							CNFMODE is a setting to get the best optical reach
		och:Nyquist	RW	enumeration			Enums:
							ON
							OFF
							Current status of Nyquist filter mode.
		och:tx-target-power	RW	decimal64		0	Fraction digits: 2
							Range: -5.006.00
							transmit output power setting.
	otsi	g:otsig	RW	presence container			Optical Transport Signal Group:
							Models the optical channel interfaces for an Optical White Box.
		otsig:ais-pt	RW	enumeration		none	Enums:
							none
		otsig:nwrate	RW	identityref	X		Base: nw-rate-identity
							network rate

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Attribu	te		RW	Туре	Mandatory	Default	Description
		otsig:subcarrier	R-	uint8			Range: 12
							The number of sub carrier.
							This Value is decided depending on otucn-rate-identity.
		otsig:modulation-format	RW	enumeration	X		Enums:
							dp-qpsk - dual-polarization binary phase-shift keying
							dp-qam16 - dual-polarization quadrature amplitude modulation 16
							dc-dp-qam16 - dual-carrier dual-polarization quadrature amplitude modulation
							16
							dc-dp-qam8 - dual-carrier dual-polarization quadrature amplitude modulation 8
							modulation format
		otsig:fec	RW	enumeration		hpdfec1	Enums:
							hpdfec1 - 25% SDFEC used for UTP T200.
							FEC mode.
		otsig:roadm-type	RW	enumeration		CD	Enums:
							CD - CD degree is applicable.
							AWG - AWG/DIRECT degree is applicable.
							setting of ROADM type.
		otsig:confmode-type	RW	enumeration		100GONLY	Enums:
							100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
							connected, carries only 100G wavelengths.
							10GMIX - 10GMIX if the ROADM systems degree, to which this PIU is
							connected, carries 10G wavelengths along with 100G wavelengths.
							CNFMODE is a setting to get the best optical reach

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Attribu	te		RW	Туре	Mandatory	Default	Description
		otsig:hi-performance-fec	RW	enumeration		OFF	Enums:
							ON
							OFF
							hi-performance-fec is used to improve correction of received data on receiving
							side
		otsig:Nyquist	R-	enumeration			Enums:
							ON
							OFF
							Current status of Nyquist filter mode.
		otsig:direction	RW	enumeration		bi	Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
	otsi	cotsi	RW	presence container			Optical Tributary Signal attributes (OTSI) Models the optical channel interfaces
							for an Optical White Box.
							Otsi Types:
							fujitsuOtsi - expected supporting entity is otsig
							fujitsuOtsiV2 - expected supporting entity is port.
		otsi:oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		otsi:admin-status	RW	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		otsi:act-laser	R-	enumeration			Enums:
							normal
							shutdown
							none

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Attribu	ıte		RW	Туре	Mandatory	Default	Description
		otsi:center-frequency	RW	decimal64		0	Fraction digits: 5
							Range: 0 186.14375196.11250
							Frequency of the transmit optical channel.
		otsi:lambda	R-	decimal64			Fraction digits: 2
							Lambda corresponding to transmit frequency.
		otsi:center-frequency-rx	RW	decimal64		0	Fraction digits: 5
							Range: 0 186.14375196.11250
							Frequency of the receive optical channel.
		otsi:lambda-rx	R-	decimal64			Fraction digits: 2
							Lambda corresponding to receive frequency.
		otsi:circuit-id	RW	string			Length: 045
							Circuit identifier/user label.
		otsi:slot-width	RW	decimal64			Fraction digits: 2
							Channel slot width in GHz.
		otsi:param-A	RW	boolean		true	
		otsi:param-B	RW	boolean		true	
		otsi:param-C	RW	uint32		14	Range: 1127
		otsi:param-D	RW	uint32		30	Range: 031
		otsi:param-E	RW	uint32		10	Range: 010
		otsi:param-F	RW	uint32		0	Range: 0127
		otsi:param-G	RW	uint32		0	Range: 0127
		otsi:param-H	RW	uint32		509	Range: 9509
		otsi:param-I	RW	uint32		509	Range: 9509
		otsi:param-J	RW	decimal64		0	Fraction digits: 4
							Range: -8192.00008191.9375

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Attr	bute		RW	Туре	Mandatory	Default	Description
		otsi:param-K	RW	decimal64		0	Fraction digits: 4
							Range: -2048.00002047.9375
		otsi:param-L	RW	decimal64		0	Fraction digits: 4
							Range: -2048.00002047.9375
		otsi:param-M	RW	uint32		0	Range: 0763
		otsi:ais-pt	RW	enumeration		none	Enums:
							none
							Alarm transfer setting for Alarm Indication Signal.
		otsi:transmit-power	RW	decimal64			Fraction digits: 2
							Range: -8.001.00
							Transmit power setting.
		otsi:otsi-rate	RW	identityref	X		Base: otucn-nw-rate-identity
							Network rate.
		otsi:modulation-format	RW	enumeration	X		Enums:
							dp-qam16 - dual-polarization quadrature amplitude modulation 16
							dp-qam32 - dual-polarization quadrature amplitude modulation 32
							dp-qam64 - dual-polarization quadrature amplitude modulation 64
							8psk - phase shift keying with 8 states
							8psk-2 - phase shift keying with 8 states - 2
							Modulation format.

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Attrib	ute		RW	Туре	Mandatory	Default	Description
		otsi:fec	RW	enumeration			Enums:
							sdfec3 - Soft Decision FEC 3
							sdfec4 - Soft Decision FEC 4
							sdfec5 - Soft Decision FEC 5
							sdfec6 - Soft Decision FEC 6
							sdfec2 - Soft Decision FEC 2
							FEC mode.
		otsi:roadm-type	RW	enumeration		CD	Enums:
							CD - Colourless Directionless degree is applicable.
							Setting of ROADM type.
		otsi:confmode-type	RW	enumeration		100GONLY	Enums:
							100GONLY - 100GONLY if the ROADM systems degree, to which this PIU is
							connected, carries only 100G wavelengths.
							Config Mode is a setting to get the best optical reach.
		otsi:nyquist	R-	enumeration			Enums:
							ON
							Current status of Nyquist filter mode.
		otsi:direction	RW	enumeration		bi	Enums:
							bi - bidirectional
							Otsi Direction.
	odu	::odu	RW	presence container			Optical Channel Data Unit (ODU)
		odu:ains	RW	ains-state		disabled	
		odu:vstimer	RW	vstimer			
		odu:ACTVST	R-	string			

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Od				Mandatory	Default	Description
	du:testsignal	RW	enumeration		disabled	Enums:
						disabled - testsignal not connected
						enabled - testsignal connected
						testsignal connect and disconnect
od	du:testPattern	RW	enumeration		PRBS31	Enums:
						PRBS31 - PRBS31 with standard mapping per G.709
						Set test signal pattern
od	du:testsignal-type	RW	enumeration		fac	Enums:
						fac - test signal in the facility direction
						term - test signal in the terminal direction
						Set test signal type (or direction).
od	du:bitErrors	R-	uint32			Range: 04294967295
						bit errors for test signal in facility direction.
od	du:bitErrorsTerminal	R-	uint32			Range: 04294967295
						bit errors for test signal in terminal direction.
od	du:syncSeconds	R-	string			number of seconds the received facility test signal is in sync.
od	du:syncSecondsTerminal	R-	string			number of seconds the received terminal test signal is in sync.
od	du:rate	RW	identityref			Base: odu-rate-identity
						rate identity of the ODU. 'identityref' is used
						to allow to extend for future higher rates
od	du:oduflexcbr-service	RW	identityref	X		Base: odu-cbr-identity
						cbr service identity of ODUflex. 'identityref' is used
						to allow to extend

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Attrib	ute		RW	Туре	Mandatory	Default	Description
		odu:oduflex-gfp-num-ts	RW	uint8	X		Range: 180
							No of timeslots allowed when ODUflex-gfp
		odu:oduflex-rate	R-	decimal64			Fraction digits: 3
							ODUflex client rate
		odu:oper-status	R-	oper-status			The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.
		odu:admin-status	RW	admin-status		down	The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.
		odu:circuit-id	RW	string			Length: 045
							circuit identifier/user label
		odu:direction	R-	enumeration		bi	Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
							direction of interface
		odu:tx-clock-source	R-	enumeration			Enums:
							through - Timing is passed through
							internal - Timed from freerunning internal oscillator
							system - Timed from system active clock reference
							Transmit Clock - Specifies souce of ODU transit timing

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Attribute						Туре	Mandatory	Default	Description
		odu:a	ais-pt		RW	enumeration		ais	Enums:
									ais - use AIS-ODU for escalation
									csf - use CSF-OPU for escalation
									alarm escalation setting
		odu:ı	monitoring	-mode	RW	enumeration		not-terminated	Enums:
									not-terminated - Not Terminated: no detection or generation.
									Overhead is passed through the interface transparently in receive direction
									terminated - Terminated: detection and generation enabled.
									Overhead is erased (replaced with all zeros) in receive direction
									monitored - Monitored: detection enabled.
									Overhead is passed through the interface transparently in receive direction
									Monitoring mode of the ODU Overhead
		odu:a	auto-rx		RW	boolean		false	enable/disable generation of transient condition when
									the value of the TTI changes.
		odu:a	auto-tx		RW	boolean		false	enable/disable automatic population of outgoing TTI
		odu:s	standard		RW	choice		itu	choice between ANSI Trail Trace Identifier and
									ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		(odu:itu		RW	case			
			odu:tti	-itu	RW	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			oc	lu:tx-tti	RW	container			Transmitted Trail Trace Identifier
				odu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				odu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				odu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			oc	lu:rx-tti	R-	container			Received Trail Trace Identifier
				odu:sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
				odu:dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
				odu:op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
		odu:exp-tti		RW	container			Expected Trail Trace Identifier	
				odu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier

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Attribute						Туре	Mandatory	Default	Description
				odu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				odu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
				odu:tim-det-mode	RW	enumeration			Enums:
									off - TIM detection off
									sapi-only - TIM detection sapi only
									dapi-only - TIM detection dapi only
									op-spec-only - TIM detection op-spec only
									sapi-and-dapi - TIM detection sapi and dapi
									all - TIM detection all
									TIM detection mode
				odu:tim-act-enabled	RW	boolean		false	Enables TTI Mismatch consequent actions.
			odu:ans	si	RW	case			
		od	u:degthr		RW	int16		0	Range: -32
									DEGTHR:Degraded defect one-second Errored Block Count threshold
									DEGTHR specifies the exponent part X of 10 ^x [%].
		od	u:degm		RW	int8		10	Range: 210
	_								DEGM:Degraded defect consecutive one-second monitoring intervals
		_	u:proacti		RW	boolean		false	enable/disable proactive Delay Measurement
		od	u:gcc0-pa	ass-through	RW	boolean		false	If this attribute is set to false, GCC0 bytes are terminated.
									If set to true, GCC0 bytes are tunneled; if traffic is looped back
									GCC0 bytes will also be looped back.
		od	u:tcm		RW	list			Key: layer, tcm-direction
			1						Tandem Connection Management
			odu:lay	er	RW	uint8	X		Range: 16
									TCM layer

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interfaces - Continued

Attribute	e				RW	Туре	Mandatory	Default	Description
		odu:mo	nitoring-	mode	RW	enumeration			Enums:
									not-terminated - Not Terminated: no detection or generation.
									Overhead is passed through the interface transparently in receive direction
									unless extension is set for erase
									terminated - Terminated: detection and generation enabled.
									Overhead is erased (replaced with all zeros) in receive direction, unless
									extension is set to passthrough
									monitored - Monitored: detection enabled.
									Overhead is passed through the interface transparently in receive direction
									unless extension is set for erase
									Monitoring mode of the TCM layer
		odu:ltc-	act-enab	led	RW	boolean		false	enable/disable alarm transfer on detection of LTC
		odu:aut	o-rx		RW	boolean		false	enable/disable generation of transient condition when
								the value of the TTI changes.	
		odu:auto-tx		RW	boolean		false	enable/disable automatic population of outgoing TTI	
		odu:star	ndard		RW	choice		itu	choice between ANSI Trail Trace Identifier and
									ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		odu	ı:itu		RW	case			
			odu:tti-	itu	RW	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			odu	ı:tx-tti	RW	container			Transmitted Trail Trace Identifier
				odu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				odu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				odu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			odu	ı:rx-tti	R-	container			Received Trail Trace Identifier
				odu:sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
				odu:dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
				odu:op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			odu	ı:exp-tti	RW	container			Expected Trail Trace Identifier
				odu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				odu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier

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Attr	ibute			RW	Туре	Mandatory	Default	Description
			odu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			odu:tim-det-mode	RW	enumeration			Enums:
								off - TIM detection off
								sapi-only - TIM detection sapi only
								dapi-only - TIM detection dapi only
								op-spec-only - TIM detection op-spec only
								sapi-and-dapi - TIM detection sapi and dapi
								all - TIM detection all
								TIM detection mode
			odu:tim-act-enabled	RW	boolean		false	Enables TTI Mismatch consequent actions.
		odı	ı:ansi	RW	case			
		odu:deg	gthr	RW	int16		0	Range: -32
								DEGTHR:Degraded defect one-second Errored Block Count threshold
								DEGTHR specifies the exponent part X of 10 ^X [%].
		odu:deg	gm	RW	int8		10	Range: 210
								DEGM:Degraded defect consecutive one-second monitoring intervals
		odu:pro	active-DM	RW	boolean		false	enable/disable proactive Delay Measurement
		odu:tcn	n-direction	RW	enumeration	X		Enums:
								up-tcm - TCM termination direction faces the switch fabric.
								down-tcm - TCM termination direction faces the facility
								Direction of TCM.
	\perp	odu:pm		RW	container			Performance Monitoring Info
		odı	n:pm-threshold	RW	list			Key: pm-name, pm-location, pm-direction
	\perp							List of PMs thresholds for the parent entity.
	\perp		odu:pm-name	RW	pm-identity	X		
			odu:pm-location	RW	pm-location	X		

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interfaces - Continued

Attrib	tribute odu:pm-direction						Туре	Mandatory	Default	Description
			00	du:pm-	direction	RW	pm-direction	X		
			00	du:pm-	type	RW	enumeration			Enums:
										metered - Metered PM type
										binned - Binned PM type
			00	du:pm-	th-metered	RW	container			
				odu	:pm-th-type	RW	enumeration		auto	Enums:
										auto - HW autoprovisioned
										user - User-provisioned
				odu	:pm-th-high	RW	decimal64	X		Fraction digits: 2
			00	lu:pm-	th-binned	RW	container			
				odu	:pm-time-periods	RW	list			Key: pm-time-period
					odu:pm-time-period	RW	enumeration	X		Enums:
										15-min - 15 minutes period
										1-day - 1 day period
					odu:pm-value	RW	uint64	X		
			odu:pi	m-opei	r-range	R-	list			Key: pm-name, pm-location, pm-direction
			00	du:pm-	name	R-	pm-identity	X		
			00	du:pm-	location	R-	pm-location	X		
			00	du:pm-	direction	R-	pm-direction	X		
			00	du:pm-	alarm-low	R-	pm-data-type			PM Alarm Detect Low
			00	du:pm-	alarm-high	R-	pm-data-type			PM Alarm Detect High
			00	du:pm-	-capability-min	R-	pm-data-type			PM Operating Range Low
			00	du:pm-	-capability-max	R-	pm-data-type			PM Operating Range High
			00	du:pm-	warning-low	R-	pm-data-type			PM Threshold Low
			00	du:pm-	warning-high	R-	pm-data-type			PM Threshold High
		odu:opu	1			RW	container			Optical Channel Payload Unit (OPU)
		odı	ı:payloa	ad-type		RW	string		NA	Length: 2
										Pattern: [0-9a-fA-F]* NA
										Payload Type

interfaces - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	odu:rx-payload-type	R-	string			Length: 2
						Pattern: [0-9a-fA-F]*
						Received Payload Type
	odu:exp-payload-type	RW	string		NA	Length: 2
						Pattern: [0-9a-fA-F]* NA
						Expected Payload Type
	odu:msi	RW	container			
	odu:tx-msi	R-	list			Key: trib-slot
						Transmit MSI
	odu:trib-slot	R-	uint16	X		tributary slot (TS)
	odu:odtu-type	R-	identityref			Base: odtu-type-identity
						ODTU type, part of the MSI (Multiplex Structure Identifier)
	odu:trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
	odu:rx-msi	R-	list			Key: trib-slot
						Receive MSI
	odu:trib-slot	R-	uint16	X		tributary slot (TS)
	odu:odtu-type	R-	identityref			Base: odtu-type-identity
						ODTU type, part of the MSI (Multiplex Structure Identifier)
	odu:trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
	odu:exp-msi	R-	list			Key: trib-slot
						Expected MSI
	odu:trib-slot	R-	uint16	X		tributary slot (TS)

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interfaces - Continued

Attribu				RW	Type	Mandatory	Default	Description
			odu:odtu-type	R-	identityref			Base: odtu-type-identity
								ODTU type, part of the MSI (Multiplex Structure Identifier)
			odu:trib-port	R-	uint16			Tributary Port Number (0-based), part of the MSI
	od	lu:parent	-odu-allocation	RW	presence container			
		odu:tr	ib-port-number	RW	trib-resource-type	X		Type: uint16
								Range: 180
								Tributary port number in parent OPU MSI
		odu:tr	ib-slots	RW	list of			Trib slots occupied in parent OPU MSI
	od	lu:pm		RW	container			Performance Monitoring Info
		odu:p	m-threshold	RW	list			Key: pm-name, pm-location, pm-direction
								List of PMs thresholds for the parent entity.
		0	du:pm-name	RW	pm-identity	X		
		0	du:pm-location	RW	pm-location	X		
		0	du:pm-direction	RW	pm-direction	X		
		0	du:pm-type	RW	enumeration			Enums:
								metered - Metered PM type
								binned - Binned PM type
		0	du:pm-th-metered	RW	container			
			odu:pm-th-type	RW	enumeration		auto	Enums:
								auto - HW autoprovisioned
								user - User-provisioned
			odu:pm-th-high	RW	decimal64	X		Fraction digits: 2
		00	du:pm-th-binned	RW	container			
			odu:pm-time-periods	RW	list			Key: pm-time-period
			odu:pm-time-period	RW	enumeration	X		Enums:
								15-min - 15 minutes period
								1-day - 1 day period

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interfaces - Continued

Attribu	Attribute				RW	Туре	Mandatory	Default	Description
				odu:pm-value	RW	uint64	X		
		od	u:pm-ope	r-range	R-	list			Key: pm-name, pm-location, pm-direction
			odu:pm	-name	R-	pm-identity	X		
			odu:pm	-location	R-	pm-location	X		
			odu:pm	-direction	R-	pm-direction	X		
			odu:pm	-alarm-low	R-	pm-data-type			PM Alarm Detect Low
			odu:pm	-alarm-high	R-	pm-data-type			PM Alarm Detect High
			odu:pm	-capability-min	R-	pm-data-type			PM Operating Range Low
			odu:pm	-capability-max	R-	pm-data-type			PM Operating Range High
			odu:pm	-warning-low	R-	pm-data-type			PM Threshold Low
			odu:pm	-warning-high	R-	pm-data-type			PM Threshold High
	C	odu:lp	g-name		RW	string			SNCP Line PG Name
	C	odu:pp	g-name		RW	string			SNCP Path PG Name
	C	odu:fro	m-xcon-r	name	RW	list			Key: xcon-name
	odu:xcon-name		RW	string	X				
	C	odu:to	-xcon-nan	ne	RW	list			Key: xcon-name
		od	u:xcon-na	ime	RW	string	X		
	C	odu:tri	b-slots-hi	lden	RW	list of			Trib slots occupied in parent OPU MSIdden
	C	odu:tri	b-ports-hi	dden	RW	list of			Trib port occupied in parent OPU MSIdden
	C	odu:bd	i-cross-co	upling-id	RW	uint32			If Feature: bdi-cross-coupling
									BDI Cross Coupling ID.
	C	odu:all	TcmList		RW	list			Key: oduIfName, tcmLayer, tcmDirn
		od	u:oduIfNa	nme	RW	string	X		
		od	u:tcmLay	er	RW	uint8	X		
		od	u:tcmDiri	1	RW	uint8	X		
	oducı	n:odu	n		RW	presence container			Optical Channel Data Unit (ODUCn)
	C	oducn:	rate		R-	identityref			Base: oducn-rate-identity
									rate identity of the ODUCn. 'identityref' is used
									to allow to extend for future higher rates

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interfaces - Continued

Attribu	Attribute				RW	Туре	Mandatory	Default	Description
		oduc	n:oper-sta	us	R-	oper-status			The current operational state of the interface.
									This leaf has the same semantics as ifOperStatus.
		oduc	n:admin-s	atus	RW	admin-status		down	The desired state of the interface.
									This leaf has the same read semantics as ifAdminStatus.
		oduc	n:ais-pt		RW	enumeration		ais	Enums:
									ais
		oduc	n:circuit-i	i	RW	string			Length: 045
									circuit identifier/user label
		oduc	n:direction	ı	R-	enumeration			Enums:
									uni-rx - unidirectional receive only
									uni-tx - unidirectional transmit only
									bi - bidirectional
		oduc	n:standard		RW	choice		itu	choice between ANSI Trail Trace Identifier and
									ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			oducn:itu		RW	case			
			oducn	tti-itu	RW	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			00	lucn:tx-tti	RW	container			Transmitted Trail Trace Identifier
				oducn:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				oducn:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				oducn:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			00	lucn:rx-tti	R-	container			Received Trail Trace Identifier
				oducn:sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
				oducn:dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
				oducn:op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			00	lucn:exp-tti	RW	container			Expected Trail Trace Identifier
				oducn:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				oducn:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				oducn:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec

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interfaces - Continued

Attribut	ute I	RW	Туре	Mandatory	Default	Description
	oducn:tim-det-mode	RW	enumeration		off	Enums:
						off - TIM detection off
						sapi-only - TIM detection sapi only
						dapi-only - TIM detection dapi only
						sapi-and-dapi - TIM detection sapi and dapi
						TIM detection mode
	oducn:degthr I	RW	int16		0	Range: -52
						DEGTHR:Degraded defect one-second Errored Block Count threshold
						DEGTHR specifies the exponent part X of 10 ^A X.
	oducn:degm H	RW	int8		10	Range: 210
						DEGM:Degraded defect consecutive one-second monitoring intervals
	oducn:monitoring-mode	RW	enumeration		terminated	Enums:
						not-terminated - Not Terminated: no detection or generation.
						Overhead is passed through the interface transparently in receive direction
						unless extension is set for erase
						terminated - Terminated: detection and generation enabled.
						Overhead is erased (replaced with all zeros) in receive direction, unless
						extension is set to passthrough
						monitored - Monitored: detection enabled.
						Overhead is passed through the interface transparently in receive direction
						unless extension is set for erase
						M. i. i. a. st. TOVI
	1	DW				Monitoring mode of the TCM layer
		RW	container		22	Optical Channel Payload Unit (OPU)
	oducn:payload-type	RW	string		22	Length: 2
						Pattern: [0-9a-fA-F]* NA
						Double d True
						Payload Type

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interfaces - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		oducn:rx-payload-type	R-	string			Length: 2
							Pattern: [0-9a-fA-F]*
							Received Payload Type
		oducn:exp-payload-type	RW	string		22	Length: 2
							Pattern: [0-9a-fA-F]* NA
							Expected Payload Type
		oduen:list-gee	RW	list			Key: gccType
							List of GCC0s
		oducn:gccType	RW	enumeration	X	gcc1	Enums:
							gcc1 - gcc1
							gcc type
		oducn:gccEnabled	RW	boolean			true: means GCC enabled
							false: means GCC disabled
		oducn:protocol	RW	protocolType		IP	Protocol running over GCC: IP or OSI
		oducn:testsignal	RW	enumeration		disabled	Enums:
							disabled - testsignal not connected
							enabled - testsignal connected
							testsignal connect and disconnect
		oducn:testPattern	RW	enumeration		PRBS31	Enums:
							PRBS31 - PRBS31 with standard mapping per G.709
							Set test signal pattern
		oducn:testsignal-type	RW	enumeration		fac	Enums:
							fac - test signal in the facility direction
							Set test signal type (or direction).

