

2025-08-19 22:45:02,429 INFO Client started for Keysight 5G ORAN M-PLANE Client with version 2.6.10103.0

2025-08-19 22:45:02,430 INFO Client started with config:

```
{
  "general": {
    "##comment##": "The notification_count should be modified as per the user requirement, stop trace rpc sent after the multiple required notification received",
    "username": "MPLANEUSER0",
    "password": "12345678",
    "tls-hostname": "oranuser",
    "mplane-spec": "v12",
    "call-flow-xml": [
      "default_call_flow.xml"
    ],
    "infinite-run": "false",
    "notification_count": 3,
    "log-level": "DEBUG",
    "sftp_local_path": "C:\\\\cygwin64\\\\home\\\\sftp_user\\\\log",
    "fail_call_home": "False",
    "log-dir": "log",
    "mplane-port": 4334,
    "delay_time": 60,
    "alarm_timeout": 60,
    "rest-api-mode": "false",
    "tls_client_cert": "m-client-cert.pem",
    "tls_client_key": "m-client-key.pem",
    "tls_client_pem": "ca-client-cert.pem",
    "tls_server_pem": "ca-server-cert.pem",
    "tls_client_version": "1.3",
    "serial_port": "",
    "baud_rate": 115200
  },
  "params": {
    "vlan-id": 1
  }
}
```

2025-08-19 22:45:02,479 DEBUG Raw MAC found: 00200c7e3201

2025-08-19 22:45:02,479 DEBUG Adding colons to MAC 00200c7e3201

2025-08-19 22:45:02,958 DEBUG Searching for "['10.20.1.1']:4334@MPLANEUSER0:None" in open ssh socket cache

2025-08-19 22:45:04,629 DEBUG Opening SSH socket to ['10.20.1.1']:4334

2025-08-19 22:45:04,629 DEBUG starting thread (client mode): 0x4ac4eac0

2025-08-19 22:45:04,630 DEBUG Local version/idstring: SSH-2.0-paramiko\_3.2.0

2025-08-19 22:45:04,949 DEBUG Remote version/idstring: SSH-2.0-libssh\_0.8.8

2025-08-19 22:45:04,949 INFO Connected (version 2.0, client libssh\_0.8.8)

2025-08-19 22:45:04,950 DEBUG === Key exchange possibilities ===

2025-08-19 22:45:04,950 DEBUG kex algos: curve25519-sha256, curve25519-sha256@libssh.org, ecdh-sha2-nistp256, ecdh-sha2-nistp384, ecdh-sha2-nistp521, diffie-hellman-group16-sha512, diffie-hellman-group18-sha512, diffie-hellman-group14-sha1, diffie-hellman-group1-sha1

```
2025-08-19 22:45:04,950 DEBUG server key: rsa-sha2-512, rsa-sha2-256, ssh-rsa
2025-08-19 22:45:04,950 DEBUG client encrypt: chacha20-poly1305@openssh.com,
aes256-ctr, aes192-ctr, aes128-ctr, aes256-cbc, aes192-cbc, aes128-cbc,
blowfish-cbc, 3des-cbc
2025-08-19 22:45:04,950 DEBUG server encrypt: chacha20-poly1305@openssh.com,
aes256-ctr, aes192-ctr, aes128-ctr, aes256-cbc, aes192-cbc, aes128-cbc,
blowfish-cbc, 3des-cbc
2025-08-19 22:45:04,950 DEBUG client mac: hmac-sha2-256, hmac-sha2-512, hmac-sha1
2025-08-19 22:45:04,950 DEBUG server mac: hmac-sha2-256, hmac-sha2-512, hmac-sha1
2025-08-19 22:45:04,950 DEBUG client compress: none, zlib, zlib@openssh.com
2025-08-19 22:45:04,950 DEBUG server compress: none, zlib, zlib@openssh.com
2025-08-19 22:45:04,950 DEBUG client lang: <none>
2025-08-19 22:45:04,950 DEBUG server lang: <none>
2025-08-19 22:45:04,950 DEBUG kex follows: False
2025-08-19 22:45:04,950 DEBUG === Key exchange agreements ===
2025-08-19 22:45:04,951 DEBUG Kex: curve25519-sha256@libssh.org
2025-08-19 22:45:04,951 DEBUG HostKey: rsa-sha2-512
2025-08-19 22:45:04,951 DEBUG Cipher: aes128-ctr
2025-08-19 22:45:04,951 DEBUG MAC: hmac-sha2-256
2025-08-19 22:45:04,951 DEBUG Compression: none
2025-08-19 22:45:04,951 DEBUG === End of kex handshake ===
2025-08-19 22:45:05,398 DEBUG kex engine KexCurve25519 specified hash_algo
<built-in function openssl_sha256>
2025-08-19 22:45:05,399 DEBUG Switch to new keys ...
2025-08-19 22:45:05,399 DEBUG Trying to authenticate with username: MPLANEUSER0
2025-08-19 22:45:05,399 DEBUG Got EXT_INFO: {'server-sig-algs':
b'ssh-ed25519,ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,ssh-rsa,r
sa-sha2-512,rsa-sha2-256,ssh-dss'}
2025-08-19 22:45:05,400 DEBUG userauth is OK
2025-08-19 22:45:05,423 INFO Authentication (password) successful!
2025-08-19 22:45:05,423 DEBUG Opening SSH channel on socket (['10.20.1.1']:4334)
2025-08-19 22:45:05,423 DEBUG [chan 0] Max packet in: 32768 bytes
2025-08-19 22:45:05,424 DEBUG [chan 0] Max packet out: 35000 bytes
2025-08-19 22:45:05,424 DEBUG Secsh channel 0 opened.
2025-08-19 22:45:05,425 DEBUG [chan 0] Sesch channel 0 request ok
2025-08-19 22:45:05,431 DEBUG NetconfClientSession(sid:None): Sending HELLO
2025-08-19 22:45:05,432 DEBUG Sending message (206):
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>urn:ietf:params:netconf:base:1.0</capability>
    <capability>urn:ietf:params:netconf:base:1.1</capability>
  </capabilities>
</hello>

2025-08-19 22:45:05,432 DEBUG Received HELLO:
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>urn:ietf:params:netconf:base:1.0</capability>
    <capability>urn:ietf:params:netconf:base:1.1</capability>
```

<capability>urn:ietf:params:netconf:capability:writable-running:1.0</capability>  
<capability>urn:ietf:params:netconf:capability:candidate:1.0</capability>

<capability>urn:ietf:params:netconf:capability:confirmed-commit:1.1</capability>

<capability>urn:ietf:params:netconf:capability:rollback-on-error:1.0</capability>  
<capability>urn:ietf:params:netconf:capability:validate:1.1</capability>  
<capability>urn:ietf:params:netconf:capability:startup:1.0</capability>  
<capability>urn:ietf:params:netconf:capability:xpath:1.0</capability>

<capability>urn:ietf:params:netconf:capability:with-defaults:1.0?basic-mode=explicit&also-supported=report-all,report-all-tagged,trim,explicit</capability>  
<capability>urn:ietf:params:netconf:capability:notification:1.0</capability>  
<capability>urn:ietf:params:netconf:capability:interleave:1.0</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-yang-metadata?module=ietf-yang-metadata&revision=2016-08-05</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-inet-types?module=ietf-inet-types&revision=2013-07-15</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-yang-types?module=ietf-yang-types&revision=2013-07-15</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-netconf-acm?module=ietf-netconf-acm&revision=2018-02-14</capability>

<capability>urn:ietf:params:netconf:capability:yang-library:1.1?revision=2019-01-04&content-id=1141809019</capability>

<capability>urn:sysrepo:plugind?module=sysrepo-plugind&revision=2022-08-26</capability>

<capability>urn:ietf:params:xml:ns:netconf:base:1.0?module=ietf-netconf&revision=2013-09-29&features=writable-running,candidate,confirmed-commit,rollback-on-error,validate,startup,url,xpath</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults?module=ietf-netconf-with-defaults&revision=2011-06-01</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-netconf-notifications?module=ietf-netconf-notifications&revision=2012-02-06</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name?module=ietf-x509-cert-to-name&revision=2014-12-10</capability>

<capability>urn:ietf:params:xml:ns:yang:iana-crypt-hash?module=iana-crypt-hash&revision=2014-08-06</capability>

<capability>urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring?module=ietf-netconf

```
-monitoring&revision=2010-10-04</capability>
```

```
<capability>urn:ietf:params:xml:ns:yang:iana-if-type?module=iana-if-type&revision=2017-01-19</capability>
```

```
<capability>urn:ietf:params:xml:ns:netconf:notification:1.0?module=notifications&revision=2008-07-14</capability>
```

```
<capability>urn:ietf:params:xml:ns:netmod:notification?module=nc-notifications&revision=2008-07-14</capability>
```

```
</capabilities>  
<session-id>1</session-id>  
</hello>
```

```
2025-08-19 22:45:05,433 DEBUG Starting reader thread.
```

```
2025-08-19 22:45:05,433 DEBUG NetconfClientSession(sid:1): Opened version 1.1 session.
```

```
2025-08-19 22:45:05,434 DEBUG Minimum capability list:
```

```
{  
  "capability": []  
}
```

```
2025-08-19 22:45:05,434 SUCCESS Minimum capability check passed.
```

```
2025-08-19 22:45:05,435 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 0
```

```
2025-08-19 22:45:05,435 DEBUG Sending message (259):
```

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="0">  
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">  
    <filter xmlns:yanglib="urn:ietf:params:xml:ns:yang:ietf-yang-library" type="xpath" select="/yanglib:*//."/>  
  </get>  
</rpc>
```

```
2025-08-19 22:45:05,554 DEBUG Received message:
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="0">  
  <data>  
    <yang-library xmlns="urn:ietf:params:xml:ns:yang:ietf-yang-library">  
      <module-set>  
        <name>complete</name>  
        <module>  
          <name>yang</name>  
          <revision>2022-06-16</revision>  
          <namespace>urn:ietf:params:xml:ns:yang:1</namespace>  
        </module>  
        <module>  
          <name>ietf-yang-schema-mount</name>  
          <revision>2019-01-14</revision>  
          <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-schema-mount</namespace>  
        </module>  
        <module>  
          <name>ietf-datastores</name>
```

