YANG Spec

# fujitsu-equipment

## Data

### eqpt

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| shelf | | | | | | | | | | | | | | | | | | | | RW | list | Key: shelfId |
|  | shelfId | | | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..3 Pattern: [1-3]\*[1-9]|[1-4]0|200  A unique identifier for the shelf. |
|  | description | | | | | | | | | | | | | | | | | | | RW | string | Length: min..1024  shelf information |
|  | oper-status | | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  | admin-status | | | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | type | | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:shelfData/shelfType  The shelf type as defined in 'shelfData'. |
|  | shelf-mode | | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:shelfData[data:shelfType=current()/../type]/shelfMode  Shelf Mode: NORMAL Or REGEN |
|  | shelf-role | | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:shelfData[data:shelfType=current()/../type]/shelfRole  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 physical location |
|  |  | rackId | | | | | | | | | | | | | | | | | | RW | string | descriptive name to associate the shelf to a rack |
|  |  | shelfLocation | | | | | | | | | | | | | | | | | | RW | string | location of the shelf within a rack |
|  | pi | | | | | | | | | | | | | | | | | | | 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. |
|  |  | 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 |
|  | fuse | | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 15..45 Default: 25 |
|  | supply-current | | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 1 Range: 0..max |
|  | supply-voltage | | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 1 Range: 0..max |
|  | currentDrawFeed | | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 1 Range: 0..max |
|  | slot | | | | | | | | | | | | | | | | | | | RW | list | Key: slotID  A list of slots per shelf identified by the 'slotID' |
|  |  | slotID | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:shelfData[data:shelfType=current()/../../type]/slotTypes/slots/slotID  A unique slot ID |
|  |  | description | | | | | | | | | | | | | | | | | | RW | string | Length: min..1024  slot information |
|  |  | oper-status | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  | admin-status | | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | cardType | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:cardData/cardType  the card type as defined in 'cardData' |
|  |  | cardMode | | | | | | | | | | | | | | | | | | RW | leafref | Path: /data:cardData[data:cardType=current()/../cardType]/supportingEquipmentMode/cardMode  the card mode as defined in 'cardData' |
|  |  | pi | | | | | | | | | | | | | | | | | | R- | container | Physical inventory information of the slot |
|  |  |  | 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 |
|  |  | subslot | | | | | | | | | | | | | | | | | | RW | list | Key: subslotID  A list of subslots per slot identified by the 'subslotNumber' |
|  |  |  | subslotID | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:cardData[data:cardType=current()/../../cardType]/supportedSubslot/subslotID  A unique subslot number |
|  |  |  | description | | | | | | | | | | | | | | | | | RW | string | Length: min..1024  subslot information |
|  |  |  | oper-status | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  |  | admin-status | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  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. |
|  |  |  |  | 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 |
|  |  |  | port | | | | | | | | | | | | | | | | | RW | list | Key: portID  A list of ports per subslot identified by the 'portID' |
|  |  |  |  | portID | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:cardData[data:cardType=current()/../../../cardType]/supportedSubslot[data:subslotID=current()/../../subslotID]/supportedPluggableInterfaceClass/port/portID  A unique port ID. |
|  |  |  |  | description | | | | | | | | | | | | | | | | RW | string | Length: min..1024  circuit-name/customer-name of the port. |
|  |  |  |  | connection-type | | | | | | | | | | | | | | | | RW | string | Length: min..1024 Default: not-applicable 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 | Path: /data:pluggableData/pluggableInterface/pluggableInterfaceType  Interface type of the pluggable/fixed unit. |
|  |  |  |  | num-lanes | | | | | | | | | | | | | | | | RW | leafref | Path: /data:pluggableData/pluggableInterface[data:pluggableInterfaceType=current()/../pluggableInterfaceType]/numLanes Default: 4  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. |
|  |  |  |  | admin-status | | | | | | | | | | | | | | | | RW | admin-status | Default: down  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 |
|  |  |  |  | pm | | | | | | | | | | | | | | | | RW | container | Performance Monitoring Info |
|  |  |  |  |  | pm-threshold | | | | | | | | | | | | | | | RW | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  |  |  | pm-name | | | | | | | | | | | | | | RW\* | pm-identity |  |
|  |  |  |  |  |  | pm-location | | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  |  |  | pm-direction | | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  |  |  | pm-type | | | | | | | | | | | | | | RW | enumeration | Enums:  metered - Metered PM type |
|  |  |  |  |  |  | pm-th-metered | | | | | | | | | | | | | | RW | container |  |
|  |  |  |  |  |  |  | pm-th-type | | | | | | | | | | | | | RW | enumeration | Enums:  auto - HW autoprovisioned  user - User-provisioned Default: auto |
|  |  |  |  |  |  |  | pm-th-low | | | | | | | | | | | | | RW\* | decimal64 | Fraction digits: 2 |
|  |  |  |  |  |  |  | pm-th-high | | | | | | | | | | | | | RW\* | decimal64 | Fraction digits: 2 |
|  |  |  |  |  | pm-oper-range | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  |  |  | pm-name | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  |  |  | pm-location | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  |  |  | pm-direction | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  |  |  | 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 |
|  |  |  |  | remoteSrcPeerPort-id | | | | | | | | | | | | | | | | RW | string | Default:   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>. |
|  |  |  |  | remoteDestPeerPort-id | | | | | | | | | | | | | | | | RW | string | Default:   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>. |
|  |  |  |  | subport | | | | | | | | | | | | | | | | RW | list | Key: subPortID  List of subport identified by subPortID. |
|  |  |  |  |  | subPortID | | | | | | | | | | | | | | | RW\* | string | subport identifier |
|  |  |  |  |  | description | | | | | | | | | | | | | | | RW | string | Length: min..1024  subport information |
|  |  |  |  |  | xconRef | | | | | | | | | | | | | | | RW | list | Key: xconID |
|  |  |  |  |  |  | xconID | | | | | | | | | | | | | | RW\* | string | och connection id |
|  |  |  |  |  |  | srcOch | | | | | | | | | | | | | | RW | string | src och aid |
|  |  |  |  |  |  | dstOch | | | | | | | | | | | | | | RW | string | dst och aid |
|  |  |  |  |  | pm | | | | | | | | | | | | | | | RW | container | Performance Monitoring Info |
|  |  |  |  |  |  | pm-threshold | | | | | | | | | | | | | | RW | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  |  |  |  | pm-name | | | | | | | | | | | | | RW\* | pm-identity |  |
|  |  |  |  |  |  |  | pm-location | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  |  |  |  | pm-direction | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  |  |  |  | pm-type | | | | | | | | | | | | | RW | enumeration | Enums:  metered - Metered PM type |
|  |  |  |  |  |  |  | pm-th-metered | | | | | | | | | | | | | RW | container |  |
|  |  |  |  |  |  |  |  | pm-th-type | | | | | | | | | | | | RW | enumeration | Enums:  auto - HW autoprovisioned  user - User-provisioned Default: auto |
|  |  |  |  |  |  |  |  | pm-th-low | | | | | | | | | | | | RW\* | decimal64 | Fraction digits: 2 |
|  |  |  |  |  |  |  |  | pm-th-high | | | | | | | | | | | | RW\* | decimal64 | Fraction digits: 2 |
|  |  |  |  |  |  | pm-oper-range | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  |  |  |  | pm-name | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  |  |  |  | pm-location | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  |  |  |  | pm-direction | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  |  |  |  | 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 |
|  |  |  |  |  | oper-status | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  |  |  |  | admin-status | | | | | | | | | | | | | | | RW | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  |  |  | sys:ains | | | | | | | | | | | | | | | | RW | ains-state | Default: disabled |
|  |  |  |  | sys:vstimer | | | | | | | | | | | | | | | | RW | vstimer |  |
|  |  |  |  | sys:ACTVST | | | | | | | | | | | | | | | | R- | string |  |
|  |  |  | fujitsu-mac-addr:mac-address-max | | | | | | | | | | | | | | | | | R- | yang:mac-address | Default: 00:00:00:00:00:00  Maximum value of MAC-address |
|  |  |  | fujitsu-mac-addr:mac-address-min | | | | | | | | | | | | | | | | | R- | yang:mac-address | Default: 00:00:00:00:00:00  Minimum value of MAC-address |
|  |  | fujitsu-mac-addr:mac-address-max | | | | | | | | | | | | | | | | | | R- | yang:mac-address | Default: 00:00:00:00:00:00  Maximum value of MAC-address |
|  |  | fujitsu-mac-addr:mac-address-min | | | | | | | | | | | | | | | | | | R- | yang:mac-address | Default: 00:00:00:00:00:00  Minimum value of MAC-address |

# fujitsu-user-security

## Data

### security

Security related Configurations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| defaults | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | uage | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:uage-type |  |
|  | page | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:page-type |  |
|  | minit | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:minit-type |  |
|  | reauth | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:reauth-type |  |
|  | idle-timeout | | | | | | | | | | | | | | | | | | | RW\* | uint64 | Range: 0 .. 8192 |
| systemwide | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | uage | | | | | | | | | | | | | | | | | | | RW | usersecu-type:uage-type | Default: OFF  Systemwide user account aging |
|  | umin | | | | | | | | | | | | | | | | | | | RW | usersecu-type:umin-type | Minimum Username length |
|  | pmin | | | | | | | | | | | | | | | | | | | RW | usersecu-type:pmin-type | Minimum Password length |
|  | pcontent | | | | | | | | | | | | | | | | | | | RW | usersecu-type:pcontent-type | Determines the allowed password content - BASIC or ENHANCED |
|  | prot | | | | | | | | | | | | | | | | | | | RW | usersecu-type:prot-type | Password Rotation |
|  | smt | | | | | | | | | | | | | | | | | | | RW | usersecu-type:smt-type | Provides permission to have multiple sessions |
|  | dural | | | | | | | | | | | | | | | | | | | RW | usersecu-type:dural-type | Duration of account lockout after maximum number of unsuccessful user login attempts |
|  | maxinv | | | | | | | | | | | | | | | | | | | RW | usersecu-type:maxinv-type | Maximum number of unsuccessful user login attempts before account gets locked out |
|  | pre-login-banner | | | | | | | | | | | | | | | | | | | RW | string | Length: 0..1600 Default: Welcome to the FUJITSU 1FINITY Copyright Fujitsu Network Communications  Pre-login banner that is to be displayed before user enters the login details |
|  | post-login-banner | | | | | | | | | | | | | | | | | | | RW | string | Length: 0..1600 Default: NOTICE: THIS IS A PRIVATE COMPUTER SYSTEM. UNAUTHORIZED ACCESS OR USE MAY LEAD TO PROSECUTION.  Post-login banner that is to be displayed after successful login |
|  | lastlogin | | | | | | | | | | | | | | | | | | | RW | usersecu-type:lastlogin-type | Timestamp of the last login and number of login failures since last successful login |
|  | warn | | | | | | | | | | | | | | | | | | | RW | usersecu-type:warn-type | Set warning message |
|  | debug | | | | | | | | | | | | | | | | | | | RW | usersecu-type:yORn-type | Enable Debugging level Message |
|  | authentication-order | | | | | | | | | | | | | | | | | | | RW | usersecu-type:authentication-type | AAA authentication order defines the destination hierarchy for authentication and authorization |
|  | accounting-order | | | | | | | | | | | | | | | | | | | RW | usersecu-type:accounting-type | AAA accounting order defines the destination hierarchy for accounting audit logging |
| secuCert:certificates | | | | | | | | | | | | | | | | | | | | RW | list | Key: certificate-id  A list of certificates for this system |
|  | secuCert:certificate-id | | | | | | | | | | | | | | | | | | | RW\* | string | Length: 3..250 Pattern: (([a-zA-Z]([a-zA-Z0-9\_.-]\*)([a-zA-Z0-9])))  <certificate-id> starts with alphabet, ends with alphabet or digit.Interior characters are only alphabets, digits, minus, underscore and dot |
|  | secuCert:file-path | | | | | | | | | | | | | | | | | | | RW\* | string | The complete path to the .pem formatted certificate |
|  | secuCert:information | | | | | | | | | | | | | | | | | | | R- | string | information about the <cert-id> |
| secuCert:system-generated-certificate | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | secuCert:information | | | | | | | | | | | | | | | | | | | R- | string | information about the system-generated-certificate |
| tacacsplus:tacacs | | | | | | | | | | | | | | | | | | | | RW | container | If Feature: tacacs-plus  Configuration of the TACACS+ client. |
|  | tacacsplus:authentication | | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  | tacacsplus:server | | | | | | | | | | | | | | | | | | RW | list | Key: name  List of TACACS+ Authentication servers used by the device. |
|  |  |  | tacacsplus:name | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..64  An arbitrary name for the TACACS+ authentication server. |
|  |  |  | tacacsplus:transport | | | | | | | | | | | | | | | | | RW\* | choice | The transport-protocol-specific parameters for this server. |
|  |  |  |  | tacacsplus:tcp | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | tacacsplus:tcp | | | | | | | | | | | | | | | RW | container | Contains TCP-specific configuration parameters for TACACS+. |
|  |  |  |  |  |  | tacacsplus:address | | | | | | | | | | | | | | RW\* | inet:ip-address | The address of the TACACS+ authentication server. |
|  |  |  |  |  |  | tacacsplus:port | | | | | | | | | | | | | | RW | uint16 | Range: 1..65535 Default: 49  The port number of the TACACS+ authentication server. |
|  |  |  |  |  |  | tacacsplus:shared-secret | | | | | | | | | | | | | | RW\* | string | The shared secret, which is known to both the TACACS+ authentication client and server. |
|  |  |  | tacacsplus:authentication-type | | | | | | | | | | | | | | | | | RW | identityref | Base: tacacs-authentication-type Default: tacacs-plus-pap  The authentication type requested from the TACACS+ server. |
|  |  | tacacsplus:timeout | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 1..30 Default: 5  The number of seconds the device will wait for a response from each TACACS+ authentication server before trying with a different server. |
|  |  | tacacsplus:server-priority | | | | | | | | | | | | | | | | | | RW | leafref | Path: /secu:security/tacacsplus:tacacs/authentication/server/name  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. |
|  |  |  | tacacsplus:name | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..64  An arbitrary name for the TACACS+ accounting server. |
|  |  |  | tacacsplus:transport | | | | | | | | | | | | | | | | | RW\* | choice | The transport-protocol-specific parameters for this server. |
|  |  |  |  | tacacsplus:tcp | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | tacacsplus:tcp | | | | | | | | | | | | | | | RW | container | Contains TCP-specific configuration parameters for TACACS+. |
|  |  |  |  |  |  | tacacsplus:address | | | | | | | | | | | | | | RW\* | inet:ip-address | The address of the TACACS+ accounting server. |
|  |  |  |  |  |  | tacacsplus:port | | | | | | | | | | | | | | RW | uint16 | Range: 1..65535 Default: 49  The port number of the TACACS+ accounting server. |
|  |  |  |  |  |  | tacacsplus:shared-secret | | | | | | | | | | | | | | RW\* | string | The shared secret, which is known to both the TACACS+ accounting client and server. |
|  |  | tacacsplus:timeout | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 1..30 Default: 5  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 | leafref | Path: /secu:security/tacacsplus:tacacs/accounting/server/name  The order of servers in which accounting messages are sent. |
| radius-client:radius | | | | | | | | | | | | | | | | | | | | RW | container | If Feature: radius  Configuration of the RADIUS client. |
|  | radius-client:authentication | | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  | radius-client:auth-server | | | | | | | | | | | | | | | | | | RW | 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 | Length: 1..64  An arbitrary name for the RADIUS server. |
|  |  |  | radius-client:transport | | | | | | | | | | | | | | | | | RW\* | choice | 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. |
|  |  |  |  |  |  | radius-client:auth-address | | | | | | | | | | | | | | RW\* | inet:ip-address | The address of the RADIUS server. |
|  |  |  |  |  |  | radius-client:auth-port | | | | | | | | | | | | | | RW | uint16 | Range: 1..65535 Default: 1812  The port number of the RADIUS server. |
|  |  |  |  |  |  | radius-client:auth-shared-secret | | | | | | | | | | | | | | RW\* | string | The shared secret, which is known to both the RADIUS client and server. This shouldn't be in clear text |
|  |  |  |  |  |  | radius-client:auth-timeout | | | | | | | | | | | | | | RW | uint8 | Range: 1..30 Default: 5  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 | Base: radius-authentication-type Default: radius-pap  The authentication type requested from the RADIUS server. |
|  |  | radius-client:auth-server-attempts | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 1..5 Default: 2  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 | leafref | Path: /secu:security/radius-client:radius/authentication/auth-server/auth-server-name  The order of servers the device will attempt authentication. |
|  | radius-client:accounting | | | | | | | | | | | | | | | | | | | 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 | Length: 1..64  An arbitrary name for the RADIUS server. |
|  |  |  | radius-client:transport | | | | | | | | | | | | | | | | | RW\* | choice | 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. |
|  |  |  |  |  |  | radius-client:acct-address | | | | | | | | | | | | | | RW\* | inet:ip-address | The address of the RADIUS server. |
|  |  |  |  |  |  | radius-client:acct-port | | | | | | | | | | | | | | RW | uint16 | Range: 1..65535 Default: 1813  The port number of the RADIUS server. |
|  |  |  |  |  |  | radius-client:acct-shared-secret | | | | | | | | | | | | | | RW\* | string | The shared secret, which is known to both the RADIUS client and server. This shouldn't be in clear text |
|  |  |  |  |  |  | radius-client:acct-timeout | | | | | | | | | | | | | | RW | uint8 | Range: 1..30 Default: 5  The number of seconds the device will wait for a response from each RADIUS server before trying with a different server. |
|  |  | radius-client:acct-server-attempts | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 1..5 Default: 2  The number of times the device will send a query to all of its RADIUS servers before giving up. |
|  |  | radius-client:acct-server-priority | | | | | | | | | | | | | | | | | | RW | leafref | Path: /secu:security/radius-client:radius/accounting/acct-server/acct-server-name  The order of servers the device will attempt to send accounting information. |

### usergrp

User group related configurations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| group | | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:group-type |  |
| gid | | | | | | | | | | | | | | | | | | | | RW | int32 |  |

### usersec

User security related configurations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| username | | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:username-type |  |
| uage | | | | | | | | | | | | | | | | | | | | RW | usersecu-type:uage-type |  |
| page | | | | | | | | | | | | | | | | | | | | RW | usersecu-type:page-type |  |
| pidout | | | | | | | | | | | | | | | | | | | | R- | int32 |  |
| minit | | | | | | | | | | | | | | | | | | | | RW | usersecu-type:minit-type |  |
| reauth | | | | | | | | | | | | | | | | | | | | RW | usersecu-type:reauth-type |  |

### users

Users related configurations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| user | | | | | | | | | | | | | | | | | | | | RW | list | Key: username |
|  | username | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:username-type |  |
|  | crypt-password | | | | | | | | | | | | | | | | | | | RW | usersecu-type:crypt-password-type |  |
|  | password | | | | | | | | | | | | | | | | | | | RW | usersecu-type:password-type |  |
|  | group | | | | | | | | | | | | | | | | | | | RW\* | usersecu-type:group-type |  |
|  | adminState | | | | | | | | | | | | | | | | | | | RW | usersecu-type:adminState-type | Default: allow |
|  | session | | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  | uage | | | | | | | | | | | | | | | | | | RW | usersecu-type:uage-type |  |
|  |  | uidout | | | | | | | | | | | | | | | | | | R- | int32 |  |

## Remote Procedure Calls

### change-password

RPC to change the logged in user's password

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | currentPassword | | | | | | | | | | | | | | | | | | | -W\* | usersecu-type:password-type | provide the current password |
|  | newPassword | | | | | | | | | | | | | | | | | | | -W\* | usersecu-type:password-type | provide a new password |
|  | newPasswordConfirm | | | | | | | | | | | | | | | | | | | -W\* | usersecu-type:password-type | re-enter the new password |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  Successful  Failed  Successful or Failed |
|  | status-message | | | | | | | | | | | | | | | | | | | R- | string | Gives a more detailed reason for success / failure |

# fujitsu-telemetry

## Remote Procedure Calls

### telemetry

RPC to load and start telemetry

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | action | | | | | | | | | | | | | | | | | | | -W\* | enumeration | Enums:  configure  delete  telemetry action configure / delete |
|  | config-file | | | | | | | | | | | | | | | | | | | -W | string | provide the configuration file |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R-\* | string | Successful or Failed |
|  | status-message | | | | | | | | | | | | | | | | | | | R-\* | string | Detailed reason for success / failure |

# fujitsu-otn-oducn-interfaces

## Notifications

### oducn-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| oducn | | | | | | | | | | | | | | | | | | | | 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 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>. |
|  | 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. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | ais-pt | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  ais  none |
|  | circuit-id | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  circuit identifier/user label |
|  | direction | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional |
|  | standard | | | | | | | | | | | | | | | | | | | R- | choice | Default: 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-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 |
|  |  |  |  | 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 |  |
|  |  | 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 |
|  | degthr | | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X. |
|  | degm | | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  | proactive-DM | | | | | | | | | | | | | | | | | | | R- | boolean | enable/disable proactive Delay Measurement |
|  | tcm | | | | | | | | | | | | | | | | | | | R- | list | Key: layer |
|  |  | layer | | | | | | | | | | | | | | | | | | R-\* | uint8 | Range: 1..6  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 | Default: 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-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 |
|  |  |  |  |  | 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 |  |
|  |  |  | 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 |
|  |  | degthr | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  | degm | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | proactive-DM | | | | | | | | | | | | | | | | | | R- | boolean | enable/disable proactive Delay Measurement |
|  |  | tcm-direction | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  up-tcm - TCM termination direction faces the switch fabric.  down-tcm - TCM termination direction faces the facility  Direction of TCM. |
|  | 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 |
|  | 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 |