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interfaces - Continued

Attribu	ite		RW	Туре	Mandatory	Default	Description
		oducn:bitErrors	R-	uint32			Range: 04294967295
							bit errors for test signal in facility direction.
		oducn:bitErrorsTerminal	R-	uint32			Range: 04294967295
							bit errors for test signal in terminal direction.
		oducn:syncSeconds	R-	string			number of seconds the received facility test signal is in sync.
		oducn:syncSecondsTerminal	R-	string			number of seconds the received terminal test signal is in sync.
	otu	:otu	RW	presence container			Optical Channel Transport Unit (OTU)
		otu:loopback	RW	enumeration		disabled	Enums:
							disabled - default state loopback not active
							enabled - loopback operated
							loopback operation and release
		otu:location	RW	enumeration		nearEnd	Enums:
							nearEnd - Loopback location at near-end
							Set Loopback Location.
		otu:type	RW	enumeration		fac	Enums:
							fac - pre-FEC Loopback in the facility direction
							term - Loopback in the terminal direction
							fac2 - post-FEC Loopback in the facility direction
							Set Loopback type (or direction).
		otu:ains	RW	ains-state		disabled	
		otu:vstimer	RW	vstimer			
		otu:ACTVST	R-	string			
		otu:rate	RW	identityref			Base: otu-rate-identity
							rate identity of the OTU. 'identityref' is used
							to allow to extend for future higher rates

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interfaces - Continued

Attribut	te			RW	Туре	Mandatory	Default	Description
		otu:oper-s	status	R-	oper-status			The current operational state of the interface.
								This leaf has the same semantics as ifOperStatus.
	otu:admin-status		RW	admin-status		down	The desired state of the interface.	
								This leaf has the same read semantics as ifAdminStatus.
		otu:standa	ard	RW	choice		itu	choice between ANSI Trail Trace Identifier and
								ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
		otu:it	u	RW	case			
		C	otu:tti-itu	RW	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			otu:tx-tti	RW	container			Transmitted Trail Trace Identifier
			otu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
			otu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
			otu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			otu:rx-tti	R-	container			Received Trail Trace Identifier
			otu:sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
			otu:dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
			otu:op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			otu:exp-tti	RW	container			Expected Trail Trace Identifier
			otu:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
			otu:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
			otu:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			otu:tim-det-mode	RW	enumeration			Enums:
								off - TIM detection off
								sapi-only - TIM detection sapi only
								dapi-only - TIM detection dapi only
								op-spec-only - TIM detection op-spec only
								sapi-and-dapi - TIM detection sapi and dapi
								all - TIM detection all (sapi, dapi, op-spec)
								TIM detection mode

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interfaces - Continued

Attr	Attribute			Туре	Mandatory	Default	Description
		otu:tim-act-enabled	RW	boolean		false	Enables TTI Mismatch consequent actions.
		otu:ansi	RW	case			
		otu:direction	RW	enumeration			Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
							direction of interface
		otu:degthr	RW	int16		0	Range: -32
							DEGTHR:Degraded defect one-second Errored Block Count threshold
							DEGTHR specifies the exponent part X of 10 ^x [%].
		otu:degm	RW	int8		10	Range: 210
							DEGM:Degraded defect consecutive one-second monitoring intervals
		otu:circuit-id	RW	string			Length: 045
							circuit identifier/user label
		otu:fec	RW	enumeration	X		Enums:
							off - fec off
							rsfec - rsfec
							sdfeca1 - Clariphy SDFEC
							efec - G.975.1 I.4
							ufec - G.975.1 I.7
							sdfec - Soft Decision FEC
							sdfecb1 - SDFEC with SCFEC
							scfec - Stair case FEC
							hgsdfec - SDFEC 16% with RSFEC
							hgsdfec2 - SDFEC 23% with RSFEC
							Forward Error Correction

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interfaces - Continued

Attribu	tribute			RW	Туре	Mandatory	Default	Description	
		otu:diff	erential-	-decode	RW	enumeration			Enums:
									off - differntial decode off
									on - differntial decode on
									Differential Decode
		otu:auto-rx		RW	boolean		false	enable/disable generation of transient condition when	
									the value of the TTI changes.
		otu:aut	o-tx		RW	boolean		false	enable/disable automatic population of outgoing TTI
		otu:pm			RW	container			Performance Monitoring Info
		otu	:pm-thre	eshold	RW	list			Key: pm-name, pm-location, pm-direction
									List of PMs thresholds for the parent entity.
			otu:pm	n-name	RW	pm-identity	X		
			otu:pm	n-location	RW	pm-location	X		
			otu:pm	n-direction	RW	pm-direction	X		
			otu:pm	n-type	RW	enumeration			Enums:
									binned - Binned PM type
			otu:pn	n-th-binned	RW	container			
			ot	u:pm-time-periods	RW	list			Key: pm-time-period
				otu:pm-time-period	RW	enumeration	X		Enums:
									15-min - 15 minutes period
									1-day - 1 day period
				otu:pm-value	RW	uint64	X		
		otu	:pm-ope	er-range	R-	list			Key: pm-name, pm-location, pm-direction
			otu:pn	n-name	R-	pm-identity	X		
			 	n-location	R-	pm-location	X		
				n-direction	R-	pm-direction	X		
			otu:pm-alarm-low		R-	pm-data-type			PM Alarm Detect Low
			otu:pm-alarm-high		R-	pm-data-type			PM Alarm Detect High
			otu:pm-capability-min		R-	pm-data-type			PM Operating Range Low
			otu:pn	n-capability-max	R-	pm-data-type			PM Operating Range High

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interfaces - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
			otu:pm-warning-low	R-	pm-data-type			PM Threshold Low
			otu:pm-warning-high	R-	pm-data-type			PM Threshold High
		otu:list-g	gcc	RW	list			Key: gccType
								List of GCC0s
		otu:	дссТуре	RW	enumeration	X	gcc0	Enums:
								gcc0 - gcc0
								gcc type
		otu:	gccEnabled	RW	boolean		false	true: means GCC enabled
								false: means GCC disabled
		otu:	protocol	RW	enumeration		IP	Enums:
								IP - IP
								Protocol running over GCC: IP or OSI
	otu	en:otuen		RW	presence container			Optical Transport Unit (OTUCn):
								Models the optical channel interfaces for an Optical White Box.
		otucn:rat	e	RW	identityref			Base: otucn-rate-identity
								rate identity of the OTUCn. 'identityref' is used
								to allow to extend for future higher rates
		otucn:op	er-status	R-	oper-status			The current operational state of the interface.
								This leaf has the same semantics as ifOperStatus.
		otucn:ad	min-status	RW	enumeration		down	Enums:
								up - Ready to pass packets.
								down - Not ready to pass packets and not in some test mode.
								The desired state of the interface.
								This leaf has the same read semantics as ifAdminStatus.

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interfaces - Continued

Attribu	ttribute				RW	Туре	Mandatory	Default	Description
		otuc	n:standard		RW	choice		itu	choice between ANSI Trail Trace Identifier and
									ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)
			otucn:itu		RW	case			
		otucn:tti-itu		RW	container			ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific)	
			otu	ucn:tx-tti	RW	container			Transmitted Trail Trace Identifier
				otucn:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				otucn:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
				otucn:op-spec	RW	itu-otn-tti-op-spec			TTI Operator Spec
			otu	ucn:rx-tti	R-	container			Received Trail Trace Identifier
				otucn:sapi	R-	itu-otn-oper-tti-sapi			Source Access Point Identifier
				otucn:dapi	R-	itu-otn-oper-tti-dapi			Destination Access Point Identifier
				otucn:op-spec	R-	itu-otn-oper-tti-op-spec			TTI Operator Spec
			otu	ucn:exp-tti	RW	container			Expected Trail Trace Identifier
				otucn:sapi	RW	itu-otn-tti-sapi			Source Access Point Identifier
				otucn:dapi	RW	itu-otn-tti-dapi			Destination Access Point Identifier
			otu	ucn:tim-det-mode	RW	enumeration			Enums:
									off - TIM detection off
									sapi-only - TIM detection sapi only
									dapi-only - TIM detection dapi only
									sapi-and-dapi - TIM detection sapi and dapi
									TIM detection mode
		otuc	n:degthr		RW	int16		0	Range: -52
									DEGTHR:Degraded defect one-second Errored Block Count threshold
									DEGTHR specifies the exponent part X of 10 ^{\(\chi\)} X [\%].
	otucn:degm				RW	int8		10	Range: 210
									DEGM:Degraded defect consecutive one-second monitoring intervals

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interfaces - Continued

Attribu	Attribute		RW	Туре	Mandatory	Default	Description
		otuen:circuit-id	RW	string			Length: 045
							circuit identifier/user label
		otucn:direction	RW	enumeration			Enums:
							uni-rx - unidirectional receive only
							uni-tx - unidirectional transmit only
							bi - bidirectional
		otuen:list-gee	RW	list			Key: gccType
							List of GCC0s
		otucn:gccType	RW	enumeration	X	gcc0	Enums:
							gcc0 - gcc0
							gcc type
		otucn:gccEnabled	RW	boolean		false	true: means GCC enabled
							false: means GCC disabled
		otucn:protocol	RW	enumeration		IP	Enums:
							IP - IP
							Protocol running over GCC: IP or OSI
	ppp	:ppp-config	RW	container			PPP Interface
		ppp:restartTimer	RW	uint32		3	Restart Timer timer is used to time transmissions of
							Configure-Request and Terminate-Request packets.
							Expiration of the Restart timer causes a Timeout event,
							and retransmission of the corresponding Configure-Request
							or Terminate-Request packet.
							default: 3 seconds
							Standards allow this configurable but we only support
							3 seconds

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interfaces - Continued

Attrib	Attribute		RW	Туре	Mandatory	Default	Description
		ppp:MRU	RW	uint32			Range: 12816384
							PPP Maximum Receive Unit size
		ppp:magicNumber	RW	boolean		false	If true then the local node will attempt to
							perform Magic Number negotiation with the
							remote node. If false then this negotiation
							is not performed
		ppp:fcsSize	RW	uint32		16	The size of FCS in bits
							Allowed value is only 16
							default: 16
		ppp:sync	RW	boolean		false	Enable/disable HDLC serial encoding rule.
		ppp:admin-status	RW	admin-status		down	PPP port admin status
	if-i	dx:snmp-if-index	RW	uint32			Range: 12147483647
							If Feature: if:if-mib
							The ifIndex value for the ifEntry represented by this
							interface.

interfaces-state

Data nodes for the operational state of interfaces.

Attribute		RW	Туре	Mandatory	Default	Description
	interface	R-	list			Key: name
						The list of interfaces on the device.
						System-controlled interfaces created by the system are
						always present in this list, whether they are configured or
						not.

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interfaces-state - Continued

At	Attribute F		RW	Type	Mandatory	Default	Description
		name	R-	string	X		The name of the interface.
							A server implementation MAY map this leaf to the ifName
							MIB object. Such an implementation needs to use some
							mechanism to handle the differences in size and characters
							allowed between this leaf and ifName. The definition of
							such a mechanism is outside the scope of this document.
		type	R-	identityref	X		Base: interface-type
							The type of the interface.
		admin-status	R-	enumeration	X		Enums:
							up - Ready to pass packets.
							down - Not ready to pass packets and not in some test mode.
							testing - In some test mode.
							If Feature: if-mib
							The desired state of the interface.
							This leaf has the same read semantics as ifAdminStatus.

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interfaces-state - Continued

Attr	Attribute		RW	Type	Mandatory	Default	Description
		oper-status	R-	enumeration	X		Enums:
							up - Ready to pass packets.
							down - The interface does not pass any packets.
							testing - In some test mode. No operational packets can
							be passed.
							unknown - Status cannot be determined for some reason.
							dormant - Waiting for some external event.
							not-present - Some component (typically hardware) is missing.
							lower-layer-down - Down due to state of lower-layer interface(s).
							The current operational state of the interface.
							This leaf has the same semantics as ifOperStatus.

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interfaces-state - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	last-change	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically

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interfaces-state - Continued

Attribu	Attribute R		Type	Mandatory	Default	Description
						(DST) time zone offset changes. The canonical format for
						date-and-time values with an unknown time zone (usually
						referring to the notion of local time) uses the time-offset
						-00:00.
						Type: string
						$Pattern: \ \ \ \ \ \ \ \ \ \ \ \ \ $
						The time the interface entered its current operational
						state. If the current state was entered prior to the
						last re-initialization of the local network management
						subsystem, then this node is not present.
	if-index	R-	int32	X		Range: 12147483647
						If Feature: if-mib
						The ifIndex value for the ifEntry represented by this
						interface.

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interfaces-state - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	phys-address	R-	yang:phys-address			Represents media- or physical-level addresses represented
						as a sequence octets, each octet represented by two hexadecimal
						numbers. Octets are separated by colons. The canonical
						representation uses lowercase characters.
						In the value set and its semantics, this type is equivalent
						to the PhysAddress textual convention of the SMIv2.
						Type: string
						Pattern: ([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?
						The interface's address at its protocol sub-layer. For
						example, for an 802.x interface, this object normally
						contains a Media Access Control (MAC) address. The
						interface's media-specific modules must define the bit
						and byte ordering and the format of the value of this
						object. For interfaces that do not have such an address
						(e.g., a serial line), this node is not present.
	higher-layer-if	R-	list of			A list of references to interfaces layered on top of this
						interface.
	lower-layer-if	R-	list of			A list of references to interfaces layered underneath this
						interface.

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interfaces-state - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		speed	R-	yang:gauge64			The gauge64 type represents a non-negative integer, which
							may increase or decrease, but shall never exceed a maximum
							value, nor fall below a minimum value. The maximum value
							cannot be greater than 2^64-1 (18446744073709551615), and
							the minimum value cannot be smaller than 0. The value of
							a gauge64 has its maximum value whenever the information
							being modeled is greater than or equal to its maximum
							value, and has its minimum value whenever the information
							being modeled is smaller than or equal to its minimum value.
							If the information being modeled subsequently decreases
							below (increases above) the maximum (minimum) value, the
							gauge64 also decreases (increases).
							In the value set and its semantics, this type is equivalent
							to the CounterBasedGauge64 SMIv2 textual convention defined
							in RFC 2856
							Type: uint64
							An estimate of the interface's current bandwidth in bits
							per second. For interfaces that do not vary in
							bandwidth or for those where no accurate estimation can
							be made, this node should contain the nominal bandwidth.
							For interfaces that have no concept of bandwidth, this
L							node is not present.
		statistics	R-	container			A collection of interface-related statistics objects.

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Attribu	ıte		RW	Туре	Mandatory	Default	Description
		discontinuity-time	R-	yang:date-and-time	X		The date-and-time type is a profile of the ISO 8601
							standard for representation of dates and times using the
							Gregorian calendar. The profile is defined by the
							date-time production in Section 5.6 of RFC 3339.
							The date-and-time type is compatible with the dateTime XML
							schema type with the following notable exceptions:
							(a) The date-and-time type does not allow negative years.
							(b) The date-and-time time-offset -00:00 indicates an unknown
							time zone (see RFC 3339) while -00:00 and +00:00 and Z
							all represent the same time zone in dateTime.
							(c) The canonical format (see below) of data-and-time values
							differs from the canonical format used by the dateTime XML
							schema type, which requires all times to be in UTC using
							the time-offset 'Z'.
							This type is not equivalent to the DateAndTime textual
							convention of the SMIv2 since RFC 3339 uses a different
							separator between full-date and full-time and provides
							higher resolution of time-secfrac.
							The canonical format for date-and-time values with a known time
							zone uses a numeric time zone offset that is calculated using
							the device's configured known offset to UTC time. A change of
							the device's offset to UTC time will cause date-and-time values
							to change accordingly. Such changes might happen periodically

interfaces-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for
					date-and-time values with an unknown time zone (usually
					referring to the notion of local time) uses the time-offset
					-00:00.
					Type: string
					Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
					The time on the most recent occasion at which any one or
					more of this interface's counters suffered a
					discontinuity. If no such discontinuities have occurred
					since the last re-initialization of the local management
					subsystem, then this node contains the time the local
					management subsystem re-initialized itself.

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Attribu	ıte		RW	Туре	Mandatory	Default	Description
		in-octets	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The total number of octets received on the interface,
							including framing characters.

interfaces-state - Continued

Attribute		Type	Mandatory	Default	Description
					at re-initialization of the management system, and at
					other times as indicated by the value of
					'discontinuity-time'.

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Attribut			Туре	Mandatory	Default	Description
	in-unicast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
						that monotonically increases until it reaches a
						maximum value of 2^64-1 (18446744073709551615 decimal),
						when it wraps around and starts increasing again from zero.
						Counters have no defined 'initial' value, and thus, a
						single value of a counter has (in general) no information
						content. Discontinuities in the monotonically increasing
						value normally occur at re-initialization of the
						management system, and at other times as specified in the
						description of a schema node using this type. If such
						other times can occur, for example, the creation of
						a schema node of type counter64 at times other than
						re-initialization, then a corresponding schema node
						should be defined, with an appropriate type, to indicate
						the last discontinuity.
						The counter64 type should not be used for configuration
						schema nodes. A default statement SHOULD NOT be used in
						combination with the type counter64.
						In the value set and its semantics, this type is equivalent
						to the Counter64 type of the SMIv2.
						Type: uint64
						The number of packets, delivered by this sub-layer to a
						higher (sub-)layer, that were not addressed to a
						multicast or broadcast address at this sub-layer.

interfaces-state - Continued

L	Attribute		RW	Туре	Mandatory	Default	Description	
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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interfaces-state - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
	in	n-broadcast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The number of packets, delivered by this sub-layer to a
							higher (sub-)layer, that were addressed to a broadcast
							address at this sub-layer.