```
    <revision>2018-02-14</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-datastores</namespace>
</module>
<module>
  <name>sysrepo</name>
  <revision>2023-06-16</revision>
  <namespace>http://www.sysrepo.org/yang/sysrepo</namespace>
</module>
<module>
  <name>ietf-netconf-acm</name>
  <revision>2018-02-14</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-acm</namespace>
</module>
<module>
  <name>ietf-factory-default</name>
  <revision>2020-08-31</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-factory-default</namespace>
  <feature>factory-default-datastore</feature>
</module>
<module>
  <name>sysrepo-factory-default</name>
  <revision>2023-02-23</revision>
  <namespace>urn:sysrepo:yang:sysrepo-factory-default</namespace>
</module>
<module>
  <name>ietf-yang-library</name>
  <revision>2019-01-04</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-library</namespace>
<location>file:///etc/sysrepo/yang/ietf-yang-library@2019-01-04.yang</location>
</module>
<module>
  <name>sysrepo-monitoring</name>
  <revision>2023-08-11</revision>
  <namespace>http://www.sysrepo.org/yang/sysrepo-monitoring</namespace>
<location>file:///etc/sysrepo/yang/sysrepo-monitoring@2023-08-11.yang</location>
</module>
<module>
  <name>sysrepo-plugind</name>
  <revision>2022-08-26</revision>
  <namespace>urn:sysrepo:plugind</namespace>
<location>file:///etc/sysrepo/yang/sysrepo-plugind@2022-08-26.yang</location>
</module>
<module>
  <name>ietf-netconf</name>
  <revision>2013-09-29</revision>
  <namespace>urn:ietf:params:xml:ns:netconf:base:1.0</namespace>
```

```

<location>file:///etc/sysrepo/yang/ietf-netconf@2013-09-29.yang</location>
  <feature>writable-running</feature>
  <feature>candidate</feature>
  <feature>confirmed-commit</feature>
  <feature>rollback-on-error</feature>
  <feature>validate</feature>
  <feature>startup</feature>
  <feature>url</feature>
  <feature>xpath</feature>
</module>
<module>
  <name>ietf-netconf-with-defaults</name>
  <revision>2011-06-01</revision>

<namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults</namespace>

<location>file:///etc/sysrepo/yang/ietf-netconf-with-defaults@2011-06-01.yang</location>
</module>
<module>
  <name>ietf-netconf-notifications</name>
  <revision>2012-02-06</revision>

<namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-notifications</namespace>

<location>file:///etc/sysrepo/yang/ietf-netconf-notifications@2012-02-06.yang</location>
</module>
<module>
  <name>ietf-origin</name>
  <revision>2018-02-14</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-origin</namespace>
  <location>file:///etc/sysrepo/yang/ietf-origin@2018-02-14.yang</location>
</module>
<module>
  <name>o-ran-usermgmt</name>
  <revision>2023-12-11</revision>
  <namespace>urn:o-ran:user-mgmt:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-usermgmt@2023-12-11.yang</location>
</module>
<module>
  <name>ietf-netconf-server</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-server</namespace>

<location>file:///etc/sysrepo/yang/ietf-netconf-server@2019-07-02.yang</location>
  <feature>ssh-call-home</feature>
</module>
<module>

```

```
<name>ietf-keystore</name>
<revision>2019-07-02</revision>
<namespace>urn:ietf:params:xml:ns:yang:ietf-keystore</namespace>

<location>file:///etc/sysrepo/yang/ietf-keystore@2019-07-02.yang</location>
  <feature>keystore-supported</feature>
  <feature>local-definitions-supported</feature>
  <feature>key-generation</feature>
</module>
<module>
  <name>ietf-truststore</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-truststore</namespace>

<location>file:///etc/sysrepo/yang/ietf-truststore@2019-07-02.yang</location>
</module>
<module>
  <name>ietf-netconf-monitoring</name>
  <revision>2010-10-04</revision>

<namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring</namespace>

<location>file:///etc/sysrepo/yang/ietf-netconf-monitoring@2010-10-04.yang</location>
</module>
<module>
  <name>ietf-interfaces</name>
  <revision>2018-02-20</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-interfaces</namespace>

<location>file:///etc/sysrepo/yang/ietf-interfaces@2018-02-20.yang</location>
</module>
<module>
  <name>iana-if-type</name>
  <revision>2017-01-19</revision>
  <namespace>urn:ietf:params:xml:ns:yang:iana-if-type</namespace>

<location>file:///etc/sysrepo/yang/iana-if-type@2017-01-19.yang</location>
</module>
<module>
  <name>o-ran-mplane-int</name>
  <revision>2021-12-01</revision>
  <namespace>urn:o-ran:mplane-interfaces:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-mplane-int@2021-12-01.yang</location>
</module>
<module>
  <name>o-ran-interfaces</name>
  <revision>2021-12-01</revision>
  <namespace>urn:o-ran:interfaces:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-interfaces@2021-12-01.yang</location>
  </module>
  <module>
    <name>ietf-ip</name>
    <revision>2018-02-22</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-ip</namespace>
    <location>file:///etc/sysrepo/yang/ietf-ip@2018-02-22.yang</location>
  </module>
  <module>
    <name>ietf-hardware</name>
    <revision>2018-03-13</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-hardware</namespace>

<location>file:///etc/sysrepo/yang/ietf-hardware@2018-03-13.yang</location>
  <feature>hardware-state</feature>
</module>
<module>
  <name>o-ran-dhcp</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:dhcp:1.0</namespace>
  <location>file:///etc/sysrepo/yang/o-ran-dhcp@2022-08-15.yang</location>
</module>
<module>
  <name>o-ran-operations</name>
  <revision>2023-08-14</revision>
  <namespace>urn:o-ran:operations:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-operations@2023-08-14.yang</location>
  </module>
  <module>
    <name>o-ran-supervision</name>
    <revision>2022-12-05</revision>
    <namespace>urn:o-ran:supervision:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-supervision@2022-12-05.yang</location>
  </module>
  <module>
    <name>notifications</name>
    <revision>2008-07-14</revision>
    <namespace>urn:ietf:params:xml:ns:netconf:notification:1.0</namespace>

<location>file:///etc/sysrepo/yang/notifications@2008-07-14.yang</location>
  </module>
  <module>
    <name>o-ran-software-management</name>
    <revision>2022-12-05</revision>
    <namespace>urn:o-ran:software-management:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-software-management@2022-12-05.yang</locat
```

ion>

```
</module>
<module>
  <name>o-ran-hardware</name>
  <revision>2023-08-14</revision>
  <namespace>urn:o-ran:hardware:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-hardware@2023-08-14.yang</location>
```

```
</module>
<module>
  <name>o-ran-file-management</name>
  <revision>2023-04-10</revision>
  <namespace>urn:o-ran:file-management:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-file-management@2023-04-10.yang</location>
```

```
</module>
<module>
  <name>o-ran-sync</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:sync:1.0</namespace>
  <location>file:///etc/sysrepo/yang/o-ran-sync@2022-08-15.yang</location>
```

```
</module>
<module>
  <name>o-ran-fm</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:fm:1.0</namespace>
  <location>file:///etc/sysrepo/yang/o-ran-fm@2022-08-15.yang</location>
```

```
</module>
<module>
  <name>o-ran-uplane-conf</name>
  <revision>2023-12-11</revision>
  <namespace>urn:o-ran:uplane-conf:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-uplane-conf@2023-12-11.yang</location>
```

```
</module>
<module>
  <name>o-ran-processing-element</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:processing-element:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-processing-element@2022-08-15.yang</locati
```

on>

```
</module>
<module>
  <name>o-ran-module-cap</name>
  <revision>2023-12-11</revision>
  <namespace>urn:o-ran:module-cap:1.0</namespace>
```

```
<location>file:///etc/sysrepo/yang/o-ran-module-cap@2023-12-11.yang</location>
```

```
</module>
```

```

    <module>
      <name>nc-notifications</name>
      <revision>2008-07-14</revision>
      <namespace>urn:ietf:params:xml:ns:netmod:notification</namespace>
</location>file:///etc/sysrepo/yang/nc-notifications@2008-07-14.yang</location>
</module>
<module>
  <name>o-ran-troubleshooting</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:troubleshooting:1.0</namespace>
</location>file:///etc/sysrepo/yang/o-ran-troubleshooting@2022-08-15.yang</location>
</module>
<module>
  <name>o-ran-delay-management</name>
  <revision>2022-08-15</revision>
  <namespace>urn:o-ran:delay:1.0</namespace>
</location>file:///etc/sysrepo/yang/o-ran-delay-management@2022-08-15.yang</location
>
  </module>
  <module>
    <name>o-ran-agg-oru-vs-cfg</name>
    <namespace>urn:o-ran:agg-oru-vs-cfg:1.0</namespace>
    <location>file:///etc/sysrepo/yang/o-ran-agg-oru-vs-cfg.yang</location>
    <feature>ORU-VS-CBSD-CONFIG</feature>
  </module>
  <module>
    <name>oru-vs-ran-cbsd</name>
    <revision>2022-11-22</revision>
    <namespace>urn:oru-vs-ran:cbsd:1.0</namespace>
</location>file:///etc/sysrepo/yang/oru-vs-ran-cbsd@2022-11-22.yang</location>
</module>
<import-only-module>
  <name>ietf-yang-metadata</name>
  <revision>2016-08-05</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-metadata</namespace>
</import-only-module>
<import-only-module>
  <name>ietf-inet-types</name>
  <revision>2013-07-15</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-inet-types</namespace>
</import-only-module>
<import-only-module>
  <name>ietf-yang-types</name>
  <revision>2013-07-15</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>
</import-only-module>

```

```

    <import-only-module>
      <name>ietf-yang-structure-ext</name>
      <revision>2020-06-17</revision>

<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-structure-ext</namespace>
</import-only-module>
<import-only-module>
  <name>o-ran-wg4-features</name>
  <revision>2023-12-11</revision>
  <namespace>urn:o-ran:wg4feat:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-wg4-features@2023-12-11.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-x509-cert-to-name</name>
  <revision>2014-12-10</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name</namespace>

<location>file:///etc/sysrepo/yang/ietf-x509-cert-to-name@2014-12-10.yang</location
>
  </import-only-module>
  <import-only-module>
    <name>ietf-tcp-client</name>
    <revision>2019-07-02</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-client</namespace>

<location>file:///etc/sysrepo/yang/ietf-tcp-client@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-tcp-common</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-common</namespace>

<location>file:///etc/sysrepo/yang/ietf-tcp-common@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-tcp-server</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-server</namespace>

<location>file:///etc/sysrepo/yang/ietf-tcp-server@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-ssh-server</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-ssh-server</namespace>

<location>file:///etc/sysrepo/yang/ietf-ssh-server@2019-07-02.yang</location>
</import-only-module>
<import-only-module>

```

```
<name>ietf-ssh-common</name>
<revision>2019-07-02</revision>
<namespace>urn:ietf:params:xml:ns:yang:ietf-ssh-common</namespace>

<location>file:///etc/sysrepo/yang/ietf-ssh-common@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-crypto-types</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-crypto-types</namespace>

<location>file:///etc/sysrepo/yang/ietf-crypto-types@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>iana-crypt-hash</name>
  <revision>2014-08-06</revision>
  <namespace>urn:ietf:params:xml:ns:yang:iana-crypt-hash</namespace>

<location>file:///etc/sysrepo/yang/iana-crypt-hash@2014-08-06.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-tls-server</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tls-server</namespace>

<location>file:///etc/sysrepo/yang/ietf-tls-server@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-tls-common</name>
  <revision>2019-07-02</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tls-common</namespace>

