

Use case driven YANG modules for O-DU

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Scope

The page will discuss and document the necessary yang modules to be supported by O-DU to ensure the end-to-end functionality of the D-Release use case "Closed loop".

As O-RAN alliance does not provide solid yang models yet, other data models needs to be defined or selected.

Decisions

In SMO project call on 2021-03-04 it was decided to create a yang modules for O-RAN-SC DU with a minimum parameter set supporting the D-Release Closed loop use case.

The initial idea of a configuration for the O-DU NetConf client is rejected, because in D-Release there wont be a NetConf client implemented on O-DU.

The [prototype yang models from B-Release](#) wont be enhanced.

RSAC 2021-04-08

Please see comment in [ODUHGH-322](#) - Getting issue details... STATUS and related [gerrit review](#).

D-Release YANG model for O-DU

Please see [attached hello-world yang](#) for D-Release.

```
module: o-ran-sc-du-hello-world
+--rw network-function
+--rw du-to-ru-connection* [name]
+--rw name string
+--ro operational-state? enumeration
+--rw administrative-state? enumeration
+--ro cell-state? enumeration
+--ro status? connection-status

rpcs: // comment: both RPCs are marked as deprecated
      // its function is covered by administrative-state.
x--x connect
| +--w input
| | +--w remote-network-function o-ru-reference
| +--ro output
| +--ro response-status enumeration
| +--ro message? string
x--x disconnect
+--w input
| +--w remote-network-function o-ru-reference
+--ro output
+--ro response-status enumeration
+--ro message? string
```