# tailf-aaa

## Data

### aaa

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| authentication | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | users | | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  | user | | | | | | | | | | | | | | | | | | RW | list | Key: name |
|  |  |  | name | | | | | | | | | | | | | | | | | RW\* | string |  |
|  |  |  | uid | | | | | | | | | | | | | | | | | RW\* | int32 |  |
|  |  |  | gid | | | | | | | | | | | | | | | | | RW\* | int32 |  |
|  |  |  | password | | | | | | | | | | | | | | | | | RW\* | passwdStr |  |
|  |  |  | ssh\_keydir | | | | | | | | | | | | | | | | | RW\* | string |  |
|  |  |  | homedir | | | | | | | | | | | | | | | | | RW\* | string |  |
| ios | | | | | | | | | | | | | | | | | | | | RW | presence container |  |
|  | level | | | | | | | | | | | | | | | | | | | RW | list | Key: nr |
|  |  | nr | | | | | | | | | | | | | | | | | | RW\* | levelInt |  |
|  |  | secret | | | | | | | | | | | | | | | | | | RW | passwdStr |  |
|  |  | password | | | | | | | | | | | | | | | | | | RW | passwdStr |  |
|  |  | prompt | | | | | | | | | | | | | | | | | | RW | string | Default: \h# |
|  | privilege | | | | | | | | | | | | | | | | | | | RW | list | Key: mode |
|  |  | mode | | | | | | | | | | | | | | | | | | RW\* | modeStr |  |
|  |  | level | | | | | | | | | | | | | | | | | | RW | list | Key: nr |
|  |  |  | nr | | | | | | | | | | | | | | | | | RW\* | levelInt |  |
|  |  |  | command | | | | | | | | | | | | | | | | | RW | list | Key: name |
|  |  |  |  | name | | | | | | | | | | | | | | | | RW\* | string |  |

### alias

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | RW\* | string |  |
| expansion | | | | | | | | | | | | | | | | | | | | RW\* | string |  |

### session

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| complete-on-space | | | | | | | | | | | | | | | | | | | | RW | boolean |  |
| ignore-leading-space | | | | | | | | | | | | | | | | | | | | RW | boolean |  |
| idle-timeout | | | | | | | | | | | | | | | | | | | | RW | idle-timeout |  |
| paginate | | | | | | | | | | | | | | | | | | | | RW | boolean |  |
| history | | | | | | | | | | | | | | | | | | | | RW | history |  |
| autowizard | | | | | | | | | | | | | | | | | | | | RW | boolean |  |
| show-defaults | | | | | | | | | | | | | | | | | | | | RW | boolean |  |
| display-level | | | | | | | | | | | | | | | | | | | | RW | display-level |  |
| prompt1 | | | | | | | | | | | | | | | | | | | | RW | string |  |
| prompt2 | | | | | | | | | | | | | | | | | | | | RW | string |  |
| devtools | | | | | | | | | | | | | | | | | | | | RW | boolean |  |

### user

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | RW\* | string |  |
| description | | | | | | | | | | | | | | | | | | | | RW | string |  |
| alias | | | | | | | | | | | | | | | | | | | | RW | list | Key: name |
|  | name | | | | | | | | | | | | | | | | | | | RW\* | string |  |
|  | expansion | | | | | | | | | | | | | | | | | | | RW\* | string |  |
| session | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | complete-on-space | | | | | | | | | | | | | | | | | | | RW | boolean |  |
|  | ignore-leading-space | | | | | | | | | | | | | | | | | | | RW | boolean |  |
|  | idle-timeout | | | | | | | | | | | | | | | | | | | RW | idle-timeout |  |
|  | paginate | | | | | | | | | | | | | | | | | | | RW | boolean |  |
|  | history | | | | | | | | | | | | | | | | | | | RW | history |  |
|  | autowizard | | | | | | | | | | | | | | | | | | | RW | boolean |  |
|  | show-defaults | | | | | | | | | | | | | | | | | | | RW | boolean |  |
|  | display-level | | | | | | | | | | | | | | | | | | | RW | display-level |  |
|  | prompt1 | | | | | | | | | | | | | | | | | | | RW | string |  |
|  | prompt2 | | | | | | | | | | | | | | | | | | | RW | string |  |
|  | devtools | | | | | | | | | | | | | | | | | | | RW | boolean |  |

# fujitsu-otn-odu-interfaces

## Remote Procedure Calls

### operate-dm

on-demand delay measurement.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | name | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /if:interfaces/interface/name  interface name |
|  | 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. |

## Notifications

### odu-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| odu | | | | | | | | | | | | | | | | | | | | R- | container |  |
|  | ains | | | | | | | | | | | | | | | | | | | R- | ains-state | Default: 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>. |
|  | 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 | Base: odu-cbr-identity  cbr service identity of ODUflex. 'identityref' is used to allow to extend |
|  | oduflex-gfp-num-ts | | | | | | | | | | | | | | | | | | | R-\* | uint8 | Range: 1..80  No of timeslots allowed when ODUflex-gfp |
|  | oduflex-rate | | | | | | | | | | | | | | | | | | | 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. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | circuit-id | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  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  alarm escalation setting |
|  | tx-ftfl | | | | | | | | | | | | | | | | | | | R- | container | Transmit Fault Type Fault Location (FTFL) |
|  |  | fw-op-id | | | | | | | | | | | | | | | | | | R- | string | Length: 0..9  Forward Operator Indentifier sub field of the backward and forward fields in the FTFL message |
|  |  | fw-op-spec | | | | | | | | | | | | | | | | | | R- | string | Length: 0..118  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 |
|  |  | bw-op-spec | | | | | | | | | | | | | | | | | | R- | string | Length: 0..118  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: 0..9  Forward Operator Indentifier sub field of the backward and forward fields in the FTFL message |
|  |  | fw-op-spec | | | | | | | | | | | | | | | | | | R- | string | Length: 0..118  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 |
|  |  | bw-op-spec | | | | | | | | | | | | | | | | | | R- | string | Length: 0..118  Backward Operator Specific sub field of the backward and forward fields in the FTFL message |
|  |  | fw-flt-typ | | | | | | | | | | | | | | | | | | R- | uint8 | Range: 0..255  Forward Fault Type sub field of the backward and forward fields in the FTFL message |
|  |  | bw-flt-typ | | | | | | | | | | | | | | | | | | R- | uint8 | Range: 0..255  Backward Fault Type sub field of the backward and forward fields in the FTFL message |
|  | monitoring-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  Monitoring mode of the ODU Overhead |
|  | 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 | Default: 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-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 |
|  |  |  |  | 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 |  |
|  |  | 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 |
|  | degthr | | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  | degm | | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  | proactive-DM | | | | | | | | | | | | | | | | | | | R- | boolean | enable/disable proactive Delay Measurement |
|  | gcc0-pass-through | | | | | | | | | | | | | | | | | | | R- | boolean | 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. |
|  | tcm | | | | | | | | | | | | | | | | | | | R- | list | Key: layer, tcm-direction  Tandem Connection Management |
|  |  | layer | | | | | | | | | | | | | | | | | | R-\* | uint8 | Range: 1..6  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 | Default: 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-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 |
|  |  |  |  |  | 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 |  |
|  |  |  | 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 |
|  |  | degthr | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  | degm | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | proactive-DM | | | | | | | | | | | | | | | | | | R- | boolean | enable/disable proactive Delay Measurement |
|  |  | tcm-direction | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  up-tcm - TCM termination direction faces the switch fabric.  down-tcm - TCM termination direction faces the facility  Direction of TCM. |
|  |  | pm | | | | | | | | | | | | | | | | | | R- | container | Performance Monitoring Info |
|  |  |  | pm-threshold | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  | pm-name | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  | pm-location | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  | pm-direction | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  | pm-type | | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  |  |  | pm-th-metered | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  |  | pm-th-type | | | | | | | | | | | | | | | R- | enumeration | Enums:  auto - HW autoprovisioned  user - User-provisioned Default: auto |
|  |  |  |  |  | pm-th-low | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  |  |  | pm-th-high | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  |  | pm-th-binned | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  |  | pm-time-periods | | | | | | | | | | | | | | | R- | list | Key: pm-time-period |
|  |  |  |  |  |  | pm-time-period | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  |  |  |  | pm-value | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  | pm-oper-range | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  | pm-name | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  | pm-location | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  | pm-direction | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  | 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 |
|  | 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 |
|  |  | msi | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  | tx-msi | | | | | | | | | | | | | | | | | R- | list | Key: trib-slot  Transmit MSI |
|  |  |  |  | trib-slot | | | | | | | | | | | | | | | | R-\* | uint16 | 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 | 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-msi | | | | | | | | | | | | | | | | | R- | list | Key: trib-slot  Expected MSI |
|  |  |  |  | trib-slot | | | | | | | | | | | | | | | | R-\* | uint16 | 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 |
|  | parent-odu-allocation | | | | | | | | | | | | | | | | | | | R- | presence container |  |
|  |  | trib-port-number | | | | | | | | | | | | | | | | | | R-\* | trib-resource-type | Tributary port number in parent OPU MSI |
|  |  | trib-slots | | | | | | | | | | | | | | | | | | R- | trib-resource-type | Trib slots occupied in parent OPU MSI |
|  | pm | | | | | | | | | | | | | | | | | | | R- | container | Performance Monitoring Info |
|  |  | pm-threshold | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  | pm-name | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  | pm-location | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  | pm-direction | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  | pm-type | | | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  |  | pm-th-metered | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  | pm-th-type | | | | | | | | | | | | | | | | R- | enumeration | Enums:  auto - HW autoprovisioned  user - User-provisioned Default: auto |
|  |  |  |  | pm-th-low | | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  |  | pm-th-high | | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  | pm-th-binned | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  | pm-time-periods | | | | | | | | | | | | | | | | R- | list | Key: pm-time-period |
|  |  |  |  |  | pm-time-period | | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  |  |  | pm-value | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  | pm-oper-range | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  | pm-name | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  | pm-location | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  | pm-direction | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  | 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 |
|  | lpg-name | | | | | | | | | | | | | | | | | | | R- | string | SNCP Line PG Name |
|  | ppg-name | | | | | | | | | | | | | | | | | | | R- | string | SNCP Path PG Name |
|  | from-xcon-name | | | | | | | | | | | | | | | | | | | R- | list | Key: xcon-name |
|  |  | xcon-name | | | | | | | | | | | | | | | | | | R-\* | string |  |
|  | to-xcon-name | | | | | | | | | | | | | | | | | | | R- | list | Key: xcon-name |
|  |  | xcon-name | | | | | | | | | | | | | | | | | | R-\* | string |  |
|  | trib-slots-hidden | | | | | | | | | | | | | | | | | | | R- | trib-resource-type | Trib slots occupied in parent OPU MSIdden |
|  | trib-ports-hidden | | | | | | | | | | | | | | | | | | | R- | trib-resource-type | Trib port occupied in parent OPU MSIdden |
|  | bdi-cross-coupling-id | | | | | | | | | | | | | | | | | | | R- | uint32 | If Feature: bdi-cross-coupling  BDI Cross Coupling ID. |
|  | allTcmList | | | | | | | | | | | | | | | | | | | R- | list | Key: oduIfName, tcmLayer, tcmDirn |
|  |  | oduIfName | | | | | | | | | | | | | | | | | | R-\* | string |  |
|  |  | tcmLayer | | | | | | | | | | | | | | | | | | R-\* | uint8 |  |
|  |  | tcmDirn | | | | | | | | | | | | | | | | | | R-\* | uint8 |  |

# iputil

## Remote Procedure Calls

### iputil-ping

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | options | | | | | | | | | | | | | | | | | | | -W | string | An ip address or hostname to which ping is initiated. |
|  | count | | | | | | | | | | | | | | | | | | | -W | int32 | Default: 3 |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | header | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | error | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | response | | | | | | | | | | | | | | | | | | | R- | list |  |
|  |  | data | | | | | | | | | | | | | | | | | | R- | string |  |
|  | statistics | | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  | packet | | | | | | | | | | | | | | | | | | R- | string |  |
|  |  | time | | | | | | | | | | | | | | | | | | R- | string |  |

### iputil-ping6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | options | | | | | | | | | | | | | | | | | | | -W | string | An ip address or hostname to which ping is initiated. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | header | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | error | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | response | | | | | | | | | | | | | | | | | | | R- | list |  |
|  |  | data | | | | | | | | | | | | | | | | | | R- | string |  |
|  | statistics | | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  | packet | | | | | | | | | | | | | | | | | | R- | string |  |
|  |  | time | | | | | | | | | | | | | | | | | | R- | string |  |

### iputil-traceroute

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | options | | | | | | | | | | | | | | | | | | | -W | string | An ip address or hostname to which traceroute is initiated. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | header | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | error | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | response | | | | | | | | | | | | | | | | | | | R- | list |  |
|  |  | trace | | | | | | | | | | | | | | | | | | R- | string |  |

### iputil-traceroute6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | options | | | | | | | | | | | | | | | | | | | -W | string | An ip address or hostname to which traceroute is initiated. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | header | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | error | | | | | | | | | | | | | | | | | | | R- | string |  |
|  | response | | | | | | | | | | | | | | | | | | | R- | list |  |
|  |  | trace | | | | | | | | | | | | | | | | | | R- | string |  |

# fujitsu-performance-monitoring

## Data

### pm-equipment

Top container for all equipment performance monitoring entities.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| shelf | | | | | | | | | | | | | | | | | | | | R- | list | Key: shelfId  List of shelf entities to store performance monitoring operational data |
|  | shelfId | | | | | | | | | | | | | | | | | | | R-\* | string | Pattern: [0-9]+  Shelf Identifier |
|  | pm-oper-data | | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  | pm-name | | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  | pm-location | | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  | pm-direction | | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  | pm-type | | | | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  | pm-time-period-index | | | | | | | | | | | | | | | | | | R- | list | Key: pm-time-period, pm-index |
|  |  |  | pm-time-period | | | | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  | pm-index | | | | | | | | | | | | | | | | | R-\* | pm-index |  |
|  |  |  | pm-value | | | | | | | | | | | | | | | | | R- | pm-data-type | PM value |
|  |  |  | pm-validity | | | | | | | | | | | | | | | | | R- | pm-validity |  |
|  |  |  | pm-start-time | | | | | | | | | | | | | | | | | R- | yang:date-and-time |  |
|  | slot | | | | | | | | | | | | | | | | | | | R- | list | Key: slotId  List of slot entities to store performance monitoring operational data |
|  |  | slotId | | | | | | | | | | | | | | | | | | R-\* | string | Pattern: [0-9]+  Slot Identifier |
|  |  | subslot | | | | | | | | | | | | | | | | | | R- | list | Key: subslotId  List of subslot entities to store performance monitoring operational data |
|  |  |  | subslotId | | | | | | | | | | | | | | | | | R-\* | string | Subslot Identifier |
|  |  |  | port | | | | | | | | | | | | | | | | | R- | list | Key: portId  List of port entities to store performance monitoring operational data |
|  |  |  |  | portId | | | | | | | | | | | | | | | | R-\* | string | Port Identifier |
|  |  |  |  | pm-oper-data | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  |  | pm-name | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  |  | pm-location | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  |  | pm-direction | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  |  | pm-type | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  |  |  |  | pm-time-period-index | | | | | | | | | | | | | | | R- | list | Key: pm-time-period, pm-index |
|  |  |  |  |  |  | pm-time-period | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  |  |  |  | pm-index | | | | | | | | | | | | | | R-\* | pm-index |  |
|  |  |  |  |  |  | pm-value | | | | | | | | | | | | | | R- | pm-data-type | PM value |
|  |  |  |  |  |  | pm-validity | | | | | | | | | | | | | | R- | pm-validity |  |
|  |  |  |  |  |  | pm-start-time | | | | | | | | | | | | | | R- | yang:date-and-time |  |
|  |  |  |  | subport | | | | | | | | | | | | | | | | R- | list | Key: subportId  List of subport entities to store performance monitoring operational data |
|  |  |  |  |  | subportId | | | | | | | | | | | | | | | R-\* | string | Subport Identifier |
|  |  |  |  |  | pm-oper-data | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  |  |  | pm-name | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  |  |  | pm-location | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  |  |  | pm-direction | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  |  |  | pm-type | | | | | | | | | | | | | | R- | pm-type |  |
|  |  |  |  |  |  | pm-time-period-index | | | | | | | | | | | | | | R- | list | Key: pm-time-period, pm-index |
|  |  |  |  |  |  |  | pm-time-period | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  |  |  |  |  | pm-index | | | | | | | | | | | | | R-\* | pm-index |  |
|  |  |  |  |  |  |  | pm-value | | | | | | | | | | | | | R- | pm-data-type | PM value |
|  |  |  |  |  |  |  | pm-validity | | | | | | | | | | | | | R- | pm-validity |  |
|  |  |  |  |  |  |  | pm-start-time | | | | | | | | | | | | | R- | yang:date-and-time |  |

### pm-interfaces

Top container for all interface performance monitoring entities.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| interface | | | | | | | | | | | | | | | | | | | | R- | list | Key: name  List of interface entities to store performance monitoring operational data |
|  | name | | | | | | | | | | | | | | | | | | | R-\* | string | Interface name |
|  | pm-oper-data | | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  | pm-name | | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  | pm-location | | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  | pm-direction | | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  | pm-type | | | | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  | pm-time-period-index | | | | | | | | | | | | | | | | | | R- | list | Key: pm-time-period, pm-index |
|  |  |  | pm-time-period | | | | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  | pm-index | | | | | | | | | | | | | | | | | R-\* | pm-index |  |
|  |  |  | pm-value | | | | | | | | | | | | | | | | | R- | pm-data-type | PM value |
|  |  |  | pm-validity | | | | | | | | | | | | | | | | | R- | pm-validity |  |
|  |  |  | pm-start-time | | | | | | | | | | | | | | | | | R- | yang:date-and-time |  |

## Remote Procedure Calls

### init-pm

Command to initialize PM data

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | id | | | | | | | | | | | | | | | | | | | -W\* | string | Pattern: ((shelf)-\S+)|((port|eth|otsi|otuc|oduc|odu|otu|oc)-\S+/\S+/\S+/\S+)|((subport)-\S+/\S+/\S+/\S+/\S+)|((odu)-\S+/\S+/\S+/\S+.\S+)|((odu)-\S+/\S+/\S+/\S+.\S+.\S+)  Entity Identifier |
|  | time-period | | | | | | | | | | | | | | | | | | | -W | enumeration | Enums:  cumulative - cumulative  15-min - 15 minutes period  1-day - 1 day period Default: 15-min |
|  | index | | | | | | | | | | | | | | | | | | | -W | pmtypedefs:pm-history | Default: current |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string |  |

## Notifications

### threshold-crossover-notification

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| resource | | | | | | | | | | | | | | | | | | | | R-\* | resource | The resource reporting the event. |
| event-type-id | | | | | | | | | | | | | | | | | | | | R-\* | event-type-id | 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 |
| event-time | | | | | | | | | | | | | | | | | | | | R-\* | yang:date-and-time | 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 | A user friendly text describing the reason for event. |
| pm-value | | | | | | | | | | | | | | | | | | | | R-\* | pmtypedefs:pm-data-type | Monitored performance value |
| pm-threshold-level | | | | | | | | | | | | | | | | | | | | R-\* | pmtypedefs:pm-data-type | Performance monitor threshold level |

# ietf-key-chain

## Data

### key-chains

All configured key-chains for the device.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| key-chain-list | | | | | | | | | | | | | | | | | | | | RW | list | Key: name  List of key-chains. |
|  | name | | | | | | | | | | | | | | | | | | | RW\* | string | Name of the key-chain. |
|  | key-chain-entry | | | | | | | | | | | | | | | | | | | RW | list | Key: key-id  One key. |
|  |  | key-id | | | | | | | | | | | | | | | | | | RW\* | uint64 | Range: 1..255  Key id. |
|  |  | key-string | | | | | | | | | | | | | | | | | | RW | container | The key string. |
|  |  |  | key-string-style | | | | | | | | | | | | | | | | | RW | choice | Key string styles |
|  |  |  |  | keystring | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | keystring | | | | | | | | | | | | | | | RW | string | Length: 1..16  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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| key-chain-list-state | | | | | | | | | | | | | | | | | | | | R- | list | One key-chain state. |
|  | name-state | | | | | | | | | | | | | | | | | | | R- | string | Configured name of the key-chain. |
|  | accept-tolerance-state | | | | | | | | | | | | | | | | | | | R- | container | Configured tolerance for key lifetime acceptance (seconds). |
|  |  | duration | | | | | | | | | | | | | | | | | | R- | uint32 | Configured tolerance range, in seconds. |
|  | key-chain-entry | | | | | | | | | | | | | | | | | | | R- | list | Key: key-id  One key. |
|  |  | key-id | | | | | | | | | | | | | | | | | | R-\* | uint64 | Configurd key id. |
|  |  | lifetime-state | | | | | | | | | | | | | | | | | | R- | container | Configured key's lifetime. |
|  |  |  | send-lifetime | | | | | | | | | | | | | | | | | R- | container | Configured send-lifetime. |
|  |  |  |  | lifetime | | | | | | | | | | | | | | | | R- | choice | Default: 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 |  |
|  |  |  |  |  |  | start-date-time | | | | | | | | | | | | | | R- | yang:date-and-time | Start time. |
|  |  |  |  |  |  | end-time | | | | | | | | | | | | | | R- | choice | Default: 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: 1..2147483646  Key lifetime duration, in seconds |
|  |  |  |  |  |  |  | end-date-time | | | | | | | | | | | | | R- | case |  |
|  |  |  |  |  |  |  |  | end-date-time | | | | | | | | | | | | R- | yang:date-and-time | End time. |
|  |  |  | send-valid | | | | | | | | | | | | | | | | | R- | boolean | Status of send-lifetime. |
|  |  |  | accept-lifetime | | | | | | | | | | | | | | | | | R- | container | Configured accept-lifetime. |
|  |  |  |  | lifetime | | | | | | | | | | | | | | | | R- | choice | Default: 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 |  |
|  |  |  |  |  |  | start-date-time | | | | | | | | | | | | | | R- | yang:date-and-time | Start time. |
|  |  |  |  |  |  | end-time | | | | | | | | | | | | | | R- | choice | Default: 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: 1..2147483646  Key lifetime duration, in seconds |
|  |  |  |  |  |  |  | end-date-time | | | | | | | | | | | | | R- | case |  |
|  |  |  |  |  |  |  |  | end-date-time | | | | | | | | | | | | R- | yang:date-and-time | 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. |