<location>file:///etc/sysrepo/yang/ietf-tls-common@2019-07-02.yang</location>
</import-only-module>
<import-only-module>
  <name>iana-hardware</name>
  <revision>2018-03-13</revision>
  <namespace>urn:ietf:params:xml:ns:yang:iana-hardware</namespace>

<location>file:///etc/sysrepo/yang/iana-hardware@2018-03-13.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-dhcpv6-types</name>
  <revision>2018-09-04</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-dhcpv6-types</namespace>

<location>file:///etc/sysrepo/yang/ietf-dhcpv6-types@2018-09-04.yang</location>
</import-only-module>
<import-only-module>
  <name>ietf-dhcpv6-common</name>
```

```

    <revision>2021-01-29</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-dhcpv6-common</namespace>
<location>file:///etc/sysrepo/yang/ietf-dhcpv6-common@2021-01-29.yang</location>
  </import-only-module>
  <import-only-module>
    <name>o-ran-compression-factors</name>
    <revision>2023-08-14</revision>
    <namespace>urn:o-ran:compression-factors:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-compression-factors@2023-08-14.yang</location>
  </import-only-module>
  <import-only-module>
    <name>o-ran-common-yang-types</name>
    <revision>2023-08-14</revision>
    <namespace>urn:o-ran:common-yang-types:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-common-yang-types@2023-08-14.yang</location>
  </import-only-module>
  <import-only-module>
    <name>o-ran-aggregation-base</name>
    <revision>2020-09-25</revision>
    <namespace>urn:o-ran:agg-base:1.0</namespace>

<location>file:///etc/sysrepo/yang/o-ran-aggregation-base@2020-09-25.yang</location>
  </import-only-module>
</module-set>
<schema>
  <name>complete</name>
  <module-set>complete</module-set>
</schema>
<datastore>
  <name
xmlns:ds="urn:ietf:params:xml:ns:yang:ietf-datastores">ds:running</name>
  <schema>complete</schema>
</datastore>
<datastore>
  <name
xmlns:ds="urn:ietf:params:xml:ns:yang:ietf-datastores">ds:candidate</name>
  <schema>complete</schema>
</datastore>
<datastore>
  <name
xmlns:ds="urn:ietf:params:xml:ns:yang:ietf-datastores">ds:startup</name>
  <schema>complete</schema>
</datastore>
<datastore>

```

```
    <name
xmlns:ds="urn:ietf:params:xml:ns:yang:ietf-datastores">ds:operational</name>
    <schema>complete</schema>
  </datastore>
  <content-id>0x440e9f7b</content-id>
</yang-library>
<modules-state xmlns="urn:ietf:params:xml:ns:yang:ietf-yang-library">
  <module-set-id>0x440e9f7b</module-set-id>
  <module>
    <name>ietf-yang-metadata</name>
    <revision>2016-08-05</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-metadata</namespace>
    <conformance-type>import</conformance-type>
  </module>
  <module>
    <name>yang</name>
    <revision>2022-06-16</revision>
    <namespace>urn:ietf:params:xml:ns:yang:1</namespace>
    <conformance-type>implement</conformance-type>
  </module>
  <module>
    <name>ietf-inet-types</name>
    <revision>2013-07-15</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-inet-types</namespace>
    <conformance-type>import</conformance-type>
  </module>
  <module>
    <name>ietf-yang-types</name>
    <revision>2013-07-15</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>
    <conformance-type>import</conformance-type>
  </module>
  <module>
    <name>ietf-yang-schema-mount</name>
    <revision>2019-01-14</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-schema-mount</namespace>
    <conformance-type>implement</conformance-type>
  </module>
  <module>
    <name>ietf-yang-structure-ext</name>
    <revision>2020-06-17</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-structure-ext</namespace>
    <conformance-type>import</conformance-type>
  </module>
  <module>
    <name>ietf-datastores</name>
    <revision>2018-02-14</revision>
    <namespace>urn:ietf:params:xml:ns:yang:ietf-datastores</namespace>
    <conformance-type>implement</conformance-type>
  </module>
</modules-state>
</yang-library>
```

```
<module>
  <name>sysrepo</name>
  <revision>2023-06-16</revision>
  <namespace>http://www.sysrepo.org/yang/sysrepo</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-netconf-acm</name>
  <revision>2018-02-14</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-acm</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-factory-default</name>
  <revision>2020-08-31</revision>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-factory-default</namespace>
  <feature>factory-default-datastore</feature>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>sysrepo-factory-default</name>
  <revision>2023-02-23</revision>
  <namespace>urn:sysrepo:yang:sysrepo-factory-default</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-yang-library</name>
  <revision>2019-01-04</revision>
  <schema>file:///etc/sysrepo/yang/ietf-yang-library@2019-01-04.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-library</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>sysrepo-monitoring</name>
  <revision>2023-08-11</revision>
</module>
<schema>file:///etc/sysrepo/yang/sysrepo-monitoring@2023-08-11.yang</schema>
  <namespace>http://www.sysrepo.org/yang/sysrepo-monitoring</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>sysrepo-plugind</name>
  <revision>2022-08-26</revision>
  <schema>file:///etc/sysrepo/yang/sysrepo-plugind@2022-08-26.yang</schema>
  <namespace>urn:sysrepo:plugind</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-netconf</name>
  <revision>2013-09-29</revision>
```

```
<schema>file:///etc/sysrepo/yang/ietf-netconf@2013-09-29.yang</schema>
<namespace>urn:ietf:params:xml:ns:netconf:base:1.0</namespace>
<feature>writable-running</feature>
<feature>candidate</feature>
<feature>confirmed-commit</feature>
<feature>rollback-on-error</feature>
<feature>validate</feature>
<feature>startup</feature>
<feature>url</feature>
<feature>xpath</feature>
<conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-netconf-with-defaults</name>
  <revision>2011-06-01</revision>
```

```
<schema>file:///etc/sysrepo/yang/ietf-netconf-with-defaults@2011-06-01.yang</schema>
>
```

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-netconf-notifications</name>
  <revision>2012-02-06</revision>
```

```
<schema>file:///etc/sysrepo/yang/ietf-netconf-notifications@2012-02-06.yang</schema>
>
```

```
<namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-notifications</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-origin</name>
  <revision>2018-02-14</revision>
  <schema>file:///etc/sysrepo/yang/ietf-origin@2018-02-14.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-origin</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-usermgmt</name>
  <revision>2023-12-11</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-usermgmt@2023-12-11.yang</schema>
  <namespace>urn:o-ran:user-mgmt:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-wg4-features</name>
  <revision>2023-12-11</revision>
```

```
<schema>file:///etc/sysrepo/yang/o-ran-wg4-features@2023-12-11.yang</schema>
  <namespace>urn:o-ran:wg4feat:1.0</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-netconf-server</name>
  <revision>2019-07-02</revision>

<schema>file:///etc/sysrepo/yang/ietf-netconf-server@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-server</namespace>
  <feature>ssh-call-home</feature>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-x509-cert-to-name</name>
  <revision>2014-12-10</revision>

<schema>file:///etc/sysrepo/yang/ietf-x509-cert-to-name@2014-12-10.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-x509-cert-to-name</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-tcp-client</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-tcp-client@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-client</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-tcp-common</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-tcp-common@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-common</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-tcp-server</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-tcp-server@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tcp-server</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-ssh-server</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-ssh-server@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-ssh-server</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
```

```
<name>ietf-ssh-common</name>
<revision>2019-07-02</revision>
<schema>file:///etc/sysrepo/yang/ietf-ssh-common@2019-07-02.yang</schema>
<namespace>urn:ietf:params:xml:ns:yang:ietf-ssh-common</namespace>
<conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-keystore</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-keystore@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-keystore</namespace>
  <feature>keystore-supported</feature>
  <feature>local-definitions-supported</feature>
  <feature>key-generation</feature>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-crypto-types</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-crypto-types@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-crypto-types</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>iana-crypt-hash</name>
  <revision>2014-08-06</revision>
  <schema>file:///etc/sysrepo/yang/iana-crypt-hash@2014-08-06.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:iana-crypt-hash</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-tls-server</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-tls-server@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tls-server</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-tls-common</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-tls-common@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-tls-common</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-truststore</name>
  <revision>2019-07-02</revision>
  <schema>file:///etc/sysrepo/yang/ietf-truststore@2019-07-02.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-truststore</namespace>
  <conformance-type>implement</conformance-type>
</module>
```

```
</module>
<module>
  <name>ietf-netconf-monitoring</name>
  <revision>2010-10-04</revision>
<schema>file:///etc/sysrepo/yang/ietf-netconf-monitoring@2010-10-04.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-netconf-monitoring</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-interfaces</name>
  <revision>2018-02-20</revision>
  <schema>file:///etc/sysrepo/yang/ietf-interfaces@2018-02-20.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-interfaces</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>iana-if-type</name>
  <revision>2017-01-19</revision>
  <schema>file:///etc/sysrepo/yang/iana-if-type@2017-01-19.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:iana-if-type</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-mplane-int</name>
  <revision>2021-12-01</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-mplane-int@2021-12-01.yang</schema>
  <namespace>urn:o-ran:mplane-interfaces:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-interfaces</name>
  <revision>2021-12-01</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-interfaces@2021-12-01.yang</schema>
  <namespace>urn:o-ran:interfaces:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-ip</name>
  <revision>2018-02-22</revision>
  <schema>file:///etc/sysrepo/yang/ietf-ip@2018-02-22.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-ip</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-hardware</name>
  <revision>2018-03-13</revision>
  <schema>file:///etc/sysrepo/yang/ietf-hardware@2018-03-13.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-hardware</namespace>
  <feature>hardware-state</feature>
```

```
    <conformance-type>implement</conformance-type>
</module>
<module>
  <name>iana-hardware</name>
  <revision>2018-03-13</revision>
  <schema>file:///etc/sysrepo/yang/iana-hardware@2018-03-13.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:iana-hardware</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>o-ran-dhcp</name>
  <revision>2022-08-15</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-dhcp@2022-08-15.yang</schema>
  <namespace>urn:o-ran:dhcp:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>ietf-dhcpv6-types</name>
  <revision>2018-09-04</revision>
  <schema>file:///etc/sysrepo/yang/ietf-dhcpv6-types@2018-09-04.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-dhcpv6-types</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>ietf-dhcpv6-common</name>
  <revision>2021-01-29</revision>
<schema>file:///etc/sysrepo/yang/ietf-dhcpv6-common@2021-01-29.yang</schema>
  <namespace>urn:ietf:params:xml:ns:yang:ietf-dhcpv6-common</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>o-ran-operations</name>
  <revision>2023-08-14</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-operations@2023-08-14.yang</schema>
  <namespace>urn:o-ran:operations:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-supervision</name>
  <revision>2022-12-05</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-supervision@2022-12-05.yang</schema>
  <namespace>urn:o-ran:supervision:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>notifications</name>
  <revision>2008-07-14</revision>
  <schema>file:///etc/sysrepo/yang/notifications@2008-07-14.yang</schema>
  <namespace>urn:ietf:params:xml:ns:netconf:notification:1.0</namespace>
```

```
    <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-software-management</name>
  <revision>2022-12-05</revision>
<schema>file:///etc/sysrepo/yang/o-ran-software-management@2022-12-05.yang</schema>
  <namespace>urn:o-ran:software-management:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-hardware</name>
  <revision>2023-08-14</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-hardware@2023-08-14.yang</schema>
  <namespace>urn:o-ran:hardware:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-file-management</name>
  <revision>2023-04-10</revision>
<schema>file:///etc/sysrepo/yang/o-ran-file-management@2023-04-10.yang</schema>
  <namespace>urn:o-ran:file-management:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-sync</name>
  <revision>2022-08-15</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-sync@2022-08-15.yang</schema>
  <namespace>urn:o-ran:sync:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-fm</name>
  <revision>2022-08-15</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-fm@2022-08-15.yang</schema>
  <namespace>urn:o-ran:fm:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-uplane-conf</name>
  <revision>2023-12-11</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-uplane-conf@2023-12-11.yang</schema>
  <namespace>urn:o-ran:uplane-conf:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-processing-element</name>
  <revision>2022-08-15</revision>
```

```
<schema>file:///etc/sysrepo/yang/o-ran-processing-element@2022-08-15.yang</schema>
  <namespace>urn:o-ran:processing-element:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-module-cap</name>
  <revision>2023-12-11</revision>
  <schema>file:///etc/sysrepo/yang/o-ran-module-cap@2023-12-11.yang</schema>
  <namespace>urn:o-ran:module-cap:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-compression-factors</name>
  <revision>2023-08-14</revision>

<schema>file:///etc/sysrepo/yang/o-ran-compression-factors@2023-08-14.yang</schema>
  <namespace>urn:o-ran:compression-factors:1.0</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>o-ran-common-yang-types</name>
  <revision>2023-08-14</revision>

<schema>file:///etc/sysrepo/yang/o-ran-common-yang-types@2023-08-14.yang</schema>
  <namespace>urn:o-ran:common-yang-types:1.0</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>nc-notifications</name>
  <revision>2008-07-14</revision>
  <schema>file:///etc/sysrepo/yang/nc-notifications@2008-07-14.yang</schema>
  <namespace>urn:ietf:params:xml:ns:netmod:notification</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-troubleshooting</name>
  <revision>2022-08-15</revision>

<schema>file:///etc/sysrepo/yang/o-ran-troubleshooting@2022-08-15.yang</schema>
  <namespace>urn:o-ran:troubleshooting:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-delay-management</name>
  <revision>2022-08-15</revision>

<schema>file:///etc/sysrepo/yang/o-ran-delay-management@2022-08-15.yang</schema>
  <namespace>urn:o-ran:delay:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
```

```
<module>
  <name>o-ran-agg-oru-vs-cfg</name>
  <revision/>
  <schema>file:///etc/sysrepo/yang/o-ran-agg-oru-vs-cfg.yang</schema>
  <namespace>urn:o-ran:agg-oru-vs-cfg:1.0</namespace>
  <feature>ORU-VS-CBSD-CONFIG</feature>
  <conformance-type>implement</conformance-type>
</module>
<module>
  <name>o-ran-aggregation-base</name>
  <revision>2020-09-25</revision>

<schema>file:///etc/sysrepo/yang/o-ran-aggregation-base@2020-09-25.yang</schema>
  <namespace>urn:o-ran:agg-base:1.0</namespace>
  <conformance-type>import</conformance-type>
</module>
<module>
  <name>oru-vs-ran-cbsd</name>
  <revision>2022-11-22</revision>
  <schema>file:///etc/sysrepo/yang/oru-vs-ran-cbsd@2022-11-22.yang</schema>
  <namespace>urn:oru-vs-ran:cbsd:1.0</namespace>
  <conformance-type>implement</conformance-type>
</module>
</modules-state>
</data>
</rpc-reply>
```