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interfaces-state - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description	
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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Attribu	Attribute			Туре	Mandatory	Default	Description
	iı	n-multicast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The number of packets, delivered by this sub-layer to a
							higher (sub-)layer, that were addressed to a multicast
							address at this sub-layer. For a MAC-layer protocol,

interfaces-state - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description	
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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interfaces-state - Continued

Attribu	re e	RW	Туре	Mandatory	Default	Description
	in-discards	R-	yang:counter32			The counter32 type represents a non-negative integer
						that monotonically increases until it reaches a
						maximum value of 2^32-1 (4294967295 decimal), when it
						wraps around and starts increasing again from zero.
						Counters have no defined 'initial' value, and thus, a
						single value of a counter has (in general) no information
						content. Discontinuities in the monotonically increasing
						value normally occur at re-initialization of the
						management system, and at other times as specified in the
						description of a schema node using this type. If such
						other times can occur, for example, the creation of
						a schema node of type counter32 at times other than
						re-initialization, then a corresponding schema node
						should be defined, with an appropriate type, to indicate
						the last discontinuity.
						The counter32 type should not be used for configuration
						schema nodes. A default statement SHOULD NOT be used in
						combination with the type counter32.
						In the value set and its semantics, this type is equivalent
						to the Counter32 type of the SMIv2.
						Type: uint32
						The number of inbound packets that were chosen to be
						discarded even though no errors had been detected to
						prevent their being deliverable to a higher-layer

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interfaces-state - Continued

At	Attribute			Туре	Mandatory	Default	Description
							packet could be to free up buffer space.
							Discontinuities in the value of this counter can occur
							at re-initialization of the management system, and at
							other times as indicated by the value of
							'discontinuity-time'.

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interfaces-state - Continued

Attribu	Attribute		RW	Туре	Mandatory	Default	Description
	ir	n-errors	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32
							For packet-oriented interfaces, the number of inbound
							packets that contained errors preventing them from being
							deliverable to a higher-layer protocol. For character-

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interfaces-state - Continued

1	Attribute			RW	Туре	Mandatory	Default	Description
								inbound transmission units that contained errors
								preventing them from being deliverable to a higher-layer
								protocol.
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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interfaces-state - Continued

Attribut	Attribute			Туре	Mandatory	Default	Description
	in	n-unknown-protos	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32
							For packet-oriented interfaces, the number of packets
							received via the interface that were discarded because
							of an unknown or unsupported protocol. For

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interfaces-state - Continued

A	ttribute		RW	Туре	Mandatory	Default	Description	
								support protocol multiplexing, the number of
								transmission units received via the interface that were
								discarded because of an unknown or unsupported protocol.
								For any interface that does not support protocol
								multiplexing, this counter is not present.
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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interfaces-state - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		out-octets	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The total number of octets transmitted out of the
							interface, including framing characters.

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interfaces-state - Continued

Attri	Attribute		Туре	Mandatory	Default	Description
						at re-initialization of the management system, and at
						other times as indicated by the value of
						'discontinuity-time'.

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Attrib	Attribute			Туре	Mandatory	Default	Description
		out-unicast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The total number of packets that higher-level protocols
							requested be transmitted, and that were not addressed
							to a multicast or broadcast address at this sub-layer,

interfaces-state - Continued

A	Attribute			RW	Туре	Mandatory	Default	Description
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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interfaces-state - Continued

Attribu			RW	Туре	Mandatory	Default	Description
	0	out-broadcast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The total number of packets that higher-level protocols
							requested be transmitted, and that were addressed to a
							broadcast address at this sub-layer, including those

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interfaces-state - Continued

A	Attribute			RW	Туре	Mandatory	Default	Description
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.

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Attrib			RW	Туре	Mandatory	Default	Description
		out-multicast-pkts	R-	yang:counter64			The counter64 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^64-1 (18446744073709551615 decimal),
							when it wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter64 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter64 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter64.
							In the value set and its semantics, this type is equivalent
							to the Counter64 type of the SMIv2.
							Type: uint64
							The total number of packets that higher-level protocols
							requested be transmitted, and that were addressed to a
							multicast address at this sub-layer, including those

interfaces-state - Continued

A	Attribute		RW	Type	Mandatory	Default	Description
							protocol, this includes both Group and Functional addresses.
							Discontinuities in the value of this counter can occur
							at re-initialization of the management system, and at other times as indicated by the value of
							'discontinuity-time'.

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Attrib			RW	Туре	Mandatory	Default	Description
		out-discards	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32
							The number of outbound packets that were chosen to be
							discarded even though no errors had been detected to
							prevent their being transmitted. One possible reason

interfaces-state - Continued

A	Attribute		RW	Type	Mandatory	Default	Description
							space.
							Discontinuities in the value of this counter can occur
							at re-initialization of the management system, and at
							other times as indicated by the value of
							'discontinuity-time'.

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Attribu			RW	Туре	Mandatory	Default	Description
		out-errors	R-	yang:counter32			The counter32 type represents a non-negative integer
							that monotonically increases until it reaches a
							maximum value of 2^32-1 (4294967295 decimal), when it
							wraps around and starts increasing again from zero.
							Counters have no defined 'initial' value, and thus, a
							single value of a counter has (in general) no information
							content. Discontinuities in the monotonically increasing
							value normally occur at re-initialization of the
							management system, and at other times as specified in the
							description of a schema node using this type. If such
							other times can occur, for example, the creation of
							a schema node of type counter32 at times other than
							re-initialization, then a corresponding schema node
							should be defined, with an appropriate type, to indicate
							the last discontinuity.
							The counter32 type should not be used for configuration
							schema nodes. A default statement SHOULD NOT be used in
							combination with the type counter32.
							In the value set and its semantics, this type is equivalent
							to the Counter32 type of the SMIv2.
							Type: uint32
							For packet-oriented interfaces, the number of outbound
							packets that could not be transmitted because of errors.
							For character-oriented or fixed-length interfaces, the

interfaces-state - Continued

Attribute				RW	Туре	Mandatory	Default	Description
								transmitted because of errors.
								Discontinuities in the value of this counter can occur
								at re-initialization of the management system, and at
								other times as indicated by the value of
								'discontinuity-time'.
	ip:ipv4		R-	presence container			Interface-specific parameters for the IPv4 address family.	
		ip:fe	orwarding	R-	boolean			Indicates whether IPv4 packet forwarding is enabled or
								disabled on this interface.
		ip:n	ntu	R-	uint16			Range: 68max
								The size, in octets, of the largest IPv4 packet that the
								interface will send and receive.
		ip:a	ddress	R-	list			Key: ip
								The list of IPv4 addresses on the interface.
			ip:ip	R-	inet:ipv4-address-no-zone	X		An IPv4 address without a zone index. This type, derived from
								ipv4-address, may be used in situations where the zone is
								known from the context and hence no zone index is needed.
								Type: inet:ipv4-address
								Pattern: [0-9\.]*
								The IPv4 address on the interface.

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interfaces-state - Continued

Attribute		RW	Туре	Mandatory	Default	Description
	ip:origin	R-	ip-address-origin			The origin of an address.
						Type: enumeration
						Enums:
						other - None of the following.
						static - Indicates that the address has been statically
						configured - for example, using NETCONF or a Command Line
						Interface.
						dhcp - Indicates an address that has been assigned to this
						system by a DHCP server.
						link-layer - Indicates an address created by IPv6 stateless
						autoconfiguration that embeds a link-layer address in its
						interface identifier.
						random - Indicates an address chosen by the system at
						random, e.g., an IPv4 address within 169.254/16, an
						RFC 4941 temporary address, or an RFC 7217 semantically
						opaque address.
						The origin of this address.
	fujitsu-ip:prefix-length	R-	uint8			Range: 032
	ip:neighbor	R-	list			Key: ip
						A list of mappings from IPv4 addresses to
						link-layer addresses.
						This list represents the ARP Cache.

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interfaces-state - Continued

Attr	Attribute		RW	Туре	Mandatory	Default	Description	
			ip:ip	R-	inet:ipv4-address-no-zone	X		An IPv4 address without a zone index. This type, derived from
								ipv4-address, may be used in situations where the zone is
								known from the context and hence no zone index is needed.
								Type: inet:ipv4-address
								Pattern: [0-9\.]*
								The IPv4 address of the neighbor node.
			ip:link-layer-address	R-	yang:phys-address			Represents media- or physical-level addresses represented
								as a sequence octets, each octet represented by two hexadecimal
								numbers. Octets are separated by colons. The canonical
								representation uses lowercase characters.
								In the value set and its semantics, this type is equivalent
								to the PhysAddress textual convention of the SMIv2.
								Type: string
								Pattern: ([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?
								The link-layer address of the neighbor node.

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interfaces-state - Continued

Attribut	Attribute			Туре	Mandatory	Default	Description
			R-	neighbor-origin			The origin of a neighbor entry.
							Type: enumeration
							Enums:
							other - None of the following.
							static - Indicates that the mapping has been statically
							configured - for example, using NETCONF or a Command Line
							Interface.
							dynamic - Indicates that the mapping has been dynamically resolved
							using, e.g., IPv4 ARP or the IPv6 Neighbor Discovery
							protocol.
							The origin of this neighbor entry.
	ip:i	ov6	R-	presence container			Parameters for the IPv6 address family.
		ip:forwarding	R-	boolean		false	Indicates whether IPv6 packet forwarding is enabled or
							disabled on this interface.
		ip:mtu	R-	uint32			Range: 1280max
							The size, in octets, of the largest IPv6 packet that the
							interface will send and receive.
		ip:address	R-	list			Key: ip
							The list of IPv6 addresses on the interface.
		ip:ip	R-	inet:ipv6-address-no-zone	X		An IPv6 address without a zone index. This type, derived from
							ipv6-address, may be used in situations where the zone is
							known from the context and hence no zone index is needed.
							Type: inet:ipv6-address
							Pattern: [0-9a-fA-F:\.]*
							The IPv6 address on the interface.

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interfaces-state - Continued

Attribu	Attribute		RW	Туре	Mandatory	Default	Description
		ip:prefix-length	R-	uint8	X		Range: 0128
							The length of the subnet prefix.
		ip:origin	R-	ip-address-origin			The origin of an address.
							Type: enumeration
							Enums:
							other - None of the following.
							static - Indicates that the address has been statically
							configured - for example, using NETCONF or a Command Line
							Interface.
							dhcp - Indicates an address that has been assigned to this
							system by a DHCP server.
							link-layer - Indicates an address created by IPv6 stateless
							autoconfiguration that embeds a link-layer address in its
							interface identifier.
							random - Indicates an address chosen by the system at
							random, e.g., an IPv4 address within 169.254/16, an
							RFC 4941 temporary address, or an RFC 7217 semantically
							opaque address.
							The origin of this address.

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interfaces-state - Continued

Attribute			Туре	Mandatory	Default	Description
	ip:status	R-	enumeration			Enums:
						preferred - This is a valid address that can appear as the
						destination or source address of a packet.
						deprecated - This is a valid but deprecated address that should
						no longer be used as a source address in new
						communications, but packets addressed to such an
						address are processed as expected.
						invalid - This isn't a valid address, and it shouldn't appear
						as the destination or source address of a packet.
						inaccessible - The address is not accessible because the interface
						to which this address is assigned is not
						operational.
						unknown - The status cannot be determined for some reason.
						tentative - The uniqueness of the address on the link is being
						verified. Addresses in this state should not be
						used for general communication and should only be
						used to determine the uniqueness of the address.
						duplicate - The address has been determined to be non-unique on
						the link and so must not be used.
						optimistic - The address is available for use, subject to
						restrictions, while its uniqueness on a link is
						being verified.
						The status of an address. Most of the states correspond
						to states from the IPv6 Stateless Address
						Autoconfiguration protocol.

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interfaces-state - Continued

Attribu	Attribute			Туре	Mandatory	Default	Description
		ip:neighbor R	₹-	list			Key: ip
							A list of mappings from IPv6 addresses to
							link-layer addresses.
							This list represents the Neighbor Cache.
		ip:ip R	₹-	inet:ipv6-address-no-zone	X		An IPv6 address without a zone index. This type, derived from
							ipv6-address, may be used in situations where the zone is
							known from the context and hence no zone index is needed.
							Type: inet:ipv6-address
							Pattern: [0-9a-fA-F:\.]*
							The IPv6 address of the neighbor node.
		ip:link-layer-address R	₹-	yang:phys-address			Represents media- or physical-level addresses represented
							as a sequence octets, each octet represented by two hexadecimal
							numbers. Octets are separated by colons. The canonical
							representation uses lowercase characters.
							In the value set and its semantics, this type is equivalent
							to the PhysAddress textual convention of the SMIv2.
							Type: string
							Pattern: ([0-9a-fA-F]{2}(:[0-9a-fA-F]{2})*)?
							The link-layer address of the neighbor node.

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interfaces-state - Continued

Attr	Attribute			RW	Type	Mandatory	Default	Description
			ip:origin	R-	neighbor-origin			The origin of a neighbor entry.
								Type: enumeration
								Enums:
								other - None of the following.
								static - Indicates that the mapping has been statically
								configured - for example, using NETCONF or a Command Line
								Interface.
								dynamic - Indicates that the mapping has been dynamically resolved
								using, e.g., IPv4 ARP or the IPv6 Neighbor Discovery
								protocol.
								The origin of this neighbor entry.

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interfaces-state - Continued

Attribute			RW	Туре	Mandatory	Default	Description
		ip:state	R-	enumeration			Enums:
							incomplete - Address resolution is in progress, and the link-layer
							address of the neighbor has not yet been
							determined.
							reachable - Roughly speaking, the neighbor is known to have been
							reachable recently (within tens of seconds ago).
							stale - The neighbor is no longer known to be reachable, but
							until traffic is sent to the neighbor no attempt
							should be made to verify its reachability.
							delay - The neighbor is no longer known to be reachable, and
							traffic has recently been sent to the neighbor.
							Rather than probe the neighbor immediately, however,
							delay sending probes for a short while in order to
							give upper-layer protocols a chance to provide
							reachability confirmation.
							probe - The neighbor is no longer known to be reachable, and
							unicast Neighbor Solicitation probes are being sent
							to verify reachability.
							The Neighbor Unreachability Detection state of this
							entry.
	vбu	r:ipv6-router-advertisements	R-	container			Parameters of IPv6 Router Advertisements.
		v6ur:send-advertisements	R-	boolean			A flag indicating whether or not the router sends periodic
							Router Advertisements and responds to Router
							Solicitations.
		v6ur:max-rtr-adv-interval	R-	uint16			Range: 41800
							The maximum time allowed between sending unsolicited
							multicast Router Advertisements from the interface.

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interfaces-state - Continued

Attribute				Туре	Mandatory	Default	Description
		v6ur:min-rtr-adv-interval	R-	uint16			Range: 31350
							The minimum time allowed between sending unsolicited
							multicast Router Advertisements from the interface.
		v6ur:managed-flag	R-	boolean			The value that is placed in the 'Managed address
							configuration' flag field in the Router Advertisement.
		v6ur:other-config-flag	R-	boolean			The value that is placed in the 'Other configuration' flag
							field in the Router Advertisement.
		v6ur:link-mtu	R-	uint32			The value that is placed in MTU options sent by the
							router. A value of zero indicates that no MTU options are
							sent.
		v6ur:reachable-time	R-	uint32			Range: 03600000
							The value that is placed in the Reachable Time field in
							the Router Advertisement messages sent by the router. A
							value of zero means unspecified (by this router).
		v6ur:retrans-timer	R-	uint32			The value that is placed in the Retrans Timer field in the
							Router Advertisement messages sent by the router. A value
							of zero means unspecified (by this router).
		v6ur:cur-hop-limit	R-	uint8			The value that is placed in the Cur Hop Limit field in the
							Router Advertisement messages sent by the router. A value
							of zero means unspecified (by this router).
		v6ur:default-lifetime	R-	uint16			Range: 09000
							The value that is placed in the Router Lifetime field of
							Router Advertisements sent from the interface, in seconds.
							A value of zero indicates that the router is not to be
							used as a default router.

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interfaces-state - Continued

A	Attribute		RW	Type	Mandatory	Default	Description	
			v6ur:prefix-list	R-	container			A list of prefixes that are placed in Prefix Information
								options in Router Advertisement messages sent from the
								interface.
								By default, these are all prefixes that the router
								advertises via routing protocols as being on-link for the
								interface from which the advertisement is sent.
			v6ur:prefix	R-	list			Key: prefix-spec
								Advertised prefix entry and its parameters.

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interfaces-state - Continued

Attribute	Attribute		RW	Туре	Mandatory	Default	Description
		v6ur:prefix-spec	R-	inet:ipv6-prefix	X		The ipv6-prefix type represents an IPv6 address prefix.
							The prefix length is given by the number following the
							slash character and must be less than or equal to 128.
							A prefix length value of n corresponds to an IP address
							mask that has n contiguous 1-bits from the most
							significant bit (MSB) and all other bits set to 0.
							The IPv6 address should have all bits that do not belong
							I -
							to the prefix set to zero.
							The canonical format of an IPv6 prefix has all bits of
							the IPv6 address set to zero that are not part of the
							IPv6 prefix. Furthermore, the IPv6 address is represented
							as defined in Section 4 of RFC 5952.
							Type: string
							Pattern:
							((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
							F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
							0-9]?[0-9])))(/(([0-9]) ([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
							IPv6 address prefix.
	++	v6ur:valid-lifetime	R-	uint32			The value that is placed in the Valid Lifetime in the
		voui.vanu-meume	IX-	umi32			Prefix Information option. The designated value of all
							1's (0xffffffff) represents infinity.
							An implementation SHOULD keep this value constant in
							consecutive advertisements except when it is
							explicitly changed in configuration.

interfaces-state - Continued

Attribu	Attribute				RW	Туре	Mandatory	Default	Description
				v6ur:on-link-flag	R-	boolean			The value that is placed in the on-link flag ('L-bit')
									field in the Prefix Information option.
				v6ur:preferred-lifetime	R-	uint32			The value that is placed in the Preferred Lifetime in
									the Prefix Information option, in seconds. The
									designated value of all 1's (0xffffffff) represents
									infinity.
									An implementation SHOULD keep this value constant in
									consecutive advertisements except when it is
									explicitly changed in configuration.
				v6ur:autonomous-flag	R-	boolean			The value that is placed in the Autonomous Flag field
									in the Prefix Information option.
	rt:ro	uting	g-instan	ce	R-	routing-instance-state-ref			This type is used for leafs that reference state data of a
									routing instance.
									Type: leafref
									Path: /routing-state/routing-instance/name
									The name of the routing instance to which the interface is
									assigned.
	ppp:	:ppp-	-if-statu	s	R-	container			PPP Interface Status
		ppp:	packet-	stats	R-	container			
			ppp:nui	mBytesRx	R-	uint32			Number of Received Bytes
			ppp:nui	mBytesTx	R-	uint32			Number of Tx Bytes
			ppp:nui	mPduRx	R-	uint32			Number of Received PDus
			ppp:nui	mPduTx	R-	uint32			Number of Tx PDUs

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key-chains

All configured key-chains for the device.

Att	ribute	e			RW	Туре	Mandatory	Default	Description
	key-	y-chain-list				list			Key: name
									List of key-chains.
	1	name			RW	string	X		Name of the key-chain.
	1	key-	-chain-e	entry	RW	list			Key: key-id
									One key.
			key-id		RW	uint64	X		Range: 1255
									Key id.
			key-str	ing	RW	container			The key string.
			ke	y-string-style	RW	choice			Key string styles
				keystring	RW	case			
				keystring	RW	string			Length: 116
									Key string in ASCII format.
				hexadecimal	RW	case			If Feature: hex-key-string
			crypto-	algorithm	RW	container			Cryptographic algorithm associated with key.
		algorithm		RW	choice			Options for crytographic algorithm specification.	
		md5		RW	case				
		md5			RW	empty			The MD5 algorithm.

key-chains-state

All configured key-chains state.

A	ttrib	ute	RW	Туре	Mandatory	Default	Description
	ke	y-chain-list-state	R-	list			One key-chain state.
		name-state	R-	string			Configured name of the key-chain.