# fujitsu-ssh-host-key

## Remote Procedure Calls

### generate-ssh-host-key

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | begin-generation | | | | | | | | | | | | | | | | | | | R- | string | Returned immediately to indicate host key generation has begun. |

### show-ssh-host-key

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | 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. |

## Notifications

### ssh-host-key-generation-complete

SSH Host Key generation completed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| status | | | | | | | | | | | | | | | | | | | | R- | string |  |
| fingerprint | | | | | | | | | | | | | | | | | | | | R- | string |  |

# ietf-access-control-list

## Data

### access-lists

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **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. |
|  | access-list-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) |
|  |  |  | matches | | | | | | | | | | | | | | | | | RW | container | Definitions for match criteria for this Access List Entry. |
|  |  |  |  | ace-type | | | | | | | | | | | | | | | | RW | choice | Type of access list entry. |
|  |  |  |  |  | ace-ip | | | | | | | | | | | | | | | RW | case | IP Access List Entry. |
|  |  |  |  |  |  | ace-ip-version | | | | | | | | | | | | | | RW | choice | IP version used in this Acess List Entry. |
|  |  |  |  |  |  |  | ace-ipv4 | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  |  |  |  | source-ipv4-network | | | | | | | | | | | | RW | inet:ipv4-prefix | Source IPv4 address prefix. |
|  |  |  |  |  |  |  | ace-ipv6 | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  |  |  |  | source-ipv6-network | | | | | | | | | | | | RW | inet:ipv6-prefix | Source IPv6 address prefix. |
|  |  |  | actions | | | | | | | | | | | | | | | | | RW | container | Definitions of action criteria for this Access List Entry. |
|  |  |  |  | packet-handling | | | | | | | | | | | | | | | | RW | choice | Default: permit  Packet handling action. |
|  |  |  |  |  | deny | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  |  | deny | | | | | | | | | | | | | | RW | empty | Deny action. |
|  |  |  |  |  | permit | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  |  | permit | | | | | | | | | | | | | | RW | empty | Permit action. |
|  |  |  | rule-name | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..255 Pattern: [a-zA-Z0-9\_.-]\*  A unique name identifying this Access List Entry(ACE). |
|  | acl-name | | | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..28 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. |

# fujitsu-snmp-cli

## Data

### snmp

SNMP Agent Configuration

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| number-of-traps | | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 5  Maximum number of trap-groups |
| number-of-communities | | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 10  Maximum number of v1/v2c communities |
| number-of-targets | | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 5  Maximum number of v3 target destinations |
| number-of-access-group | | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 10  Maximum number of v3 access groups |
| community | | | | | | | | | | | | | | | | | | | | RW | list | Key: community-name  Community grants authorization to its members |
|  | community-name | | | | | | | | | | | | | | | | | | | RW\* | communityNameType | Community string acts like a password and permits access to the SNMP protocol |
|  | authorization | | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  read-only Default: read-only  Authorization level for the community |
| contact | | | | | | | | | | | | | | | | | | | | RW | string | Length: 0 .. 255  System contact information |
| description | | | | | | | | | | | | | | | | | | | | RW | string | Length: 0 .. 255  System Description |
| location | | | | | | | | | | | | | | | | | | | | RW | string | Length: 0 .. 255  System location information |
| name | | | | | | | | | | | | | | | | | | | | RW | string | Length: 0 .. 255  System Name |
| trap-group | | | | | | | | | | | | | | | | | | | | RW | list | Key: trap-group-name  Trap group to receive the specified trap notifications |
|  | trap-group-name | | | | | | | | | | | | | | | | | | | RW\* | targetAddressNameType | Name of the trap group |
|  | community-name | | | | | | | | | | | | | | | | | | | RW\* | communityNameType | Name of the community |
|  | categories | | | | | | | | | | | | | | | | | | | RW\* | enumeration | Enums:  trap  inform  Types of traps sent to targets of trap group |
|  | destination-port | | | | | | | | | | | | | | | | | | | RW\* | uint32 | Range: 162 | 1024..65535  Assign a SNMP trap port number |
|  | targets | | | | | | | | | | | | | | | | | | | RW\* | inet:ip-address | Enter the destination target IPV6|IPV4 address |
|  | version | | | | | | | | | | | | | | | | | | | RW\* | version | Version number of SNMP traps |
| v3 | | | | | | | | | | | | | | | | | | | | RW | container | SNMP v3 configuration |
|  | engine-id | | | | | | | | | | | | | | | | | | | RW | union | Type: yang:hex-string Length: 5 .. 32  Type: enumeration Enums:  use-mac-address   SNMP V3 Engine ID. |
|  | trap-group | | | | | | | | | | | | | | | | | | | RW | list | Key: target-address-name  Address of SNMP management application |
|  |  | target-address-name | | | | | | | | | | | | | | | | | | RW\* | targetAddressNameType | String that identifies the target address |
|  |  | targets | | | | | | | | | | | | | | | | | | RW\* | inet:ip-address | IPv4|IPv6 address of the system to receive traps or informs |
|  |  | destination-port | | | | | | | | | | | | | | | | | | RW\* | yang:counter64 | Range: 162 | 1024..65535  Port number for the SNMP target |
|  |  | target-parameters | | | | | | | | | | | | | | | | | | RW\* | targetAddressNameType | Target parameters name |
|  |  | categories | | | | | | | | | | | | | | | | | | RW\* | enumeration | Enums:  trap  inform  Types of traps sent to targets of trap group |
|  | target-parameters | | | | | | | | | | | | | | | | | | | RW | list | Key: target-parameters-name  Target parameters for sending notifications |
|  |  | target-parameters-name | | | | | | | | | | | | | | | | | | RW\* | targetAddressNameType | The name of the target parameters |
|  |  | param-security-name | | | | | | | | | | | | | | | | | | RW\* | securityNameType | Security name to use when generating SNMP notifications |
|  |  | target-security-level | | | | | | | | | | | | | | | | | | RW\* | securityLevelType | Security level to use when generating SNMP notifications |
|  | user | | | | | | | | | | | | | | | | | | | RW | list | Key: username  User associated with an SNMPv3 group |
|  |  | username | | | | | | | | | | | | | | | | | | RW\* | userNameType | SNMPv3 user-based security model username |
|  |  | authentication-protocol | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  md5  sha  none Default: none  Authentication type for SNMPv3 user |
|  |  | authentication-password | | | | | | | | | | | | | | | | | | RW | string | Length: 8 .. 32  Authentication password for SNMPv3 user |
|  |  | privacy-protocol | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  aes128  des  none Default: 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 | SNMPv3 group name |
|  |  | access-security-level | | | | | | | | | | | | | | | | | | RW\* | securityLevelType | Security level used for access priviliges |
|  |  | read-view | | | | | | | | | | | | | | | | | | RW | vacmAccessViewNameType | Read View Name for the access group |
|  |  | notify-view | | | | | | | | | | | | | | | | | | RW | vacmAccessViewNameType | Notify View Name for the access group |
| fujitsu-snmp-cli-show:snmp-show | | | | | | | | | | | | | | | | | | | | R- | container |  |
|  | fujitsu-snmp-cli-show:statistics | | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  | fujitsu-snmp-cli-show:input | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  | fujitsu-snmp-cli-show:inPackets | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inBadVersions | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inBadCommunityNames | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inBadCommunityUses | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inASNParseErrors | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inTooBigs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inNoSuchNames | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inBadValues | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inReadOnlys | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inGenErrs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inTotalReqVar | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inTotalSetVar | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inGetRequests | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inGetNexts | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inSetRequests | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inGetResponses | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inTraps | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inSilentDrops | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inProxyDrops | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inCommitPendingDrops | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:inThrottleDrops | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  | fujitsu-snmp-cli-show:v3-input | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  | fujitsu-snmp-cli-show:unknownSecurityModel | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:invalidMsgs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unknownPDUHandlers | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unavailableContexts | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unknownContexts | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unsupportedSecLevels | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:notInTimeWindows | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unknownUserNames | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:unknownEngineIDs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:wrongDigests | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:decryptionErrors | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  | fujitsu-snmp-cli-show:output | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  | fujitsu-snmp-cli-show:outPackets | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outTooBigs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outNoSuchNames | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outBadValues | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outGenErrs | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outGetRequests | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outGetNexts | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outSetRequests | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outGetResponses | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |
|  |  |  | fujitsu-snmp-cli-show:outTraps | | | | | | | | | | | | | | | | | R- | yang:counter32 |  |

# fujitsu-factory

## Remote Procedure Calls

### debug-port

Enables SSH Debug Port

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | status | | | | | | | | | | | | | | | | | | | -W | debugPortType | enable means to true on the debug port |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### debug-port-state

debug-port state

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | port-status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

# fujitsu-system-zeroization

## Remote Procedure Calls

### zeroize-system

RPC to perform zeroization of the entire system

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  Successful  Failed  Indicates the rpc succeeded/failed |
|  | status-message | | | | | | | | | | | | | | | | | | | R- | string | Gives a more detailed reason for success/failure |

# fujitsu-otn-otu-interfaces

## Notifications

### otu-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| otu | | | | | | | | | | | | | | | | | | | | R- | container |  |
|  | ains | | | | | | | | | | | | | | | | | | | R- | ains-state | Default: 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>. |
|  | 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. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | standard | | | | | | | | | | | | | | | | | | | R- | choice | Default: 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-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 |
|  |  |  |  | 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 |  |
|  |  | 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 |
|  | direction | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional  direction of interface |
|  | degthr | | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  | degm | | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  | circuit-id | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  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 |
|  | pm | | | | | | | | | | | | | | | | | | | R- | container | Performance Monitoring Info |
|  |  | pm-threshold | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  | pm-name | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  | pm-location | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  | pm-direction | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  | pm-type | | | | | | | | | | | | | | | | | R- | pm-type |  |
|  |  |  | pm-th-metered | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  | pm-th-type | | | | | | | | | | | | | | | | R- | enumeration | Enums:  auto - HW autoprovisioned  user - User-provisioned Default: auto |
|  |  |  |  | pm-th-low | | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  |  | pm-th-high | | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  |  | pm-th-binned | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  |  | pm-time-periods | | | | | | | | | | | | | | | | R- | list | Key: pm-time-period |
|  |  |  |  |  | pm-time-period | | | | | | | | | | | | | | | R-\* | pm-time-period |  |
|  |  |  |  |  | pm-value | | | | | | | | | | | | | | | R-\* | pm-data-type |  |
|  |  | pm-oper-range | | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  | pm-name | | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  | pm-location | | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  | pm-direction | | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  | 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 |

# fujitsu-inventory

## Data

### inventory

Inventory of all the equipment currently plugged in

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **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 |

# fujitsu-file-transfer-webui

## Remote Procedure Calls

### transfer

File transfer using FTP/SFTP

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | trans-method | | | | | | | | | | | | | | | | | | | -W\* | choice |  |
|  |  | sftp | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | sftp | | | | | | | | | | | | | | | | | -W | empty | Transfer mode is SFTP. |
|  |  | ftp | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | ftp | | | | | | | | | | | | | | | | | -W | empty | Transfer mode is FTP. |
|  | action | | | | | | | | | | | | | | | | | | | -W\* | enumeration | 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. |
|  | local-file-path | | | | | | | | | | | | | | | | | | | -W\* | string | Local file path. Ex: /var/shared/example.txt |
|  | remote-file-path | | | | | | | | | | | | | | | | | | | -W | inet:uri | Remote file path.  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 |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Status of the file transfer operation |

### transfer-encryption-log

sftp encryption log file to a remote destination

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | destination | | | | | | | | | | | | | | | | | | | -W | inet:uri | Remote file path.  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-system

## Data

### system

System related configurations

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| vendor | | | | | | | | | | | | | | | | | | | | RW | string | Vendor Name - "Fujitsu Limited" |
| name | | | | | | | | | | | | | | | | | | | | RW | string | Length: 7..63 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 | 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 |
| EHT | | | | | | | | | | | | | | | | | | | | RW | EHT-value | Default: 0  Ethernet Holdoff Timer |
| AAT | | | | | | | | | | | | | | | | | | | | RW | AAT-value | Alarm Activation Time |
| ADT | | | | | | | | | | | | | | | | | | | | RW | ADT-value | Alarm De-activation Time |
| showFwBackwardCompatAllAlarm | | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  true: show firmwareBackwardCompatibleAll alarm false: Do not show firmwareBackwardCompatibleAll alarm |
| fw-auto-update | | | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  true: hitless fw-update triggered automatically after swdl false: hitless fw-update has to be triggered manually |
| sys-vstimer | | | | | | | | | | | | | | | | | | | | RW | string | Pattern: ((([0-3][0-9]|4[0-7])-([0-5][0-9]))|48-00) Default: 08-00  value of validation timer in hh-mm |
| console | | | | | | | | | | | | | | | | | | | | RW | container | Configuration of the console port properties. |
|  | console-enabled | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Global flag to enable (true) or disable (false) console login on the system |
| enable-last-resort-access | | | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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. |
|  | timezone-name | | | | | | | | | | | | | | | | | | | RW | string | Default: 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,  America/Grenada,  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,  America/Atka,  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,  America/Dawson,  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,  America/Toronto,  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,  America/Indiana/Knox,  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,  Etc/GMT-8,  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,  GMT0,  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,  Asia/Oral,  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,  Asia/Istanbul,  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,  Asia/Qyzylorda,  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,  MST7MDT,  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,  Europe/Ljubljana,  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,  Brazil/DeNoronha,  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,  Canada/Eastern,  Canada/Saskatchewan,  Canada/Atlantic,  Canada/Newfoundland,  Canada/Pacific,  Canada/Mountain,  Canada/Yukon,  Canada/East-Saskatchewan,  ROC. |
| ntp | | | | | | | | | | | | | | | | | | | | RW | presence container | If Feature: ntp  Configuration of the NTP client. |
|  | enabled | | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | An arbitrary name for the NTP server. |
|  |  | address | | | | | | | | | | | | | | | | | | RW\* | inet:ip-address | The address of the NTP server. |
|  |  | version | | | | | | | | | | | | | | | | | | RW | ntp-version | NTP version. Supports versions 3 and 4 |
|  |  | association-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  server - Use client association mode. This device will not provide synchronization to the configured NTP server. Default: server  The desired association type for this NTP server. |
|  |  | minpoll | | | | | | | | | | | | | | | | | | RW | ntp-minpoll | The minimal poll interval used in this association. Range: 4-17 |
|  |  | maxpoll | | | | | | | | | | | | | | | | | | RW | ntp-maxpoll | The maximal poll interval used in this association. Range: 4-17 |
|  |  | prefer | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Indicates whether this server should be preferred or not. |
| ztp | | | | | | | | | | | | | | | | | | | | RW | container | Configuration of the ZTP app. |
|  | ztp-enabled | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Enable/Disable ZTP application |
|  | auto-upgrade | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Enable/Disable ZTP Boot |
|  | ztp-oper-data | | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  | controller-reg-status | | | | | | | | | | | | | | | | | | R- | ctrl-status | Controller registration status. |
|  |  | controller-ip-addr | | | | | | | | | | | | | | | | | | R- | inet:ip-address | IP address of the controller |
| services | | | | | | | | | | | | | | | | | | | | RW | container | System Service Configuration |
|  | ssh-server | | | | | | | | | | | | | | | | | | | RW | container | SSH server related configuration |
|  |  | ssh-server-enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Enable/Disable SSH server |
|  |  | ssh-server-port | | | | | | | | | | | | | | | | | | RW | uint16 | Range: 22|2000..6021|6023..32767|61001..65535 Default: 22  SSH server port to listen on: 22|2000..6021|6023..32767|61001..65535 |
|  |  | algorithms | | | | | | | | | | | | | | | | | | RW | container | SSH server related algorithms |
|  |  |  | mac | | | | | | | | | | | | | | | | | RW | macAlgor | 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 | encryptAlgor | 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 |
|  | web-server | | | | | | | | | | | | | | | | | | | RW | container | Web Server related configuration |
|  |  | webgui-enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Enable/Disable WebGUI |
|  |  | webgui-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 | Default: false  Enable/Disable REST |
|  |  | http | | | | | | | | | | | | | | | | | | RW | presence container | Enables http transport |
|  |  |  | http-port | | | | | | | | | | | | | | | | | RW | inet:port-number | Range: 80|2000..6021|6023..32767|61001..65535 Default: 80  HTTP port to listen on: 80|2000..6021|6023..32767|61001..65535 |
|  |  | https | | | | | | | | | | | | | | | | | | RW | presence container | Enables SSL Transport |
|  |  |  | certType | | | | | | | | | | | | | | | | | RW\* | choice |  |
|  |  |  |  | certificate-id | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | certificate-id | | | | | | | | | | | | | | | RW | leafref | Path: /secu:security/secuCert:certificates/certificate-id  ID of the certificate from security table |
|  |  |  |  | system-generated-certificate | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | system-generated-certificate | | | | | | | | | | | | | | | RW | empty | Use the system generated certificate |
|  |  |  | https-port | | | | | | | | | | | | | | | | | RW | inet:port-number | Range: 443|2000..6021|6023..32767|61001..65535 Default: 443  HTTPS port to listen on: 443|2000..6021|6023..32767|61001..65535 |
|  |  |  | protocols | | | | | | | | | | | | | | | | | RW | tlsVersion | Specifies the SSL/TLS protocol versions to be used by the server. The supported protocol versions are tlsv1, tlsv1.1 and tlsv1.2 |
|  |  |  | ciphers | | | | | | | | | | | | | | | | | RW | sslCiphers | 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-AES128-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-AES256-SHA,  ECDHE-ECDSA-DES-CBC3-SHA,ECDHE-RSA-DES-CBC3-SHA,ECDHE-ECDSA-AES256-SHA, ECDHE-ECDSA-AES128-SHA256,ECDHE-RSA-AES128-SHA256,ECDH-ECDSA-AES128-SHA256, ECDH-RSA-AES128-SHA256,ECDHE-ECDSA-AES256-SHA384,ECDHE-RSA-AES256-SHA384, ECDH-ECDSA-AES256-SHA384 or ECDH-RSA-AES256-SHA384. |
|  | ftp | | | | | | | | | | | | | | | | | | | RW | container | ftp related configuration |
|  |  | ftp-server | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  | ftp-server-enabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable FTP server |
|  |  |  | ftp-server-port | | | | | | | | | | | | | | | | | RW | uint8 | Range: 21 Default: 21  FTP server port to listen on: 21 |
|  |  | ftp-client | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  | ftp-client-enabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable FTP client |
|  | sftp | | | | | | | | | | | | | | | | | | | RW | container | sftp related configuration |
|  |  | sftp-server | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  | sftp-server-enabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable SFTP server |
|  |  |  | sftp-server-port | | | | | | | | | | | | | | | | | RW | uint16 | Range: 2000..6021|6023..32767|61001..65535 Default: 2202  SFTP server port to listen on: 2000..6021|6023..32767|61001..65535 |
|  |  |  | algorithms | | | | | | | | | | | | | | | | | RW | container | SSH server related algorithms |
|  |  |  |  | allowed-mac | | | | | | | | | | | | | | | | RW | macAlgor | 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 | encryptAlgor | 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-client | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  | sftp-client-enabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable SFTP client |
|  | telnet | | | | | | | | | | | | | | | | | | | RW | container | telnet related configuration |
|  |  | telnet-enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable telnet |
|  |  | telnet-port | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 23 Default: 23  Telnet port to listen on: 23 |
|  | netconf | | | | | | | | | | | | | | | | | | | RW | container | netconf related configuration |
|  |  | netconf-enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable NETCONF |
|  |  | netconf-port | | | | | | | | | | | | | | | | | | RW | inet:port-number | Range: 830|2000..6021|6023..32767|61001..65535 Default: 830  NETCONF port to listen on: 830|2000..6021|6023..32767|61001..65535 |
|  |  | netconf-timeout | | | | | | | | | | | | | | | | | | RW | xs:duration | netconf-timeout |
|  | snmp | | | | | | | | | | | | | | | | | | | RW | container | SNMP Agent related configuration |
|  |  | snmp-enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/Disable SNMP Agent |
|  |  | snmp-port | | | | | | | | | | | | | | | | | | RW | inet:port-number | Range: 161|2000..6021|6023..32767|61001..65535 Default: 161  SNMP port to listen on: 161|2000..6021|6023..32767|61001..65535 |
|  |  | snmp-ip | | | | | | | | | | | | | | | | | | RW | inet:ip-address | Default: 0.0.0.0  SNMP agent-address in V1 trap |
|  |  | system-snmp:authFailureTrap | | | | | | | | | | | | | | | | | | RW | snmpv2:snmpEnableAuthenTrapsType | Default: enabled  Enable/Disable SNMP Authentication Failure Trap |
|  |  | system-snmp:alarm-trap | | | | | | | | | | | | | | | | | | RW | snmpv2:snmpEnableAuthenTrapsType | Default: enabled  Enable/Disable SNMP Alarm Trap Notification |
|  |  | system-snmp:event-trap | | | | | | | | | | | | | | | | | | RW | snmpv2:snmpEnableAuthenTrapsType | Default: enabled  Enable/Disable SNMP Common Event Trap Notification |
|  |  | system-snmp:tca-trap | | | | | | | | | | | | | | | | | | RW | snmpv2:snmpEnableAuthenTrapsType | Default: enabled  Enable/Disable SNMP TCA Trap Notification |
|  | ssh-algorithm | | | | | | | | | | | | | | | | | | | RW | container | SSH server algorithm related configuration |
|  |  | key-exchange-algorithm | | | | | | | | | | | | | | | | | | RW | kexAlg | 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 | hostKeyAlg | 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 | macAlg | 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) |
|  |  | encryption-algorithm | | | | | | | | | | | | | | | | | | RW | encAlg | 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) |
| filter-timer | | | | | | | | | | | | | | | | | | | | RW | container | It is used for the filter management of FAN on Blade. |
|  | shelfId | | | | | | | | | | | | | | | | | | | RW | list | Key: shelf\_Id |
|  |  | shelf\_Id | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /eqpt:eqpt/shelf/shelfId |
|  |  | repl | | | | | | | | | | | | | | | | | | RW | uint8 | Range: 0..5 Default: 2  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 | Range: 0 | 30..180 Default: 90  Filter Replace Time (in Days) 0 - The Timer is Inhibited |
|  |  | filttmr | | | | | | | | | | | | | | | | | | R- | uint8 | Range: 0..180  Remaining Filter Replacement Time (in Days) |
| mem-info | | | | | | | | | | | | | | | | | | | | R- | container | It can know use state of the memory. |
|  | target | | | | | | | | | | | | | | | | | | | R- | list | Key: target |
|  |  | target | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  workRAM - Ram  storage - Storage disk  WorkRAM or Storage disk |
|  |  | size | | | | | | | | | | | | | | | | | | R- | uint8 | On-board memory size |
|  |  | used | | | | | | | | | | | | | | | | | | R- | uint8 | Memory utilization |
|  |  | avail | | | | | | | | | | | | | | | | | | R- | uint8 | Available Memory size |