2025-08-19 22:45:05,555 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 0

2025-08-19 22:45:05,572 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 1

2025-08-19 22:45:05,572 DEBUG Sending message (216):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>NETCONF</stream>
  </create-subscription>
</rpc>
```

2025-08-19 22:45:05,670 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <ok/>
</rpc-reply>
```

2025-08-19 22:45:05,670 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 1

2025-08-19 22:45:05,671 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 2

2025-08-19 22:45:05,671 DEBUG Sending message (313):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2">
  <supervision-watchdog-reset xmlns="urn:o-ran:supervision:1.0">

```

```
        <supervision-notification-interval>60</supervision-notification-interval>
        <guard-timer-overhead>10</guard-timer-overhead>
    </supervision-watchdog-reset>
</rpc>
```

2025-08-19 22:45:05,723 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2">
  <next-update-at
xmlns="urn:o-ran:supervision:1.0">2025-08-19T14:46:06.837347337+00:00</next-update-
at>
</rpc-reply>
```

2025-08-19 22:45:05,723 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 2

2025-08-19 22:45:05,724 INFO Waiting for Supervision Notification

{urn:o-ran:supervision:1.0}supervision-notification

2025-08-19 22:45:05,725 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 3

2025-08-19 22:45:05,725 DEBUG Sending message (392):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <filter xmlns:o-ran-delay="urn:o-ran:delay:1.0" type="xpath"
select="/o-ran-delay:delay-management/o-ran-delay:bandwidth-scs-delay-state//."/>
    <with-defaults
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def
aults>
  </get>
</rpc>
```

2025-08-19 22:45:05,789 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
```

```
  <data>
```

```
    <delay-management xmlns="urn:o-ran:delay:1.0">
```

```
      <bandwidth-scs-delay-state>
```

```
        <bandwidth>40000</bandwidth>
```

```
        <subcarrier-spacing>30000</subcarrier-spacing>
```

```
        <ru-delay-profile>
```

```
          <t2a-min-up>240000</t2a-min-up>
```

```
          <t2a-max-up>390000</t2a-max-up>
```

```
          <t2a-min-cp-dl>365000</t2a-min-cp-dl>
```

```
          <t2a-max-cp-dl>515000</t2a-max-cp-dl>
```

```
          <tcp-adv-dl>125000</tcp-adv-dl>
```

```
          <ta3-min>114000</ta3-min>
```

```
          <ta3-max>139000</ta3-max>
```

```
          <t2a-min-cp-ul>143000</t2a-min-cp-ul>
```

```
          <t2a-max-cp-ul>285000</t2a-max-cp-ul>
```

```
        </ru-delay-profile>
```

```
      </bandwidth-scs-delay-state>
```

```
      <bandwidth-scs-delay-state>
```

```
        <bandwidth>20000</bandwidth>
```

```
<subcarrier-spacing>30000</subcarrier-spacing>
<ru-delay-profile>
  <t2a-min-up>240000</t2a-min-up>
  <t2a-max-up>390000</t2a-max-up>
  <t2a-min-cp-dl>365000</t2a-min-cp-dl>
  <t2a-max-cp-dl>515000</t2a-max-cp-dl>
  <tcp-adv-dl>125000</tcp-adv-dl>
  <ta3-min>114000</ta3-min>
  <ta3-max>139000</ta3-max>
  <t2a-min-cp-ul>143000</t2a-min-cp-ul>
  <t2a-max-cp-ul>285000</t2a-max-cp-ul>
</ru-delay-profile>
</bandwidth-scs-delay-state>
</delay-management>
</data>
</rpc-reply>
```

2025-08-19 22:45:05,790 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 3

2025-08-19 22:45:05,798 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 4

2025-08-19 22:45:05,799 DEBUG Sending message (369):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="4">
```

```
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
    <filter xmlns:o-ran-module-cap="urn:o-ran:module-cap:1.0" type="xpath"
```

```
select="/o-ran-module-cap:*//."/>
```

```
    <with-defaults
```

```
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-defaults>
```

```
  </get>
```

```
</rpc>
```

2025-08-19 22:45:05,862 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="4">
```

```
  <data>
```

```
    <module-capability xmlns="urn:o-ran:module-cap:1.0">
```

```
      <ru-capabilities>
```

```
<energy-saving-by-transmission-blanks>false</energy-saving-by-transmission-blanks>
```

```
<dynamic-transport-delay-management-supported>false</dynamic-transport-delay-management-supported>
```

```
  </ru-capabilities>
```

```
</module-capability>
```

```
</data>
```

```
</rpc-reply>
```

2025-08-19 22:45:05,862 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 4

2025-08-19 22:45:05,871 DEBUG NetconfClientSession(sid:1): Sending RPC message-id:

5  
2025-08-19 22:45:05,871 DEBUG Sending message (360):  
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="5">  
 <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">  
 <filter xmlns:if="urn:ietf:params:xml:ns:yang:ietf-interfaces" type="xpath"  
select="/if:\*//."/>  
 <with-defaults  
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def  
aults>  
 </get>  
</rpc>

2025-08-19 22:45:05,927 DEBUG Received message:  
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="5">  
 <data>  
 <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces">  
 <interface>  
 <name>eth1</name>  
 <type  
xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:l2vlan</type>  
 <enabled>true</enabled>  
 <vlan-id xmlns="urn:o-ran:interfaces:1.0">1</vlan-id>  
 <mac-address  
xmlns="urn:o-ran:interfaces:1.0">8c:1f:64:c5:60:25</mac-address>  
 </interface>  
 <interface>  
 <name>eth0</name>  
 <type  
xmlns:ianaift="urn:ietf:params:xml:ns:yang:iana-if-type">ianaift:ethernetCsmacd</ty  
pe>  
 <enabled>true</enabled>  
 </interface>  
 </interfaces>  
 </data>  
</rpc-reply>

2025-08-19 22:45:05,927 DEBUG NetconfClientSession(sid:1): Received rpc-reply  
message-id: 5

2025-08-19 22:45:05,936 DEBUG NetconfClientSession(sid:1): Sending RPC message-id:  
6

2025-08-19 22:45:05,936 DEBUG Sending message (358):  
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="6">  
 <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">  
 <filter xmlns:hw="urn:ietf:params:xml:ns:yang:ietf-hardware" type="xpath"  
select="/hw:\*//."/>  
 <with-defaults  
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def  
aults>  
 </get>  
</rpc>

2025-08-19 22:45:05,994 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="6">
  <data>
    <hardware xmlns="urn:ietf:params:xml:ns:yang:ietf-hardware">
      <component>
        <name>Eridan_ER2035_ER003A-2447051040</name>
        <class xmlns:o-ran-hw="urn:o-ran:hardware:1.0">o-ran-hw:O-RAN-RADIO</class>
        <serial-num>ER003A-2447051040</serial-num>
        <mfg-name>Eridan</mfg-name>
        <model-name>ER2035</model-name>
        <state>
          <admin-state>unlocked</admin-state>
          <oper-state>enabled</oper-state>
        </state>
        <o-ran-name
xmlns="urn:o-ran:hardware:1.0">Eridan_ER2035_ER003A-2447051040</o-ran-name>
      </component>
    </hardware>
  </data>
</rpc-reply>
```

2025-08-19 22:45:05,994 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 6

2025-08-19 22:45:06,003 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 7

2025-08-19 22:45:06,003 DEBUG Sending message (357):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="7">
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <filter xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"
type="xpath" select="/o-ran-uplane-conf:*//."/>
    <with-defaults
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def
aults>
  </get>
</rpc>
```