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key-chains-state - Continued

A	Attribute						RW	Туре	Mandatory	Default	Description
		ассе	ept-t	olera	nce-sta	ate	R-	container			Configured tolerance for key lifetime
											acceptance (seconds).
		duration					R-	uint32			Configured tolerance range, in seconds.
		key-	-cha	in-en	try		R-	list			Key: key-id
											One key.
			key	-id			R-	uint64	X		Configurd key id.
			life	ime-	state		R-	container			Configured key's lifetime.
				send	l-lifetii	ne	R-	container			Configured send-lifetime.
		lifetime			ne	R-	choice		always	Options for specifying key accept or send lifetimes	
		alv		al	ways	R-	case				
						always	R-	empty			Indicates key lifetime is always valid.
		start-end-time			art-end-time	R-	case				

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Attribute	RW	Туре	Mandatory	Default	Description
start-date-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
					standard for representation of dates and times using the
					Gregorian calendar. The profile is defined by the
					date-time production in Section 5.6 of RFC 3339.
					The date-and-time type is compatible with the dateTime XML
					schema type with the following notable exceptions:
					(a) The date-and-time type does not allow negative years.
					(b) The date-and-time time-offset -00:00 indicates an unknown
					time zone (see RFC 3339) while -00:00 and +00:00 and Z
					all represent the same time zone in dateTime.
					(c) The canonical format (see below) of data-and-time values
					differs from the canonical format used by the dateTime XML
					schema type, which requires all times to be in UTC using
					the time-offset 'Z'.
					This type is not equivalent to the DateAndTime textual
					convention of the SMIv2 since RFC 3339 uses a different
					separator between full-date and full-time and provides
					higher resolution of time-secfrac.
					The canonical format for date-and-time values with a known time
					zone uses a numeric time zone offset that is calculated using
					the device's configured known offset to UTC time. A change of
					the device's offset to UTC time will cause date-and-time values
					to change accordingly. Such changes might happen periodically

key-chains-state - Continued

Attı	Attribute							Туре	Mandatory	Default	Description
											(DST) time zone offset changes. The canonical format for
											date-and-time values with an unknown time zone (usually
											referring to the notion of local time) uses the time-offset
											-00:00.
											Type: string
											Pattern: \d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d+)?(Z [\+\-]\d{2}:\d{2})
											Start time.
					end-	time	R-	choice		infinite	End-time setting.
						infinite	R-	case			
						no-end-time	R-	empty			Indicates key lifetime end-time in infinite.
						duration	R-	case			
						duration	R-	uint32			Range: 12147483646
											Key lifetime duration, in seconds
						end-date-time	R-	case			

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Attri	Attribute							RW	Туре	Mandatory	Default	Description
							end-date-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
												standard for representation of dates and times using the
												Gregorian calendar. The profile is defined by the
												date-time production in Section 5.6 of RFC 3339.
												The date-and-time type is compatible with the dateTime XML
												schema type with the following notable exceptions:
												(a) The date-and-time type does not allow negative years.
												(b) The date-and-time time-offset -00:00 indicates an unknown
												time zone (see RFC 3339) while -00:00 and +00:00 and Z
												all represent the same time zone in dateTime.
												(c) The canonical format (see below) of data-and-time values
												differs from the canonical format used by the dateTime XML
												schema type, which requires all times to be in UTC using
												the time-offset 'Z'.
												This type is not equivalent to the DateAndTime textual
												convention of the SMIv2 since RFC 3339 uses a different
												separator between full-date and full-time and provides
												higher resolution of time-secfrac.
												The canonical format for date-and-time values with a known time
												zone uses a numeric time zone offset that is calculated using
												the device's configured known offset to UTC time. A change of
												the device's offset to UTC time will cause date-and-time values
												to change accordingly. Such changes might happen periodically

key-chains-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}(\.\d{+})?(Z [\+\-]\d{2}:\d{2})$ End time.
send-valid	R-	boolean			Status of send-lifetime.
accept-lifetime	R-	container			Configured accept-lifetime.
lifetime	R-	choice		always	Options for specifying key accept or send lifetimes
always	R-	case			
always	R-	empty			Indicates key lifetime is always valid.
start-end-time	R-	case			

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Attribute	RW	v 1	Туре	Mandatory	Default	Description
star	rt-date-time R-	У	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
						standard for representation of dates and times using the
						Gregorian calendar. The profile is defined by the
						date-time production in Section 5.6 of RFC 3339.
						The date-and-time type is compatible with the dateTime XML
						schema type with the following notable exceptions:
						(a) The date-and-time type does not allow negative years.
						(b) The date-and-time time-offset -00:00 indicates an unknown
						time zone (see RFC 3339) while -00:00 and +00:00 and Z
						all represent the same time zone in dateTime.
						(c) The canonical format (see below) of data-and-time values
						differs from the canonical format used by the dateTime XML
						schema type, which requires all times to be in UTC using
						the time-offset 'Z'.
						This type is not equivalent to the DateAndTime textual
						convention of the SMIv2 since RFC 3339 uses a different
						separator between full-date and full-time and provides
						higher resolution of time-secfrac.
						The canonical format for date-and-time values with a known time
						zone uses a numeric time zone offset that is calculated using
						the device's configured known offset to UTC time. A change of
						the device's offset to UTC time will cause date-and-time values
						to change accordingly. Such changes might happen periodically

Attribute								RW	Туре	Mandatory	Default	Description
												(DST) time zone offset changes. The canonical format for
												date-and-time values with an unknown time zone (usually
												referring to the notion of local time) uses the time-offset
												-00:00.
												Type: string
												Start time.
					eı	nd-tim	e	R-	choice		infinite	End-time setting.
						infi	nite	R-	case			
							no-end-time	R-	empty			Indicates key lifetime end-time in infinite.
						dur	ation	R-	case			
							duration	R-	uint32			Range: 12147483646
												Key lifetime duration, in seconds
						end	-date-time	R-	case			

Attribute	RW	Туре	Mandatory	Default	Description
end-date-time	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
					standard for representation of dates and times using the
					Gregorian calendar. The profile is defined by the
					date-time production in Section 5.6 of RFC 3339.
					The date-and-time type is compatible with the dateTime XML
					schema type with the following notable exceptions:
					(a) The date-and-time type does not allow negative years.
					(b) The date-and-time time-offset -00:00 indicates an unknown
					time zone (see RFC 3339) while -00:00 and +00:00 and Z
					all represent the same time zone in dateTime.
					(c) The canonical format (see below) of data-and-time values
					differs from the canonical format used by the dateTime XML
					schema type, which requires all times to be in UTC using
					the time-offset 'Z'.
					This type is not equivalent to the DateAndTime textual
					convention of the SMIv2 since RFC 3339 uses a different
					separator between full-date and full-time and provides
					higher resolution of time-secfrac.
					The canonical format for date-and-time values with a known time
					zone uses a numeric time zone offset that is calculated using
					the device's configured known offset to UTC time. A change of
					the device's offset to UTC time will cause date-and-time values
					to change accordingly. Such changes might happen periodically

Attribute	RW	Туре	Mandatory	Default	Description
					(DST) time zone offset changes. The canonical format for date-and-time values with an unknown time zone (usually referring to the notion of local time) uses the time-offset -00:00. Type: string
					End time.
accept-valid	R-	boolean			Status of accept-lifetime.
crypto-algorithm-state	R-	container			Configured cryptographic algorithm.
algorithm	R-	choice			Options for crytographic algorithm specification.
hmac-sha-1-12	R-	case			If Feature: crypto-hmac-sha-1-12
hmac-sha1-12	R-	empty			The HMAC-SHA-1-12 algorithm.
md5	R-	case			
md5	R-	empty			The MD5 algorithm.
sha-1	R-	case			
sha-1	R-	empty			The SHA-1 algorithm.
hmac-sha-1	R-	case			
hmac-sha-1	R-	empty			HMAC-SHA-1 authentication algorithm.
hmac-sha-256	R-	case			
hmac-sha-256	R-	empty			HMAC-SHA-256 authentication algorithm.
hmac-sha-384	R-	case			
hmac-sha-384	R-	empty			HMAC-SHA-384 authentication algorithm.
hmac-sha-512	R-	case			
hmac-sha-512	R-	empty			HMAC-SHA-512 authentication algorithm.

if-state-change

This notification is sent when interface state change is detected.

Attribute	RW	Type	Mandatory	Default	Description
routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
					configuration.
					Type: leafref
					Path: /rt:routing/routing-instance/name
					Describe the routing instance.
routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
instance-af	R-	container			Describes the address family of the OSPF instance.
af	R-	identityref			Base: rt:address-family
					Address-family of the instance.
link-type	R-	identityref			Base: if-link-type
					Type of OSPF interface.
interface	R-	container			Normal interface.
interface	R-	if:interface-ref			This type is used by data models that need to reference
					configured interfaces.
					Type: leafref
					Path: /if:interfaces/interface/name
					Interface.
virtual-link	R-	container			virtual-link.
area-id	R-	uint32			Area ID.

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if-state-change - Continued

A	Attribute		RW	Type	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
Γ	sham-link		R-	container			sham-link.
		area-id	R-	uint32			Area ID.

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if-state-change - Continued

Attribute		Туре	Mandatory	Default	Description
local-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

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if-state-change - Continued

Attribute	RW	Type	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link local address.

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if-state-change - Continued

Attri	Attribute		Туре	Mandatory	Default	Description
	remote-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.

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if-state-change - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link remote address.

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if-state-change - Continued

A	Attribute		Туре	Mandatory	Default	Description
	state	R-	if-state-type			OSPF interface state type.
						Type: enumeration
						Enums:
						Down - Interface down state
						Loopback - Interface loopback state
						Waiting - Interface waiting state
						Point-to-Point - Interface point-to-point state
						DR - Interface Designated Router (DR) state
						BDR - Interface Backup Designated Router (BDR) state
						DR-Other - Interface Other Designated Router state
						Interface state.

if-config-error

This notification is sent when interface config error is detected.

At	Attribute		Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.

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if-config-error - Continued

At	Attribute		RW	Туре	Mandatory	Default	Description
	link	z-type	R-	identityref			Base: if-link-type
							Type of OSPF interface.
	inte	rface	R-	container			Normal interface.
		interface	R-	if:interface-ref			This type is used by data models that need to reference
							configured interfaces.
							Type: leafref
							Path: /if:interfaces/interface/name
							Interface.
		packet-source	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Source address.
	virt	ual-link	R-	container			virtual-link.
		area-id	R-	uint32			Area ID.

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if-config-error - Continued

A	Attribute		RW	Type	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
Γ	sham-link		R-	container			sham-link.
		area-id	R-	uint32			Area ID.

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if-config-error - Continued

Attribute		Туре	Mandatory	Default	Description
local-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.
				1	

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if-config-error - Continued

Attribute	RW	Type	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link local address.

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if-config-error - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	remote-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						$(([0-9][1-9][0-9][1[0-9][0-9][2[0-4][0-9][25[0-5]) \setminus) \{3\}([0-9][1-9][0-9][1-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0$
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.

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if-config-error - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link remote address.

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if-config-error - Continued

Attribute	RW	Туре	Mandatory	Default	Description
packet-type	R-	packet-type			OSPF packet type.
					Type: enumeration
					Enums:
					Hello - OSPF hello packet.
					Database-Descripton - OSPF database description packet.
					Link-State-Request - OSPF link state request packet.
					Link-State-Update - OSPF link state update packet.
					Link-State-Ack - OSPF link state acknowlegement packet.
					OSPF packet type.
error	R-	enumeration			Enums:
					badVersion - Bad version
					areaMismatch - Area mistmatch
					unknownNbmaNbr - Unknown NBMA neighbor
					unknownVirtualNbr - Unknown virtual link neighbor
					authTypeMismatch - Auth type mismatch
					authFailure - Auth failure
					netMaskMismatch - Network mask mismatch
					helloIntervalMismatch - Hello interval mismatch
					deadIntervalMismatch - Dead interval mismatch
					optionMismatch - Option mismatch
					mtuMismatch - MTU mismatch
					duplicateRouterId - Duplicate router ID
					noError - No error
					Error code.

nbr-state-change

This notification is sent when neighbor state change is detected.

nbr-state-change - Continued

Attı	Attribute		Туре	Mandatory	Default	Description
Attı	ribute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.
	link-type	R-	identityref			Base: if-link-type
Ш						Type of OSPF interface.
	interface	R-	container			Normal interface.
	interface	R-	if:interface-ref			This type is used by data models that need to reference
						configured interfaces.
						Type: leafref
						Path: /if:interfaces/interface/name
						Interface.

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nbr-state-change - Continued

Att	Attribute		RW	Туре	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
		neighbor-ip-addr	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							$(([0-9][1-9][0-9] 1[0-9][0-9] 2[0-4][0-9] 25[0-5]) \setminus .) \{3\} ([0-9][1-9][0-9] 1[0-9][0-9][0-9] + \} ([0-9][1-9][0-9][1-9][0-9][1-9][1-9][1-9][1-9][1-9][1-9][1-9][1$
							9] 2[0-4][0-9] 25[0-5])
							Neighbor address.
	virt	ual-link	R-	container			virtual-link.
		area-id	R-	uint32			Area ID.

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nbr-state-change - Continued

Α	Attribute		RW	Type	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
	sha	ım-link	R-	container			sham-link.
		area-id	R-	uint32			Area ID.

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nbr-state-change - Continued

Attrib	ute	RW	Туре	Mandatory	Default	Description
	local-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-9
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.
\Box				l		

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nbr-state-change - Continued

Attribute	RW	Type	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link local address.

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nbr-state-change - Continued

At	Attribute		RW	Туре	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
		neighbor-ip-addr	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor address.

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nbr-state-change - Continued

A	Attribute		Туре	Mandatory	Default	Description
	state	R-	nbr-state-type			OSPF neighbor state type.
						Type: enumeration
						Enums:
						Down - Neighbor down state
						Attempt - Neighbor attempt state
						Init - Neighbor init state
						2-Way - Neighbor 2-Way state
						ExStart - Neighbor exchange start state
						Exchange - Neighbor exchange state
						Loading - Neighbor loading state
						Full - Neighbor full state
						Neighbor state.

nbr-restart-helper-status-change

This notification is sent when neighbor restart helper status change is detected.

Attribute		RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.

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nbr-restart-helper-status-change - Continued

At	Attribute		RW	Туре	Mandatory	Default	Description
	link-type		R-	identityref			Base: if-link-type
							Type of OSPF interface.
	inte	rface	R-	container			Normal interface.
		interface	R-	if:interface-ref			This type is used by data models that need to reference
							configured interfaces.
							Type: leafref
							Path: /if:interfaces/interface/name
							Interface.
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
		neighbor-ip-addr	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor address.

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nbr-restart-helper-status-change - Continued

Att	Attribute		RW	Туре	Mandatory	Default	Description
	virt	ual-link	R-	container			virtual-link.
		area-id	R-	uint32			Area ID.
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							$(([0-9][1-9][0-9][1[0-9][0-9][2[0-4][0-9][25[0-5]) \setminus .) \{3\} ([0-9][1-9][0-9][1-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0$
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
	stat	us	R-	restart-helper-status-type			Restart helper status type.
							Type: enumeration
							Enums:
							Not-Helping - Restart helper status not helping.
							Helping - Restart helper status helping.
							Restart helper status.
	age		R-	uint32			Remaining time in current OSPF graceful restart
							interval, if the router is acting as a restart
							helper for the neighbor.

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nbr-restart-helper-status-change - Continued

A	Attribute		Туре	Mandatory	Default	Description
	exit-reason	R-	restart-exit-reason-type			Describes the outcome of the last attempt at a
						graceful restart, either by itself or acting
						as a helper.
						Type: enumeration
						Enums:
						None - Not attempted.
						InProgress - Restart in progress.
						Completed - Successfully completed.
						TimedOut - Timed out.
						TopologyChanged - Aborted due to topology change.
						Restart helper exit reason.

rx-bad-packet

This notification is sent when an OSPF packet has been received on a interface that cannot be parsed.

At	ribute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.

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rx-bad-packet - Continued

Attrib	ute	RV	w	Туре	Mandatory	Default	Description
li	link-type		-	identityref			Base: if-link-type
							Type of OSPF interface.
in	terface	R-	-	container			Normal interface.
	interface	R-	-	if:interface-ref			This type is used by data models that need to reference
							configured interfaces.
							Type: leafref
							Path: /if:interfaces/interface/name
							Interface.
	packet-source	R-	-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Source address.
vi	rtual-link	R-	-	container			virtual-link.
	area-id	R-	-	uint32			Area ID.

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rx-bad-packet - Continued

A	Attribute		RW	Type	Mandatory	Default	Description
		neighbor-router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
							notation, i.e., four octets written as decimal numbers
							and separated with the '.' (full stop) character.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Neighbor router id.
Γ	sham-link		R-	container			sham-link.
		area-id	R-	uint32			Area ID.

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rx-bad-packet - Continued

Attribute		Туре	Mandatory	Default	Description
local-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

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rx-bad-packet - Continued

Attribute	RW	Type	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link local address.

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rx-bad-packet - Continued

Attrib	Attribute		Туре	Mandatory	Default	Description
	remote-ip-addr	R-	inet:ip-address			The ip-address type represents an IP address and is IP
						version neutral. The format of the textual representation
						implies the IP version. This type supports scoped addresses
						by allowing zone identifiers in the address format.
						Type: union
						Type: inet:ipv4-address
						The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						$(([0-9][1-9][0-9][1[0-9][0-9][2[0-4][0-9][25[0-5]) \setminus) \{3\}([0-9][1-9][0-9][1[0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]$
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						Type: inet:ipv6-address
						The ipv6-address type represents an IPv6 address in full,
						mixed, shortened, and shortened-mixed notation. The IPv6
						address may include a zone index, separated by a % sign.

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rx-bad-packet - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					Sham link remote address.

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rx-bad-packet - Continued

A	Attribute		Type	Mandatory	Default	Description
	packet-type	R-	packet-type			OSPF packet type.
						Type: enumeration
						Enums:
						Hello - OSPF hello packet.
						Database-Descripton - OSPF database description packet.
						Link-State-Request - OSPF link state request packet.
						Link-State-Update - OSPF link state update packet.
						Link-State-Ack - OSPF link state acknowlegement packet.
						OSPF packet type.

lsdb-approaching-overflow

This notification is sent when the number of LSAs in the router's link state database has exceeded ninety percent of the ext-lsdb-limit.

At	tribute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.
	ext-lsdb-limit	R-	uint32			The maximum number of non-default AS-external LSAs
						entries that can be stored in the link state database.

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lsdb-overflow - Continued

Attribute	RW	Type	Mandatory	Default	Description
		J I -			

lsdb-overflow

This notification is sent when the number of LSAs in the router's link state database has exceeded ext-lsdb-limit.

Att	ribute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.
	ext-lsdb-limit	R-	uint32			The maximum number of non-default AS-external LSAs
						entries that can be stored in the link state database.

nssa-translator-status-change

This notification is sent when there is a change in the router's ability to translate OSPF NSSA LSAs OSPF AS-External LSAs.

A	Attribute		Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.

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nssa-translator-status-change - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
	rou	ting-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	inst	tance-af	R-	container			Describes the address family of the OSPF instance.
		af	R-	identityref			Base: rt:address-family
							Address-family of the instance.
	area	a-id	R-	uint32			Area ID.
	stat	rus	R-	nssa-translator-state-type			OSPF NSSA translator state type.
							Type: enumeration
							Enums:
							Enabled - NSSA translator enabled state.
							Elected - NSSA translator elected state.
							Disabled - NSSA translator disabled state.
							NSSA translator status.

restart-status-change

This notification is sent when the graceful restart state for the router has changed.

A	tribute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	rt:routing-instance-ref			This type is used for leafs that reference a routing instance
						configuration.
						Type: leafref
						Path: /rt:routing/routing-instance/name
						Describe the routing instance.
	routing-protocol-name	R-	string			Describes the name of the OSPF routing protocol.
	instance-af	R-	container			Describes the address family of the OSPF instance.

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restart-status-change - Continued

Attı	ibute	RW	Type	Mandatory	Default	Description
	af	R-	identityref			Base: rt:address-family
						Address-family of the instance.
	status	R-	restart-status-type			OSPF graceful restart status type.
						Type: enumeration
						Enums:
						Not-Restarting - Router is not restarting.
						Planned-Restart - Router is going through planned restart.
						Unplanned-Restart - Router is going through unplanned restart.
Ш						Restart status.
	restart-interval	R-	uint16		120	Range: 11800
						Restart interval.
	exit-reason	R-	restart-exit-reason-type			Describes the outcome of the last attempt at a
						graceful restart, either by itself or acting
						as a helper.
						Type: enumeration
						Enums:
						None - Not attempted.
						InProgress - Restart in progress.
						Completed - Successfully completed.
						TimedOut - Timed out.
						TopologyChanged - Aborted due to topology change.
						Restart exit reason.

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routing-state

State data of the routing subsystem.

Attı	ibute	RW	Туре	Mandatory	Default	Description
	routing-instance	R-	list			Key: name
						Each list entry is a container for state data of a routing
						instance.
						An implementation MUST support routing instance(s) of the
						type 'rt:default-routing-instance', and MAY support other
						types. An implementation MAY restrict the number of routing
						instances of each supported type.
						An implementation SHOULD create at least one
						system-controlled instance, and MAY allow the clients to
						create user-controlled routing instances in
						configuration.
	name	R-	string	X		The name of the routing instance.
						For system-controlled instances the name is persistent,
						i.e., it SHOULD NOT change across reboots.
	type	R-	identityref			Base: routing-instance
						The routing instance type.

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routing-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
					notation, i.e., four octets written as decimal numbers
					and separated with the '.' (full stop) character.
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])
					A 32-bit number in the form of a dotted quad that is used by
	-				some routing protocols identifying a router.
interfaces	R-	container			Network layer interfaces belonging to the routing
	_	4			instance.
interface	R-	list of			Each entry is a reference to the name of a configured
					network layer interface.
routing-protocols	R-	container			Container for the list of routing protocol instances.
routing-protocol	R-	list			Key: type, name
					State data of a routing protocol instance.
					An implementation MUST provide exactly one
					system-controlled instance of the type 'direct'. Other
					instances MAY be created by configuration.
type	R-	identityref	X		Base: routing-protocol
					Type of the routing protocol.
name	R-	string	X		The name of the routing protocol instance.
					For system-controlled instances this name is
					persistent, i.e., it SHOULD NOT change across
					reboots.