### system-state

System group operational state.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| clock | | | | | | | | | | | | | | | | | | | | 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-operating-ratio | | | | | | | | | | | | | | | | | | | | R- | container | Operating ratio in each CPU core. |
|  | cores | | | | | | | | | | | | | | | | | | | R- | list | Key: core |
|  |  | core | | | | | | | | | | | | | | | | | | R-\* | string |  |
|  |  | 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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| def-neMgmtMode | | | | | | | | | | | | | | | | | | | | RW | neMgmtModeType | Default: Bridge  Network Element Management Modes - Router or Bridge |
| eth:def-eth-transport-btsf | | | | | | | | | | | | | | | | | | | | RW | backward-transport-signal-failure-type | Default: none  Default codeword to send during Backward Transport Signal Failure |

## 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'.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | current-datetime | | | | | | | | | | | | | | | | | | | -W\* | string | Pattern: (19[7-9][0-9]|20[0-2][0-9]|203[0-5])-\d{2}-\d{2}T([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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | level | | | | | | | | | | | | | | | | | | | -W\* | RestartLevel | restart level. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string |  |

# ietf-alarms

## Data

### alarms

The top container for this module

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| alarm-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 | The statically defined alarm type identifier for this possible alarm. |
|  |  | alarm-type-qualifier | | | | | | | | | | | | | | | | | | R- | alarm-type-qualifier | The optionally dynamically defined alarm type identifier for this possible alarm. |
|  |  | has-clear | | | | | | | | | | | | | | | | | | R-\* | union | 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 | A description of the possible alarm. It SHOULD include information on possible underlying root causes and corrective actions. |
| summary | | | | | | | | | | | | | | | | | | | | R- | list | Key: severity  A global summary of all alarms in the system. |
|  | severity | | | | | | | | | | | | | | | | | | | R-\* | severity | Alarm summary for this severity level. |
|  | total | | | | | | | | | | | | | | | | | | | R- | yang:gauge32 | Total number of alarms of this severity level. |
| alarm-list | | | | | | | | | | | | | | | | | | | | R- | container | The alarms in the system. |
|  | number-of-alarms | | | | | | | | | | | | | | | | | | | R- | yang:gauge32 | This object shows the total number of currently alarms, i.e., the total number of entries in the alarm list. |
|  | last-changed | | | | | | | | | | | | | | | | | | | R- | yang:date-and-time | 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. |
|  |  | resource | | | | | | | | | | | | | | | | | | R-\* | resource | The alarming resource. See also 'alt-resource'. |
|  |  | alarm-type-id | | | | | | | | | | | | | | | | | | R-\* | alarm-type-id | This leaf and the leaf 'alarm-type-qualifier' together provides a unique identification of the alarm type. |
|  |  | alarm-type-qualifier | | | | | | | | | | | | | | | | | | R-\* | alarm-type-qualifier | 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. |
|  |  | last-status-change | | | | | | | | | | | | | | | | | | R-\* | yang:date-and-time | 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. |
|  |  | last-perceived-severity | | | | | | | | | | | | | | | | | | R-\* | severity | The severity of the last status-change that reported a severity that is not equal to cleared. |
|  |  | last-alarm-text | | | | | | | | | | | | | | | | | | R-\* | alarm-text | 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. Not reported warnings shall shall map to FALSE; reported warnings shall map to TRUE |
|  |  | alarms-ext:circuit-id | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  circuit identifier of the resource |
| alarms-ext:alarm-severity-assignment | | | | | | | | | | | | | | | | | | | | RW | list | Key: entity, alarm-type-id, alarm-direction, alarm-location  alarm severity assignments per entity, 'alarm-type-id', 'alarm-direction' and 'alarm-location' |
|  | alarms-ext:entity | | | | | | | | | | | | | | | | | | | RW\* | string | The alarming entity. |
|  | alarms-ext:alarm-type-id | | | | | | | | | | | | | | | | | | | RW\* | al:alarm-type-id | This leaf and the leaves 'alarm-direction' and 'alarm-location' together provides a unique identification of the alarm type. |
|  | alarms-ext:alarm-direction | | | | | | | | | | | | | | | | | | | RW\* | 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. |
|  | alarms-ext:alarm-location | | | | | | | | | | | | | | | | | | | RW\* | string | 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 severity for service-affecting |
|  | alarms-ext:notification-enabled-when-sa | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  indicated whether the service affecting warning alarm is associated with an alarm-notification. Not reported warnings shall map to FALSE; reported warnings shall map to TRUE |
|  | alarms-ext:severity-assigned-when-nsa | | | | | | | | | | | | | | | | | | | RW | alarm-severity-code | The alarm severity for non-service-affecting |
|  | alarms-ext:notification-enabled-when-nsa | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  indicated whether the non-service affecting warning alarm is associated with an alarm-notification. Not reported warnings shall map to FALSE; reported warnings shall map to TRUE |
| alarms-ext:alarm-severity-status | | | | | | | | | | | | | | | | | | | | R- | list | Key: entity, alarm-type-id, alarm-direction, alarm-location  Table listing the alarm-severity-status for each resource |
|  | alarms-ext:entity | | | | | | | | | | | | | | | | | | | R-\* | string | The resource/entity-id where an alarm is reported. |
|  | alarms-ext:alarm-type-id | | | | | | | | | | | | | | | | | | | R-\* | al:alarm-type-id | This leaf and the leaf 'alarm-type-qualifier' together provides a unique identification of the alarm type. |
|  | alarms-ext:alarm-direction | | | | | | | | | | | | | | | | | | | R-\* | 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. |
|  | alarms-ext:alarm-location | | | | | | | | | | | | | | | | | | | R-\* | string | 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 severity for service-affecting |
|  | alarms-ext:notification-enabled-when-sa | | | | | | | | | | | | | | | | | | | R- | boolean | Default: true  indicated whether the service affecting warning alarm is associated with an alarm-notification. Not reported warnings shall map to FALSE; reported warnings shall map to TRUE |
|  | alarms-ext:severity-assigned-when-nsa | | | | | | | | | | | | | | | | | | | R- | alarm-severity-code | The alarm severity for non-service-affecting |
|  | alarms-ext:notification-enabled-when-nsa | | | | | | | | | | | | | | | | | | | R- | boolean | Default: true  indicated whether the non-service affecting warning alarm is associated with an alarm-notification. Not reported warnings shall map to FALSE; reported warnings shall map to TRUE |
| alarms-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 |
|  | alarms-ext:entity | | | | | | | | | | | | | | | | | | | R-\* | string | The alarming entity. |
|  | alarms-ext:alarm-type-id | | | | | | | | | | | | | | | | | | | R-\* | al:alarm-type-id | This leaf and the leaf 'alarm-type-qualifier' together provides a unique identification of the alarm type. |
|  | alarms-ext:alarm-direction | | | | | | | | | | | | | | | | | | | R-\* | 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. |
|  | alarms-ext:alarm-location | | | | | | | | | | | | | | | | | | | R-\* | string | 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:default-severity-when-sa | | | | | | | | | | | | | | | | | | | R- | alarm-severity-code | 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. Not reported warnings shall shall map to FALSE; reported warnings shall map to TRUE |
|  | alarms-ext:default-severity-when-nsa | | | | | | | | | | | | | | | | | | | R- | alarm-severity-code | 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. Not reported warnings shall shall map to FALSE; reported warnings shall map to TRUE |

## Notifications

### 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** | **Description** |
| resource | | | | | | | | | | | | | | | | | | | | R-\* | resource | The alarming resource. See also 'alt-resource'. |
| alarm-type-id | | | | | | | | | | | | | | | | | | | | R-\* | alarm-type-id | This leaf and the leaf 'alarm-type-qualifier' together provides a unique identification of the alarm type. |
| alarm-type-qualifier | | | | | | | | | | | | | | | | | | | | R- | alarm-type-qualifier | 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- | resource | 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. |
|  | resource | | | | | | | | | | | | | | | | | | | R- | resource | The alarming resource for the related alarm. |
|  | alarm-type-id | | | | | | | | | | | | | | | | | | | R- | alarm-type-id | The alarm type identifier for the related alarm. |
|  | alarm-type-qualifier | | | | | | | | | | | | | | | | | | | R- | alarm-type-qualifier | The optional alarm qualifier for the related alarm. |
| impacted-resources | | | | | | | | | | | | | | | | | | | | R- | resource | Resources that might be affected by this alarm. |
| root-cause-resources | | | | | | | | | | | | | | | | | | | | R- | resource | Resources that are candidates for causing the alarm. |
| event-time | | | | | | | | | | | | | | | | | | | | R-\* | yang:date-and-time | 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. |
| perceived-severity | | | | | | | | | | | | | | | | | | | | R-\* | severity-with-clear | 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 | 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: 0..45  circuit identifier of the resource |

# ietf-ospf

## Notifications

### if-state-change

This notification is sent when interface  
state change is detected.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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 | Interface. |
| virtual-link | | | | | | | | | | | | | | | | | | | | R- | container | virtual-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
| sham-link | | | | | | | | | | | | | | | | | | | | R- | container | sham-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | local-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link local address. |
|  | remote-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link remote address. |
| state | | | | | | | | | | | | | | | | | | | | R- | if-state-type | Interface state. |

### if-config-error

This notification is sent when interface  
config error is detected.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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 | Interface. |
|  | packet-source | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Source address. |
| virtual-link | | | | | | | | | | | | | | | | | | | | R- | container | virtual-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
| sham-link | | | | | | | | | | | | | | | | | | | | R- | container | sham-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | local-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link local address. |
|  | remote-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link remote address. |
| packet-type | | | | | | | | | | | | | | | | | | | | R- | packet-type | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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 | Interface. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
|  | neighbor-ip-addr | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor address. |
| virtual-link | | | | | | | | | | | | | | | | | | | | R- | container | virtual-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
| sham-link | | | | | | | | | | | | | | | | | | | | R- | container | sham-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | local-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link local address. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
|  | neighbor-ip-addr | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor address. |
| state | | | | | | | | | | | | | | | | | | | | R- | nbr-state-type | Neighbor state. |

### nbr-restart-helper-status-change

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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 | Interface. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
|  | neighbor-ip-addr | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor address. |
| virtual-link | | | | | | | | | | | | | | | | | | | | R- | container | virtual-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
| status | | | | | | | | | | | | | | | | | | | | R- | restart-helper-status-type | 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. |
| exit-reason | | | | | | | | | | | | | | | | | | | | R- | restart-exit-reason-type | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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 | Interface. |
|  | packet-source | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Source address. |
| virtual-link | | | | | | | | | | | | | | | | | | | | R- | container | virtual-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | neighbor-router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | Neighbor router id. |
| sham-link | | | | | | | | | | | | | | | | | | | | R- | container | sham-link. |
|  | area-id | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
|  | local-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link local address. |
|  | remote-ip-addr | | | | | | | | | | | | | | | | | | | R- | inet:ip-address | Sham link remote address. |
| packet-type | | | | | | | | | | | | | | | | | | | | R- | packet-type | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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. |

### lsdb-overflow

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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. |
| area-id | | | | | | | | | | | | | | | | | | | | R- | uint32 | Area ID. |
| status | | | | | | | | | | | | | | | | | | | | R- | nssa-translator-state-type | NSSA translator status. |

### restart-status-change

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | R- | rt:routing-instance-ref | 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. |
| status | | | | | | | | | | | | | | | | | | | | R- | restart-status-type | Restart status. |
| restart-interval | | | | | | | | | | | | | | | | | | | | R- | uint16 | Range: 1..1800 Default: 120  Restart interval. |
| exit-reason | | | | | | | | | | | | | | | | | | | | R- | restart-exit-reason-type | Restart exit reason. |

# ietf-syslog

## Data

### syslog

This container describes the configuration parameters for   
syslog.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| actions | | | | | | | | | | | | | | | | | | | | RW | container | This container describes the log-action parameters  for syslog. |
|  | file | | | | | | | | | | | | | | | | | | | 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 | Length: 1..255  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. |
|  |  |  |  |  |  |  | facility | | | | | | | | | | | | | RW\* | union | 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. |
|  |  |  |  |  |  |  | severity | | | | | | | | | | | | | RW\* | union | Type: syslogtypes:severity  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. |
|  |  |  |  |  |  |  | compare-op | | | | | | | | | | | | | RW | enumeration | 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 Default: equals If Feature: select-sev-compare  This leaf describes the option to specify how the  severity comparison is performed. |
|  | remote | | | | | | | | | | | | | | | | | | | RW | container | This container describes the configuration parameters for  forwarding syslog messages to remote relays or collectors. |
|  |  | destination | | | | | | | | | | | | | | | | | | RW | list | Key: name  This list describes a collection of remote logging  destinations. |
|  |  |  | name | | | | | | | | | | | | | | | | | RW\* | string | Length: 1..255  An arbitrary name for the endpoint to connect to. |
|  |  |  | transport | | | | | | | | | | | | | | | | | RW\* | choice | This choice describes the transport option. |
|  |  |  |  | tcp | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | tcp | | | | | | | | | | | | | | | RW | container | This container describes the TCP transport options. |
|  |  |  |  |  |  | address | | | | | | | | | | | | | | RW | inet:host | 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 | Range: 1..65535 Default: 514  This leaf specifies the port number used to  deliver messages to the remote server. |
|  |  |  |  | udp | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | udp | | | | | | | | | | | | | | | RW | container | This container describes the UDP transport options. |
|  |  |  |  |  |  | address | | | | | | | | | | | | | | RW | inet:host | 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 | Range: 1..65535 Default: 514  This leaf specifies the port number used to  deliver messages to the remote server. |
|  |  |  | 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. |
|  |  |  |  |  |  |  | facility | | | | | | | | | | | | | RW\* | union | 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. |
|  |  |  |  |  |  |  | severity | | | | | | | | | | | | | RW\* | union | Type: syslogtypes:severity  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. |
|  |  |  |  |  |  |  | compare-op | | | | | | | | | | | | | RW | enumeration | 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 Default: equals If Feature: select-sev-compare  This leaf describes the option to specify how the  severity comparison is performed. |

# fujitsu-fwdl

## 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 slot 1 in shelf 1

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| entityName | | | | | | | | | | | | | | | | | | | | R-\* | string | 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 |
| bootLoaderType | | | | | | | | | | | | | | | | | | | | R- | string | Default: U-Boot  Boot Loader Type |
| bootVersion | | | | | | | | | | | | | | | | | | | | R- | string | Boot Loader Version running on the EQPT |
| expBootVersion | | | | | | | | | | | | | | | | | | | | R- | string | Expected boot loader version |

## Remote Procedure Calls

### fw-update

Fpga data update

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/slotID  slot ID |
|  | sub-slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/subslotID  sub-slot number |
|  | force | | | | | | | | | | | | | | | | | | | -W | boolean | Default: 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 | Default: 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 |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | cmd-status |  |

### boot-update

Bootloader update

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/slotID  slot ID |
|  | sub-slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/subslotID  sub-slot number |
|  | fileName | | | | | | | | | | | | | | | | | | | -W | string | Default:   Boot image file name This attribute is optional; Can be used if we ever want to support multiple version of boot code |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | cmd-status |  |

# dhcp-client

## Data

### clientv4

dhcpv4 client portion

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| fujitsu-dhcp:dhcpClientStatus | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | fujitsu-dhcp:client-if | | | | | | | | | | | | | | | | | | | R- | list | Key: ifName |
|  |  | fujitsu-dhcp:ifName | | | | | | | | | | | | | | | | | | R-\* | string | Interface name which has DHCP Address |
|  |  | fujitsu-dhcp:clientIpAddr | | | | | | | | | | | | | | | | | | R- | inet:ipv4-address | Specify the IP address obtained from DHCP server on the interface |
|  |  | fujitsu-dhcp:dnsServerIpAddr | | | | | | | | | | | | | | | | | | R- | inet:ipv4-address | Specify the DNS server IP address obtained from DHCP server on the interface |
|  |  | fujitsu-dhcp:leaseTime | | | | | | | | | | | | | | | | | | R-\* | yang:timeticks | Lease time for DHCPv4 address |
| fujitsu-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. |
|  | fujitsu-dhcp:ifName | | | | | | | | | | | | | | | | | | | RW\* | string | Pattern: ip-(1|200)/0/0/(LCN1|LCN2|LCN)  Specify the interface name that dhcp client configured on |
|  | fujitsu-dhcp:enable | | | | | | | | | | | | | | | | | | | RW | boolean | Default: true  Enable or disable dhcp client function |

# fujitsu-license

## Data

### restrict

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| temp-extension-delete | | | | | | | | | | | | | | | | | | | | RW | leafref | Path: /licenses/license/license-id  This leaf ref is to avoid deletion of TEMP\_EXTENSION |

### licenses

Container that has the list of licenses user can provision

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| license | | | | | | | | | | | | | | | | | | | | RW | list | Key: license-id |
|  | license-id | | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /data:license-data/supported-license/license-id  The individually licensed feature ID. |
|  | license-key | | | | | | | | | | | | | | | | | | | RW\* | string | 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 | Enums:  yes - License Temporary mode enabled  no - License Temporary mode disabled Default: no  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 | Default: 1  The number of instances to enable in License Temp  Mode for the ILF. |
|  | in-use | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 0  The number of instances activated that are in use. |
|  | installed | | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 0  The number of instances that have been activated. |
|  | license-user-id | | | | | | | | | | | | | | | | | | | RW | string | The User ID of the user that installed the Key. |
|  | license-date-time-installed | | | | | | | | | | | | | | | | | | | RW | yang:date-and-time | The Date and Time the License was activated. |
| license-map | | | | | | | | | | | | | | | | | | | | RW | list | Key: entity-name  The list of entities that have licenses activated and in use |
|  | entity-name | | | | | | | | | | | | | | | | | | | RW\* | string | 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 | License id used by the entity provisioned. |
|  |  | use-pattern | | | | | | | | | | | | | | | | | | RW | enumeration | 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 Default: range\_step  The use pattern type for the license |
|  |  | instance-degree | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 1  Number of license instances required for each stepping |

### licenses-status

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| license-status | | | | | | | | | | | | | | | | | | | | R- | list | Key: license-id |
|  | license-id | | | | | | | | | | | | | | | | | | | R-\* | string | 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. |
|  | date-time-installed | | | | | | | | | | | | | | | | | | | R- | yang:date-and-time | 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 |