2025-08-19 22:45:06,157 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="7">
  <data>
    <user-plane-configuration xmlns="urn:o-ran:uplane-conf:1.0">
      <endpoint-types>
        <id>1</id>
        <supported-section-types>
          <section-type>1</section-type>
        </supported-section-types>
        <supported-section-types>
          <section-type>3</section-type>
        </supported-section-types>
        <supported-section-types>

```

```

    <section-type>0</section-type>
  </supported-section-types>
  <supported-frame-structures>193</supported-frame-structures>
  <managed-delay-support>MANAGED</managed-delay-support>
  <multiple-numerology-supported>>false</multiple-numerology-supported>

<max-control-sections-per-data-section>12</max-control-sections-per-data-section>
  <max-sections-per-symbol>255</max-sections-per-symbol>
  <max-sections-per-slot>255</max-sections-per-slot>

<max-uplane-section-header-per-symbol>255</max-uplane-section-header-per-symbol>

<max-uplane-section-header-per-slot>255</max-uplane-section-header-per-slot>
  <max-prb-per-symbol>106</max-prb-per-symbol>

<prb-capacity-allocation-granularity>51</prb-capacity-allocation-granularity>

<prb-capacity-allocation-granularity>106</prb-capacity-allocation-granularity>
  <max-numerologies-per-symbol>1</max-numerologies-per-symbol>

<dynamic-uniformly-distributed-transmission-per-section-supported>>false</dynamic-uniformly-distributed-transmission-per-section-supported>
  <supported-configuration-combinations>
    <combination-id>1</combination-id>
    <set>
      <set-id>1</set-id>
      <config>
        <config-id>1</config-id>
        <scs>KHZ_30</scs>
        <carrier-types>NR</carrier-types>
        <center-from-freqoffset>>false</center-from-freqoffset>
        <supported-filter-indices>0</supported-filter-indices>
        <supported-filter-indices>3</supported-filter-indices>
      </config>
    </set>
  </supported-configuration-combinations>
  <center-from-freqoffset-supported>>false</center-from-freqoffset-supported>
  <supported-filter-indices>0</supported-filter-indices>
</endpoint-types>
<endpoint-prach-group>
  <id>1</id>
  <supported-prach-preamble-formats>NR-A3</supported-prach-preamble-formats>
  <supported-prach-preamble-formats>NR-B4</supported-prach-preamble-formats>
  <supported-prach-preamble-formats>NR-C2</supported-prach-preamble-formats>
</endpoint-prach-group>
<supported-compression-method-sets>
  <id>1</id>
  <compression-method-supported>
    <iq-bitwidth>16</iq-bitwidth>
    <compression-method>NO_COMPRESSION</compression-method>

```

```
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>8</iq-bitwidth>
  <compression-method>BLOCK_FLOATING_POINT</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>9</iq-bitwidth>
  <compression-method>BLOCK_FLOATING_POINT</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>12</iq-bitwidth>
  <compression-method>BLOCK_FLOATING_POINT</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>14</iq-bitwidth>
  <compression-method>BLOCK_FLOATING_POINT</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>16</iq-bitwidth>
</compression-method-supported>
<compression-method-supported>
  <compression-method>NO_COMPRESSION</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>8</iq-bitwidth>
</compression-method-supported>
<compression-method-supported>
  <compression-method>BLOCK_FLOATING_POINT</compression-method>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>9</iq-bitwidth>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>12</iq-bitwidth>
</compression-method-supported>
<compression-method-supported>
  <iq-bitwidth>14</iq-bitwidth>
</compression-method-supported>
</supported-compression-method-sets>
<static-low-level-tx-endpoints>
  <name>tx-endpoint-1</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>tx1</array>
  <endpoint-type>1</endpoint-type>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
</compression>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
  <supported-compression-set-id>1</supported-compression-set-id>
</compression>
```

```
</static-low-level-tx-endpoints>
<static-low-level-tx-endpoints>
  <name>tx-endpoint-2</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>tx2</array>
  <endpoint-type>1</endpoint-type>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
  </compression>
</static-low-level-tx-endpoints>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
  <supported-compression-set-id>1</supported-compression-set-id>
</compression>
</static-low-level-tx-endpoints>
<static-low-level-rx-endpoints>
  <name>rx-endpoint-1</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>rx1</array>
  <endpoint-type>1</endpoint-type>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
  </compression>
</static-low-level-rx-endpoints>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
  <supported-compression-set-id>1</supported-compression-set-id>
</compression>
  <static-config-supported>NONE</static-config-supported>
</static-low-level-rx-endpoints>
<static-low-level-rx-endpoints>
  <name>rx-endpoint-3</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>rx1</array>
  <endpoint-type>1</endpoint-type>
  <prach-group>1</prach-group>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
  </compression>
</static-low-level-rx-endpoints>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
  <supported-compression-set-id>1</supported-compression-set-id>
</compression>
  <static-config-supported>NONE</static-config-supported>
</static-low-level-rx-endpoints>
<static-low-level-rx-endpoints>
  <name>rx-endpoint-4</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>rx2</array>
  <endpoint-type>1</endpoint-type>
  <prach-group>1</prach-group>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
  </compression>
</static-low-level-rx-endpoints>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
```

```

    <supported-compression-set-id>1</supported-compression-set-id>
  </compression>
  <static-config-supported>NONE</static-config-supported>
</static-low-level-rx-endpoints>
<static-low-level-rx-endpoints>
  <name>rx-endpoint-2</name>
  <restricted-interfaces>eth1</restricted-interfaces>
  <array>rx2</array>
  <endpoint-type>1</endpoint-type>
  <compression>
    <dynamic-compression-supported>true</dynamic-compression-supported>
</compression>
<realtime-variable-bit-width-supported>true</realtime-variable-bit-width-supported>
  <supported-compression-set-id>1</supported-compression-set-id>
  </compression>
  <static-config-supported>NONE</static-config-supported>
</static-low-level-rx-endpoints>
<tx-arrays>
  <name>tx1</name>
  <number-of-rows>1</number-of-rows>
  <number-of-columns>1</number-of-columns>
  <number-of-array-layers>1</number-of-array-layers>
  <polarisations>
    <p>0</p>
    <polarisation>ZERO</polarisation>
  </polarisations>
  <band-number>48</band-number>
  <related-o-ru-connectors>
    <name>c1</name>
    <array-element-id>1</array-element-id>
  </related-o-ru-connectors>
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  <max-gain>23.0</max-gain>
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        <polarisation>ZERO</polarisation>
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```

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  </supported-filter-pass-bandwidths-dl>
</capabilities>

```

```

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  <p>1</p>
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```

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  </supported-filter-pass-bandwidths-ul>
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  </supported-filter-pass-bandwidths-ul>

```

```
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  </supported-filter-pass-bandwidths-ul>
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```

```
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    </supported-filter-pass-bandwidths-ul>
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  </supported-filter-pass-bandwidths-ul>
</capabilities>
</capabilities/>
</rx-arrays>
</user-plane-configuration>
</data>
</rpc-reply>
```

2025-08-19 22:45:06,158 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 7

2025-08-19 22:45:06,171 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 8

2025-08-19 22:45:06,171 DEBUG Sending message (345):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="8">
```

```
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
    <filter xmlns:o-ran-fm="urn:o-ran:fm:1.0" type="xpath"
```

```
select="/o-ran-fm:*//."/>
```

```
    <with-defaults
```

```
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def
aults>
```

```
  </get>
```

```
</rpc>
```

2025-08-19 22:45:06,228 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="8">
```

```
  <data/>
```

```
</rpc-reply>
```

2025-08-19 22:45:06,228 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 8

2025-08-19 22:45:06,229 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 9

2025-08-19 22:45:06,229 DEBUG Sending message (364):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="9">
```

```
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
    <filter xmlns:o-ran-swm="urn:o-ran:software-management:1.0" type="xpath"
```

```
select="/o-ran-swm:*//."/>
```

```
    <with-defaults
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def
aults>
  </get>
</rpc>
```

2025-08-19 22:45:06,309 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="9">
```

```
<data>
```

```
<software-inventory xmlns="urn:o-ran:software-management:1.0">
```

```
<software-slot>
```

```
<name>SLOT2</name>
```

```
<status>VALID</status>
```

```
<active>>false</active>
```

```
<running>>false</running>
```

```
<access>READ_WRITE</access>
```

```
<product-code>M1D</product-code>
```

```
<vendor-code>ER</vendor-code>
```

```
<build-id>0414bd10-f716-4249-8a9d-0383b6a88be9</build-id>
```

```
<build-name>O-RAN</build-name>
```

```
<build-version>v2.12.0</build-version>
```

```
<files>
```

```
<name>RU_v2.12.0.tar.xz</name>
```

```
<version>1.0</version>
```

```
<local-path>RU_v2.12.0.tar.xz</local-path>
```

```
<integrity>OK</integrity>
```

```
</files>
```

```
</software-slot>
```

```
<software-slot>
```

```
<name>SLOT3</name>
```

```
<status>VALID</status>
```

```
<active>>false</active>
```

```
<running>>false</running>
```

```
<access>READ_WRITE</access>
```

```
<product-code>M1D</product-code>
```

```
<vendor-code>ER</vendor-code>
```

```
<build-id>0414bd10-f716-4249-8a9d-0383b6a88be9</build-id>
```

```
<build-name>O-RAN</build-name>
```

```
<build-version>v2.12.0</build-version>
```

```
<files>
```

```
<name>RU_v2.12.0.tar.xz</name>
```

```
<version>1.0</version>
```

```
<local-path>RU_v2.12.0.tar.xz</local-path>
```

```
<integrity>OK</integrity>
```

```
</files>
```

```
</software-slot>
```

```
<software-slot>
```

```
<name>SLOT1</name>
```

```
<status>VALID</status>
```

```
<active>>true</active>
```

```

    <running>true</running>
    <access>READ_WRITE</access>
    <product-code>M1D</product-code>
    <vendor-code>ER</vendor-code>
    <build-id>0384cd70-52a7-4f8c-ba13-d3a6fdcd8d8b</build-id>
    <build-name>O-RAN</build-name>
    <build-version>98a49e2f5b91</build-version>
    <files>
      <name>RU_98a49e2f5b91.tar.xz</name>
      <version>1.0</version>
      <local-path>RU_98a49e2f5b91.tar.xz</local-path>
      <integrity>OK</integrity>
    </files>
  </software-slot>
  <software-slot>
    <name>SLOT0</name>
    <status>VALID</status>
    <active>false</active>
    <running>false</running>
    <access>READ_ONLY</access>
    <product-code>M1D</product-code>
    <vendor-code>ER</vendor-code>
    <build-id>ab5a261b-ff38-46e3-976b-741a4f1744e4</build-id>
    <build-name>O-RAN</build-name>
    <build-version>v2.11.1</build-version>
    <files>
      <name>RU_v2.11.1.tar.xz</name>
      <version>1.0</version>
      <local-path>RU_v2.11.1.tar.xz</local-path>
      <integrity>OK</integrity>
    </files>
  </software-slot>
</software-inventory>
</data>
</rpc-reply>