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routing-state - Continued

Attribu	ite			RW	Туре	Mandatory	Default	Description
		osp	f:ospf	R-	container			OSPF
			ospf:instance	R-	list			Key: routing-instance, af
								An OSPF routing protocol instance.
			ospf:routing-instance	R-	rt:routing-instance-ref	X		This type is used for leafs that reference a routing instance
								configuration.
								Type: leafref
								Path: /rt:routing/routing-instance/name
								For protocol centric model, which is supported in
								default-instance only, this could reference any layer 3
								routing-instance.
								For routing-instance centric model, must reference the
								enclosing routing-instance.
			ospf:af	R-	identityref	X		Base: rt:address-family
								Address-family of the instance.
			ospf:router-id	R-	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
								notation, i.e., four octets written as decimal numbers
								and separated with the '.' (full stop) character.
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])
								Defined in RFC 2328. A 32-bit number
								that uniquely identifies the router.

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routing-state - Continued

At	tribut	te			RW	Туре	Mandatory	Default	Description
				ospf:area	R-	list			Key: area-id
									List of OSPF areas
				ospf:area-id	R-	area-id-type	X		Area ID type.
									Type: union
									Type: uint32
									Type: yang:dotted-quad
									An unsigned 32-bit number expressed in the dotted-quad
									notation, i.e., four octets written as decimal numbers
									and separated with the '.' (full stop) character.
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
									9] 2[0-4][0-9] 25[0-5])
									Area ID.
				ospf:interface	R-	list			Key: interface
			\perp						List of OSPF interfaces.
				ospf:interface	R-	if:interface-ref	X		This type is used by data models that need to reference
									configured interfaces.
									Type: leafref
									Path: /if:interfaces/interface/name
									Interface.

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routing-state - Continued

Attril	oute			RW	Туре	Mandatory	Default	Description
			ospf:network-type	R-	enumeration			Enums:
								broadcast - Specify OSPF broadcast multi-access network.
								non-broadcast - Specify OSPF Non-Broadcast Multi-Access
								(NBMA) network.
								point-to-multipoint - Specify OSPF point-to-multipoint network.
								point-to-point - Specify OSPF point-to-point network.
								Network type.
			ospf:passive	R-	boolean			Enable/Disable passive.
			ospf:demand-circuit	R-	boolean			If Feature: demand-circuit
								Enable/Disable demand circuit.
			ospf:cost	R-	uint16			Range: 165535
								Interface cost.
			ospf:hello-interval	R-	uint16			Range: 165535
								Time between hello packets.
			ospf:dead-interval	R-	uint16			Range: 165535
		$\perp \perp$						Interval after which a neighbor is declared dead.
			ospf:rtrPriority	R-	uint8			Range: 0255
								Router priority for DR election.
			ospf:retransmit-interval	R-	uint16			Range: 165535
								Time between retransmitting unacknowledged Link State
	1							Advertisements (LSAs).
			ospf:transmit-delay	R-	uint16			Range: 165535
								Estimated time needed to send link-state update.

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routing-state - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
			ospf:mtu-ignore	R-	boolean			If Feature: mtu-ignore
								Enable/Disable ignoring of MTU in DBD packets.
			ospf:lls	R-	boolean			If Feature: lls
								Enable/Disable link-local signaling (LLS) support.
			ospf:prefix-suppression	R-	boolean			If Feature: prefix-suppression
								Suppress advertisement of the prefixes.
			ospf:bfd	R-	boolean			If Feature: bfd
								Enable/disable bfd.
			ospf:state	R-	if-state-type			OSPF interface state type.
								Type: enumeration
								Enums:
								Down - Interface down state
								Loopback - Interface loopback state
								Waiting - Interface waiting state
								Point-to-Point - Interface point-to-point state
								DR - Interface Designated Router (DR) state
								BDR - Interface Backup Designated Router (BDR) state
								DR-Other - Interface Other Designated Router state
								Interface state.
			ospf:hello-timer	R-	uint32			Hello timer.
			ospf:wait-timer	R-	uint32			Wait timer.

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routing-state - Continued

Attribute	RW	Type	Mandatory	Default	Description
ospf:dr	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					DR.

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routing-state - Continued

Attr	ibut	e			RW	Туре	Mandatory	Default	Description
				ospf:bdr	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
									dotted-quad notation. The IPv4 address may include a zone
									index, separated by a % sign.
									The zone index is used to disambiguate identical address
									values. For link-local addresses, the zone index will
									typically be the interface index number or the name of an
									interface. If the zone index is not present, the default
									zone of the device will be used.
									The canonical format for the zone index is the numerical
									format
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
									9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
									BDR.
				ospf:neighbor	R-	list			Key: neighbor-id
									List of OSPF neighbors.

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routing-state - Continued

Attri									RW	Туре	Mandatory	Default	Description
								ospf:neighbor-id	R-	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
													dotted-quad notation. The IPv4 address may include a zone
													index, separated by a % sign.
													The zone index is used to disambiguate identical address
													values. For link-local addresses, the zone index will
													typically be the interface index number or the name of an
													interface. If the zone index is not present, the default
													zone of the device will be used.
													The canonical format for the zone index is the numerical
													format
													Type: string
													Pattern:
													(([0-9] [1-9][0-9] 1[0-9] 0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9] 0-9]
													9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
													Neighbor ID.

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routing-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
ospf:address	R-	inet:ip-address			The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address
					The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.

routing-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: $((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])).)\{3\}(25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])))(%[\p{N}\p{L}]+)?$
					Neighbor address.

routing-state - Continued

Attrib	Attribute							RW	Туре	Mandatory	Default	Description
							ospf:dr	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
												dotted-quad notation. The IPv4 address may include a zone
												index, separated by a % sign.
												The zone index is used to disambiguate identical address
												values. For link-local addresses, the zone index will
												typically be the interface index number or the name of an
												interface. If the zone index is not present, the default
												zone of the device will be used.
												The canonical format for the zone index is the numerical
												format
												Type: string
												Pattern:
												$(([0-9][1-9][0-9] 1[0-9][0-9] 2[0-4][0-9] 25[0-5]) \setminus .) \{3\} ([0-9][1-9][0-9] 1[0-9][0-9][0-9] + \} ([0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9]$
												9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
												Designated Router.

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routing-state - Continued

Attri	Attribute							RW	Туре	Mandatory	Default	Description
							ospf:bdr	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
												dotted-quad notation. The IPv4 address may include a zone
												index, separated by a % sign.
												The zone index is used to disambiguate identical address
												values. For link-local addresses, the zone index will
												typically be the interface index number or the name of an
												interface. If the zone index is not present, the default
												zone of the device will be used.
												The canonical format for the zone index is the numerical
												format
												Type: string
												Pattern:
												(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
												9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
												Backup Designated Router.

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routing-state - Continued

Attribute								RW	Туре	Mandatory	Default	Description
							ospf:state	R-	nbr-state-type			OSPF neighbor state type.
												Type: enumeration
												Enums:
												Down - Neighbor down state
												Attempt - Neighbor attempt state
												Init - Neighbor init state
												2-Way - Neighbor 2-Way state
												ExStart - Neighbor exchange start state
												Exchange - Neighbor exchange state
												Loading - Neighbor loading state
												Full - Neighbor full state
												OSPF neighbor state.
						fosp	of:hello-in	R-	uint32			Hello in packets count
						fosp	of:hello-out	R-	uint32			Hello out packets count
						fosp	of:db-desc-in	R-	uint32			DB descriptor in packets count
						fosp	of:db-desc-out	R-	uint32			DB descriptor out packets count
						fost	of:ls-req-in	R-	uint32			LS request in in packets count
						fosp	of:ls-req-out	R-	uint32			LS request out packets count
							of:ls-upd-in	R-	uint32			LS update in packets count
						fosp	of:ls-upd-out	R-	uint32			LS update out packets count
						fosp	of:ls-ack-in	R-	uint32			LS ack in packets count
						fosp	of:ls-ack-out	R-	uint32			LS ack out packets count
						fosp	of:discarded	R-	uint32			Discarded packets count
			ospf:area-scope-lsas				a-scope-lsas	R-	list			Key: lsa-type
												List OSPF area scope LSA databases
						osp	f:lsa-type	R-	uint8	X		OSPF area scope LSA type.

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routing-state - Continued

Attri	bute	•				RW	Туре	Mandatory	Default	Description			
				ospf:area-scope-lsa		R-	list			Key: lsa-id, adv-router			
										List of OSPF area scope LSAs			
					ospf:lsa-id	R-	union	X		Type: inet:ipv4-address			
										The ipv4-address type represents an IPv4 address in			
										dotted-quad notation. The IPv4 address may include a zone			
										index, separated by a % sign.			
										The zone index is used to disambiguate identical address			
										values. For link-local addresses, the zone index will			
										typically be the interface index number or the name of an			
										interface. If the zone index is not present, the default			
										zone of the device will be used.			
										The canonical format for the zone index is the numerical			
										format			
										Type: string			
										Pattern:			
										(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-			
										9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?			
										Type: uint32			
										LSA ID.			

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routing-state - Continued

Attri	bute							RW	Туре	Mandatory	Default	Description			
						ospf:adv-	router	R-	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in			
												dotted-quad notation. The IPv4 address may include a zone			
												index, separated by a % sign.			
												The zone index is used to disambiguate identical address			
												values. For link-local addresses, the zone index will			
												typically be the interface index number or the name of an			
												interface. If the zone index is not present, the default			
												zone of the device will be used.			
												The canonical format for the zone index is the numerical			
												format			
												Type: string			
												Pattern:			
												(([0-9] [1-9][0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-			
												9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?			
												Advertising router.			
						ospf:decoded-completed		R-	boolean			The OSPF LSA body is fully decoded.			
		ospf:version			R-	choice			OSPFv2 or OSPFv3 LSA body.						
						ospf:ospfv2		R-	case						
							ospf:ospfv2	R-	container			OSPFv2 LSA			
							ospf:header	R-	container			Decoded OSPFv2 LSA header data.			

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routing-state - Continued

Attribute	R	w 1	Гуре	Mandatory	Default	Description
	ospf:option R-	- l	bits	X		Bits:
						DC - When set, the router support demand circuits.
						P - Only used in type-7 LSA. When set, the NSSA
						border router should translate the type-7 LSA
						to type-5 LSA.
						MC - When set, the router support MOSPF.
						E - This bit describes the way AS-external-LSAs
						are flooded
						LSA option.
	ospf:lsa-id R-	- i	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
						dotted-quad notation. The IPv4 address may include a zone
						index, separated by a % sign.
						The zone index is used to disambiguate identical address
						values. For link-local addresses, the zone index will
						typically be the interface index number or the name of an
						interface. If the zone index is not present, the default
						zone of the device will be used.
						The canonical format for the zone index is the numerical
						format
						Type: string
						Pattern:
						(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
						9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						LSA ID.
	ospf:opaque-ty R-	- u	uint8	X		Opaque type.
	pe					

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routing-state - Continued

Attrib	ute						RW	Туре	Mandatory	Default	Description
						ospf:opaque-id	R-	uint24	X		24-bit unsigned integer.
											Type: uint32
											Range: 0 16777215
											Opaque id.
						ospf:age	R-	uint16	X		LSA age.
						ospf:type	R-	uint16	X		LSA type.
						ospf:adv-router	R-	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
											notation, i.e., four octets written as decimal numbers
											and separated with the '.' (full stop) character.
											Type: string
											Pattern:
											(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
											9] 2[0-4][0-9] 25[0-5])
											LSA advertising router.
						ospf:seq-num	R-	uint32	X		LSA sequence number.
						ospf:checksum	R-	uint16	X		LSA checksum.
						ospf:length	R-	uint16	X		LSA length.
					ospf	:body	R-	container			Decoded OSPFv2 LSA body data.
						ospf:router	R-	container			Router LSA.
						ospf:flags	R-	bits			Bits:
											V - When set, the router is an endpoint of one or
											more virtual links.
											E - When set, the router is an AS Boundary Router
											(ASBR).
											B - When set, the router is an Area Border Router (ABR).
											Flags

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routing-state - Continued

A	ttribut	te								RW	Туре	Mandatory	Default	Description
								(ospf:num-	R-	uint16			Number of links.
								C	of-links					
								(ospf:link	R-	list			Key: link-id, link-data
														Router LSA link.

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Attri	bute						RW	Туре	Mandatory	Default	Description
						ospf:li	R-	union	X		Type: inet:ipv4-address
						nk-id					The ipv4-address type represents an IPv4 address in
											dotted-quad notation. The IPv4 address may include a zone
											index, separated by a % sign.
											The zone index is used to disambiguate identical address
											values. For link-local addresses, the zone index will
											typically be the interface index number or the name of an
											interface. If the zone index is not present, the default
											zone of the device will be used.
											The canonical format for the zone index is the numerical
											format
											Type: string
											Pattern:
											(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
											9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
											Type: yang:dotted-quad
											An unsigned 32-bit number expressed in the dotted-quad
											notation, i.e., four octets written as decimal numbers
											and separated with the '.' (full stop) character.
											Type: string
											Pattern:
											(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-9 1-9 0-9 1[0-9] 0-9 1-9 0-9 1-9 1-9 0-9 1-9 1-9
											9] 2[0-4][0-9] 25[0-5])

Att	ibut	e							RW	Туре	Mandatory	Default	Description
													Link ID
								ospf:li	R-	union	X		Type: inet:ipv4-address
								nk-dat					The ipv4-address type represents an IPv4 address in
								a					dotted-quad notation. The IPv4 address may include a zone
													index, separated by a % sign.
													The zone index is used to disambiguate identical address
													values. For link-local addresses, the zone index will
													typically be the interface index number or the name of an
													interface. If the zone index is not present, the default
													zone of the device will be used.
													The canonical format for the zone index is the numerical
													format
													Type: string
													Pattern:
													(([0-9] [1-9][0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
													9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
													Type: uint32
													Link data.
								ospf:ty	R-	uint8			Link type.
Ш			\perp					pe					
								ospf:to	R-	list			Key: mt-id
								pology					
													Topology specific information.

Attrib	ute									RW	Туре	Mandatory	Default	Description
									os	R-	uint8	X		The MT-ID for topology enabled on the link.
									pf					
									:m					
									t-i					
									d					
									os	R-	uint16			Metric for the topology.
									pf					
									:m					
									etr					
									ic					
						C	ospf:r	netwoi	k	R-	container			Network LSA.
							О	spf:ne	two	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
							rl	k-mas	k					dotted-quad notation. The IPv4 address may include a zone
														index, separated by a % sign.
														The zone index is used to disambiguate identical address
														values. For link-local addresses, the zone index will
														typically be the interface index number or the name of an
														interface. If the zone index is not present, the default
														zone of the device will be used.
														The canonical format for the zone index is the numerical
														format
														Type: string
														Pattern:
														(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
														9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
														The IP address mask for the network

At	tribu	te								RW	Type	Mandatory	Default	Description
									ospf:attach	R-	list of			List of the routers attached to the network.
									ed-router					
								ospf	summary	R-	container			Summary LSA.
									ospf:netwo	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
									rk-mask					dotted-quad notation. The IPv4 address may include a zone
														index, separated by a % sign.
														The zone index is used to disambiguate identical address
														values. For link-local addresses, the zone index will
														typically be the interface index number or the name of an
														interface. If the zone index is not present, the default
														zone of the device will be used.
														The canonical format for the zone index is the numerical
														format
														Type: string
														Pattern:
														(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
														9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
														The IP address mask for the network
									ospf:topolo	R-	list			Key: mt-id
									gy					
L				\perp	L		L							Topology specific information.
									ospf:m	R-	uint8	X		The MT-ID for topology enabled on the link.
									t-id					

routing-state - Continued

Attribute	RW	Туре	Mandatory	Default	Description
ospf:m	R-	uint24			24-bit unsigned integer.
etric					Type: uint32
					Range: 0 16777215
					Metric for the topology.
ospf:external	R-	container			External LSA.
ospf:netwo	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
rk-mask					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					The IP address mask for the network
ospf:topolo	R-	list			Key: mt-id
gy					
					Topology specific information.
ospf:m	R-	uint8	X		The MT-ID for topology enabled on the link.
t-id					

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Attri	bute							RW	Туре	Mandatory	Default	Description
							ospf:fl	R-	bits			Bits:
							ags					E - When set, the metric specified is a Type 2
												external metric.
												Flags.
							ospf:m	R-	uint24			24-bit unsigned integer.
							etric					Type: uint32
												Range: 0 16777215
												Metric for the topology.
							ospf:fo	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
							rwardi					dotted-quad notation. The IPv4 address may include a zone
							ng-add					index, separated by a % sign.
							ress					
												The zone index is used to disambiguate identical address
												values. For link-local addresses, the zone index will
												typically be the interface index number or the name of an
												interface. If the zone index is not present, the default
												zone of the device will be used.
												The canonical format for the zone index is the numerical
												format
												Type: string
												Pattern:
												(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
												9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
												Forwarding address.

routing-state - Continued

Attrib	ute									RW	Type	Mandatory	Default	Description
									ospf:e	R-	uint32			Route tag.
									xternal					
									-route-					
									tag					
			ospf	:as-sco	pe-l	sas	-	-		R-	list			Key: lsa-type
														List OSPF AS scope LSA databases
				ospf:ls	sa-ty _l	pe				R-	uint8	X		OSPF AS scope LSA type.
				ospf:a	s-sco	pe-lsa	a			R-	list			Key: lsa-id, adv-router
														List of OSPF AS scope LSAs

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routing-state - Continued

Attri	bute	•			RW	Туре	Mandatory	Default	Description
				ospf:lsa-id	R-	union	X		Type: inet:ipv4-address
									The ipv4-address type represents an IPv4 address in
									dotted-quad notation. The IPv4 address may include a zone
									index, separated by a % sign.
									The zone index is used to disambiguate identical address
									values. For link-local addresses, the zone index will
									typically be the interface index number or the name of an
									interface. If the zone index is not present, the default
									zone of the device will be used.
									The canonical format for the zone index is the numerical
									format
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
									9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
									Type: uint32
									LSA ID.

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routing-state - Continued

Attril	bute				RW	Туре	Mandatory	Default	Description
				ospf:adv-router	R-	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
									dotted-quad notation. The IPv4 address may include a zone
									index, separated by a % sign.
									The zone index is used to disambiguate identical address
									values. For link-local addresses, the zone index will
									typically be the interface index number or the name of an
									interface. If the zone index is not present, the default
									zone of the device will be used.
									The canonical format for the zone index is the numerical
									format
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
									9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
									Advertising router.
				ospf:decoded-completed	R-	boolean			The OSPF LSA body is fully decoded.
				ospf:version	R-	choice			OSPFv2 or OSPFv3 LSA body.
				ospf:ospfv2	R-	case			
				ospf:ospfv2	R-	container			OSPFv2 LSA
				ospf:header	R-	container			Decoded OSPFv2 LSA header data.

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routing-state - Continued

Att	ibut	te								RW	Туре	Mandatory	Default	Description
									ospf:option	R-	bits	X		Bits:
														DC - When set, the router support demand circuits.
														P - Only used in type-7 LSA. When set, the NSSA
														border router should translate the type-7 LSA
														to type-5 LSA.
														MC - When set, the router support MOSPF.
														E - This bit describes the way AS-external-LSAs
														are flooded
														LSA option.
									ospf:lsa-id	R-	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
														dotted-quad notation. The IPv4 address may include a zone
														index, separated by a % sign.
														The zone index is used to disambiguate identical address
														values. For link-local addresses, the zone index will
														typically be the interface index number or the name of an
														interface. If the zone index is not present, the default
														zone of the device will be used.
														The canonical format for the zone index is the numerical
														format
														Type: string
														Pattern:
														(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
														9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
		_	\perp	\perp	\downarrow	_	_							LSA ID.
									ospf:opaque-type	R-	uint8	X		Opaque type.

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Attrib	ute						RW	Type	Mandatory	Default	Description
						ospf:opaque-id	R-	uint24	X		24-bit unsigned integer.
											Type: uint32
											Range: 0 16777215
											Opaque id.
						ospf:age	R-	uint16	X		LSA age.
						ospf:type	R-	uint16	X		LSA type.
						ospf:adv-router	R-	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
											notation, i.e., four octets written as decimal numbers
											and separated with the '.' (full stop) character.
											Type: string
											Pattern:
											(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
											9] 2[0-4][0-9] 25[0-5])
											LSA advertising router.
						ospf:seq-num	R-	uint32	X		LSA sequence number.
						ospf:checksum	R-	uint16	X		LSA checksum.
						ospf:length	R-	uint16	X		LSA length.
					osp	of:body	R-	container			Decoded OSPFv2 LSA body data.
						ospf:router	R-	container			Router LSA.
						ospf:flags	R-	bits			Bits:
											V - When set, the router is an endpoint of one or
											more virtual links.
											E - When set, the router is an AS Boundary Router
											(ASBR).
											B - When set, the router is an Area Border Router (ABR).
											Flags

routing-state - Continued

A	ttribut	te							RW	Туре	Mandatory	Default	Description
								ospf:num-of-lin	R-	uint16			Number of links.
								ks					
								ospf:link	R-	list			Key: link-id, link-data
													Router LSA link.