## Remote Procedure Calls

### key-unlock

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | license-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /data:license-data/supported-license/license-id  The individually licensed feature ID. |
|  | license-key | | | | | | | | | | | | | | | | | | | -W\* | string | 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. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string |  |

# ietf-interfaces

## Data

### interfaces

Interface configuration parameters.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **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. |
|  | name | | | | | | | | | | | | | | | | | | | RW\* | string | Length: 11..19 Pattern: (otsig|otsi|otuc|oduc|odu|eth|ip|ppp|och|otu|oc){1}-([1-9]|[1-3][0-9]|[4][0]|200){1}/[0-5]/[0]/(E([1-2]|[1-2][A-Z][X])(\.[1-6]|:0|\.[1-2]:0|\.[1-2]\.([1-9]|[1][0]){1})?|E([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}|LCN|LCN[1-2]|LMP|NEM|P([1][3-9]|[2-3][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.  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. |
|  | 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 ifAlias 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. |
|  | type | | | | | | | | | | | | | | | | | | | RW\* | identityref | 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. |
|  | ip:ipv4 | | | | | | | | | | | | | | | | | | | RW | presence container | Parameters for the IPv4 address family. |
|  |  | ip:enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | Default: 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). |
|  |  | ip:mtu | | | | | | | | | | | | | | | | | | RW | uint16 | Range: 68..1500 Default: 1500  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 | | | | | | | | | | | | | | | | | | RW | list | Key: ip  The list of configured IPv4 addresses on the interface. |
|  |  |  | ip:ip | | | | | | | | | | | | | | | | | RW\* | inet:ipv4-address-no-zone | The IPv4 address on the interface. |
|  |  |  | ip:subnet | | | | | | | | | | | | | | | | | RW\* | choice | The subnet can be specified as a prefix-length, or, if the server supports non-contiguous netmasks, as a netmask. |
|  |  |  |  | ip:prefix-length | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | ip:prefix-length | | | | | | | | | | | | | | | RW | uint8 | Range: 0..32  The length of the subnet prefix. |
|  |  |  |  | fujitsu-ip:netmask | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  | fujitsu-ip:netmask | | | | | | | | | | | | | | | RW | yang:dotted-quad | The subnet specified as a contiguous netmask. |
|  |  |  | fujitsu-ip:preferred | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  true  false Default: false  Mark address availablity for unnumbered interface use. |
|  |  | fujitsu-ip:update-addr | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  0  1 Default: 0 |
|  |  | fujitsu-ip:address-src | | | | | | | | | | | | | | | | | | RW | leafref | Path: /if:interfaces/interface/name  The source of the shared IP address for unnumbered IP interface. |
|  |  | fujitsu-ip:address-force | | | | | | | | | | | | | | | | | | RW | leafref | Path: /if:interfaces/interface/ip:ipv4/address/ip  The IP address to use for the unnumbered interface |
|  | ip:ipv6 | | | | | | | | | | | | | | | | | | | RW | presence container | Parameters for the IPv6 address family. |
|  |  | ip:enabled | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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. |
|  |  | ip:forwarding | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 1280..1500 Default: 1500  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 | | | | | | | | | | | | | | | | | | RW | list | Key: ip  The list of configured IPv6 addresses on the interface. |
|  |  |  | ip:ip | | | | | | | | | | | | | | | | | RW\* | inet:ipv6-address-no-zone | The IPv6 address on the interface. |
|  |  |  | ip:prefix-length | | | | | | | | | | | | | | | | | RW\* | uint8 | Range: 0..128  The length of the subnet prefix. |
|  |  | v6ur:ipv6-router-advertisements | | | | | | | | | | | | | | | | | | RW | container | Configuration of IPv6 Router Advertisements. |
|  |  |  | v6ur:send-advertisements | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | Range: 4..1800 Default: 600  The maximum time allowed between sending unsolicited multicast Router Advertisements from the interface. |
|  |  |  | v6ur:min-rtr-adv-interval | | | | | | | | | | | | | | | | | RW | uint16 | Range: 3..1350  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 | Default: false  The value to be placed in the 'Managed address configuration' flag field in the Router Advertisement. |
|  |  |  | v6ur:other-config-flag | | | | | | | | | | | | | | | | | RW | boolean | Default: false  The value to be placed in the 'Other configuration' flag field in the Router Advertisement. |
|  |  |  | v6ur:link-mtu | | | | | | | | | | | | | | | | | RW | uint32 | Default: 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 | Range: 0..3600000 Default: 0  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). |
|  |  |  | v6ur:retrans-timer | | | | | | | | | | | | | | | | | RW | uint32 | Default: 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: 0..9000  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. |
|  |  |  | v6ur: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. |
|  |  |  |  |  | v6ur:prefix-spec | | | | | | | | | | | | | | | RW\* | inet:ipv6-prefix | IPv6 address prefix. |
|  |  |  |  |  | v6ur:control-adv-prefixes | | | | | | | | | | | | | | | RW | choice | Default: advertise  Either the prefix is explicitly removed from the set of advertised prefixes, or the parameters with which it is advertised are 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. |
|  |  |  |  |  |  | v6ur:advertise | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  |  |  |  | v6ur:valid-lifetime | | | | | | | | | | | | | RW | uint32 | Default: 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 | Default: true  The value to be placed in the on-link flag ('L-bit') field in the Prefix Information option. |
|  |  |  |  |  |  |  | v6ur:preferred-lifetime | | | | | | | | | | | | | RW | uint32 | Default: 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 | Default: true  The value to be placed in the Autonomous Flag field in the Prefix Information option. |
|  | odu:odu | | | | | | | | | | | | | | | | | | | RW | presence container | Optical Channel Data Unit (ODU) |
|  |  | odu:ains | | | | | | | | | | | | | | | | | | RW | ains-state | Default: disabled |
|  |  | odu:vstimer | | | | | | | | | | | | | | | | | | RW | vstimer |  |
|  |  | odu:ACTVST | | | | | | | | | | | | | | | | | | R- | string |  |
|  |  | odu:testsignal | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  disabled - testsignal not connected  enabled - testsignal connected Default: disabled  testsignal connect and disconnect |
|  |  | odu:testPattern | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  PRBS31 - PRBS31 with standard mapping per G.709 Default: PRBS31  Set test signal pattern |
|  |  | odu:testsignal-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  fac - test signal in the facility direction  term - test signal in the terminal direction Default: fac  Set test signal type (or direction). |
|  |  | odu:bitErrors | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  bit errors for test signal in facility direction. |
|  |  | odu:bitErrorsTerminal | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  bit errors for test signal in terminal direction. |
|  |  | odu:syncSeconds | | | | | | | | | | | | | | | | | | R- | string | number of seconds the received facility test signal is in sync. |
|  |  | odu:syncSecondsTerminal | | | | | | | | | | | | | | | | | | R- | string | number of seconds the received terminal test signal is in sync. |
|  |  | odu:rate | | | | | | | | | | | | | | | | | | RW | identityref | Base: odu-rate-identity  rate identity of the ODU. 'identityref' is used to allow to extend for future higher rates |
|  |  | odu:oduflexcbr-service | | | | | | | | | | | | | | | | | | RW\* | identityref | Base: odu-cbr-identity  cbr service identity of ODUflex. 'identityref' is used to allow to extend |
|  |  | odu:oduflex-gfp-num-ts | | | | | | | | | | | | | | | | | | RW\* | uint8 | Range: 1..80  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 | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | odu:circuit-id | | | | | | | | | | | | | | | | | | RW | string | Length: 0..45 Default:   circuit identifier/user label |
|  |  | odu:direction | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional Default: bi  direction of interface |
|  |  | odu:tx-clock-source | | | | | | | | | | | | | | | | | | RW | 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 |
|  |  | odu:ais-pt | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ais - use AIS-ODU for escalation  csf - use CSF-OPU for escalation Default: ais  alarm escalation setting |
|  |  | odu:monitoring-mode | | | | | | | | | | | | | | | | | | RW | 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 Default: not-terminated  Monitoring mode of the ODU Overhead |
|  |  | odu:standard | | | | | | | | | | | | | | | | | | RW | choice | Default: 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) |
|  |  |  |  |  | odu: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:rx-tti | | | | | | | | | | | | | | | R- | container | Received Trail Trace Identifier |
|  |  |  |  |  |  | odu:sapi | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  |  |  | odu:dapi | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  |  | odu: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 |
|  |  |  |  |  | odu: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 |
|  |  |  | odu:ansi | | | | | | | | | | | | | | | | | RW | case |  |
|  |  | odu:degthr | | | | | | | | | | | | | | | | | | RW | int16 | Range: -3..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  | odu:degm | | | | | | | | | | | | | | | | | | RW | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | odu:proactive-DM | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  enable/disable proactive Delay Measurement |
|  |  | odu:gcc0-pass-through | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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. |
|  |  | odu:tcm | | | | | | | | | | | | | | | | | | RW | list | Key: layer, tcm-direction  Tandem Connection Management |
|  |  |  | odu:layer | | | | | | | | | | | | | | | | | RW\* | uint8 | Range: 1..6  TCM layer |
|  |  |  | odu:monitoring-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 Default: not-terminated  Monitoring mode of the TCM layer |
|  |  |  | odu:ltc-act-enabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  enable/disable alarm transfer on detection of LTC |
|  |  |  | odu:standard | | | | | | | | | | | | | | | | | RW | choice | Default: 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) |
|  |  |  |  |  |  | odu: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:rx-tti | | | | | | | | | | | | | | R- | container | Received Trail Trace Identifier |
|  |  |  |  |  |  |  | odu:sapi | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  |  |  |  | odu:dapi | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  |  |  | odu: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 |
|  |  |  |  |  |  | odu: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 |
|  |  |  |  | odu:ansi | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  | odu:degthr | | | | | | | | | | | | | | | | | RW | int16 | Range: -3..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  |  | odu:degm | | | | | | | | | | | | | | | | | RW | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  |  | odu:proactive-DM | | | | | | | | | | | | | | | | | RW | boolean | Default: false  enable/disable proactive Delay Measurement |
|  |  |  | odu:tcm-direction | | | | | | | | | | | | | | | | | RW\* | enumeration | Enums:  up-tcm - TCM termination direction faces the switch fabric.  down-tcm - TCM termination direction faces the facility  Direction of TCM. |
|  |  |  | odu:pm | | | | | | | | | | | | | | | | | RW | container | Performance Monitoring Info |
|  |  |  |  | odu:pm-threshold | | | | | | | | | | | | | | | | RW | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  |  | odu:pm-name | | | | | | | | | | | | | | | RW\* | pm-identity |  |
|  |  |  |  |  | odu:pm-location | | | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  |  | odu:pm-direction | | | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  |  | odu:pm-type | | | | | | | | | | | | | | | RW | enumeration | Enums:  binned - Binned PM type |
|  |  |  |  |  | odu:pm-th-binned | | | | | | | | | | | | | | | RW | container |  |
|  |  |  |  |  |  | odu:pm-time-periods | | | | | | | | | | | | | | RW | list | Key: pm-time-period |
|  |  |  |  |  |  |  | odu:pm-time-period | | | | | | | | | | | | | RW\* | enumeration | Enums:  15-min - 15 minutes period  1-day - 1 day period |
|  |  |  |  |  |  |  | odu:pm-value | | | | | | | | | | | | | RW\* | uint64 |  |
|  |  |  |  | odu:pm-oper-range | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  |  | odu:pm-name | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  |  | odu:pm-location | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  |  | odu:pm-direction | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  |  | 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 |
|  |  | odu:opu | | | | | | | | | | | | | | | | | | RW | container | Optical Channel Payload Unit (OPU) |
|  |  |  | odu:payload-type | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\*|NA Default: NA  Payload Type |
|  |  |  | odu:rx-payload-type | | | | | | | | | | | | | | | | | R- | string | Length: 2 Pattern: [0-9a-fA-F]\*  Received Payload Type |
|  |  |  | odu:exp-payload-type | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\*|NA Default: NA  Expected Payload Type |
|  |  |  | odu:msi | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  |  | odu:tx-msi | | | | | | | | | | | | | | | | R- | list | Key: trib-slot  Transmit MSI |
|  |  |  |  |  | odu:trib-slot | | | | | | | | | | | | | | | R-\* | uint16 | 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 | 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 | 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:pm | | | | | | | | | | | | | | | | | | RW | container | Performance Monitoring Info |
|  |  |  | odu:pm-threshold | | | | | | | | | | | | | | | | | RW | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  | odu:pm-name | | | | | | | | | | | | | | | | RW\* | pm-identity |  |
|  |  |  |  | odu:pm-location | | | | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  | odu:pm-direction | | | | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  | odu:pm-type | | | | | | | | | | | | | | | | RW | enumeration | Enums:  binned - Binned PM type |
|  |  |  |  | odu:pm-th-binned | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  |  |  | odu:pm-time-periods | | | | | | | | | | | | | | | RW | list | Key: pm-time-period |
|  |  |  |  |  |  | odu:pm-time-period | | | | | | | | | | | | | | RW\* | enumeration | Enums:  15-min - 15 minutes period  1-day - 1 day period |
|  |  |  |  |  |  | odu:pm-value | | | | | | | | | | | | | | RW\* | uint64 |  |
|  |  |  | odu:pm-oper-range | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  | odu:pm-name | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  | odu:pm-location | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  | odu:pm-direction | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  | 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 |
|  |  | odu:lpg-name | | | | | | | | | | | | | | | | | | RW | string | SNCP Line PG Name |
|  |  | odu:ppg-name | | | | | | | | | | | | | | | | | | RW | string | SNCP Path PG Name |
|  |  | odu:from-xcon-name | | | | | | | | | | | | | | | | | | RW | list | Key: xcon-name |
|  |  |  | odu:xcon-name | | | | | | | | | | | | | | | | | RW\* | string |  |
|  |  | odu:to-xcon-name | | | | | | | | | | | | | | | | | | RW | list | Key: xcon-name |
|  |  |  | odu:xcon-name | | | | | | | | | | | | | | | | | RW\* | string |  |
|  |  | odu:trib-slots-hidden | | | | | | | | | | | | | | | | | | RW | trib-resource-type | Trib slots occupied in parent OPU MSIdden |
|  |  | odu:trib-ports-hidden | | | | | | | | | | | | | | | | | | RW | trib-resource-type | Trib port occupied in parent OPU MSIdden |
|  |  | odu:bdi-cross-coupling-id | | | | | | | | | | | | | | | | | | RW | uint32 | If Feature: bdi-cross-coupling  BDI Cross Coupling ID. |
|  |  | odu:allTcmList | | | | | | | | | | | | | | | | | | RW | list | Key: oduIfName, tcmLayer, tcmDirn |
|  |  |  | odu:oduIfName | | | | | | | | | | | | | | | | | RW\* | string |  |
|  |  |  | odu:tcmLayer | | | | | | | | | | | | | | | | | RW\* | uint8 |  |
|  |  |  | odu:tcmDirn | | | | | | | | | | | | | | | | | RW\* | uint8 |  |
|  | oducn:oducn | | | | | | | | | | | | | | | | | | | RW | presence container | Optical Channel Data Unit (ODUCn) |
|  |  | oducn:rate | | | | | | | | | | | | | | | | | | RW | identityref | Base: oducn-rate-identity  rate identity of the ODUCn. 'identityref' is used to allow to extend for future higher rates |
|  |  | oducn:oper-status | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  | oducn:admin-status | | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | oducn:ais-pt | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ais Default: ais |
|  |  | oducn:circuit-id | | | | | | | | | | | | | | | | | | RW | string | Length: 0..45 Default:   circuit identifier/user label |
|  |  | oducn:direction | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional |
|  |  | oducn:standard | | | | | | | | | | | | | | | | | | RW | choice | Default: 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) |
|  |  |  |  |  | oducn: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 |
|  |  |  |  |  | oducn:rx-tti | | | | | | | | | | | | | | | R- | container | Received Trail Trace Identifier |
|  |  |  |  |  |  | oducn:sapi | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  |  |  | oducn:dapi | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  |  |  | oducn:op-spec | | | | | | | | | | | | | | R- | itu-otn-tti-op-spec | TTI Operator Spec |
|  |  |  |  |  | oducn: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: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 |
|  |  | oducn:degthr | | | | | | | | | | | | | | | | | | RW | int16 | Range: -5..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X. |
|  |  | oducn:degm | | | | | | | | | | | | | | | | | | RW | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | oducn:monitoring-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 Default: terminated  Monitoring mode of the TCM layer |
|  |  | oducn:opu | | | | | | | | | | | | | | | | | | RW | container | Optical Channel Payload Unit (OPU) |
|  |  |  | oducn:payload-type | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\*|NA Default: 22  Payload Type |
|  |  |  | oducn:rx-payload-type | | | | | | | | | | | | | | | | | R- | string | Length: 2 Pattern: [0-9a-fA-F]\*  Received Payload Type |
|  |  |  | oducn:exp-payload-type | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\*|NA Default: 22  Expected Payload Type |
|  |  | oducn:testsignal | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  disabled - testsignal not connected  enabled - testsignal connected Default: disabled  testsignal connect and disconnect |
|  |  | oducn:testPattern | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  PRBS31 - PRBS31 with standard mapping per G.709 Default: PRBS31  Set test signal pattern |
|  |  | oducn:testsignal-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  fac - test signal in the facility direction Default: fac  Set test signal type (or direction). |
|  |  | oducn:bitErrors | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  bit errors for test signal in facility direction. |
|  |  | oducn:bitErrorsTerminal | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  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 | Enums:  disabled - default state loopback not active  enabled - loopback operated Default: disabled  loopback operation and release |
|  |  | otu:location | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  nearEnd - Loopback location at near-end Default: nearEnd  Set Loopback Location. |
|  |  | otu:type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  fac - pre-FEC Loopback in the facility direction  term - Loopback in the terminal direction  fac2 - post-FEC Loopback in the facility direction Default: fac  Set Loopback type (or direction). |
|  |  | otu:ains | | | | | | | | | | | | | | | | | | RW | ains-state | Default: 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 |
|  |  | otu:oper-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 | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | otu:standard | | | | | | | | | | | | | | | | | | RW | choice | Default: itu  choice between ANSI Trail Trace Identifier and  ITU-T Trail Trace Identifer (SAPI, DAPI, OperatorSpecific) |
|  |  |  | otu:itu | | | | | | | | | | | | | | | | | RW | case |  |
|  |  |  |  | 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:rx-tti | | | | | | | | | | | | | | | R- | container | Received Trail Trace Identifier |
|  |  |  |  |  |  | otu:sapi | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  |  |  | otu:dapi | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  |  | 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: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 |
|  |  |  | 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 | Range: -3..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  | otu:degm | | | | | | | | | | | | | | | | | | RW | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | otu:circuit-id | | | | | | | | | | | | | | | | | | RW | string | Length: 0..45 Default:   circuit identifier/user label |
|  |  | otu:fec | | | | | | | | | | | | | | | | | | RW\* | 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 |
|  |  | otu:differential-decode | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  off - differntial decode off  on - differntial decode on  Differential Decode |
|  |  | otu:pm | | | | | | | | | | | | | | | | | | RW | container | Performance Monitoring Info |
|  |  |  | otu:pm-threshold | | | | | | | | | | | | | | | | | RW | list | Key: pm-name, pm-location, pm-direction  List of PMs thresholds for the parent entity. |
|  |  |  |  | otu:pm-name | | | | | | | | | | | | | | | | RW\* | pm-identity |  |
|  |  |  |  | otu:pm-location | | | | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  | otu:pm-direction | | | | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  | otu:pm-type | | | | | | | | | | | | | | | | RW | enumeration | Enums:  binned - Binned PM type |
|  |  |  |  | otu:pm-th-binned | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  |  |  | otu:pm-time-periods | | | | | | | | | | | | | | | RW | list | Key: pm-time-period |
|  |  |  |  |  |  | otu:pm-time-period | | | | | | | | | | | | | | RW\* | enumeration | Enums:  15-min - 15 minutes period  1-day - 1 day period |
|  |  |  |  |  |  | otu:pm-value | | | | | | | | | | | | | | RW\* | uint64 |  |
|  |  |  | otu:pm-oper-range | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  | otu:pm-name | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  | otu:pm-location | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  | otu:pm-direction | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  | 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:pm-capability-max | | | | | | | | | | | | | | | | R- | pm-data-type | PM Operating Range High |
|  |  |  |  | otu:pm-warning-low | | | | | | | | | | | | | | | | R- | pm-data-type | PM Threshold Low |
|  |  |  |  | otu:pm-warning-high | | | | | | | | | | | | | | | | R- | pm-data-type | PM Threshold High |
|  |  | otu:list-gcc | | | | | | | | | | | | | | | | | | RW | list | Key: gccType   List of GCC0s |
|  |  |  | otu:gccType | | | | | | | | | | | | | | | | | RW\* | enumeration | Enums:  gcc0 - gcc0 Default: gcc0  gcc type |
|  |  |  | otu:gccEnabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  true: means GCC enabled false: means GCC disabled |
|  |  |  | otu:protocol | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  IP - IP Default: IP  Protocol running over GCC: IP or OSI |
|  | eth:ethernet | | | | | | | | | | | | | | | | | | | RW | presence container | Ethernet Interface |
|  |  | eth:admin-status | | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | eth:rate | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 10000000 | 100000000 Default: 500  Set rate - units kbps. |
|  |  | eth:fec | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  off - FEC value is off  rsfec - FEC value is rsfec  autofec - FEC value is autofec Default: off  Forward Error Correction Choices. |
|  |  | eth:circuit-id | | | | | | | | | | | | | | | | | | RW | string | Length: 0..45  Circuit identifier which can be used in alarm correlation and/or connection management |
|  |  | eth:loopback | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  disabled - default state loopback not active  enabled - loopback operated Default: disabled  loopback operation and release |
|  |  | eth:location | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  nearEnd - Loopback location at near-end Default: nearEnd  Set Loopback Location. |
|  |  | eth:type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  fac - pre-FEC Loopback in the facility direction  term - Loopback in the terminal direction  fac2 - post-FEC Loopback in the facility direction Default: fac  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 | Enums:  disabled - testsignal not connected  enabled - testsignal connected Default: disabled  testsignal connect and disconnect |
|  |  | eth:testPattern | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  PRBS - Unframed, inverted PN-31 pattern or PRBS31 pattern per IEEE 802.3 clause 50.3.8.2  PRBS31 - Scrambled PRBS31 test-pattern per IEEE 802.3ba  IDLE - Scrambled IDLE test-pattern per IEEE 802.3ba Default: IDLE  Set test signal pattern |
|  |  | eth:testsignal-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  fac - test signal in the facility direction  term - test signal in the terminal direction Default: fac  Set test signal type (or direction). |
|  |  | eth:bitErrors | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  bit errors for test signal in facility direction. |
|  |  | eth:bitErrorsTerminal | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 0..4294967295  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 |  |
|  |  |  |  | eth:pm-location | | | | | | | | | | | | | | | | RW\* | pm-location |  |
|  |  |  |  | eth:pm-direction | | | | | | | | | | | | | | | | RW\* | pm-direction |  |
|  |  |  |  | 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 | Enums:  15-min - 15 minutes period  1-day - 1 day period |
|  |  |  |  |  |  | eth:pm-value | | | | | | | | | | | | | | RW\* | uint64 |  |
|  |  |  | eth:pm-oper-range | | | | | | | | | | | | | | | | | R- | list | Key: pm-name, pm-location, pm-direction |
|  |  |  |  | eth:pm-name | | | | | | | | | | | | | | | | R-\* | pm-identity |  |
|  |  |  |  | eth:pm-location | | | | | | | | | | | | | | | | R-\* | pm-location |  |
|  |  |  |  | eth:pm-direction | | | | | | | | | | | | | | | | R-\* | pm-direction |  |
|  |  |  |  | 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:ethernet-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:speed | | | | | | | | | | | | | | | | | | RW | 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. |
|  |  | eth:duplex | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  half - half duplex  full - full duplex Default: full  Set duplex selections. |
|  |  | eth:mtu | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 1518..9000 Default: 1522  Set Maximum Frame Size. |
|  |  | eth:auto-negotiation | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  enabled - Auto Negotiation enabled  disabled - Auto Negotiation disabled Default: enabled  Set Auto Negotiation: Enabled/Disabled. |
|  |  | eth:wavelength | | | | | | | | | | | | | | | | | | R- | uint32 | Default: 1511  OSC wavelength in nm |
|  |  | eth:link-remote-info | | | | | | | | | | | | | | | | | | RW | container |  |
|  |  |  | eth:remoteSysName | | | | | | | | | | | | | | | | | RW | string | Length: 7..20  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 |
|  |  |  | eth:link-monitoring | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  monitor\_all  pcs-only Default: pcs-only  Link Monitoring Mode |
|  |  |  | eth:transport-signal-failure | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  tsf-local-fault - Local Fault  tsf-idle - Idle Default: tsf-local-fault  Codeword to send during Transport Signal Failure |
|  |  |  | eth:backward-transport-signal-failure | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  none - Nothing  remote-fault - Remote Fault |
|  |  |  | eth:ltx-off | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  none  rlanflt  tsfs  btsfs  csf  all Default: none  LTXOFF Choices |
|  |  |  | eth:direction | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  bi-dir - bidirectional Default: bi-dir  direction Choices |
|  |  |  | eth:tx-clock-source | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  through - Timing is passed through  internal - Timing is from internal clock Default: through  Transmit Clock - Specifies source of transit timing |
|  |  |  | 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: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 |
|  |  |  | 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 | Default: false  Specifies whether a GFP payload Frame Check Sum hould be appended to the GFP frames |
|  |  |  | eth:gfp-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 01  User Payload Identifier for GFP client frames |
|  |  |  | eth:los-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 01  GFP CMF User Payload Identifier for loss of client signal |
|  |  |  | eth:losync-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 02  GFP CMF User Payload Identifier for loss of character synchronization |
|  |  |  | eth:dci-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 03  GFP CMF User Payload Identifier for client defect clear indication |
|  |  |  | eth:fdi-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 04  GFP CMF User Payload Identifier for client forward defect indication |
|  |  |  | eth:rdi-upi | | | | | | | | | | | | | | | | | RW | string | Length: 2 Pattern: [0-9a-fA-F]\* Default: 05  GFP CMF User Payload Identifier for client reverse defect indication |
|  |  |  | eth:mac-fcs | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  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 | Default: disabled |
|  |  |  | eth:vstimer | | | | | | | | | | | | | | | | | RW | vstimer |  |
|  |  |  | eth:ACTVST | | | | | | | | | | | | | | | | | R- | string |  |
|  | och:och | | | | | | | | | | | | | | | | | | | RW | presence container | Optical Channel (OCh) |
|  |  | och:ains | | | | | | | | | | | | | | | | | | RW | ains-state | Default: disabled |
|  |  | och:vstimer | | | | | | | | | | | | | | | | | | RW | vstimer |  |
|  |  | och:ACTVST | | | | | | | | | | | | | | | | | | R- | string |  |
|  |  | och:oper-status | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  | och:admin-status | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  up - Ready to pass packets.  down - Not ready to pass packets and not in some test mode. Default: down  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 | Fraction digits: 2 Default: 50.0  Channel slot width in GHz |
|  |  | och:center-frequency | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 5 Range: 0 | 186.54375 .. 196.10625 Default: 0  Frequency of the transmit optical channel |
|  |  | och:lambda | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 2  lambda corresponding to transmit frequency |
|  |  | och:center-frequency-rx | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 5 Range: 0 | 186.54375 .. 196.10625 Default: 0  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: 0..45 Default:   circuit identifier/user label |
|  |  | och:direction | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional Default: bi  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 | Enums:  ais-pt-shutdown - shutdown transmit laser  ais-pt-none - pass thru Default: ais-pt-none  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 |
|  |  | och:roadm-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  CD - CD degree is applicable.  AWG - AWG/DIRECT degree is applicable. Default: CD  setting of ROADM type. |
|  |  | och:confmode-type | | | | | | | | | | | | | | | | | | RW | 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. Default: 100GONLY  CNFMODE is a setting to get the best optical reach |
|  |  | och:Nyquist | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ON  OFF Default: OFF  Current status of Nyquist filter mode. |
|  |  | och:tx-target-power | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 2 Range: -5.00..6.00 Default: 0  transmit output power setting. |
|  | otsig:otsig | | | | | | | | | | | | | | | | | | | RW | presence container | Optical Transport Signal Group: Models the optical channel interfaces for an Optical White Box. |
|  |  | otsig:ais-pt | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  none Default: none |
|  |  | otsig:nwrate | | | | | | | | | | | | | | | | | | RW\* | identityref | Base: nw-rate-identity  network rate |
|  |  | otsig:subcarrier | | | | | | | | | | | | | | | | | | R- | uint8 | Range: 1..2  The number of sub carrier.  This Value is decided depending on otucn-rate-identity. |
|  |  | otsig:modulation-format | | | | | | | | | | | | | | | | | | RW\* | enumeration | 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 | Enums:  hpdfec1 - 25% SDFEC used for UTP T200. Default: hpdfec1  FEC mode. |
|  |  | otsig:roadm-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  CD - CD degree is applicable.  AWG - AWG/DIRECT degree is applicable. Default: CD  setting of ROADM type. |
|  |  | otsig:confmode-type | | | | | | | | | | | | | | | | | | RW | 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. Default: 100GONLY  CNFMODE is a setting to get the best optical reach |
|  |  | otsig:hi-performance-fec | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ON  OFF Default: 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 | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional Default: bi |
|  | fujitsu-acl:acl | | | | | | | | | | | | | | | | | | | RW | container | ACL related properties. |
|  |  | fujitsu-acl:acl-name | | | | | | | | | | | | | | | | | | RW | leafref | Path: /acl:access-lists/acl/acl-name  Access Control List name. |
|  | otucn:otucn | | | | | | | | | | | | | | | | | | | RW | presence container | Optical Transport Unit (OTUCn): Models the optical channel interfaces for an Optical White Box. |
|  |  | otucn:rate | | | | | | | | | | | | | | | | | | RW | identityref | Base: otucn-rate-identity  rate identity of the OTUCn. 'identityref' is used to allow to extend for future higher rates |
|  |  | otucn:oper-status | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  |  | otucn:admin-status | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  up - Ready to pass packets.  down - Not ready to pass packets and not in some test mode. Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  |  | otucn:standard | | | | | | | | | | | | | | | | | | RW | choice | Default: 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) |
|  |  |  |  |  | otucn: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 |
|  |  |  |  |  | otucn:rx-tti | | | | | | | | | | | | | | | R- | container | Received Trail Trace Identifier |
|  |  |  |  |  |  | otucn:sapi | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  |  |  | otucn:dapi | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  |  |  | otucn:op-spec | | | | | | | | | | | | | | R- | itu-otn-tti-op-spec | TTI Operator Spec |
|  |  |  |  |  | otucn: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 |
|  |  |  |  |  | otucn: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 |
|  |  | otucn:degthr | | | | | | | | | | | | | | | | | | RW | int16 | Range: -5..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  |  | otucn:degm | | | | | | | | | | | | | | | | | | RW | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  |  | otucn:circuit-id | | | | | | | | | | | | | | | | | | RW | string | Length: 0..45 Default:   circuit identifier/user label |
|  |  | otucn:direction | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional |
|  |  | otucn:list-gcc | | | | | | | | | | | | | | | | | | RW | list | Key: gccType   List of GCC0s |
|  |  |  | otucn:gccType | | | | | | | | | | | | | | | | | RW\* | enumeration | Enums:  gcc0 - gcc0 Default: gcc0  gcc type |
|  |  |  | otucn:gccEnabled | | | | | | | | | | | | | | | | | RW | boolean | Default: false  true: means GCC enabled false: means GCC disabled |
|  |  |  | otucn:protocol | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  IP - IP Default: IP  Protocol running over GCC: IP or OSI |
|  | ppp:ppp-config | | | | | | | | | | | | | | | | | | | RW | container | PPP Interface |
|  |  | ppp:restartTimer | | | | | | | | | | | | | | | | | | RW | uint32 | Default: 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 |
|  |  | ppp:MRU | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 128..16384 Default: 1500   PPP Maximum Receive Unit size |
|  |  | ppp:magicNumber | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | Default: 16   The size of FCS in bits Allowed value is only 16 default : 16 |
|  |  | ppp:sync | | | | | | | | | | | | | | | | | | RW | boolean | Default: false  Enable/disable HDLC serial encoding rule. |
|  |  | ppp:admin-status | | | | | | | | | | | | | | | | | | RW | admin-status | Default: down  PPP port admin status |
|  | otsi:otsi | | | | | | | | | | | | | | | | | | | 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 | Default: 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 |
|  |  | otsi:center-frequency | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 5 Range: 0 | 191.35000..196.10000 Default: 0  Frequency of the transmit optical channel. |
|  |  | otsi:lambda | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 2  Lambda corresponding to transmit frequency. |
|  |  | otsi:center-frequency-rx | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 5 Range: 0 | 191.35000..196.10000 Default: 0  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: 0..45 Default:   Circuit identifier/user label. |
|  |  | otsi:slot-width | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 2 Default: 50.00  Channel slot width in GHz. |
|  |  | otsi:param-A | | | | | | | | | | | | | | | | | | RW | boolean | Default: true |
|  |  | otsi:param-B | | | | | | | | | | | | | | | | | | RW | boolean | Default: true |
|  |  | otsi:param-C | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 1..127 Default: 14 |
|  |  | otsi:param-D | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 0..31 Default: 30 |
|  |  | otsi:param-E | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 0..10 Default: 10 |
|  |  | otsi:param-F | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 0..127 Default: 0 |
|  |  | otsi:param-G | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 0..127 Default: 0 |
|  |  | otsi:param-H | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 9..509 Default: 509 |
|  |  | otsi:param-I | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 9..509 Default: 509 |
|  |  | otsi:param-J | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 4 Range: -8192.0000..8191.9375 Default: 0 |
|  |  | otsi:param-K | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 4 Range: -2048.0000..2047.9375 Default: 0 |
|  |  | otsi:param-L | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 4 Range: -2048.0000..2047.9375 Default: 0 |
|  |  | otsi:param-M | | | | | | | | | | | | | | | | | | RW | uint32 | Range: 0..763 Default: 0 |
|  |  | otsi:ais-pt | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ais-shutdown  ais-none  Alarm transfer setting for Alarm Indication Signal. |
|  |  | otsi:transmit-power | | | | | | | | | | | | | | | | | | RW | decimal64 | Fraction digits: 2 Range: -5.00..1.00  Transmit power setting. |
|  |  | otsi:otsi-rate | | | | | | | | | | | | | | | | | | RW | identityref | Base: otucn-nw-rate-identity  Network rate. |
|  |  | otsi:modulation-format | | | | | | | | | | | | | | | | | | RW | 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. |
|  |  | otsi:fec | | | | | | | | | | | | | | | | | | RW | 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.  FEC mode. |
|  |  | otsi:roadm-type | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  CD - Colourless Directionless degree is applicable.  AWG - Arrayed Wave Guide/DIRECT degree is applicable. Default: CD  Setting of ROADM type. |
|  |  | otsi:confmode-type | | | | | | | | | | | | | | | | | | RW | 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. Default: 100GONLY  Config Mode is a setting to get the best optical reach. |
|  |  | otsi:nyquist | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  ON  OFF  Current status of Nyquist filter mode. |
|  |  | otsi:direction | | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  uni-rx - Unidirectional receive only.  uni-tx - Unidirectional transmit only.  bi - Bidirectional.  Otsi Direction. |