```

2025-08-19 22:45:06,309 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 9

2025-08-19 22:45:06,320 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 10

2025-08-19 22:45:06,320 DEBUG Sending message (310):

```

<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="10">
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <filter type="subtree">
      <sync xmlns="urn:o-ran:sync:1.0">
        <sync-status/>
      </sync>
    </filter>
  </get>
</rpc>

```

2025-08-19 22:45:06,377 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="10">
  <data>
    <sync xmlns="urn:o-ran:sync:1.0">
      <sync-status>
        <sync-state>LOCKED</sync-state>
        <supported-reference-types>
          <item>PTP</item>
        </supported-reference-types>
      </sync-status>
    </sync>
  </data>
</rpc-reply>
```

2025-08-19 22:45:06,377 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 10

2025-08-19 22:45:06,388 SUCCESS sync-state LOCKED achieved.

2025-08-19 22:45:06,388 RESULT Sync Status Object , pass

2025-08-19 22:45:06,389 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 11

2025-08-19 22:45:06,389 DEBUG Sending message (1021):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="11">
  <edit-config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <target>
      <running/>
    </target>
    <default-operation>merge</default-operation>
    <config>
      <processing-elements xmlns="urn:o-ran:processing-element:1.0">
        <transport-session-type>ETH-INTERFACE</transport-session-type>
        <ru-elements>
          <name>ru-element-1</name>
          <transport-flow>
            <interface-name>eth1</interface-name>
            <eth-flow>
              <ru-mac-address>8c:1f:64:c5:60:25</ru-mac-address>
              <vlan-id>1</vlan-id>
              <o-du-mac-address>98:03:9B:9a:7e:da</o-du-mac-address>
            </eth-flow>
          </transport-flow>
        </ru-elements>
      </processing-elements>
    </config>
  </edit-config>
</rpc>
```

2025-08-19 22:45:06,405 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="11">
  <ok/>
```

</rpc-reply>

2025-08-19 22:45:06,406 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 11

2025-08-19 22:45:06,428 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 12

2025-08-19 22:45:06,428 DEBUG Sending message (6323):

<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="12">

<edit-config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">

<target>

<running/>

</target>

<default-operation>merge</default-operation>

<config>

<user-plane-configuration xmlns="urn:o-ran:uplane-conf:1.0">

<low-level-tx-endpoints>

<name>tx-endpoint-1</name>

<compression>

<iq-bitwidth>16</iq-bitwidth>

<compression-type>STATIC</compression-type>

<compression-method>NO\_COMPRESSION</compression-method>

</compression>

<frame-structure>193</frame-structure>

<cp-type>NORMAL</cp-type>

<cp-length>352</cp-length>

<cp-length-other>288</cp-length-other>

<offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>

<number-of-prb-per-scs>

<scs>KHZ\_30</scs>

<number-of-prb>106</number-of-prb>

</number-of-prb-per-scs>

<e-axcid>

<o-du-port-bitmask>61440</o-du-port-bitmask>

<band-sector-bitmask>3840</band-sector-bitmask>

<ccid-bitmask>240</ccid-bitmask>

<ru-port-bitmask>15</ru-port-bitmask>

<eaxc-id>0</eaxc-id>

</e-axcid>

</low-level-tx-endpoints>

<low-level-tx-endpoints>

<name>tx-endpoint-2</name>

<compression>

<iq-bitwidth>16</iq-bitwidth>

<compression-type>STATIC</compression-type>

<compression-method>NO\_COMPRESSION</compression-method>

</compression>

<frame-structure>193</frame-structure>

<cp-type>NORMAL</cp-type>

<cp-length>352</cp-length>

<cp-length-other>288</cp-length-other>

```
<offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>
<number-of-prb-per-scs>
  <scs>KHZ_30</scs>
  <number-of-prb>106</number-of-prb>
</number-of-prb-per-scs>
<e-axcid>
  <o-du-port-bitmask>61440</o-du-port-bitmask>
  <band-sector-bitmask>3840</band-sector-bitmask>
  <ccid-bitmask>240</ccid-bitmask>
  <ru-port-bitmask>15</ru-port-bitmask>
  <eaxc-id>1</eaxc-id>
</e-axcid>
</low-level-tx-endpoints>
<low-level-rx-endpoints>
  <name>rx-endpoint-1</name>
  <compression>
    <iq-bitwidth>16</iq-bitwidth>
    <compression-type>STATIC</compression-type>
    <compression-method>NO_COMPRESSION</compression-method>
  </compression>
  <frame-structure>193</frame-structure>
  <cp-type>NORMAL</cp-type>
  <cp-length>352</cp-length>
  <cp-length-other>288</cp-length-other>
  <offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>
  <number-of-prb-per-scs>
    <scs>KHZ_30</scs>
    <number-of-prb>106</number-of-prb>
  </number-of-prb-per-scs>
  <e-axcid>
    <o-du-port-bitmask>61440</o-du-port-bitmask>
    <band-sector-bitmask>3840</band-sector-bitmask>
    <ccid-bitmask>240</ccid-bitmask>
    <ru-port-bitmask>15</ru-port-bitmask>
    <eaxc-id>0</eaxc-id>
  </e-axcid>
</low-level-rx-endpoints>
<low-level-rx-endpoints>
  <name>rx-endpoint-2</name>
  <compression>
    <iq-bitwidth>16</iq-bitwidth>
    <compression-type>STATIC</compression-type>
    <compression-method>NO_COMPRESSION</compression-method>
  </compression>
  <frame-structure>193</frame-structure>
  <cp-type>NORMAL</cp-type>
  <cp-length>352</cp-length>
  <cp-length-other>288</cp-length-other>
  <offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>
  <number-of-prb-per-scs>
```

```
<scs>KHZ_30</scs>
  <number-of-prb>106</number-of-prb>
</number-of-prb-per-scs>
<e-axcid>
  <o-du-port-bitmask>61440</o-du-port-bitmask>
  <band-sector-bitmask>3840</band-sector-bitmask>
  <ccid-bitmask>240</ccid-bitmask>
  <ru-port-bitmask>15</ru-port-bitmask>
  <eaxc-id>1</eaxc-id>
</e-axcid>
</low-level-rx-endpoints>
<low-level-rx-endpoints>
  <name>rx-endpoint-3</name>
  <compression>
    <iq-bitwidth>16</iq-bitwidth>
    <compression-type>STATIC</compression-type>
    <compression-method>NO_COMPRESSION</compression-method>
  </compression>
  <frame-structure>193</frame-structure>
  <cp-type>NORMAL</cp-type>
  <cp-length>352</cp-length>
  <cp-length-other>288</cp-length-other>
  <offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>
  <number-of-prb-per-scs>
    <scs>KHZ_30</scs>
    <number-of-prb>106</number-of-prb>
  </number-of-prb-per-scs>
  <e-axcid>
    <o-du-port-bitmask>61440</o-du-port-bitmask>
    <band-sector-bitmask>3840</band-sector-bitmask>
    <ccid-bitmask>240</ccid-bitmask>
    <ru-port-bitmask>15</ru-port-bitmask>
    <eaxc-id>2</eaxc-id>
  </e-axcid>
</low-level-rx-endpoints>
<low-level-rx-endpoints>
  <name>rx-endpoint-4</name>
  <compression>
    <iq-bitwidth>16</iq-bitwidth>
    <compression-type>STATIC</compression-type>
    <compression-method>NO_COMPRESSION</compression-method>
  </compression>
  <frame-structure>193</frame-structure>
  <cp-type>NORMAL</cp-type>
  <cp-length>352</cp-length>
  <cp-length-other>288</cp-length-other>
  <offset-to-absolute-frequency-center>0</offset-to-absolute-frequency-center>
  <number-of-prb-per-scs>
    <scs>KHZ_30</scs>
    <number-of-prb>106</number-of-prb>
```

```

</number-of-prb-per-scs>
<e-axcid>
  <o-du-port-bitmask>61440</o-du-port-bitmask>
  <band-sector-bitmask>3840</band-sector-bitmask>
  <ccid-bitmask>240</ccid-bitmask>
  <ru-port-bitmask>15</ru-port-bitmask>
  <eaxc-id>3</eaxc-id>
</e-axcid>
</low-level-rx-endpoints>
<tx-array-carriers>
  <name>tx-cc0</name>
  <center-of-channel-bandwidth>3651780000</center-of-channel-bandwidth>
  <channel-bandwidth>40000000</channel-bandwidth>
  <gain>23.0</gain>
  <downlink-radio-frame-offset>0</downlink-radio-frame-offset>
  <downlink-sfn-offset>0</downlink-sfn-offset>
</tx-array-carriers>
<rx-array-carriers>
  <name>rx-cc0</name>
  <center-of-channel-bandwidth>3651780000</center-of-channel-bandwidth>
  <channel-bandwidth>40000000</channel-bandwidth>
  <downlink-radio-frame-offset>0</downlink-radio-frame-offset>
  <downlink-sfn-offset>0</downlink-sfn-offset>
  <gain-correction>0.0</gain-correction>
  <n-ta-offset>0</n-ta-offset>
</rx-array-carriers>
</user-plane-configuration>
  </config>
</edit-config>
</rpc>

```

2025-08-19 22:45:06,429 DEBUG Received message:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:07.566770452+00:00</eventTime>
  <netconf-config-change
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
    <changed-by>
      <username>root</username>
      <session-id>0</session-id>
    </changed-by>
    <datastore>running</datastore>
    <edit>
      <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">o-ran-elements:processing-
elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']</target>
      <operation>create</operation>
    </edit>
    <edit>
      <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">o-ran-elements:processing-

```

```

elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow/o-ran-elements:interface-name</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow/o-ran-elements:eth-flow</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow/o-ran-elements:eth-flow/o-ran-elements:ru-mac-address</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow/o-ran-elements:eth-flow/o-ran-elements:vlan-id</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-elements="urn:o-ran:processing-element:1.0">/o-ran-elements:processing-elements/o-ran-elements:ru-elements[o-ran-elements:name='ru-element-1']/o-ran-elements:transport-flow/o-ran-elements:eth-flow/o-ran-elements:o-du-mac-address</target>
  <operation>create</operation>
</edit>
</netconf-config-change>
</notification>