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Attribute	RW	Туре	Mandatory	Default	Description
ospf:link-i	R-	union	X		Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: yang:dotted-quad
					An unsigned 32-bit number expressed in the dotted-quad
					notation, i.e., four octets written as decimal numbers
					and separated with the '.' (full stop) character.
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])

routing-state - Continued

Att	ribu	te								RW	Туре	Mandatory	Default	Description
														Link ID
								C	spf:link-d	R-	union	X		Type: inet:ipv4-address
								a	ıta					The ipv4-address type represents an IPv4 address in
														dotted-quad notation. The IPv4 address may include a zone
														index, separated by a % sign.
														The zone index is used to disambiguate identical address
														values. For link-local addresses, the zone index will
														typically be the interface index number or the name of an
														interface. If the zone index is not present, the default
														zone of the device will be used.
														The canonical format for the zone index is the numerical
														format
														Type: string
														Pattern:
														(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
														9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
														Type: uint32
						_								Link data.
						_			ospf:type	R-	uint8			Link type.
								C	ospf:topolo	R-	list			Key: mt-id
								٤	gy					
				_										Topology specific information.
									ospf:m	R-	uint8	X		The MT-ID for topology enabled on the link.
									t-id					

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routing-state - Continued

At	tribut	te									RW	Туре	Mandatory	Default	Description
										ospf:m	R-	uint16			Metric for the topology.
										etric					
							O	ospf	:netwoi	·k	R-	container			Network LSA.
									ospf:ne	twork-	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
									mask						dotted-quad notation. The IPv4 address may include a zone
															index, separated by a % sign.
															The zone index is used to disambiguate identical address
															values. For link-local addresses, the zone index will
															typically be the interface index number or the name of an
															interface. If the zone index is not present, the default
															zone of the device will be used.
															The canonical format for the zone index is the numerical
															format
															Type: string
															Pattern:
															(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9] 0-
															9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
															The IP address mask for the network
									ospf:att	ached-r	R-	list of			List of the routers attached to the network.
									outer						
							o	ospf	:summa	ary	R-	container			Summary LSA.

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routing-state - Continued

Attri	bute									RW	Type	Mandatory	Default	Description
									ospf:network-	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
									mask					dotted-quad notation. The IPv4 address may include a zone
														index, separated by a % sign.
														The zone index is used to disambiguate identical address
														values. For link-local addresses, the zone index will
														typically be the interface index number or the name of an
														interface. If the zone index is not present, the default
														zone of the device will be used.
														The canonical format for the zone index is the numerical
														format
														Type: string
														Pattern:
														(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
														9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					_	_								The IP address mask for the network
									ospf:topology	R-	list			Key: mt-id
\perp					_									Topology specific information.
		_			_	_			ospf:mt-id		uint8	X		The MT-ID for topology enabled on the link.
									ospf:metri	c R-	uint24			24-bit unsigned integer.
														Type: uint32
														Range: 0 16777215
	-				\perp	\dashv	\downarrow							Metric for the topology.
								ospf	f:external	R-	container			External LSA.

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Attribute	RW	Туре	Mandatory	Default	Description
ospf:network-	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
mask					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					The IP address mask for the network
ospf:topology	R-	list			Key: mt-id
					Topology specific information.
ospf:mt-id	R-	uint8	X		The MT-ID for topology enabled on the link.
ospf:flags	R-	bits			Bits:
					E - When set, the metric specified is a Type 2
					external metric.
					Flags.

routing-state - Continued

Attrib	ute								RW	Туре	Mandatory	Default	Description
								ospf:metric	R-	uint24			24-bit unsigned integer.
													Type: uint32
													Range: 0 16777215
													Metric for the topology.
								ospf:forwa	R-	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
								rding-addr					dotted-quad notation. The IPv4 address may include a zone
								ess					index, separated by a % sign.
													The zone index is used to disambiguate identical address
													values. For link-local addresses, the zone index will
													typically be the interface index number or the name of an
													interface. If the zone index is not present, the default
													zone of the device will be used.
													The canonical format for the zone index is the numerical
													format
													Type: string
													Pattern:
													(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
													9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
						1							Forwarding address.
								ospf:extern	R-	uint32			Route tag.
								al-route-ta					
								g					
	ri	bs							R-	container			Container for RIBs.

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routing-state - Continued

Att	ribute		R	RW	Type	Mandatory	Default	Description
		rib	b R	₹-	list			Key: name
								Each entry represents a RIB identified by the 'name'
								key. All routes in a RIB MUST belong to the same address
								family.
								For each routing instance, an implementation SHOULD
								provide one system-controlled default RIB for each
								supported address family.
			name R	₹-	string	X		The name of the RIB.
			address-family R	₹-	identityref	X		Base: address-family
								Address family.
			default-rib R	₹-	boolean		true	If Feature: multiple-ribs
								This flag has the value of 'true' if and only if the
								RIB is the default RIB for the given address family.
								A default RIB always receives direct routes. By
								default it also receives routes from all routing
								protocols.
			routes R	₹-	container			Current content of the RIB.
			route R	₹-	list			A RIB route entry. This data node MUST be augmented
								with information specific for routes of each address
								family.

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routing-state - Continued

Attril	oute						RW	Туре	Mandatory	Default	Description
			r	oute-	-prefere	ence	R-	route-preference			This type is used for route preferences.
											Type: uint32
											This route attribute, also known as administrative
											distance, allows for selecting the preferred route
											among routes with the same destination prefix. A
											smaller value means a more preferred route.
			n	ext-l	hop		R-	container			Route's next-hop attribute.
				n	ext-hoj	p-options	R-	choice	X		Options for next-hops in state data.
											It is expected that other cases will be added through
											augments from other modules, e.g., for ECMP or recursive
											next-hops.
					sim	ple-next-hop	R-	case			Simple next-hop is specified as an outgoing interface,
											next-hop address or both.
											Address-family-specific modules are expected to provide
											'next-hop-address' leaf via augmentation.
						fujitsu-v4ur:next-hop-address	R-	list of			List of IPv4 next-hops.
						fujitsu-v6ur:next-hop-address	R-	list of			List of IPv6 next-hops.
						fujitsu-routing:outgoing-interface	R-	list of			List of the outgoing interfaces.
					spec	cial-next-hop	R-	case			

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routing-state - Continued

Attribute			RW	Type	Mandatory	Default	Description
		special-next-hop	R-	enumeration			Enums:
							blackhole - Silently discard the packet.
							unreachable - Discard the packet and notify the sender with an error
							message indicating that the destination host is
							unreachable.
							prohibit - Discard the packet and notify the sender with an error
							message indicating that the communication is
							administratively prohibited.
							receive - The packet will be received by the local system.
							Special next-hop options.
sour	ce-proto	ocol	R-	identityref	X		Base: routing-protocol
							Type of the routing protocol from which the route
							originated.
activ	ve		R-	empty			Presence of this leaf indicates that the route is preferred
							among all routes in the same RIB that have the same
							destination prefix.

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A	Attribute					RW	Туре	Mandatory	Default	Description
					last-updated	R-	yang:date-and-time			The date-and-time type is a profile of the ISO 8601
										standard for representation of dates and times using the
										Gregorian calendar. The profile is defined by the
										date-time production in Section 5.6 of RFC 3339.
										The date-and-time type is compatible with the dateTime XML
										schema type with the following notable exceptions:
										(a) The date-and-time type does not allow negative years.
										(b) The date-and-time time-offset -00:00 indicates an unknown
										time zone (see RFC 3339) while -00:00 and +00:00 and Z
										all represent the same time zone in dateTime.
										(c) The canonical format (see below) of data-and-time values
										differs from the canonical format used by the dateTime XML
										schema type, which requires all times to be in UTC using
										the time-offset 'Z'.
										This type is not equivalent to the DateAndTime textual
										convention of the SMIv2 since RFC 3339 uses a different
										separator between full-date and full-time and provides
										higher resolution of time-secfrac.
										inglet resolution of time-sectrac.
										The canonical format for date-and-time values with a known time
										zone uses a numeric time zone offset that is calculated using
										the device's configured known offset to UTC time. A change of
										the device's offset to UTC time will cause date-and-time values
										to change accordingly. Such changes might happen periodically
L	ı		- 1	- 1			1		I	

routing-state - Continued

Attrib	ute		RW	Туре	Mandatory	Default	Description
							(DST) time zone offset changes. The canonical format for
							date-and-time values with an unknown time zone (usually
							referring to the notion of local time) uses the time-offset
							-00:00.
							Type: string
							Pattern: $\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}:\d{2}(\.\d{2})$
							Time stamp of the last modification of the route. If the
							route was never modified, it is the time when the route was
							inserted into the RIB.
		v4ur:destination-prefix	R-	inet:ipv4-prefix			The ipv4-prefix type represents an IPv4 address prefix.
							The prefix length is given by the number following the
							slash character and must be less than or equal to 32.
							A prefix length value of n corresponds to an IP address
							mask that has n contiguous 1-bits from the most
							significant bit (MSB) and all other bits set to 0.
							The canonical format of an IPv4 prefix has all bits of
							the IPv4 address set to zero that are not part of the
							IPv4 prefix.
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])/(([0-9]) ([1-2][0-9]) (3[0-2]))
							IPv4 destination prefix.

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routing-state - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
			v6ur:destination-prefix	R-	inet:ipv6-prefix			The ipv6-prefix type represents an IPv6 address prefix.
								The prefix length is given by the number following the
								slash character and must be less than or equal to 128.
								A prefix length value of n corresponds to an IP address
								mask that has n contiguous 1-bits from the most
								significant bit (MSB) and all other bits set to 0.
								The IPv6 address should have all bits that do not belong
								to the prefix set to zero.
								The canonical format of an IPv6 prefix has all bits of
								the IPv6 address set to zero that are not part of the
								IPv6 prefix. Furthermore, the IPv6 address is represented
								as defined in Section 4 of RFC 5952.
								Type: string
								Pattern:
								((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}
								F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
								0-9]?[0-9])))(/(([0-9]) ([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
								IPv6 destination prefix.
			ospf:metric	R-	uint32			OSPF route metric.
			ospf:tag	R-	uint32		0	OSPF route tag.

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routing-state - Continued

A	tribu	te		RW	Туре	Mandatory	Default	Description
			ospf:route-type	R-	enumeration			Enums:
								intra-area - OSPF intra-area route
								inter-area - OSPF inter-area route
								external-1 - OSPF external route type 1
								external-2 - OSPF External route type 2
								nssa-1 - OSPF NSSA external route type 1
								nssa-2 - OSPF NSSA external route type 2
								OSPF route type

routing

Configuration parameters for the routing subsystem.

A	tribu	nte	RW	Туре	Mandatory	Default	Description
	rou	ating-instance	RW	list			Key: name
							Configuration of a routing instance.
		name	RW	string	X		The name of the routing instance.
							For system-controlled entries, the value of this leaf must
							be the same as the name of the corresponding entry in
							state data.
							For user-controlled entries, an arbitrary name can be
							used.
		type	RW	identityref		rt:default-routi	Base: routing-instance
						ng-instance	
							The type of the routing instance.

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routing - Continued

At	ribut	e		RW	Туре	Mandatory	Default	Description
		enabl	ed	RW	boolean		true	Enable/disable the routing instance.
								If this parameter is false, the parent routing instance is
								disabled and does not appear in state data, despite any
								other configuration that might be present.
		route	:-id	RW	yang:dotted-quad			An unsigned 32-bit number expressed in the dotted-quad
								notation, i.e., four octets written as decimal numbers
								and separated with the '.' (full stop) character.
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])
								A 32-bit number in the form of a dotted quad that is used by
								some routing protocols identifying a router.
		descr	iption	RW	string			Textual description of the routing instance.
		interf	aces	RW	container			Assignment of the routing instance's interfaces.
		iı	nterface	RW	list of			The name of a configured network layer interface to be
								assigned to the routing-instance.
		routir	ng-protocols	RW	container			Configuration of routing protocol instances.
		r	outing-protocol	RW	list			Key: type, name
								Each entry contains configuration of a routing protocol
								instance.
			type	RW	identityref	X		Base: routing-protocol
								Type of the routing protocol - an identity derived
								from the 'routing-protocol' base identity.
			name	RW	string	X		An arbitrary name of the routing protocol instance.

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routing - Continued

Attril	bute			RW	Туре	Mandatory	Default	Description
		descri	ption	RW	string			Textual description of the routing protocol
								instance.
		static-	routes	RW	container			Configuration of the 'static' pseudo-protocol.
								Address-family-specific modules augment this node with
								their lists of routes.
		V-	4ur:ipv4	RW	container			Configuration of a 'static' pseudo-protocol instance
								consists of a list of routes.
			v4ur:route	RW	list			Key: destination-prefix
								A user-ordered list of static routes.
			v4ur:destination-prefix	RW	inet:ipv4-prefix	X		The ipv4-prefix type represents an IPv4 address prefix.
								The prefix length is given by the number following the
								slash character and must be less than or equal to 32.
								A prefix length value of n corresponds to an IP address
								mask that has n contiguous 1-bits from the most
								significant bit (MSB) and all other bits set to 0.
								The canonical format of an IPv4 prefix has all bits of
								the IPv4 address set to zero that are not part of the
								IPv4 prefix.
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])/(([0-9]) ([1-2][0-9]) (3[0-2]))
								IPv4 destination prefix.
			v4ur:description	RW	string			Textual description of the route.
			v4ur:next-hop	RW	container			Configuration of next-hop.

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routing - Continued

Attr	Attribute									RW	Туре	Mandatory	Default	Description
							,	v4ur	:next-hop-options	RW	choice	X		Options for next-hops in static routes.
														It is expected that other cases will be added through
														augments from other modules, e.g., for Equal-Cost Multipath
														routing (ECMP).
									v4ur:simple-next-hop	RW	case			Simple next-hop is specified as an outgoing interface,
														next-hop address or both.
														Address-family-specific modules are expected to provide
														'next-hop-address' leaf via augmentation.
									v4ur:outgoing-interface	RW	list of			Note: leafref
														Path: /rt:routing/routing-instance/interfaces/interface
Ш														Name of the outgoing interface.
Ш									v4ur:special-next-hop	RW	case			
									v4ur:special-next-hop	RW	enumeration			Enums:
														blackhole - Silently discard the packet.
														unreachable - Discard the packet and notify the sender with an error
														message indicating that the destination host is
														unreachable.
														prohibit - Discard the packet and notify the sender with an error
														message indicating that the communication is
														administratively prohibited.
														receive - The packet will be received by the local system.
\sqcup														Special next-hop options.
									v4ur:next-hop-address	RW	case			

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routing - Continued

Attribute									RW	Туре	Mandatory	Default	Description
								v4ur:next-hop-address	RW	inet:ipv4-address			The ipv4-address type represents an IPv4 address in
													dotted-quad notation. The IPv4 address may include a zone
													index, separated by a % sign.
													The zone index is used to disambiguate identical address
													values. For link-local addresses, the zone index will
													typically be the interface index number or the name of an
													interface. If the zone index is not present, the default
													zone of the device will be used.
													The canonical format for the zone index is the numerical
													format
													Type: string
													Pattern:
													(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
													9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
													IPv4 address of the next-hop.
							fuj	itsu-v4ur:onlink-static-route	RW	case			
								fujitsu-v4ur:onlink-outgoing	RW	list of	X		Note: leafref
								-intf					Path: /rt:routing/routing-instance/interfaces/interface
													Outgoing interface for onlink static route (must be set along with
													onlink-next-hop-addr.)

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routing - Continued

Attribute			RW	Туре	Mandatory	Default	Description
		fujitsu-v4ur:onlink-next-hop	RW	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
		-addr					dotted-quad notation. The IPv4 address may include a zone
							index, separated by a % sign.
							The zone index is used to disambiguate identical address
							values. For link-local addresses, the zone index will
							typically be the interface index number or the name of an
							interface. If the zone index is not present, the default
							zone of the device will be used.
							The canonical format for the zone index is the numerical
							format
							Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
							Next-hop address for onlink static route (must be set along with
							onlink-outgoing-intf.)
v6u	r:ipv6		RW	container			Configuration of a 'static' pseudo-protocol instance
							consists of a list of routes.
	v6ur:route		RW	list			Key: destination-prefix
							A user-ordered list of static routes.

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routing - Continued

Attribute	RW	Туре	Mandatory	Default	Description
v6ur:destination-prefix	RW	inet:ipv6-prefix	X		The ipv6-prefix type represents an IPv6 address prefix.
					The prefix length is given by the number following the
					slash character and must be less than or equal to 128.
					A prefix length value of n corresponds to an IP address
					mask that has n contiguous 1-bits from the most
					significant bit (MSB) and all other bits set to 0.
					The IPv6 address should have all bits that do not belong
					to the prefix set to zero.
					The canonical format of an IPv6 prefix has all bits of
					the IPv6 address set to zero that are not part of the
					IPv6 prefix. Furthermore, the IPv6 address is represented
					as defined in Section 4 of RFC 5952.
					Type: string
					Pattern:
					$ \big ((: [0-9a-fA-F]\{0,4\}):)([0-9a-fA-F]\{0,4\}:)\{0,5\}((([0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F]\{0,4\}:)?(: [0-9a-fA-F][0,4]:)?(: [0-9a-fA-F$
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(/(([0-9])([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
					IPv6 destination prefix.
v6ur:description	RW	string			Textual description of the route.
v6ur:next-hop	RW	container			Configuration of next-hop.
v6ur:next-hop-options	RW	choice	X		Options for next-hops in static routes.
					It is expected that other cases will be added through
					augments from other modules, e.g., for Equal-Cost Multipath
					routing (ECMP).

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routing - Continued

Attril	Attribute								RW	Туре	Mandatory	Default	Description
							v	6ur:simple-next-hop	RW	case			Simple next-hop is specified as an outgoing interface,
													next-hop address or both.
													Address-family-specific modules are expected to provide
													'next-hop-address' leaf via augmentation.
								v6ur:outgoing-interface	RW	list of			Note: leafref
													Path: /rt:routing/routing-instance/interfaces/interface
													Name of the outgoing interface.
							V	6ur:special-next-hop	RW	case			
								v6ur:special-next-hop	RW	enumeration			Enums:
													blackhole - Silently discard the packet.
													unreachable - Discard the packet and notify the sender with an error
													message indicating that the destination host is
													unreachable.
													prohibit - Discard the packet and notify the sender with an error
													message indicating that the communication is
													administratively prohibited.
													receive - The packet will be received by the local system.
													Special next-hop options.
							V	6ur:next-hop-address	RW	case			

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routing - Continued

Attribute	RW	Туре	Mandatory	Default	Description
v6ur:next-hop-address	RW	inet:ipv6-address			The ipv6-address type represents an IPv6 address in full,
					mixed, shortened, and shortened-mixed notation. The IPv6
					address may include a zone index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual
					representation defined in Section 4 of RFC 5952. The
					canonical format for the zone index is the numerical
					format as described in Section 11.2 of RFC 4007.
					Type: string
					Pattern:
					((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
					F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					0-9]?[0-9])))(%[\p{N}\p{L}]+)?
					IPv6 address of the next-hop.
ospf:ospf	RW	container			OSPF.
ospf:all-instances-inherit	RW	container			If Feature: instance-inheritance
					Inheritance support to all instances.
ospf:area	RW	container			Area config to be inherited by all areas in
					all instances.

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routing - Continued

Attrib	ute			RW	Туре	Mandatory	Default	Description
			ospf:interface	RW	container			Interface config to be inherited by all interfaces
								in all instances.
		osp	of:operation-mode	RW	identityref		ospf:ships-in-th	Base: operation-mode
							e-night	
								OSPF operation mode.
		osp	of:instance	RW	list			Key: routing-instance, af
								An OSPF routing protocol instance.
			ospf:routing-instance	RW	rt:routing-instance-ref	X		This type is used for leafs that reference a routing instance
								configuration.
								Type: leafref
								Path: /rt:routing/routing-instance/name
								For protocol centric model, which is supported in
								default-instance only, this could reference any layer 3
								routing-instance.
								For routing-instance centric model, must reference the
								enclosing routing-instance.
			ospf:af	RW	identityref	X		Base: rt:address-family
								Address-family of the instance.

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routing - Continued

Attrib	ute				RW	V	Туре	Mandatory	Default	Description
			ospf	router-id	RW	7	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
										notation, i.e., four octets written as decimal numbers
										and separated with the '.' (full stop) character.
										Type: string
										Pattern:
										(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])){3}([0-9] [1-9][0-9] 1[0-9][0-
										9] 2[0-4][0-9] 25[0-5])
										If Feature: router-id
										Defined in RFC 2328. A 32-bit number
										that uniquely identifies the router.
			ospf	admin-distance	RW	7	container			Admin distance config state.
				ospf:granularity	RW	7	choice			Options for expressing admin distance
										for intra-area and inter-area route
				ospf:detail	RW	7	case			
				ospf:intra-area	RW	7	uint8			Range: 1255
										Admin distance for intra-area route.
				ospf:inter-area	RW	7	uint8			Range: 1255
										Admin distance for inter-area route.
				ospf:coarse	RW	7	case			
				ospf:external	RW	7	uint8			Range: 1255
										Admin distance for both external route.
			ospf	graceful-restart	RW	7	container			If Feature: graceful-restart
										Graceful restart config state.
				ospf:enable	RW	7	boolean			Enable/Disable graceful restart as defined in RFC 3623.
				ospf:helper-enable	RW	7	boolean		true	Enable RestartHelperSupport in RFC 3623 Section B.2.