### interfaces-state

Data nodes for the operational state of interfaces.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **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. |
|  | name | | | | | | | | | | | | | | | | | | | R-\* | string | 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 | Base: interface-type  The type of the interface. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R-\* | enumeration | 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. |
|  | oper-status | | | | | | | | | | | | | | | | | | | R-\* | 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. |
|  | last-change | | | | | | | | | | | | | | | | | | | R- | yang:date-and-time | 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 | Range: 1..2147483647 If Feature: if-mib  The ifIndex value for the ifEntry represented by this interface. |
|  | phys-address | | | | | | | | | | | | | | | | | | | R- | yang:phys-address | 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- | interface-state-ref | A list of references to interfaces layered on top of this interface. |
|  | lower-layer-if | | | | | | | | | | | | | | | | | | | R- | interface-state-ref | A list of references to interfaces layered underneath this interface. |
|  | speed | | | | | | | | | | | | | | | | | | | R- | yang:gauge64 | 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 node is not present. |
|  | statistics | | | | | | | | | | | | | | | | | | | R- | container | A collection of interface-related statistics objects. |
|  |  | discontinuity-time | | | | | | | | | | | | | | | | | | R-\* | yang:date-and-time | 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. |
|  |  | in-octets | | | | | | | | | | | | | | | | | | R- | yang:counter64 | The total number of octets received on the interface, including framing characters.  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'. |
|  |  | in-unicast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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.  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'. |
|  |  | in-broadcast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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.  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'. |
|  |  | in-multicast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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, 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'. |
|  |  | in-discards | | | | | | | | | | | | | | | | | | R- | yang:counter32 | 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 protocol. One possible reason for discarding such a 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'. |
|  |  | in-errors | | | | | | | | | | | | | | | | | | R- | yang:counter32 | For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character- oriented or fixed-length interfaces, the number of 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'. |
|  |  | in-unknown-protos | | | | | | | | | | | | | | | | | | R- | yang:counter32 | For packet-oriented interfaces, the number of packets received via the interface that were discarded because of an unknown or unsupported protocol. For character-oriented or fixed-length interfaces that 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'. |
|  |  | out-octets | | | | | | | | | | | | | | | | | | R- | yang:counter64 | The total number of octets transmitted out of the interface, including framing characters.  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'. |
|  |  | out-unicast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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, including those that were discarded or not sent.  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'. |
|  |  | out-broadcast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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 that were discarded or not sent.  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'. |
|  |  | out-multicast-pkts | | | | | | | | | | | | | | | | | | R- | yang:counter64 | 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 that were discarded or not sent. For a MAC-layer 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'. |
|  |  | out-discards | | | | | | | | | | | | | | | | | | R- | yang:counter32 | 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 for discarding such a 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'. |
|  |  | out-errors | | | | | | | | | | | | | | | | | | R- | yang:counter32 | 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 number of outbound transmission units that could not be 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:forwarding | | | | | | | | | | | | | | | | | | R- | boolean | Indicates whether IPv4 packet forwarding is enabled or disabled on this interface. |
|  |  | ip:mtu | | | | | | | | | | | | | | | | | | R- | uint16 | Range: 68..max  The size, in octets, of the largest IPv4 packet that the interface will send and receive. |
|  |  | ip:address | | | | | | | | | | | | | | | | | | R- | list | Key: ip  The list of IPv4 addresses on the interface. |
|  |  |  | ip:ip | | | | | | | | | | | | | | | | | R-\* | inet:ipv4-address-no-zone | The IPv4 address on the interface. |
|  |  |  | ip:origin | | | | | | | | | | | | | | | | | R- | ip-address-origin | The origin of this address. |
|  |  |  | fujitsu-ip:prefix-length | | | | | | | | | | | | | | | | | R- | uint8 | Range: 0..32 |
|  |  | ip:neighbor | | | | | | | | | | | | | | | | | | R- | list | Key: ip  A list of mappings from IPv4 addresses to link-layer addresses.  This list represents the ARP Cache. |
|  |  |  | ip:ip | | | | | | | | | | | | | | | | | R-\* | inet:ipv4-address-no-zone | The IPv4 address of the neighbor node. |
|  |  |  | ip:link-layer-address | | | | | | | | | | | | | | | | | R- | yang:phys-address | The link-layer address of the neighbor node. |
|  |  |  | ip:origin | | | | | | | | | | | | | | | | | R- | neighbor-origin | The origin of this neighbor entry. |
|  | ip:ipv6 | | | | | | | | | | | | | | | | | | | R- | presence container | Parameters for the IPv6 address family. |
|  |  | ip:forwarding | | | | | | | | | | | | | | | | | | R- | boolean | Default: false  Indicates whether IPv6 packet forwarding is enabled or disabled on this interface. |
|  |  | ip:mtu | | | | | | | | | | | | | | | | | | R- | uint32 | Range: 1280..max  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 | The IPv6 address on the interface. |
|  |  |  | ip:prefix-length | | | | | | | | | | | | | | | | | R-\* | uint8 | Range: 0..128  The length of the subnet prefix. |
|  |  |  | ip:origin | | | | | | | | | | | | | | | | | R- | ip-address-origin | The origin of this address. |
|  |  |  | 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. |
|  |  | 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 | The IPv6 address of the neighbor node. |
|  |  |  | ip:link-layer-address | | | | | | | | | | | | | | | | | R- | yang:phys-address | The link-layer address of the neighbor node. |
|  |  |  | ip:origin | | | | | | | | | | | | | | | | | R- | neighbor-origin | The origin of this neighbor entry. |
|  |  |  | 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. |
|  |  | v6ur: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: 4..1800  The maximum time allowed between sending unsolicited multicast Router Advertisements from the interface. |
|  |  |  | v6ur:min-rtr-adv-interval | | | | | | | | | | | | | | | | | R- | uint16 | Range: 3..1350  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: 0..3600000  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: 0..9000  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. |
|  |  |  | 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. |
|  |  |  |  |  | v6ur:prefix-spec | | | | | | | | | | | | | | | R-\* | inet:ipv6-prefix | IPv6 address prefix. |
|  |  |  |  |  | v6ur:valid-lifetime | | | | | | | | | | | | | | | R- | uint32 | The value that is placed in the Valid Lifetime in the 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. |
|  |  |  |  |  | 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. |
|  | ppp:ppp-if-status | | | | | | | | | | | | | | | | | | | R- | container | PPP Interface Status |
|  |  | ppp:packet-stats | | | | | | | | | | | | | | | | | | R- | container |  |
|  |  |  | ppp:numBytesRx | | | | | | | | | | | | | | | | | R- | uint32 | Number of Received Bytes |
|  |  |  | ppp:numBytesTx | | | | | | | | | | | | | | | | | R- | uint32 | Number of Tx Bytes |
|  |  |  | ppp:numPduRx | | | | | | | | | | | | | | | | | R- | uint32 | Number of Received PDus |
|  |  |  | ppp:numPduTx | | | | | | | | | | | | | | | | | R- | uint32 | Number of Tx PDUs |
|  | rt:routing-instance | | | | | | | | | | | | | | | | | | | R- | routing-instance-state-ref | The name of the routing instance to which the interface is assigned. |