```

2025-08-19 22:45:06,430 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0}supervision-notification': None,
{'urn:o-ran:fm:1.0}alarm-notif': None}
2025-08-19 22:45:06,430 DEBUG Ignoring unwanted notification
{urn:ietf:params:xml:ns:yang:ietf-netconf-notifications}netconf-config-change
2025-08-19 22:45:06,693 DEBUG Received message:
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="12">
  <ok/>
</rpc-reply>
```

```
2025-08-19 22:45:06,693 DEBUG NetconfClientSession(sid:1): Received rpc-reply
message-id: 12
2025-08-19 22:45:06,704 SUCCESS user-plane-conf: eaxc-id and carrier config pushed
to RU.
2025-08-19 22:45:06,705 DEBUG NetconfClientSession(sid:1): Sending RPC message-id:
13
2025-08-19 22:45:06,706 DEBUG Sending message (1876):
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="13">
  <edit-config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <target>
      <running/>
    </target>
    <default-operation>merge</default-operation>
    <config>
      <user-plane-configuration
xmlns="urn:o-ran:uplane-conf:1.0"><low-level-tx-links>
        <name>tx-link-1</name>
        <processing-element>ru-element-1</processing-element>
        <tx-array-carrier>tx-cc0</tx-array-carrier>
        <low-level-tx-endpoint>tx-endpoint-1</low-level-tx-endpoint>
      </low-level-tx-links>
      <low-level-tx-links>
        <name>tx-link-2</name>
        <processing-element>ru-element-1</processing-element>
        <tx-array-carrier>tx-cc0</tx-array-carrier>
        <low-level-tx-endpoint>tx-endpoint-2</low-level-tx-endpoint>
      </low-level-tx-links>
      <low-level-rx-links>
        <name>rx-link-1</name>
        <processing-element>ru-element-1</processing-element>
        <rx-array-carrier>rx-cc0</rx-array-carrier>
        <low-level-rx-endpoint>rx-endpoint-1</low-level-rx-endpoint>
      </low-level-rx-links>
      <low-level-rx-links>
        <name>rx-link-2</name>
        <processing-element>ru-element-1</processing-element>
        <rx-array-carrier>rx-cc0</rx-array-carrier>
        <low-level-rx-endpoint>rx-endpoint-2</low-level-rx-endpoint>
      </low-level-rx-links>
      <low-level-rx-links>
        <name>rx-link-3</name>
```

```

    <processing-element>ru-element-1</processing-element>
    <rx-array-carrier>rx-cc0</rx-array-carrier>
    <low-level-rx-endpoint>rx-endpoint-3</low-level-rx-endpoint>
</low-level-rx-links>
<low-level-rx-links>
  <name>rx-link-4</name>
  <processing-element>ru-element-1</processing-element>
  <rx-array-carrier>rx-cc0</rx-array-carrier>
  <low-level-rx-endpoint>rx-endpoint-4</low-level-rx-endpoint>
</low-level-rx-links>
</user-plane-configuration>
  </config>
</edit-config>
</rpc>

```

2025-08-19 22:45:06,763 DEBUG Received message:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
  <eventTime>2025-08-19T14:45:07.846007795+00:00</eventTime>
```

```
  <netconf-config-change
```

```
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
```

```
  <changed-by>
```

```
    <username>root</username>
```

```
    <session-id>0</session-id>
```

```
  </changed-by>
```

```
  <datastore>running</datastore>
```

```
  <edit>
```

```
    <target
```

```
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-configuration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-endpoint-1']</target>
```

```
    <operation>create</operation>
```

```
  </edit>
```

```
  <edit>
```

```
    <target
```

```
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-configuration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-endpoint-1']/o-ran-uplane-conf:name</target>
```

```
    <operation>create</operation>
```

```
  </edit>
```

```
  <edit>
```

```
    <target
```

```
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-configuration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-endpoint-1']/o-ran-uplane-conf:compression</target>
```

```
    <operation>create</operation>
```

```
  </edit>
```

```
  <edit>
```

```
    <target
```

```
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-configuration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
```

```

dpoint-1']/o-ran-uplane-conf:compression/o-ran-uplane-conf:iq-bitwidth</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
dpoint-1']/o-ran-uplane-conf:compression/o-ran-uplane-conf:compression-type</target
>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
dpoint-1']/o-ran-uplane-conf:compression/o-ran-uplane-conf:compression-method</targ
et>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
dpoint-1']/o-ran-uplane-conf:frame-structure</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
dpoint-1']/o-ran-uplane-conf:cp-type</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-endpoints[o-ran-uplane-conf:name='tx-en
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```

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```



```
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
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  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-endpoints[o-ran-uplane-conf:name='rx-en
dpoint-4']/o-ran-uplane-conf:e-axcid/o-ran-uplane-conf:ru-port-bitmask</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-endpoints[o-ran-uplane-conf:name='rx-en
dpoint-4']/o-ran-uplane-conf:e-axcid/o-ran-uplane-conf:eaxc-id</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-endpoints[o-ran-uplane-conf:name='rx-en
dpoint-4']/o-ran-uplane-conf:non-time-managed-delay-enabled</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-endpoints[o-ran-uplane-conf:name='rx-en
dpoint-4']/o-ran-uplane-conf:center-from-freqoffset-enabled</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-endpoints[o-ran-uplane-conf:name='rx-en
dpoint-4']/o-ran-uplane-conf:combination-configuration</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']</
target>
  <operation>create</operation>
</edit>
```

```
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:name</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:center-of-channel-bandwidth</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:channel-bandwidth</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:active</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:occupied-bandwidth</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:gain</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:downlink-radio-frame-offset</target>
  <operation>create</operation>
</edit>
<edit>
```

```
    <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:downlink-sfn-offset</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']</
target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:name</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:center-of-channel-bandwidth</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:channel-bandwidth</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:active</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:occupied-bandwidth</target>
    <operation>create</operation>
  </edit>
<edit>
  <target
```

```

xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:downlink-radio-frame-offset</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:downlink-sfn-offset</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:gain-correction</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:n-ta-offset</target>
  <operation>create</operation>
</edit>
</netconf-config-change>
</notification>

```

2025-08-19 22:45:06,763 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
'urn:o-ran:fm:1.0'}alarm-notif': None}
```

2025-08-19 22:45:06,764 DEBUG Ignoring unwanted notification

```
{urn:ietf:params:xml:ns:yang:ietf-netconf-notifications}netconf-config-change
```

2025-08-19 22:45:06,911 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="13">
```

```
<ok/>
```

```
</rpc-reply>
```

2025-08-19 22:45:06,912 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 13

2025-08-19 22:45:06,923 SUCCESS user-plane-conf: eaxc-id and carriers linked

2025-08-19 22:45:06,925 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 14

2025-08-19 22:45:06,926 DEBUG Sending message (598):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="14">
```

```
<edit-config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
<target>
```

```
<running/>
```

```
</target>
```

```

        <default-operation>merge</default-operation>
        <config>
            <user-plane-configuration
xmlns="urn:o-ran:uplane-conf:1.0"><tx-array-carriers>
            <name>tx-cc0</name>
            <active>ACTIVE</active>
        </tx-array-carriers>
        <rx-array-carriers>
            <name>rx-cc0</name>
            <active>ACTIVE</active>
        </rx-array-carriers>
    </user-plane-configuration>
    </config>
</edit-config>
</rpc>

```

2025-08-19 22:45:06,927 DEBUG Received message:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <eventTime>2025-08-19T14:45:08.072203527+00:00</eventTime>
    <netconf-config-change

```

```

xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">

```

```

    <changed-by>
        <username>root</username>
        <session-id>0</session-id>
    </changed-by>
    <datastore>running</datastore>
    <edit>
        <target

```

```

xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-1
']</target>

```

```

        <operation>create</operation>
    </edit>
</edit>
    <target

```

```

xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-1
']/o-ran-uplane-conf:name</target>

```

```

        <operation>create</operation>
    </edit>
</edit>
    <target

```

```

xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-1
']/o-ran-uplane-conf:processing-element</target>

```

```

        <operation>create</operation>
    </edit>
</edit>
    <target

```

```

xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c

```

```

onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-1
']/o-ran-uplane-conf:tx-array-carrier</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-1
']/o-ran-uplane-conf:low-level-tx-endpoint</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-2
']</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-2
']/o-ran-uplane-conf:name</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-2
']/o-ran-uplane-conf:processing-element</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-2
']/o-ran-uplane-conf:tx-array-carrier</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-tx-links[o-ran-uplane-conf:name='tx-link-2
']/o-ran-uplane-conf:low-level-tx-endpoint</target>
  <operation>create</operation>
</edit>
<edit>
  <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-1

```



```

        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-2
']/o-ran-uplane-conf:rx-array-carrier</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-2
']/o-ran-uplane-conf:low-level-rx-endpoint</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-3
']</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-3
']/o-ran-uplane-conf:name</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-3
']/o-ran-uplane-conf:processing-element</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-3
']/o-ran-uplane-conf:rx-array-carrier</target>
        <operation>create</operation>
    </edit>
    <edit>
        <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-3
']/o-ran-uplane-conf:low-level-rx-endpoint</target>
        <operation>create</operation>

```

```

    </edit>
    <edit>
      <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-4
']</target>
      <operation>create</operation>
    </edit>
    <edit>
      <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-4
']/o-ran-uplane-conf:name</target>
      <operation>create</operation>
    </edit>
    <edit>
      <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-4
']/o-ran-uplane-conf:processing-element</target>
      <operation>create</operation>
    </edit>
    <edit>
      <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-4
']/o-ran-uplane-conf:rx-array-carrier</target>
      <operation>create</operation>
    </edit>
    <edit>
      <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>/o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:low-level-rx-links[o-ran-uplane-conf:name='rx-link-4
']/o-ran-uplane-conf:low-level-rx-endpoint</target>
      <operation>create</operation>
    </edit>
  </netconf-config-change>
</notification>

```

2025-08-19 22:45:06,927 DEBUG Notification out list :

```

{'{urn:o-ran:supervision:1.0}supervision-notification': None,
'{urn:o-ran:fm:1.0}alarm-notif': None,
'{urn:o-ran:uplane-conf:1.0}tx-array-carriers-state-change': None,
'{urn:o-ran:uplane-conf:1.0}rx-array-carriers-state-change': None}

```

2025-08-19 22:45:06,927 DEBUG Ignoring unwanted notification

```
{urn:ietf:params:xml:ns:yang:ietf-netconf-notifications}netconf-config-change
```

2025-08-19 22:45:06,976 DEBUG Received message:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:08.112338128+00:00</eventTime>
  <netconf-config-change