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Attrib	ute				RW	Туре	Mandatory	Default	Description
				ospf:restart-interval	RW	uint16		120	Range: 11800
									RestartInterval option in RFC 3623 Section B.1.
				ospf:helper-strict-lsa-checking	RW	boolean			RestartHelperStrictLSAChecking option in RFC 3623
									Section B.2.
			osp	of:auto-cost	RW	container			If Feature: auto-cost
									Auto cost config state.
				ospf:enable	RW	boolean			Enable/Disable auto cost.
				ospf:reference-bandwidth	RW	uint32			Range: 14294967
									Configure reference bandwidth in term of Mbits
			osp	of:all-areas-inherit	RW	container			If Feature: area-inheritance
		\perp		T					Inheritance for all areas.
		\perp		ospf:area	RW	container			Area config to be inherited by all areas.
				ospf:interface	RW	container			Interface config to be inherited by all interfaces
		+ 1			D.V.				in all areas.
			osp	of:area	RW	list			Key: area-id
					DW	1 1			List of ospf areas
				ospf:area-id	RW	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
									notation, i.e., four octets written as decimal numbers
									and separated with the '.' (full stop) character.
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-9]
									9] 2[0-4][0-9] 25[0-5])
									Area ID.

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 ttribu	ıte			RW	Type	Mandatory	Default	Description
			ospf:area-type	RW	identityref		normal	Base: area-type
								Area type.
			ospf:summary	RW	boolean			Enable/Disable summary generation to the stub or
								NSSA area.
			ospf:default-cost	RW	uint32			Range: 116777215
								Set the summary default-cost for a stub or NSSA area.
			ospf:range	RW	list			Key: prefix
								Summarize routes matching address/mask (border
								routers only)

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Attribute	RW	Туре	Mandatory	Default	Description
ospf:prefix	RW	inet:ip-prefix	X		The ip-prefix type represents an IP prefix and is IP
					version neutral. The format of the textual representations
					implies the IP version.
					Type: union
					Type: inet:ipv4-prefix
					The ipv4-prefix type represents an IPv4 address prefix.
					The prefix length is given by the number following the
					slash character and must be less than or equal to 32.
					A prefix length value of n corresponds to an IP address
					mask that has n contiguous 1-bits from the most
					significant bit (MSB) and all other bits set to 0.
					The canonical format of an IPv4 prefix has all bits of
					the IPv4 address set to zero that are not part of the
					IPv4 prefix.
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])/([[0-9]) ([1-2][0-9]) (3[0-2]))
					Type: inet:ipv6-prefix
					The ipv6-prefix type represents an IPv6 address prefix.
					The prefix length is given by the number following the
					slash character and must be less than or equal to 128.
					A prefix length value of n corresponds to an IP address
					mask that has n contiguous 1-bits from the most

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Attr	ibute	<u> </u>			RW	Туре	Mandatory	Default	Description
									The IPv6 address should have all bits that do not belong
									to the prefix set to zero.
									The canonical format of an IPv6 prefix has all bits of
									the IPv6 address set to zero that are not part of the
									IPv6 prefix. Furthermore, the IPv6 address is represented
									as defined in Section 4 of RFC 5952.
									Type: string
									Pattern:
									((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]
									F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
									0-9]?[0-9])))(/(([0-9]) ([0-9]{2}) (1[0-1][0-9]) (12[0-8])))
									IPv4 or IPv6 prefix
				ospf:advertise	RW	boolean			Advertise or hide.
				ospf:cost	RW	uint24			Range: 016777214
									Cost of summary route.
				ospf:all-interfaces-inherit	RW	container			If Feature: interface-inheritance
									Inheritance for all interfaces
				ospf:interface	RW	container			Interface config to be inherited by all
		\dashv							interfaces.
				ospf:virtual-link	RW	list			Key: router-id
									OSPF virtual link

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routing - Continued

Attri	bute	!			RW	Туре	Mandatory	Default	Description
				ospf:router-id	RW	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
									notation, i.e., four octets written as decimal numbers
									and separated with the '.' (full stop) character.
									Type: string
									Pattern:
									(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
									9] 2[0-4][0-9] 25[0-5])
									Virtual link router ID.
				ospf:cost	RW	uint16			Range: 165535
									Interface cost.
				ospf:hello-interval	RW	uint16			Range: 165535
									Time between hello packets.
				ospf:dead-interval	RW	uint16			Range: 165535
									Interval after which a neighbor is declared dead.
				ospf:rtrPriority	RW	uint8			Range: 0255
									Router priority for DR election.
				ospf:retransmit-interval	RW	uint16			Range: 165535
									Time between retransmitting unacknowledged Link State
									Advertisements (LSAs).
				ospf:transmit-delay	RW	uint16			Range: 165535
									Estimated time needed to send link-state update.

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routing - Continued

Att	ribute							RW	Туре	Mandatory	Default	Description
					osp	f:mtu-ig	nore	RW	boolean			If Feature: mtu-ignore
												Enable/Disable ignoring of MTU in DBD packets.
					osp	f:lls		RW	boolean			If Feature: lls
												Enable/Disable link-local signaling (LLS) support.
					osp	f:prefix-	suppression	RW	boolean			If Feature: prefix-suppression
												Suppress advertisement of the prefixes.
					osp	f:bfd		RW	boolean			If Feature: bfd
												Enable/disable bfd.
					osp	f:ttl-secu	ırity	RW	container			If Feature: ttl-security
												TTL security check.
						ospf:en		RW	boolean			Enable/Disable TTL security check.
						ospf:ho	pps	RW	uint8			Range: 1254
												Maximum number of hops that a OSPF packet may
												have traveled.
					osp	f:protoc	ol-shutdown	RW	container			If Feature: protocol-if-shutdown
												Protocol shutdown interface config state.
			Ш	\perp	ospf:shutdown			RW	boolean			Enable/Disable protocol shutdown on the interface.
		1			osp	f:authen		RW	container			Authentication configuration.
			Ш		ospf:auth-type-selection			RW	choice			Options for expressing authentication setting
			Ш		1 1 1			RW	case			If Feature: ospfv3-authentication-ipsec
			Ш		_		ospf:sa	RW	string			SA name
						osp	of:auth-trailer-key-chain	RW	case			

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routing - Continued

Attrib	ute											RW	Туре	Mandatory	Default	Description
									ospf	f:key	-chain	RW	key-chain:key-chain-ref			This type is used by data models that need to reference
																configured key-chains.
																Type: leafref
																Path: /key-chain:key-chains/key-chain-list/name
																key-chain name
								ospf	f:autl	h-tra	iler-key	RW	case			
									ospf	f:key		RW	string			Key string in ASCII format.
									ospf	f:cry	pto-algorithm	RW	container			Cryptographic algorithm associated with key.
											:algorithm	RW	choice			Options for crytographic algorithm specification.
											ospf:hmac-sha-	RW	case			If Feature: crypto-hmac-sha-1-12
											1-12					
											ospf:hmac-	RW	empty			The HMAC-SHA-1-12 algorithm.
											sha1-12					
											ospf:md5	RW	case			
					<u> </u>			_			ospf:md5	RW	empty			The MD5 algorithm.
					<u> </u>			_			ospf:sha-1	RW	case			
					<u> </u>			_			ospf:sha-1	RW	empty			The SHA-1 algorithm.
											ospf:hmac-sha-	RW	case			
					<u> </u>			_			1					
											ospf:hmac-	RW	empty			HMAC-SHA-1 authentication algorithm.
				_			_	\dashv			sha-1					
											ospf:hmac-sha-	RW	case			
							\dashv	_			256	ļ				
											ospf:hmac-	RW	empty			HMAC-SHA-256 authentication algorithm.
	-			_			\dashv	_			sha-256					
											ospf:hmac-sha-	RW	case			
	-	\sqcup	_	_	<u> </u>	\sqcup	_	_	_		384					
											ospf:hmac-	RW	empty			HMAC-SHA-384 authentication algorithm.
											sha-384					

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routing - Continued

Attr	ttribute ospf:hmac-sha-													RW	Туре	Mandatory	Default	Description
												os	pf:hmac-sha-	RW	case			
												51	2					
													ospf:hmac-	RW	empty			HMAC-SHA-512 authentication algorithm.
													sha-512					
						os	pf:int	terfa	ace		-			RW	list			Key: interface
																		List of OSPF interfaces.
							osp	pf:in	nterfac	ce				RW	if:interface-ref	X		This type is used by data models that need to reference
																		configured interfaces.
																		Type: leafref
																		Path: /if:interfaces/interface/name
																		Interface.
							osp	pf:ne	etwor	k-t	ype			RW	enumeration			Enums:
																		broadcast - Specify OSPF broadcast multi-access network.
																		non-broadcast - Specify OSPF Non-Broadcast Multi-Access
																		(NBMA) network.
																		point-to-multipoint - Specify OSPF point-to-multipoint network.
																		point-to-point - Specify OSPF point-to-point network.
																		Network type.
							ospf:passive							RW	boolean			Enable/Disable passive.
							ospf:static-neighbors							RW	container			Static configured neighbors.
								os	pf:ne	igh	bor			RW	list			Key: address
					\perp													Specify a neighbor router.

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routing - Continued

Attri	bute					RW	Туре	Mandatory	Default	Description
					ospf:address	RW	inet:ip-address	X		The ip-address type represents an IP address and is IP
										version neutral. The format of the textual representation
										implies the IP version. This type supports scoped addresses
										by allowing zone identifiers in the address format.
										Type: union
										Type: inet:ipv4-address
										The ipv4-address type represents an IPv4 address in
										dotted-quad notation. The IPv4 address may include a zone
										index, separated by a % sign.
										The zone index is used to disambiguate identical address
										values. For link-local addresses, the zone index will
										typically be the interface index number or the name of an
										interface. If the zone index is not present, the default
										zone of the device will be used.
										The canonical format for the zone index is the numerical
										format
										Type: string
										Pattern:
										(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
										9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
										Type: inet:ipv6-address
										The ipv6-address type represents an IPv6 address in full,
										mixed, shortened, and shortened-mixed notation. The IPv6
										address may include a zone index, separated by a % sign.

routing - Continued

Attribute	RW	Туре	Mandatory	Default	Description
					values. For link-local addresses, the zone index will typically be the interface index number or the name of an interface. If the zone index is not present, the default zone of the device will be used.
					The canonical format of IPv6 addresses uses the textual representation defined in Section 4 of RFC 5952. The canonical format for the zone index is the numerical format as described in Section 11.2 of RFC 4007. Type: string Pattern: ((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4})))(((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
					$0-9]?[0-9])))(\%[\p{N}\p{L}]+)?$ Neighbor IP address.
ospf:cost	RW	uint16			Range: 165535
ospf:poll-interval	RW	uint16			Neighbor cost. Range: 165535
antincipity.	RW	uint8			Neighbor poll interval.
ospf:priority	K W	unito			Range: 1255 Neighbor priority for DR election.

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routing - Continued

Attrib	ute						RW	Туре	Mandatory	Default	Description
				osp	f:cost		RW	uint16			Range: 165535
											Interface cost.
				osp	f:hello	-interval	RW	uint16		10	Range: 165535
											Time between hello packets.
				osp	f:dead-	interval	RW	uint16		40	Range: 165535
											Interval after which a neighbor is declared dead.
				osp	f:rtrPri	ority	RW	uint8			Range: 0255
											Router priority for DR election.
				osp	f:retrai	nsmit-interval	RW	uint16			Range: 365535
											Time between retransmitting unacknowledged Link State
											Advertisements (LSAs).
				osp	f:trans	mit-delay	RW	uint16			Range: 165535
											Estimated time needed to send link-state update.
				osp	f:mtu-i	ignore	RW	boolean			If Feature: mtu-ignore
											Enable/Disable ignoring of MTU in DBD packets.
				osp		entication	RW	container			Authentication configuration.
						nuth-type-selection	RW	choice			Options for expressing authentication setting
					0	spf:auth-ipsec	RW	case			If Feature: ospfv3-authentication-ipsec
						ospf:sa	RW	string			SA name
					О	spf:auth-trailer-key-chain	RW	case			

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routing - Continued

At	tribut	te								RW	Туре	Mandatory	Default	Description
									ospf:key-chain	RW	key-chain:key-chain-ref			This type is used by data models that need to reference
														configured key-chains.
														Type: leafref
														Path: /key-chain:key-chains/key-chain-list/name
														key-chain name
								ospf	f:auth-trailer-key	RW	case			
									ospf:key	RW	string			Length: 18
														Key string in ASCII format.
				fujit	su-ne	et-os	pf:n	etwo	ork	RW	list			Key: network, mask
														Enable OSPF Routing on this network

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routing - Continued

Attrib	ute					RW	Туре	Mandatory	Default	Description
					fujitsu-net-ospf:network	RW	inet:ipv4-address	X		The ipv4-address type represents an IPv4 address in
										dotted-quad notation. The IPv4 address may include a zone
										index, separated by a % sign.
										The zone index is used to disambiguate identical address
										values. For link-local addresses, the zone index will
										typically be the interface index number or the name of an
										interface. If the zone index is not present, the default
										zone of the device will be used.
										The canonical format for the zone index is the numerical
										format
										Type: string
										Pattern:
										$(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5]) \setminus (3) \{([0-9] [1-9] 0-9] 1[0-9] 0-9] = (-1) \{([0-9] [1-9] 0-9] 1[$
										9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
										Enable OSPF Routing on the network address
					fujitsu-net-ospf:mask	RW	yang:dotted-quad	X		An unsigned 32-bit number expressed in the dotted-quad
										notation, i.e., four octets written as decimal numbers
										and separated with the '.' (full stop) character.
										Type: string
										Pattern:
										$(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5]) \setminus ([0-9] [1-9][0-9] 1[0$
										9] 2[0-4][0-9] 25[0-5])
		\sqcup	\perp	\perp						Network mask
			\perp		fujitsu-net-ospf:area	RW	list of			Area ID in dotted quad format. Example: x.x.x.x
				fos	pf:redistribute	RW	container			Enables redistribution of routes of a particular type.

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routing - Continued

Attribu	ıte					RW	Туре	Mandatory	Default	Description
			fe	ospf:int	erface	RW	container			Enables redistribution of routes on interfaces.
				fosp	f:cost	RW	uint24			24-bit unsigned integer.
										Type: uint32
										Range: 0 16777215
										Cost of redistributing the interface routes.
				fosp	f:LCN	RW	container			Controls publishing/withdrawal of LCN interface routes.
					fospf:enable	RW	boolean		true	
				fosp	f:LMP	RW	container			Controls publishing/withdrawal of LMP interface routes.
					fospf:enable	RW	boolean		true	
			fe	ospf:sta	tic	RW	presence container			Enables redistribution of all static routes
				fosp	f:cost	RW	uint24			24-bit unsigned integer.
										Type: uint32
										Range: 0 16777215
	ribs	s				RW	container			Configuration of RIBs.
		rib				RW	list			Key: name
										Each entry contains configuration for a RIB identified
										by the 'name' key.
										Entries having the same key as a system-controlled entry
										of the list /routing-state/routing-instance/ribs/rib are
										used for configuring parameters of that entry. Other
										entries define additional user-controlled RIBs.

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routing - Continued

A	ttribu	te		RW	Туре	Mandatory	Default	Description
			name	RW	string	X		The name of the RIB.
								For system-controlled entries, the value of this leaf
								must be the same as the name of the corresponding
								entry in state data.
								For user-controlled entries, an arbitrary name can be
								used.
			address-family	RW	identityref			Base: address-family
								Address family.
			description	RW	string			Textual description of the RIB.

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syslog

This container describes the configuration parameters for syslog.

Attr	ibute		RW	Туре	Mandatory	Default	Description
	actions	s	RW	container			This container describes the log-action parameters
							for syslog.
	file	le	RW	container			This container describes the configuration parameters for
							file logging. If file-archive limits are not supplied, it
							is assumed that the local implementation defined limits will
							be used.
		log-file	RW	list			Key: name
							This list describes a collection of local logging
							files.
		name	RW	string	X		Length: 1255
							This leaf specifies the name of the log file which
							MUST use the uri scheme file:.
		log-selector	RW	container			This container describes the log selector parameters
							for syslog.
		selector-facility	RW	choice			This choice describes the option to specify no
							facilities, or a specific facility which can be
							all for all facilities.
		log-facility	RW	case			This case specifies one or more specified facilities
							will match when comparing the syslog message facility.
		log-facility	RW	list			Key: facility
							This list describes a collection of syslog
							facilities and severities.

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syslog - Continued

Attribu	te			RW	Туре	Mandatory	Default	Description
			facility	RW	union	X		Type: identityref
								Base: syslogtypes:syslog-facility
								Type: enumeration
								Enums:
								all - This enum describes the case where all
								facilities are requested.
								The leaf uniquely identifies a syslog facility.

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Attri	bute				RW	Туре	Mandatory	Default	Description
				severity	RW	union	X		Type: syslogtypes:severity
									The definitions for Syslog message severity as per RFC 5424.
									Type: enumeration
									Enums:
									emergency - Emergency Level Msg
									alert - Alert Level Msg
									critical - Critical Level Msg
									error - Error Level Msg
									warning - Warning Level Msg
									notice - Notification Level Msg
									info - Informational Level Msg
									debug - Debugging Level Msg
									Type: enumeration
									Enums:
									all - This enum describes the case where all severities
									are selected.
									none - This enum describes the case where no severities
									are selected.
									This leaf specifies the syslog message severity. When
									severity is specified, the default severity comparison
									is all messages of the specified severity and greater are
									selected. 'all' is a special case which means all severities
									are selected. 'none' is a special case which means that
									no selection should occur or disable this filter.

syslog - Continued

Attribu	ite				RW	Туре	Mandatory	Default	Description
				compare-op	RW	enumeration		equals	Enums:
									equals-or-higher - This enum specifies all messages of the specified
									severity and higher are logged according to the
									given log-action
									equals - This enum specifies all messages that are for
									the specified severity are logged according to the
									given log-action
									not-equals - This enum specifies all messages that are not for
									the specified severity are logged according to the
									given log-action
									If Feature: select-sev-compare
									This leaf describes the option to specify how the
									severity comparison is performed.
	rem	ote			RW	container			This container describes the configuration parameters for
									forwarding syslog messages to remote relays or collectors.
		destinat	ion		RW	list			Key: name
									This list describes a collection of remote logging
									destinations.
		nar	ne		RW	string	X		Length: 1255
									An arbitrary name for the endpoint to connect to.
		trai	sport		RW	choice	X		This choice describes the transport option.
			tcp		RW	case			
			tcp		RW	container			This container describes the TCP transport
									options.

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Attri	bute			RW	Туре	Mandatory	Default	Description
			address	RW	inet:host			The host type represents either an IP address or a DNS
								domain name.
								Type: union
								Type: inet:ip-address
								The ip-address type represents an IP address and is IP
								version neutral. The format of the textual representation
								implies the IP version. This type supports scoped addresses
								by allowing zone identifiers in the address format.
								Type: union
								Type: inet:ipv4-address
								The ipv4-address type represents an IPv4 address in
								dotted-quad notation. The IPv4 address may include a zone
								index, separated by a % sign.
								The zone index is used to disambiguate identical address
								values. For link-local addresses, the zone index will
								typically be the interface index number or the name of an
								interface. If the zone index is not present, the default
								zone of the device will be used.
								The canonical format for the zone index is the numerical
								format
								Type: string
								Pattern:
								(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
								9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
								Type: inet:ipv6-address

Attı	ibut	e			RW	Туре	Mandatory	Default	Description
									mixed, shortened, and shortened-mixed notation. The IPv6
									address may include a zone index, separated by a % sign.
									The zone index is used to disambiguate identical address
									values. For link-local addresses, the zone index will
									typically be the interface index number or the name of an
									interface. If the zone index is not present, the default
									zone of the device will be used.
									The canonical format of IPv6 addresses uses the textual
									representation defined in Section 4 of RFC 5952. The
									canonical format for the zone index is the numerical
									format as described in Section 11.2 of RFC 4007.
									Type: string
									Pattern:
									((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}
									F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
									0-9]?[0-9])))(%[\p{N}\p{L}]+)?
									Type: inet:domain-name
									The domain-name type represents a DNS domain name. The
									name SHOULD be fully qualified whenever possible.
									Internet domain names are only loosely specified. Section
			1						, , , , , , , , , , , , , , , , , , ,

Attribute	RW	Туре	Mandatory	Default	Description
					2.1 of RFC 1123). The pattern above is intended to allow
					for current practice in domain name use, and some possible
					future expansion. It is designed to hold various types of
					domain names, including names used for A or AAAA records
					(host names) and other records, such as SRV records. Note
					that Internet host names have a stricter syntax (described
					in RFC 952) than the DNS recommendations in RFCs 1034 and
					1123, and that systems that want to store host names in
					schema nodes using the domain-name type are recommended to
					adhere to this stricter standard to ensure interoperability.
					The encoding of DNS names in the DNS protocol is limited
					to 255 characters. Since the encoding consists of labels
					prefixed by a length bytes and there is a trailing NULL
					byte, only 253 characters can appear in the textual dotted
					notation.
					The description clause of schema nodes using the domain-name
					type MUST describe when and how these names are resolved to
					IP addresses. Note that the resolution of a domain-name value
					may require to query multiple DNS records (e.g., A for IPv4
					and AAAA for IPv6). The order of the resolution process and
					which DNS record takes precedence can either be defined
					explicitly or may depend on the configuration of the
					resolver.
					Domain-name values use the US-ASCII encoding. Their canonical
					format uses lowercase US-ASCII characters. Internationalized
					domain names MUST be A-labels as per RFC 5890.

syslog - Continued

Attr	Attribute					RW	Туре	Mandatory	Default	Description
										Length: 1253
										Pattern:
										((([a-zA-Z0-9])([a-zA-Z0-9\]){0,61})?[a-zA-Z0-9]\.)*([a-zA-Z0-9])([a-zA-Z0-9])
										9\]){0,61})?[a-zA-Z0-9]\.?) \.
										The leaf uniquely specifies the address of
										the remote host. One of the following must
										be specified: an ipv4 address, an ipv6
										address, or a host name.
					port	RW	uint16		514	Range: 165535
										This leaf specifies the port number used to
										deliver messages to the remote server.
				udp		RW	case			
				udj		RW	container			This container describes the UDP transport
										options.