# fujitsu-optical-channel-interfaces

## Notifications

### och-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| och | | | | | | | | | | | | | | | | | | | | R- | container |  |
|  | ains | | | | | | | | | | | | | | | | | | | R- | ains-state | Default: 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>. |
|  | oper-status | | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | rate | | | | | | | | | | | | | | | | | | | R- | identityref | Base: rate-identity  rate |
|  | 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: 0..45  circuit identifier/user label |
|  | direction | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  uni-rx - unidirectional receive only  uni-tx - unidirectional transmit only  bi - bidirectional  direction of interface |
|  | 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 |
|  | remote-tp-type | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  fujitsu-tp - Fujitsu tp  non-fujitsu-tp - Non-Fujitsu tp Default: 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: -5.00..0.00  transmit output power setting. |
|  | channel-width | | | | | | | | | | | | | | | | | | | R- | int16 | Channel width in GHz |

# fujitsu-database

## Remote Procedure Calls

### db-backup

copy running DB to user provided file to a given path

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | filename | | | | | | | | | | | | | | | | | | | -W | string | Length: 10..255  Path and file name is used with back-up.(xxx.DBS) |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### db-restore

Restore database

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | filename | | | | | | | | | | | | | | | | | | | -W | string | Length: 10..255  PATH/file name use file name.(xxx.DBS) |
|  | sysNameCheck | | | | | | | | | | | | | | | | | | | -W | boolean | Default: true  Flag to indicate if sysNameCheck is required |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### db-activate

activate the database

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | 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) |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### cancel-rollback-timer

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | accept | | | | | | | | | | | | | | | | | | | -W | boolean | TRUE means rollback timer is cancelled and new load is accepted |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### db-init

Initialize the database

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### factory-db-init

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### db-show

retrieve database information

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..255  Display database information |

### set-shelfmode

set shelf mode

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelfid | | | | | | | | | | | | | | | | | | | -W | string | Length: 1..3  Shelf ID 1 to 200. |
|  | shelfrole | | | | | | | | | | | | | | | | | | | -W | string | Length: 4..100  shelf role MAIN or TRIB. MAIN must have shelf ID 1. |
|  | reset | | | | | | | | | | | | | | | | | | | -W | empty | reset the shelf to shelf provision mode. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

# fujitsu-optical-tributary-signal-group

## Notifications

### otsig-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| otsig | | | | | | | | | | | | | | | | | | | | 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 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>. |
|  | oper-status | | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | ais-pt | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  shutdown  none |
|  | nwrate | | | | | | | | | | | | | | | | | | | R- | identityref | Base: nw-rate-identity  network rate |
|  | subcarrier | | | | | | | | | | | | | | | | | | | R- | uint8 | Range: 1..2  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 | Enums:  CD - CD degree is applicable.  AWG - AWG/DIRECT degree is applicable. Default: CD  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. Default: 100GONLY  CNFMODE is a setting to get the best optical reach |
|  | hi-performance-fec | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  ON  OFF Default: 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 |

# fujitsu-file-transfer

## Remote Procedure Calls

### transfer

File transfer using FTP/SFTP

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | trans-method | | | | | | | | | | | | | | | | | | | -W\* | choice |  |
|  |  | sftp | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | sftp | | | | | | | | | | | | | | | | | -W | empty | Transfer mode is SFTP. |
|  |  | ftp | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | ftp | | | | | | | | | | | | | | | | | -W | empty | Transfer mode is FTP. |
|  | action | | | | | | | | | | | | | | | | | | | -W\* | enumeration | 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. |
|  | local-file-path | | | | | | | | | | | | | | | | | | | -W\* | string | Local file path. Ex: /var/shared/example.txt |
|  | remote-file-path | | | | | | | | | | | | | | | | | | | -W | inet:uri | Remote file path.  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 |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Status of the file transfer operation |

### transfer-encryption-log

sftp encryption log file to a remote destination

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | destination | | | | | | | | | | | | | | | | | | | -W | inet:uri | Remote file path.  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 |

# dhcpv6-client

## Data

### clientv6

dhcpv6 client portion

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| fujitsu-dhcpv6:dhcpv6ClientStatus | | | | | | | | | | | | | | | | | | | | RW | container |  |
|  | fujitsu-dhcpv6:client-if | | | | | | | | | | | | | | | | | | | R- | list | Key: if-name |
|  |  | fujitsu-dhcpv6:if-name | | | | | | | | | | | | | | | | | | R-\* | string | 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]. |
|  |  |  | fujitsu-dhcpv6:identity-association | | | | | | | | | | | | | | | | | R- | list | Key: iaid  IA |
|  |  |  |  | fujitsu-dhcpv6:iaid | | | | | | | | | | | | | | | | R-\* | uint32 | IAID |
|  |  |  |  | fujitsu-dhcpv6:ia-type | | | | | | | | | | | | | | | | R-\* | string | IA type |
|  |  |  |  | fujitsu-dhcpv6:ipv6-addr | | | | | | | | | | | | | | | | R- | inet:ipv6-address | ipv6 address |
|  |  |  |  | fujitsu-dhcpv6:t1-time | | | | | | | | | | | | | | | | R-\* | yang:timeticks | t1 time |
|  |  |  |  | fujitsu-dhcpv6:t2-time | | | | | | | | | | | | | | | | R-\* | yang:timeticks | t2 time |
|  |  |  |  | fujitsu-dhcpv6:preferred-lifetime | | | | | | | | | | | | | | | | R-\* | yang:timeticks | preferred lifetime |
|  |  |  |  | fujitsu-dhcpv6:valid-lifetime | | | | | | | | | | | | | | | | R-\* | yang:timeticks | valid lifetime |
| fujitsu-dhcpv6: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. |
|  | fujitsu-dhcpv6:if-name | | | | | | | | | | | | | | | | | | | RW\* | string | Pattern: ip-(1|200)/0/0/(LCN1|LCN2|LCN)  interface name |
|  | fujitsu-dhcpv6:enable | | | | | | | | | | | | | | | | | | | RW\* | boolean | whether the interface is enabled |
|  | fujitsu-dhcpv6:rapid-commit | | | | | | | | | | | | | | | | | | | RW\* | boolean | '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. |

## Notifications

### notifications

dhcpv6 notification module

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| dhcpv6-server-event | | | | | | | | | | | | | | | | | | | | R- | container | dhcpv6 server event |
|  | pool-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 | utilization ratio |
|  |  | duid | | | | | | | | | | | | | | | | | | R-\* | duidtype | DHCP Unique  Identifer |
|  |  | serv-name | | | | | | | | | | | | | | | | | | R- | string | server name |
|  |  | pool-name | | | | | | | | | | | | | | | | | | R-\* | string | pool name |
|  | invalid-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. |
|  |  | duid | | | | | | | | | | | | | | | | | | R-\* | duidtype | DHCP Unique  Identifer |
|  |  | description | | | | | | | | | | | | | | | | | | R- | string | description of the event |
| dhcpv6-relay-event | | | | | | | | | | | | | | | | | | | | R- | container | dhcpv6 relay event |
|  | topo-changed | | | | | | | | | | | | | | | | | | | R- | container | raised when the topology  of the relay agent is changed. |
|  |  | relay-if-name | | | | | | | | | | | | | | | | | | R-\* | string | relay interface name |
|  |  | first-hop | | | | | | | | | | | | | | | | | | R-\* | boolean | first hop |
|  |  | last-entity-addr | | | | | | | | | | | | | | | | | | R-\* | inet:ipv6-address | last entity address |
| dhcpv6-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 |
|  |  | event-type | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  allocation - allocate  rebind - rebind  renew - renew  release - release  event type |
|  |  | duid | | | | | | | | | | | | | | | | | | R-\* | duidtype | DHCP Unique  Identifer |
|  |  | iaid | | | | | | | | | | | | | | | | | | R-\* | uint32 | IAID |
|  |  | serv-name | | | | | | | | | | | | | | | | | | R- | string | server name |
|  |  | description | | | | | | | | | | | | | | | | | | R- | string | description of event |
|  | invalid-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. |
|  |  | duid | | | | | | | | | | | | | | | | | | R-\* | duidtype | DHCP Unique  Identifer |
|  |  | cli-duid | | | | | | | | | | | | | | | | | | R-\* | uint32 | duid of client |
|  |  | iaid | | | | | | | | | | | | | | | | | | R-\* | uint32 | IAID |
|  |  | serv-name | | | | | | | | | | | | | | | | | | R- | string | server name |
|  |  | description | | | | | | | | | | | | | | | | | | R- | string | description of the event |
|  | retransmission-failed | | | | | | | | | | | | | | | | | | | R- | container | raised when the retransmission  mechanism defined in [RFC3315] is failed. |
|  |  | duid | | | | | | | | | | | | | | | | | | R- | duidtype | DUID |
|  |  | description | | | | | | | | | | | | | | | | | | R-\* | enumeration | 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 | DHCP Unique  Identifer |
|  |  | status-code | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  1 - UnspecFail  2 - NoAddrAvail  3 - NoBinding  4 - NotOnLink  5 - UseMulticast  employed status code |

# fujitsu-log

## Remote Procedure Calls

### create-tech-info

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | string | shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | string | slot ID |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255 |

### syslog-get

Contents of syslog are displayed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | read-from-linenumber | | | | | | | | | | | | | | | | | | | -W\* | int32 | Start Line number of syslog to be read from |
|  | num-of-lines | | | | | | | | | | | | | | | | | | | -W\* | int32 | Range: 1..5000  Number of lines to be read - Range 5000 lines |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  response of command |

### security-log-get

Contents of security logs are displayed.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | read-from-linenumber | | | | | | | | | | | | | | | | | | | -W\* | int32 |  |
|  | num-of-lines | | | | | | | | | | | | | | | | | | | -W\* | int32 | Range: 1..5000  Number of lines to be read - Range 5000 lines |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  All of security-log are displayed. (It is likely to become a multi-line. ) |

### swerr-log-get

Display swerr log content.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | slot | | | | | | | | | | | | | | | | | | | -W | uint32 | Default: 0  Display swerrs from specified slot. Default: 0 |
|  | filter | | | | | | | | | | | | | | | | | | | -W | choice |  |
|  |  | time | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | from | | | | | | | | | | | | | | | | | -W | date-time | Display swerrs from timestamp(YYYY-MM-DD[THH:MM:SS]) |
|  |  |  | to | | | | | | | | | | | | | | | | | -W | date-time | Display swerrs till timestamp(YYYY-MM-DD[THH:MM:SS]) |
|  |  |  | count | | | | | | | | | | | | | | | | | -W | uint32 | Range: 1..max  Display up to specified number of swerrs |
|  |  | number-first | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | first | | | | | | | | | | | | | | | | | -W | uint32 | Display up to first specified number of swerrs |
|  |  | number-last | | | | | | | | | | | | | | | | | | -W | case |  |
|  |  |  | last | | | | | | | | | | | | | | | | | -W | uint32 | Display up to last specified number of swerrs |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string |  |

### generate-hw-version-log

Generate HW/FW version log.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255 |

### trigger-tech-info

Triggers generation of ON-Demand Log data

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | string | shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | string | slot ID |
|  | trigger | | | | | | | | | | | | | | | | | | | -W\* | logType | Log Type |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255 |

### show-log

Display contents of the LOG file from the specified shelf.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | log-file | | | | | | | | | | | | | | | | | | | -W\* | string | Length: 1..255 Pattern: ([a-zA-Z0-9\_./\-]\*)  log file to be displayed from /var/log directory |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R-\* | enumeration | Enums:  Successful  Failed  Successful or Failed |
|  | status-message | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  Gives a more detailed reason for success / failure |

# fujitsu-otn-otucn-interfaces

## Notifications

### otucn-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name |
| otucn | | | | | | | | | | | | | | | | | | | | 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 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>. |
|  | 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. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | standard | | | | | | | | | | | | | | | | | | | R- | choice | Default: 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-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 |
|  |  |  |  | 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 |  |
|  |  | 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 |
|  | degthr | | | | | | | | | | | | | | | | | | | R- | int16 | Range: -9..2 Default: 0  DEGTHR:Degraded defect one-second Errored Block Count threshold DEGTHR specifies the exponent part X of 10^X [%]. |
|  | degm | | | | | | | | | | | | | | | | | | | R- | int8 | Range: 2..10 Default: 10  DEGM:Degraded defect consecutive one-second monitoring intervals |
|  | circuit-id | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  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. |
|  | auto-tx | | | | | | | | | | | | | | | | | | | R- | boolean | enable/disable automatic population of outgoing TTI |

# fujitsu-security-certificates

## Remote Procedure Calls

### reinstall-certificate

Re install the certificate if certificate files are missing.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | certificate-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /secu:security/secuCert:certificates/certificate-id  ID of the certificate from security table |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string |  |

# fujitsu-swdl

## Data

### sw-version

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| bankType | | | | | | | | | | | | | | | | | | | | R-\* | swBankType | 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 |
| activation-date-time | | | | | | | | | | | | | | | | | | | | R- | yang:date-and-time | activation date and time: The date load was activated |

### sw-repository

A list of software repositories

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| repository-bank | | | | | | | | | | | | | | | | | | | | R-\* | swBankType | 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 | The name of the PGM file |
|  | 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 |

## Remote Procedure Calls

### 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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | filename | | | | | | | | | | | | | | | | | | | -W | string | Length: 10..255  Path and TAR.GZIP file name which has the load |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### sw-stage

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | filename | | | | | | | | | | | | | | | | | | | -W | string | Length: 10..255  The software PGM or signed.tgz file name. |
|  | repository | | | | | | | | | | | | | | | | | | | -W | swBankType | Default: STAGE  The destination repository bank. |
|  | gissue-check | | | | | | | | | | | | | | | | | | | -W | boolean | Default: true  Setting gissue-check to false will disable the upgrade-path checks if an upgrade path is specified in the PGM file. |
|  | shelfrole-check | | | | | | | | | | | | | | | | | | | -W | boolean | Default: 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. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### sw-activate

Activate a new software load

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | gissue | | | | | | | | | | | | | | | | | | | -W | string | GISSUE of the new load which is being activated |
|  | validationTimer | | | | | | | | | | | | | | | | | | | -W | string | Pattern: (0?[1-9]|[1-9][0-9])-[0-5][0-9]-[0-5][0-9] Default: 01-00-00  Validation timer in hh-mm-ss (01-00-00 to 99-59-59) |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### cancel-validation-timer

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | accept | | | | | | | | | | | | | | | | | | | -W | boolean | Default: true  true will cancel the validation timer and accept the new software load, false will trigger an immediate reversion to the previous software load |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### ssw-overwrite

Overwrite of the secondary software repository.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 4..255  response of the command |

### format-usb

Format and Encrypt USB device.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  Response of the command. |

### remove-usb

Safely unmount USB device.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  Response of the command. |

### show-file

Show one or more files in the specified directory.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | filename | | | | | | | | | | | | | | | | | | | -W | string | Length: 1..255  Specify file(s) to be listed (\* is allowed as wild-card). |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  File display per request (single file or all files). |

### delete-file

Delete one or more files in the specified directory.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | delete-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. |
|  | filename | | | | | | | | | | | | | | | | | | | -W\* | string | Length: 1..255  Specify file(s) to be deleted (\* is allowed as wild-card). |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | string | Length: 1..max  Response of command |

# fujitsu-rmon

## Data

### rmon

RMON Control and stats params

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| control | | | | | | | | | | | | | | | | | | | | RW | list | Key: ctrlId  rmon control parameters |
|  | ctrlId | | | | | | | | | | | | | | | | | | | RW\* | uint16 | Range: 1 .. 200  rmon Control Index: 1..200 |
|  | owner | | | | | | | | | | | | | | | | | | | RW\* | ownerType | rmon control owner |
|  | dataSource | | | | | | | | | | | | | | | | | | | RW\* | dataSourceType | 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 | Default: 900  interval in seconds between each sample collection |
|  | bucketsRequested | | | | | | | | | | | | | | | | | | | RW | uint8 | Default: 32  Total no of samples Requested. |
|  | bucketsGranted | | | | | | | | | | | | | | | | | | | RW | uint8 | Default: 32  Total no of samples Granted. |
| stats | | | | | | | | | | | | | | | | | | | | RW | list | Key: ctrlId  rmon stats parameters |
|  | ctrlId | | | | | | | | | | | | | | | | | | | RW\* | uint16 | Range: 1 .. 200  rmon Stats Index: 1..200 |
|  | owner | | | | | | | | | | | | | | | | | | | RW\* | ownerType | rmon stats owner |
|  | dataSource | | | | | | | | | | | | | | | | | | | RW\* | dataSourceType | 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 |
| 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 |

# fujitsu-eqpt-operations

## Remote Procedure Calls

### eqpt-reset

Perform Equipment HARD/SOFT reset.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/slotID  slot ID |
|  | sub-slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/subslotID  sub-slot number |
|  | port-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/port/portID  port number |
|  | reset | | | | | | | | | | | | | | | | | | | -W\* | enumeration | Enums:  HARD - Hard Reset  SOFT - Soft Reset  Reset Types |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | cmd-status |  |

### led-control

LED control, The maintenance object will blink.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/slotID  slot ID |
|  | sub-slot-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/subslotID  sub-slot number |
|  | port-id | | | | | | | | | | | | | | | | | | | -W | leafref | Path: /eqpt:eqpt/shelf/slot/subslot/port/portID  port number |
|  | enable | | | | | | | | | | | | | | | | | | | -W\* | led-state | Blinking ON/OFF |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | cmd-status |  |

### lamptest

This command is used to perform LAMP Test on the NE

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | shelf-id | | | | | | | | | | | | | | | | | | | -W\* | leafref | Path: /eqpt:eqpt/shelf/shelfId  shelf ID |
|  | enable | | | | | | | | | | | | | | | | | | | -W\* | led-state | LAMP Test ON/OFF |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | status | | | | | | | | | | | | | | | | | | | R- | cmd-status |  |

# fujitsu-optical-tributary-signal

## Notifications

### otsi-notif

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| name | | | | | | | | | | | | | | | | | | | | R- | leafref | Path: /if:interfaces/interface/name  Otsi interface name for Notifications. |
| otsi | | | | | | | | | | | | | | | | | | | | 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 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>. |
|  | oper-status | | | | | | | | | | | | | | | | | | | R- | oper-status | The current operational state of the interface.   This leaf has the same semantics as ifOperStatus. |
|  | admin-status | | | | | | | | | | | | | | | | | | | R- | admin-status | Default: down  The desired state of the interface.  This leaf has the same read semantics as ifAdminStatus. |
|  | act-laser | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  normal  shutdown  none |
|  | center-frequency | | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 5 Range: 0 | 191.35000..196.10000  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 | 191.35000..196.10000  Frequency of the receive optical channel. |
|  | lambda-rx | | | | | | | | | | | | | | | | | | | R- | decimal64 | Fraction digits: 2  Lambda corresponding to receive frequency. |
|  | circuit-id | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  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 |  |
|  | 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: -5.00..1.00  Transmit power setting. |
|  | otsi-rate | | | | | | | | | | | | | | | | | | | R- | identityref | Base: otucn-nw-rate-identity  Network rate. |
|  | 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.  FEC mode. |
|  | roadm-type | | | | | | | | | | | | | | | | | | | R- | enumeration | Enums:  CD - Colourless Directionless degree is applicable.  AWG - Arrayed Wave Guide/DIRECT degree is applicable. Default: CD  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. Default: 100GONLY  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. |

# ietf-routing

## Data

### routing-state

State data of the routing subsystem.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **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 | 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. |
|  | router-id | | | | | | | | | | | | | | | | | | | R- | yang:dotted-quad | 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 instance. |
|  |  | interface | | | | | | | | | | | | | | | | | | R- | if:interface-state-ref | 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 | Base: routing-protocol  Type of the routing protocol. |
|  |  |  | name | | | | | | | | | | | | | | | | | R-\* | string | The name of the routing protocol instance.  For system-controlled instances this name is persistent, i.e., it SHOULD NOT change across reboots. |
|  | ribs | | | | | | | | | | | | | | | | | | | R- | container | Container for RIBs. |
|  |  | rib | | | | | | | | | | | | | | | | | | 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 | The name of the RIB. |
|  |  |  | address-family | | | | | | | | | | | | | | | | | R-\* | identityref | Base: address-family  Address family. |
|  |  |  | default-rib | | | | | | | | | | | | | | | | | R- | boolean | Default: 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. |
|  |  |  |  |  | route-preference | | | | | | | | | | | | | | | R- | route-preference | 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. |
|  |  |  |  |  | next-hop | | | | | | | | | | | | | | | R- | container | Route's next-hop attribute. |
|  |  |  |  |  |  | next-hop-options | | | | | | | | | | | | | | R-\* | choice | 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. |
|  |  |  |  |  |  |  | simple-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. |
|  |  |  |  |  |  |  |  | outgoing-interface | | | | | | | | | | | | R- | leafref | Path: /routing-state/routing-instance/interfaces/interface  Name of the outgoing interface. |
|  |  |  |  |  |  |  | special-next-hop | | | | | | | | | | | | | R- | case |  |
|  |  |  |  |  |  |  |  | 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. |
|  |  |  |  |  | source-protocol | | | | | | | | | | | | | | | R-\* | identityref | Base: routing-protocol  Type of the routing protocol from which the route originated. |
|  |  |  |  |  | active | | | | | | | | | | | | | | | 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. |
|  |  |  |  |  | last-updated | | | | | | | | | | | | | | | R- | yang:date-and-time | 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. |