```

```
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-notifications">
  <changed-by>
    <username>root</username>
    <session-id>0</session-id>
  </changed-by>
  <datastore>running</datastore>
  <edit>
    <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:tx-array-carriers[o-ran-uplane-conf:name='tx-cc0']/o
-ran-uplane-conf:active</target>
    <operation>replace</operation>
  </edit>
  <edit>
    <target
xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"/>o-ran-uplane-conf:user-plane-c
onfiguration/o-ran-uplane-conf:rx-array-carriers[o-ran-uplane-conf:name='rx-cc0']/o
-ran-uplane-conf:active</target>
    <operation>replace</operation>
  </edit>
</netconf-config-change>
</notification>
```

```
2025-08-19 22:45:06,977 DEBUG Notification out list :
  {'{urn:o-ran:supervision:1.0}supervision-notification': None,
 '{urn:o-ran:fm:1.0}alarm-notif': None,
 '{urn:o-ran:uplane-conf:1.0}tx-array-carriers-state-change': None,
 '{urn:o-ran:uplane-conf:1.0}rx-array-carriers-state-change': None}
2025-08-19 22:45:06,977 DEBUG Ignoring unwanted notification
{urn:ietf:params:xml:ns:yang:ietf-netconf-notifications}netconf-config-change
2025-08-19 22:45:06,977 DEBUG Received message:
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="14">
  <ok/>
</rpc-reply>
```

```
2025-08-19 22:45:06,977 DEBUG NetconfClientSession(sid:1): Received rpc-reply
message-id: 14
2025-08-19 22:45:06,988 INFO The received sync state from the RU is LOCKED
2025-08-19 22:45:06,988 DEBUG NetconfClientSession(sid:1): Sending RPC message-id:
15
2025-08-19 22:45:06,988 DEBUG Sending message (358):
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="15">
  <get xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <filter xmlns:o-ran-uplane-conf="urn:o-ran:uplane-conf:1.0"
type="xpath" select="/o-ran-uplane-conf:*//."/>
    <with-defaults
xmlns="urn:ietf:params:xml:ns:yang:ietf-netconf-with-defaults">report-all</with-def
aults>
  </get>
</rpc>
```

2025-08-19 22:45:07,152 DEBUG Received message:

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="15">

<data>

<user-plane-configuration xmlns="urn:o-ran:uplane-conf:1.0">

<low-level-tx-links>

<name>tx-link-1</name>

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```
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        <polarisation>ZERO</polarisation>
    </polarisations>
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</rx-arrays>
```

```

<rx-arrays>
  <name>rx1</name>
  <number-of-rows>1</number-of-rows>
  <number-of-columns>1</number-of-columns>
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    <p>1</p>
    <polarisation>ZERO</polarisation>
  </polarisations>
  <band-number>48</band-number>
  <related-o-ru-connectors>
    <name>c1</name>
    <array-element-id>1</array-element-id>
  </related-o-ru-connectors>
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```

```
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</capabilities>
```

```

    </supported-filter-pass-bandwidths-ul>
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<capabilities/>
</rx-arrays>
</user-plane-configuration>
</data>
</rpc-reply>

```

2025-08-19 22:45:07,153 DEBUG NetconfClientSession(sid:1): Received rpc-reply message-id: 15

2025-08-19 22:45:07,174 INFO Wait for 60 seconds

2025-08-19 22:45:07,815 DEBUG Received message:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:08.927135968+00:00</eventTime>
  <rx-array-carriers-state-change xmlns="urn:o-ran:uplane-conf:1.0">
    <rx-array-carriers>
      <name>rx-cc0</name>
      <state>BUSY</state>
    </rx-array-carriers>
  </rx-array-carriers-state-change>
</notification>

```

```
</rx-array-carriers>
</rx-array-carriers-state-change>
</notification>
```

2025-08-19 22:45:07,816 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
{'urn:o-ran:fm:1.0'}alarm-notif': None,
{'urn:o-ran:uplane-conf:1.0'}tx-array-carriers-state-change': None,
{'urn:o-ran:uplane-conf:1.0'}rx-array-carriers-state-change': None}
```

2025-08-19 22:45:07,816 DEBUG NetconfClientSession(sid:1): Received notification :

```
{urn:o-ran:uplane-conf:1.0}rx-array-carriers-state-change
```

2025-08-19 22:45:07,816 INFO State 'BUSY' received for rx carriers {'rx-cc0'}

2025-08-19 22:45:07,928 DEBUG Received message:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:09.040472831+00:00</eventTime>
  <tx-array-carriers-state-change xmlns="urn:o-ran:uplane-conf:1.0">
    <tx-array-carriers>
      <name>tx-cc0</name>
      <state>BUSY</state>
    </tx-array-carriers>
  </tx-array-carriers-state-change>
</notification>
```

2025-08-19 22:45:07,928 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
{'urn:o-ran:fm:1.0'}alarm-notif': None,
{'urn:o-ran:uplane-conf:1.0'}tx-array-carriers-state-change': None,
{'urn:o-ran:uplane-conf:1.0'}rx-array-carriers-state-change': None}
```

2025-08-19 22:45:07,928 DEBUG NetconfClientSession(sid:1): Received notification :

```
{urn:o-ran:uplane-conf:1.0}tx-array-carriers-state-change
```

2025-08-19 22:45:07,929 INFO State 'BUSY' received for tx carriers {'tx-cc0'}

2025-08-19 22:45:20,716 DEBUG Received message:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:21.828947256+00:00</eventTime>
  <rx-array-carriers-state-change xmlns="urn:o-ran:uplane-conf:1.0">
    <rx-array-carriers>
      <name>rx-cc0</name>
      <state>READY</state>
    </rx-array-carriers>
  </rx-array-carriers-state-change>
</notification>
```

2025-08-19 22:45:20,716 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
{'urn:o-ran:fm:1.0'}alarm-notif': None,
{'urn:o-ran:uplane-conf:1.0'}rx-array-carriers-state-change': None,
{'urn:o-ran:uplane-conf:1.0'}tx-array-carriers-state-change': None}
```

2025-08-19 22:45:20,716 DEBUG NetconfClientSession(sid:1): Received notification :

```
{urn:o-ran:uplane-conf:1.0}rx-array-carriers-state-change
```

2025-08-19 22:45:20,717 INFO State 'READY' received for rx carriers {'rx-cc0'}

2025-08-19 22:45:20,717 SUCCESS user-plane-conf: activated all rx exac-id linked carriers.

2025-08-19 22:45:27,032 DEBUG Received message:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:45:28.145241409+00:00</eventTime>
  <tx-array-carriers-state-change xmlns="urn:o-ran:uplane-conf:1.0">
    <tx-array-carriers>
      <name>tx-cc0</name>
      <state>READY</state>
    </tx-array-carriers>
  </tx-array-carriers-state-change>
</notification>
```

2025-08-19 22:45:27,032 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
{'urn:o-ran:fm:1.0'}alarm-notif': None,
{'urn:o-ran:uplane-conf:1.0'}tx-array-carriers-state-change': None}
```

2025-08-19 22:45:27,032 DEBUG NetconfClientSession(sid:1): Received notification : {urn:o-ran:uplane-conf:1.0}tx-array-carriers-state-change

2025-08-19 22:45:27,033 INFO State 'READY' received for tx carriers {'tx-cc0'}

2025-08-19 22:45:27,033 SUCCESS user-plane-conf: activated all tx exac-id linked carriers.

2025-08-19 22:46:05,723 DEBUG Received message:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2025-08-19T14:46:06.837553162+00:00</eventTime>
  <supervision-notification xmlns="urn:o-ran:supervision:1.0"/>
</notification>
```

2025-08-19 22:46:05,723 DEBUG Notification out list :

```
{'urn:o-ran:supervision:1.0'}supervision-notification': None,
{'urn:o-ran:fm:1.0'}alarm-notif': None}
```

2025-08-19 22:46:05,723 DEBUG NetconfClientSession(sid:1): Received notification : {urn:o-ran:supervision:1.0}supervision-notification

2025-08-19 22:46:05,725 INFO Supervision Notification received

2025-08-19 22:46:05,725 DEBUG NetconfClientSession(sid:1): Sending RPC message-id: 16

2025-08-19 22:46:05,725 DEBUG Sending message (314):

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="16">
  <supervision-watchdog-reset xmlns="urn:o-ran:supervision:1.0">
    <supervision-notification-interval>60</supervision-notification-interval>
    <guard-timer-overhead>10</guard-timer-overhead>
  </supervision-watchdog-reset>
</rpc>
```

2025-08-19 22:46:05,778 DEBUG Received message:

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="16">
```

```
  <next-update-at
```

```
xmlns="urn:o-ran:supervision:1.0">2025-08-19T14:47:06.891764854+00:00</next-update-at>
```

```
</rpc-reply>
```

```
2025-08-19 22:46:05,778 DEBUG NetconfClientSession(sid:1): Received rpc-reply
message-id: 16
2025-08-19 22:46:05,779 INFO Waiting for Supervision Notification
{urn:o-ran:supervision:1.0}supervision-notification
2025-08-19 22:46:07,175 DEBUG NetconfClientSession(sid:1): Sending RPC message-id:
17
2025-08-19 22:46:07,175 DEBUG Sending message (144):
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="17">
  <close-session xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"/>
</rpc>

2025-08-19 22:46:07,226 DEBUG Received message:
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="17">
  <ok/>
</rpc-reply>

2025-08-19 22:46:07,226 DEBUG NetconfClientSession(sid:1): Received rpc-reply
message-id: 17
2025-08-19 22:46:07,227 INFO QUERY PROCESS NOTIFICATION - The mplane client had
processed all the query
2025-08-19 22:47:15,872 FAIL Supervision timer expired closing connection.
2025-08-19 22:47:15,872 DEBUG NetconfClientSession(sid:1): Closing session.
2025-08-19 22:47:15,872 DEBUG NetconfClientSession(sid:1): Closing.
2025-08-19 22:47:15,872 DEBUG NetconfClientSession(sid:None): Closing transport.
2025-08-19 22:47:15,872 DEBUG Closing netconf socket stream
<sshutil.conn.SSHClientSession object at 0x0000013A4AC4EF70>
2025-08-19 22:47:15,872 DEBUG Closing SSH channel on socket (['10.20.1.1']:4334)
2025-08-19 22:47:15,872 DEBUG [chan 0] EOF sent (0)
2025-08-19 22:47:15,872 DEBUG Channel closed: stream is None
2025-08-19 22:47:15,873 DEBUG NetconfClientSession(sid:None): Session channel
closed [session_open == False]: <netconf.base.NetconfFramingTransport object at
0x0000013A4AC548E0>
2025-08-19 22:47:15,873 DEBUG NetconfClientSession(sid:None): Closing session.
2025-08-19 22:47:15,873 DEBUG Setting up timer to release ssh socket:
<paramiko.Transport at 0x4ac4eac0 (cipher aes128-ctr, 128 bits) (active; 1 open
channel(s))>
2025-08-19 22:47:15,873 DEBUG NetconfClientSession(sid:None): Closing.
2025-08-19 22:47:15,873 DEBUG NetconfClientSession(sid:None): Closed: None
2025-08-19 22:47:15,873 DEBUG NetconfClientSession(sid:None): Closed: None
2025-08-19 22:47:15,874 DEBUG NetconfClientSession(sid:None): Reader thread exited
notifying all.
2025-08-19 22:47:15,874 INFO Session closed while waiting for alarm notification.
2025-08-19 22:47:16,267 DEBUG EOF in transport thread
```