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syslog - Continued

Attribute	RW	Туре	Mandatory	Default	Description
address	RW	inet:host			The host type represents either an IP address or a DNS
					domain name.
					Type: union
					Type: inet:ip-address
					The ip-address type represents an IP address and is IP
					version neutral. The format of the textual representation
					implies the IP version. This type supports scoped addresses
					by allowing zone identifiers in the address format.
					Type: union
					Type: inet:ipv4-address
					The ipv4-address type represents an IPv4 address in
					dotted-quad notation. The IPv4 address may include a zone
					index, separated by a % sign.
					The zone index is used to disambiguate identical address
					values. For link-local addresses, the zone index will
					typically be the interface index number or the name of an
					interface. If the zone index is not present, the default
					zone of the device will be used.
					The canonical format for the zone index is the numerical
					format
					Type: string
					Pattern:
					(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
					9] 2[0-4][0-9] 25[0-5])(%[\p{N}\p{L}]+)?
					Type: inet:ipv6-address

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Attı	ibut	e			RW	Туре	Mandatory	Default	Description
									mixed, shortened, and shortened-mixed notation. The IPv6
									address may include a zone index, separated by a % sign.
									The zone index is used to disambiguate identical address
									values. For link-local addresses, the zone index will
									typically be the interface index number or the name of an
									interface. If the zone index is not present, the default
									zone of the device will be used.
									The canonical format of IPv6 addresses uses the textual
									representation defined in Section 4 of RFC 5952. The
									canonical format for the zone index is the numerical
									format as described in Section 11.2 of RFC 4007.
									Type: string
									Pattern:
									((: [0-9a-fA-F]{0,4}):)([0-9a-fA-F]{0,4}:){0,5}((([0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}:)?(: [0-9a-fA-F]{0,4}
									F]{0,4})) (((25[0-5] 2[0-4][0-9] [01]?[0-9]?[0-9])\.){3}(25[0-5] 2[0-4][0-9] [01]?[
									0-9]?[0-9])))(%[\p{N}\p{L}]+)?
									Type: inet:domain-name
									The domain-name type represents a DNS domain name. The
									name SHOULD be fully qualified whenever possible.
									Internet domain names are only loosely specified. Section
			1						, , , , , , , , , , , , , , , , , , ,

Attribute	RW	Туре	Mandatory	Default	Description
					2.1 of RFC 1123). The pattern above is intended to allow
					for current practice in domain name use, and some possible
					future expansion. It is designed to hold various types of
					domain names, including names used for A or AAAA records
					(host names) and other records, such as SRV records. Note
					that Internet host names have a stricter syntax (described
					in RFC 952) than the DNS recommendations in RFCs 1034 and
					1123, and that systems that want to store host names in
					schema nodes using the domain-name type are recommended to
					adhere to this stricter standard to ensure interoperability.
					The encoding of DNS names in the DNS protocol is limited
					to 255 characters. Since the encoding consists of labels
					prefixed by a length bytes and there is a trailing NULL
					byte, only 253 characters can appear in the textual dotted
					notation.
					The description clause of schema nodes using the domain-name
					type MUST describe when and how these names are resolved to
					IP addresses. Note that the resolution of a domain-name value
					may require to query multiple DNS records (e.g., A for IPv4
					and AAAA for IPv6). The order of the resolution process and
					which DNS record takes precedence can either be defined
					explicitly or may depend on the configuration of the
					resolver.
					Domain-name values use the US-ASCII encoding. Their canonical
					format uses lowercase US-ASCII characters. Internationalized
					domain names MUST be A-labels as per RFC 5890.

Attribute			RW	Туре	Mandatory	Default	Description
							Length: 1253 Pattern: ((([a-zA-Z0-9]([a-zA-Z0-9\]){0,61})?[a-zA-Z0-9]\.)*([a-zA-Z0-9_]([a-zA-Z0-9\]){0,61})?[a-zA-Z0-9]\.?) \.
		port	RW	uint16		514	The leaf uniquely specifies the address of the remote host. One of the following must be specified: an ipv4 address, an ipv6 address, or a host name. Range: 165535
							This leaf specifies the port number used to deliver messages to the remote server.
	log-selecto	r	RW	container			This container describes the log selector parameters for syslog.
	selecto	or-facility	RW	choice			This choice describes the option to specify no facilities, or a specific facility which can be all for all facilities.
	lo	g-facility	RW	case			This case specifies one or more specified facilities will match when comparing the syslog message facility.
		log-facility	RW	list			Key: facility This list describes a collection of syslog facilities and severities.

syslog - Continued

Attribute						RW	Туре	Mandatory	Default	Description
					facility	RW	union	X		Type: identityref
										Base: syslogtypes:syslog-facility
										Type: enumeration
										Enums:
										all - This enum describes the case where all
										facilities are requested.
										The leaf uniquely identifies a syslog facility.

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Attri	Attribute						RW	Туре	Mandatory	Default	Description
						severity	RW	union	X		Type: syslogtypes:severity
											The definitions for Syslog message severity as per RFC 5424.
											Type: enumeration
											Enums:
											emergency - Emergency Level Msg
											alert - Alert Level Msg
											critical - Critical Level Msg
											error - Error Level Msg
											warning - Warning Level Msg
											notice - Notification Level Msg
											info - Informational Level Msg
											debug - Debugging Level Msg
											Type: enumeration
											Enums:
											all - This enum describes the case where all severities
											are selected.
											none - This enum describes the case where no severities
											are selected.
											This leaf specifies the syslog message severity. When
											severity is specified, the default severity comparison
											is all messages of the specified severity and greater are
											selected. 'all' is a special case which means all severities
											are selected. 'none' is a special case which means that
											no selection should occur or disable this filter.

syslog - Continued

At	tribut	ite					RW	Туре	Mandatory	Default	Description
						compare-op	RW	enumeration		equals	Enums:
											equals-or-higher - This enum specifies all messages of the specified
											severity and higher are logged according to the
											given log-action
											equals - This enum specifies all messages that are for
											the specified severity are logged according to the
											given log-action
											not-equals - This enum specifies all messages that are not for
											the specified severity are logged according to the
											given log-action
											If Feature: select-sev-compare
											This leaf describes the option to specify how the
											severity comparison is performed.
			des	tination	facil	ity	RW	identityref			Base: syslogtypes:syslog-facility
											This leaf specifies the facility used in messages
											delivered to the remote server.

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iputil File: iputil.yang Remote Procedure Calls

iputil-ping - Continued

Att	ribu	oute F	RW	Туре	Mandatory	Default	Description
	input						
		options -	·W	string			
		count -	·W	int32		3	
	outp	atput R	R-				
		header R	R-	string			
		error R	R-	string			
		response	R-	list			
		data	R-	string			
		statistics R	R-	container			
		packet R	R-	string			
	time			string			

iputil-ping6 - Continued

Att	ribu	te		RW	Туре	Mandatory	Default	Description
	inpı	input						
		opt	ions	-W	string			
	outp	put		R-				
		hea	nder	R-	string			
		erro	or	R-	string			
		res	ponse	R-	list			
			data	R-	string			
		stat	tistics	R-	container			
			packet	R-	string			
			time	R-	string			

iputil-traceroute - Continued

4	Attrik	oute	RW	Туре	Mandatory	Default	Description
	in	put	-W				
		options	-W	string			
	O	utput					
		header	R-	string			

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iputil File: iputil.yang Remote Procedure Calls

iputil-traceroute - Continued

A	Attrib	ute		RW	Туре	Mandatory	Default	Description
		err	ror	R-	string			
		res	sponse	R-	list			
			trace	R-	string			

iputil-traceroute6 - Continued

At	Attribute			RW	Туре	Mandatory	Default	Description
	inp	nput		-W				
	optic		options -	-W	string			
	out	ıtp	ut 1	R-				
		1	header	R-	string			
			error		string			
			response	R-	list			
			trace	R-	string			

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telemetry-system

Top level configuration and state for the device's telemetry system.

Attribu	Attribute			Туре	Mandatory	Default	Description
sens	sensor-groups			container			Top level container for sensor-groups.
	sensor-group		RW	list			Key: sensor-group-id
							List of telemetry sensory groups on the local
							system, where a sensor grouping represents a resuable
							grouping of multiple paths and exclude filters.
		sensor-group-id	RW	string	X		Note: leafref
							Path:/config/sensor-group-id
							Reference to the name or identifier of the
							sensor grouping
							Length: 1255
							Pattern: [^'/]*
		config	RW	container			Configuration parameters relating to the
							telemetry sensor grouping
		sensor-group-id	RW	string			Length: 1255
							Pattern: [^'/]*
							Name or identifier for the sensor group itself.
							Will be referenced by other configuration specifying a
							sensor group
		sensor-paths	RW	container			Top level container to hold a set of sensor
							paths grouped together
		sensor-path	RW	list			Key: path
							List of paths in the model which together
							comprise a sensor grouping. Filters for each path
							to exclude items are also provided.

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Attribu	Attribute					Туре	Mandatory	Default	Description
			pat	th	RW	string	X		Note: leafref
									Path:/config/path
									Reference to the path of interest
			coı	nfig	RW	container			Configuration parameters to configure a set
									of data model paths as a sensor grouping
				path	RW	string			Path to a section of operational state of interest
									(the sensor).
des	tinati	ion-g	oups		RW	container			Top level container for destination group configuration
									and state.
	dest	tinatio	n-grou	ıp	RW	list			Key: group-id
									List of destination-groups. Destination groups allow the
									reuse of common telemetry destinations across the
									telemetry configuration. An operator references a
									set of destinations via the configurable
									destination-group-identifier.
									A destination group may contain one or more telemetry
									destinations
		grou	o-id		RW	string	X		Note: leafref
									Path:/config/group-id
									Unique identifier for the destination group
									Length: 1255
									Pattern: [^/]*
		conf	g		RW	container			Top level config container for destination groups
			group-i	id	RW	string			Length: 1255
									Pattern: [^/]*
									Unique identifier for the destination group

telemetry-system - Continued

Attribu	ıte			RW	Туре	Mandatory	Default	Description
	destinations			RW	container			The destination container lists the destination
								information such as IP address and port of the
								telemetry messages from the network element.
			destination	RW	list			Key: destination-address, destination-port
								List of telemetry stream destinations
			destination-address	RW	union	X		Note: leafref
								Path:/config/destination-address
								Reference to the destination address of the
								telemetry stream
								Type: string
								Pattern:
								(([0-9] [1-9] 0-9] 1[0-9] 2[0-4] 0-9] 25[0-5])\.){3}([0-9] [1-9] 0-9] 1[0-9] 0-
								9] 2[0-4][0-9] 25[0-5])
								Type: string
								Pattern:
								(([0-9a-fA-F]{1,4}:){7}[0-9a-fA-F]{1,4} ([0-9a-fA-F]{1,4}:){1,7}: ([0-9a-fA-F]{
								1,4}:){1,6}:[0-9a-fA-F]{1,4}([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){1,2} ([
								0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3} ([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4})(-9a-fA-F]{1,4})
								fA-F]{1,4}){1,4} ([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5} 0-9a-fA-F]{
								1,4}:((:[0-9a-fA-F]{1,4}){1,6})):((:[0-9a-fA-F]{1,4}){1,7} :))
			destination-port	RW	uint16	X		Note: leafref
								Path:/config/destination-port
								Reference to the port number of the stream
								destination
								Range: 102465535
			config	RW	container			Configuration parameters relating to
								telemetry destinations

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telemetry-system - Continued

Attribu	te		RW	Туре	Mandatory	Default	Description
		destination-address	RW	union			Type: string
							Pattern:
							(([0-9] [1-9][0-9] 1[0-9] 2[0-4][0-9] 25[0-5])\.){3}([0-9] [1-9][0-9] 1[0-9][0-
							9] 2[0-4][0-9] 25[0-5])
							Type: string
							Pattern:
							(([0-9a-fA-F]{1,4}:){7}[0-9a-fA-F]{1,4} ([0-9a-fA-F]{1,4}:){1,7}: ([0-9a-fA-F]{
							1,4}:){1,6}:[0-9a-fA-F]{1,4}([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4})\{1,2} ([
							0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3} ([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-
							fA-F]{1,4}){1,4} ([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5} [0-9a-fA-F]{
							1,4}:((:[0-9a-fA-F]{1,4}){1,6}) :((:[0-9a-fA-F]{1,4}){1,7} :))
							IP address of the telemetry stream destination
		destination-port	RW	uint16			Range: 102465535
							Protocol (udp or tcp) port number for the telemetry
							stream destination
sub	scriptions		RW	container			This container holds information for both persistent
							and dynamic telemetry subscriptions.
	persistent		RW	container			This container holds information relating to persistent
							telemetry subscriptions. A persistent telemetry
							subscription is configued locally on the device through
							configuration, and is persistent across device restarts or
							other redundancy changes.

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Attrib	ıte		RW	Туре	Mandatory	Default	Description
		subscription	RW	list			Key: subscription-name
							List of telemetry subscriptions. A telemetry
							subscription consists of a set of collection
							destinations, stream attributes, and associated paths to
							state information in the model (sensor data)
		subscription-name	RW	string	X		Note: leafref
							Path:/config/subscription-name
							Reference to the identifier of the subscription
							itself. The id will be the handle to refer to the
							subscription once created
							Length: 1255
							Pattern: [^'/]*
		config	RW	container			Config parameters relating to the telemetry
							subscriptions on the local device
		subscription-name	RW	string			Length: 1255
							Pattern: [^'/]*
							User configured identifier of the telemetry
							subscription. This value is used primarily for
							subscriptions configured locally on the network
							element.
		protocol	RW	enumeration		STREAM_GR	Enums:
						PC	STREAM_GRPC
							Selection of the transport protocol for the telemetry
							stream.

Attribute		RW	Type	Mandatory	Default	Description
	encoding	RW	enumeration		ENC_XML	Enums:
						ENC_XML
						ENC_JSON
						Selection of the specific encoding or RPC framework
						for telemetry messages to and from the network element.
sen	sor-profiles	RW	container			A sensor profile is a set of sensor groups or
						individual sensor paths which are associated with a
						telemetry subscription. This is the source of the
						telemetry data for the subscription to send to the
						defined collectors.
	sensor-profile	RW	list			Key: sensor-group
						List of telemetry sensor groups used
						in the subscription
	sensor-group	RW	leafref	X		Note: leafref
						Path:/config/sensor-group
						Reference to the telemetry sensor group name
						Path:////sensor-groups/sensor-group/config/sensor-group-id
	config	RW	container			Configuration parameters related to the sensor
						profile for a subscription
	sensor-group	RW	string			Note: leafref
						Path:////sensor-groups/sensor-group/config/sensor-group-id
						Reference to the sensor group which is used in the profile
						Length: 1255
						Pattern: [^//]*

Attrib	ute				RW	Туре	Mandatory	Default	Description
				sample-interval	RW	uint64		10000	Range: 100003600000
									Time in milliseconds between the device's sample of a
									telemetry data source. For example, setting this to 100
									would require the local device to collect the telemetry
									data every 100 milliseconds. There can be latency or jitter
									in transmitting the data, but the sample must occur at
									the specified interval.
									The timestamp must reflect the actual time when the data
									was sampled, not simply the previous sample timestamp +
									sample-interval.
									If sample-interval is set to 0, the telemetry sensor
									becomes event based. The sensor must then emit data upon
									every change of the underlying data source.
		d	lestinat	ion-groups	RW	container			A subscription may specify destination addresses.
									If the subscription supplies destination addresses,
									the network element will be the initiator of the
									telemetry streaming, sending it to the destination(s)
									specified.
									If the destination set is omitted, the subscription
									preconfigures certain elements such as paths and
									sample intervals under a specified subscription ID.
									In this case, the network element will NOT initiate an
									outbound connection for telemetry, but will wait for
									an inbound connection from a network management
									system.
									It is expected that the network management system
									connecting to the network element will reference
									the preconfigured subscription ID when initiating
									a subscription.

telemetry-system - Continued

Attı	Attribute						Type	Mandatory	Default	Description
				lestination-gro	up	RW	list			Key: group-id
										Identifier of the previously defined destination
										group
				group-id		RW	leafref	X		Note: leafref
										Path:/config/group-id
										The destination group id references a configured
										group of destinations for the telemetry stream.
										Path:////destination-groups/destination-group/group-id
				config		RW	container			Configuration parameters related to telemetry
										destinations.
				group	id	RW	leafref			Note: leafref
										Path:////destination-groups/destination-group/group-id
										The destination group id references a reusable
										group of destination addresses and ports for
										the telemetry stream.
										Path:/config/group-id

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aaa - Continued

Att					RW	Туре	Mandatory	Default	Description	
	authe	ntic	cation			RW	container			
	u	iser	rs			RW	container			
			user			RW	list			Key: name
			name		RW	string	X			
			u	id		RW	int32	X		
			g	id		RW	int32	X		
			p	asswo	ord	RW	passwdStr	X		Type: ianach:crypt-hash
\vdash	+		s	sh_ke	ydir	RW	string	X		
		1		omed		RW	string	X		
			c	hange	-password	-X				
				inp	put	-W				
					old-password	-W	string	X		
					new-password	-W	string	X		
					confirm-password	-W	string	X		
	ios					RW	presence container			
	10	eve	el			RW	list			Key: nr
			nr			RW	levelInt	X		Type: int32
										Range: 0 15
			secre	t		RW	passwdStr			Type: ianach:crypt-hash
			passv	ord		RW	passwdStr			Type: ianach:crypt-hash
П	prompt		RW	string		\h#				
	p	riv	ilege			RW	list			Key: mode

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aaa - Continued

L	Attribute				Type	Mandatory	Default	Description
			mode	RW	modeStr	X		Type: union
								Type: string
								Type: builtinModes
								Type: enumeration
								Enums:
								exec
								configure
L								
			level	RW	list			Key: nr
			nr	RW	levelInt	X		Type: int32
								Range: 0 15
			command	RW	list			Key: name
			name	RW	string	X		

alias - Continued

A	Attribute	RW	Туре	Mandatory	Default	Description
	name	RW	string	X		
	expansion	RW	string	X		

session - Continued

A	Attribute		Type	Mandatory	Default	Description
	complete-on-space	RW	boolean			
	ignore-leading-space	RW	boolean			
	idle-timeout	RW	idle-timeout			Type: uint64
						Range: 0 8192
	paginate	RW	boolean			

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session - Continued

A	Attribute		Туре	Mandatory	Default	Description
	history	RW	history			Type: uint64
						Range: 0 8192
	autowizard	RW	boolean			
	show-defaults	RW	boolean			
	display-level	RW	display-level			Type: uint64
						Range: 1 64
	prompt1	RW	string			
	prompt2	RW	string			
	devtools	RW	boolean			

user - Continued

Att	Attribute		RW	Туре	Mandatory	Default	Description
	name		RW	string	X		
	des	cription	RW	string			
	alia	ns	RW	list			Key: name
		name	RW	string	X		
		expansion	RW	string	X		
	ses	sion	RW	container			
		complete-on-space	RW	boolean			
		ignore-leading-space	RW	boolean			
		idle-timeout	RW	idle-timeout			Type: uint64
							Range: 0 8192
		paginate	RW	boolean			
		history	RW	history			Type: uint64
							Range: 0 8192
		autowizard	RW	boolean			
		show-defaults	RW	boolean			

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user - Continued

A	Attribute		RW	Туре	Mandatory	Default	Description
		display-level	RW	display-level			Type: uint64
							Range: 1 64
		prompt1	RW	string			
		prompt2	RW	string			
		devtools	RW	boolean			

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