### routing

Configuration parameters for the routing subsystem.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| routing-instance | | | | | | | | | | | | | | | | | | | | RW | list | Key: name  Configuration of a routing instance. |
|  | name | | | | | | | | | | | | | | | | | | | RW\* | string | 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 | Base: routing-instance Default: rt:default-routing-instance  The type of the routing instance. |
|  | enabled | | | | | | | | | | | | | | | | | | | RW | boolean | Default: 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. |
|  | router-id | | | | | | | | | | | | | | | | | | | RW | yang:dotted-quad | A 32-bit number in the form of a dotted quad that is used by some routing protocols identifying a router. |
|  | description | | | | | | | | | | | | | | | | | | | RW | string | Textual description of the routing instance. |
|  | interfaces | | | | | | | | | | | | | | | | | | | RW | container | Assignment of the routing instance's interfaces. |
|  |  | interface | | | | | | | | | | | | | | | | | | RW | if:interface-ref | The name of a configured network layer interface to be assigned to the routing-instance. |
|  | routing-protocols | | | | | | | | | | | | | | | | | | | RW | container | Configuration of routing protocol instances. |
|  |  | routing-protocol | | | | | | | | | | | | | | | | | | RW | list | Key: type, name  Each entry contains configuration of a routing protocol instance. |
|  |  |  | type | | | | | | | | | | | | | | | | | RW\* | identityref | Base: routing-protocol  Type of the routing protocol - an identity derived from the 'routing-protocol' base identity. |
|  |  |  | name | | | | | | | | | | | | | | | | | RW\* | string | An arbitrary name of the routing protocol instance. |
|  |  |  | description | | | | | | | | | | | | | | | | | 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. |
|  | ribs | | | | | | | | | | | | | | | | | | | 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. |
|  |  |  | name | | | | | | | | | | | | | | | | | RW\* | string | 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. |

## Remote Procedure Calls

### fib-route

Return the active FIB route that a routing-instance uses for  
sending packets to a destination address.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| input | | | | | | | | | | | | | | | | | | | | -W |  |  |
|  | routing-instance-name | | | | | | | | | | | | | | | | | | | -W\* | routing-instance-state-ref | Name of the routing instance whose forwarding information base is being queried.  If the routing instance with name equal to the value of this parameter doesn't exist, then this operation SHALL fail with error-tag 'data-missing' and error-app-tag 'routing-instance-not-found'. |
|  | destination-address | | | | | | | | | | | | | | | | | | | -W | container | Network layer destination address.  Address family specific modules MUST augment this container with a leaf named 'address'. |
|  |  | address-family | | | | | | | | | | | | | | | | | | -W\* | identityref | Base: address-family  Address family. |
| output | | | | | | | | | | | | | | | | | | | | R- |  |  |
|  | route | | | | | | | | | | | | | | | | | | | R- | container | The active FIB route for the specified destination.  If the routing instance has no active FIB route for the destination address, no output is returned - the server SHALL send an <rpc-reply> containing a single element <ok>.  Address family specific modules MUST augment this list with appropriate route contents. |
|  |  | address-family | | | | | | | | | | | | | | | | | | R-\* | identityref | Base: address-family  Address family. |
|  |  | next-hop | | | | | | | | | | | | | | | | | | R- | container | Route's next-hop attribute. |
|  |  |  | next-hop-options | | | | | | | | | | | | | | | | | R-\* | choice | 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. |
|  |  |  |  | simple-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. |
|  |  |  |  |  | outgoing-interface | | | | | | | | | | | | | | | R- | leafref | Path: /routing-state/routing-instance/interfaces/interface  Name of the outgoing interface. |
|  |  |  |  | special-next-hop | | | | | | | | | | | | | | | | R- | case |  |
|  |  |  |  |  | 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. |
|  |  | source-protocol | | | | | | | | | | | | | | | | | | R-\* | identityref | Base: routing-protocol  Type of the routing protocol from which the route originated. |
|  |  | active | | | | | | | | | | | | | | | | | | 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. |
|  |  | last-updated | | | | | | | | | | | | | | | | | | R- | yang:date-and-time | 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. |

# openconfig-telemetry

## Data

### telemetry-system

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| sensor-groups | | | | | | | | | | | | | | | | | | | | RW | 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\* | leafref | Path: ../config/sensor-group-id  Reference to the name or identifier of the sensor grouping |
|  |  | config | | | | | | | | | | | | | | | | | | RW | container | Configuration parameters relating to the telemetry sensor grouping |
|  |  |  | sensor-group-id | | | | | | | | | | | | | | | | | RW | string | Length: 1..255 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. |
|  |  |  |  | path | | | | | | | | | | | | | | | | RW\* | leafref | Path: ../config/path  Reference to the path of interest |
|  |  |  |  | config | | | | | | | | | | | | | | | | 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). |
| destination-groups | | | | | | | | | | | | | | | | | | | | RW | container | Top level container for destination group configuration and state. |
|  | destination-group | | | | | | | | | | | | | | | | | | | 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 |
|  |  | group-id | | | | | | | | | | | | | | | | | | RW\* | leafref | Path: ../config/group-id  Unique identifier for the destination group |
|  |  | config | | | | | | | | | | | | | | | | | | RW | container | Top level config container for destination groups |
|  |  |  | group-id | | | | | | | | | | | | | | | | | RW | string | Length: 1..255 Pattern: [^'/|]\*  Unique identifier for the destination group |
|  |  | 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\* | leafref | Path: ../config/destination-address  Reference to the destination address of the telemetry stream |
|  |  |  |  | destination-port | | | | | | | | | | | | | | | | RW\* | leafref | Path: ../config/destination-port  Reference to the port number of the stream destination |
|  |  |  |  | config | | | | | | | | | | | | | | | | RW | container | Configuration parameters relating to telemetry destinations |
|  |  |  |  |  | destination-address | | | | | | | | | | | | | | | RW | union | 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])  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: 1024..65535  Protocol (udp or tcp) port number for the telemetry stream destination |
| subscriptions | | | | | | | | | | | | | | | | | | | | 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. |
|  |  | 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\* | 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 |
|  |  |  | config | | | | | | | | | | | | | | | | | RW | container | Config parameters relating to the telemetry subscriptions on the local device |
|  |  |  |  | subscription-name | | | | | | | | | | | | | | | | RW | string | Length: 1..255 Pattern: [^'/|]\*  User configured identifier of the telemetry subscription. This value is used primarily for subscriptions configured locally on the network element. |
|  |  |  |  | protocol | | | | | | | | | | | | | | | | RW | enumeration | Enums:  STREAM\_GRPC Default: STREAM\_GRPC  Selection of the transport protocol for the telemetry stream. |
|  |  |  |  | encoding | | | | | | | | | | | | | | | | RW | enumeration | Enums:  ENC\_XML  ENC\_JSON Default: ENC\_XML  Selection of the specific encoding or RPC framework for telemetry messages to and from the network element. |
|  |  |  | sensor-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 | Path: ../config/sensor-group  Reference to the telemetry sensor group name |
|  |  |  |  |  | config | | | | | | | | | | | | | | | RW | container | Configuration parameters related to the sensor profile for a subscription |
|  |  |  |  |  |  | sensor-group | | | | | | | | | | | | | | RW | leafref | Path: ../../../../../../../sensor-groups/sensor-group/config/sensor-group-id  Reference to the sensor group which is used in the profile |
|  |  |  |  |  |  | sample-interval | | | | | | | | | | | | | | RW | uint64 | Range: 10000..3600000 Default: 10000  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. |
|  |  |  | destination-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. |
|  |  |  |  | destination-group | | | | | | | | | | | | | | | | RW | list | Key: group-id  Identifier of the previously defined destination group |
|  |  |  |  |  | group-id | | | | | | | | | | | | | | | RW\* | leafref | Path: ../config/group-id  The destination group id references a configured group of destinations for the telemetry stream. |
|  |  |  |  |  | config | | | | | | | | | | | | | | | RW | container | Configuration parameters related to telemetry destinations. |
|  |  |  |  |  |  | group-id | | | | | | | | | | | | | | RW | 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. |

# fujitsu-protocols

## Data

### protocols

configuration of protocols instances.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| protocol | | | | | | | | | | | | | | | | | | | | RW | list | Key: name  Protocol instance |
|  | name | | | | | | | | | | | | | | | | | | | RW\* | string | Name of the protocol instance |
|  | type | | | | | | | | | | | | | | | | | | | RW\* | identityref | Base: protocol-type  The type of the protocol like NAT,LLDP etc. |
|  | nat:nat-config | | | | | | | | | | | | | | | | | | | RW | container | NAT configuration, Allowed protocol names: nat44 for nat44 nat64 for nat64 nat44-napt for nat44-napt |
|  |  | nat:nat64 | | | | | | | | | | | | | | | | | | RW | container | The container for NAT64 protocol, Contains list of attributes required to provision NAT64 |
|  |  |  | nat:enable | | | | | | | | | | | | | | | | | RW | boolean | Is NAT64 enabled |
|  |  |  | nat:public-ipv6-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv6-prefix | Corresponds to the public IPv6 subnet of the packet |
|  |  |  | nat:private-ipv4-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv4-prefix | Corresponds to the dynamically assigned private IPv4 subnet by NAT |
|  |  |  | nat:static-snat-mapping-table | | | | | | | | | | | | | | | | | RW | list | Key: src-ipv6-address  Static NAT mapping Entries |
|  |  |  |  | nat:src-ipv6-address | | | | | | | | | | | | | | | | RW\* | inet:ipv6-address | IPv6 address corresponding to static IPv4 address of  SNAT mapping table |
|  |  |  |  | nat:src-ipv4-address | | | | | | | | | | | | | | | | RW | inet:ipv4-address | IPv4 address corresponding to static IPv6 address of  SNAT mapping table |
|  |  | nat:nat44 | | | | | | | | | | | | | | | | | | RW | container | The container for NAT44 protocol, Contains list of attributes required to provision NAT44 |
|  |  |  | nat:enable | | | | | | | | | | | | | | | | | RW | boolean | Is NAT44 enabled |
|  |  |  | nat:public-ipv4-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv4-prefix | Corresponds to the public IPv4 subnet of the packet |
|  |  |  | nat:private-ipv4-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv4-prefix | Corresponds to the dynamically assigned private IPv4 subnet by NAT |
|  |  |  | nat:private-ipv4-address-subnet-enable | | | | | | | | | | | | | | | | | RW | boolean | Enable/Disable the dynamic assignment of the  private IPv4 subnet by NAT |
|  |  |  | nat:management\_interface\_list | | | | | | | | | | | | | | | | | RW | list | Key: management\_interfaces |
|  |  |  |  | nat:management\_interfaces | | | | | | | | | | | | | | | | RW\* | string | Pattern: ip-(1|200)/0/0/LCN[1-2]  list of management interfaces from where packets are sourced. supports ip-1/0/0/LCN1 and LCN2 |
|  |  |  | nat:static-snat-mapping-table | | | | | | | | | | | | | | | | | RW | list | Key: public-src-ipv4-address  Static NAT entries for NAT44 |
|  |  |  |  | nat:public-src-ipv4-address | | | | | | | | | | | | | | | | RW\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in SNAT mapping table |
|  |  |  |  | nat:private-src-ipv4-address | | | | | | | | | | | | | | | | RW | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in SNAT mapping table |
|  |  |  | nat:static-dnat-mapping-table | | | | | | | | | | | | | | | | | RW | list | Key: public-dst-ipv4-address  Dynamic NAT entries for NAT44 |
|  |  |  |  | nat:public-dst-ipv4-address | | | | | | | | | | | | | | | | RW\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in DNAT mapping table |
|  |  |  |  | nat:private-dst-ipv4-address | | | | | | | | | | | | | | | | RW | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in DNAT mapping table |
|  |  | nat:nat44-napt | | | | | | | | | | | | | | | | | | RW | container | The container for NAT44 NAPT protocol, Contains list of attributes required to provision NAT44 NAPT |
|  |  |  | nat:enable | | | | | | | | | | | | | | | | | RW | boolean | Is NAT44 NAPT enabled |
|  |  |  | nat:public-ipv4-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv4-prefix | Corresponds to the public IPv4 subnet of the packet |
|  |  |  | nat:private-ipv4-address-subnet | | | | | | | | | | | | | | | | | RW | inet:ipv4-prefix | Corresponds to the dynamically assigned private IPv4 subnet by NAT |
|  |  |  | nat:private-ipv4-address-subnet-enable | | | | | | | | | | | | | | | | | RW | boolean | Enable/Disable the dynamic assignment of the  private IPv4 subnet by NAT |
|  |  |  | nat:management\_interface\_list | | | | | | | | | | | | | | | | | RW | list | Key: management\_interfaces |
|  |  |  |  | nat:management\_interfaces | | | | | | | | | | | | | | | | RW\* | string | Pattern: ip-(1|200)/0/0/LCN[1-2]  list of management interfaces from where packets are sourced. supports ip-1/0/0/LCN1 and LCN2 |
|  |  |  | nat:static-snat-mapping-table | | | | | | | | | | | | | | | | | RW | list | Key: public-src-ipv4-address  Static NAT entries for NAT44-PT |
|  |  |  |  | nat:public-src-ipv4-address | | | | | | | | | | | | | | | | RW\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in SNAT mapping table |
|  |  |  |  | nat:private-src-ipv4-address | | | | | | | | | | | | | | | | RW | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in SNAT mapping table |
|  |  |  | nat:static-dnat-mapping-table | | | | | | | | | | | | | | | | | RW | list | Key: public-dst-ipv4-address, public-dst-port-number  Dynamic NAT entries for NAT44-PT |
|  |  |  |  | nat:public-dst-ipv4-address | | | | | | | | | | | | | | | | RW\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in DNAT mapping table |
|  |  |  |  | nat:public-dst-port-number | | | | | | | | | | | | | | | | RW\* | inet:port-number | public port number corresponding to  private port number in DNAT mapping table |
|  |  |  |  | nat:private-dst-ipv4-address | | | | | | | | | | | | | | | | RW | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in DNAT mapping table |
|  |  |  |  | nat:private-dst-port-number | | | | | | | | | | | | | | | | RW | inet:port-number | private port number corresponding to  public port number in DNAT mapping table |
|  | nat:nat-state | | | | | | | | | | | | | | | | | | | R- | container | nat-state |
|  |  | nat:nat64 | | | | | | | | | | | | | | | | | | R- | container | NAT 64 stats |
|  |  |  | nat:dynamic-mapping-learnt-entries | | | | | | | | | | | | | | | | | R- | list | Key: src-ipv6-address |
|  |  |  |  | nat:src-ipv6-address | | | | | | | | | | | | | | | | R-\* | inet:ipv6-address | IPv6 address corresponding to static IPv4 address of  SNAT mapping table |
|  |  |  |  | nat:src-ipv4-address | | | | | | | | | | | | | | | | R- | inet:ipv4-address | IPv4 address corresponding to static IPv6 address of  SNAT mapping table |
|  |  | nat:nat44 | | | | | | | | | | | | | | | | | | R- | container | NAT44 stats |
|  |  |  | nat:dynamic-mapping-learnt-entries | | | | | | | | | | | | | | | | | R- | list | Key: public-dst-ipv4-address |
|  |  |  |  | nat:public-dst-ipv4-address | | | | | | | | | | | | | | | | R-\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in DNAT mapping table |
|  |  |  |  | nat:private-dst-ipv4-address | | | | | | | | | | | | | | | | R- | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in DNAT mapping table |
|  |  | nat:nat44-napt | | | | | | | | | | | | | | | | | | R- | container | NAT44-NAPT stats |
|  |  |  | nat:dynamic-mapping-learnt-entries | | | | | | | | | | | | | | | | | R- | list | Key: public-dst-ipv4-address, public-dst-port-number |
|  |  |  |  | nat:public-dst-ipv4-address | | | | | | | | | | | | | | | | R-\* | inet:ipv4-address | public IPv4 address corresponding to  private IPv4 address in DNAT mapping table |
|  |  |  |  | nat:public-dst-port-number | | | | | | | | | | | | | | | | R-\* | inet:port-number | public port number corresponding to  private port number in DNAT mapping table |
|  |  |  |  | nat:private-dst-ipv4-address | | | | | | | | | | | | | | | | R- | inet:ipv4-address | private IPv4 address corresponding to  public IPv4 address in DNAT mapping table |
|  |  |  |  | nat:private-dst-port-number | | | | | | | | | | | | | | | | R- | inet:port-number | private port number corresponding to  public port number in DNAT mapping table |
|  | lldp:lldp-instance | | | | | | | | | | | | | | | | | | | RW | container | LLDP configurable and retrievable |
|  |  | lldp:global-config | | | | | | | | | | | | | | | | | | RW | container | LLDP global configurations |
|  |  |  | lldp:adminStatus | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  disable - Disable LLDP feature per NE  enable - Enable LLDP feature per NE Default: enable  Enable/Disable LLDP feature per NE |
|  |  |  | lldp:msgTxInterval | | | | | | | | | | | | | | | | | RW | uint16 | Range: 5..32768 Default: 30  LLDP frame Retransmit Interval in seconds |
|  |  |  | lldp:msgTxHoldMultiplier | | | | | | | | | | | | | | | | | RW | uint8 | Range: 2..10 Default: 4  TTL value for the TLVs transmitter over wire in seconds |
|  |  |  | lldp:notificationInterval | | | | | | | | | | | | | | | | | RW | uint16 | Range: 5..3600 Default: 5  notification interval in seconds |
|  |  | lldp:port | | | | | | | | | | | | | | | | | | RW | list | Key: ifName  LLDP port configurations |
|  |  |  | lldp:ifName | | | | | | | | | | | | | | | | | RW\* | leafref | Path: /if:interfaces/interface/name  Ethernet interface name where LLDP runs |
|  |  |  | lldp:if-alias | | | | | | | | | | | | | | | | | RW | string | Alternate Port Id which will be multicast in LLDP pdu if configured |
|  |  |  | lldp:adminStatus | | | | | | | | | | | | | | | | | RW | enumeration | Enums:  disable - Disable Transmit and Receive LLDP frames on specific interface  rxonly - Enable only Receive LLDP frames on specific interface Default: rxonly  LLDP enable per port basis |
|  |  |  | lldp:notificationEnable | | | | | | | | | | | | | | | | | RW | boolean | Default: 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 | remote neighbour system name |
|  |  |  |  | lldp:remoteMgmtAddress | | | | | | | | | | | | | | | | R- | list |  |
|  |  |  |  |  | lldp:AddressSubType | | | | | | | | | | | | | | | R- | ianaaf:address-family | remote neighbour Management Address Subtype Enumeration |
|  |  |  |  |  | lldp:Address | | | | | | | | | | | | | | | R- | inet:ip-address | remote neighbour management address |
|  |  |  |  | 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 |

# fujitsu-notifications

## Notifications

### event-notification

This notification is used to report an event.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Attribute** | | | | | | | | | | | | | | | | | | | | **RW\*** | **Type** | **Description** |
| resource | | | | | | | | | | | | | | | | | | | | R-\* | resource | The resource reporting the event. |
| event-type-id | | | | | | | | | | | | | | | | | | | | R-\* | event-type-id | 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 |
| event-time | | | | | | | | | | | | | | | | | | | | R-\* | yang:date-and-time | 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 | A user friendly text describing the reason for event. |
| circuit-id | | | | | | | | | | | | | | | | | | | | R- | string | Length: 0..45  Circuit identifier of the resource, if available. |
| entity-states:oper-status | | | | | | | | | | | | | | | | | | | | R- | container | Entity Operational Status |
|  | entity-states:current-oper-status | | | | | | | | | | | | | | | | | | | R- | entity-states:oper-status |  |
|  | entity-states:previous-oper-status | | | | | | | | | | | | | | | | | | | R- | entity-states:oper-status |  |
| equipment: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 |
|  | equipment:usi | | | | | | | | | | | | | | | | | | | R- | string | Unique Serial Identifier which includes the manufacturing location code |
| otn:tti | | | | | | | | | | | | | | | | | | | | R- | container | OTN Received Trace Change |
|  | otn:current-tti | | | | | | | | | | | | | | | | | | | R- | container | Current received Trail Trace Identifier |
|  |  | otn:standard | | | | | | | | | | | | | | | | | | R- | choice |  |
|  |  |  | otn:itu | | | | | | | | | | | | | | | | | R- | case |  |
|  |  |  |  | otn:sapi | | | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  | otn:dapi | | | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  | otn:op-spec | | | | | | | | | | | | | | | | R- | itu-otn-tti-op-spec | TTI Operator Spec |
|  |  |  | otn:ansi | | | | | | | | | | | | | | | | | R- | case |  |
|  |  |  |  | otn:tti | | | | | | | | | | | | | | | | R- | ansi-otn-tti | Trail Trace Identifier |
|  | otn:previous-tti | | | | | | | | | | | | | | | | | | | R- | container | Previous received Trail Trace Identifier |
|  |  | otn:standard | | | | | | | | | | | | | | | | | | R- | choice |  |
|  |  |  | otn:itu | | | | | | | | | | | | | | | | | R- | case |  |
|  |  |  |  | otn:sapi | | | | | | | | | | | | | | | | R- | itu-otn-tti-sapi | Source Access Point Identifier |
|  |  |  |  | otn:dapi | | | | | | | | | | | | | | | | R- | itu-otn-tti-dapi | Destination Access Point Identifier |
|  |  |  |  | otn:op-spec | | | | | | | | | | | | | | | | R- | itu-otn-tti-op-spec | TTI Operator Spec |
|  |  |  | otn:ansi | | | | | | | | | | | | | | | | | R- | case |  |
|  |  |  |  | otn:tti | | | | | | | | | | | | | | | | R- | ansi-otn-tti | Trail Trace Identifier |