



Device Network Management

Current Status & Future Direction

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29th Nov 2024

Current Status:

Device management *protocols* are *mostly* good enough

Future Direction

a bit
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Make what we already have better

Minimize unnecessary complexity

The work is complete not when there is nothing more to add,
but when there is nothing else that can be taken away

Timely solutions

Solving 90% in 1 year is better than solving 120% in 5+ years

Full open engagement

All implementors (vendors & operators) must work together

Simplify where we can

E.g., JSON is simpler than XML

Running code is simpler than RFCs

Open-source code alongside stable specifications is best

Ideally, align on one model/protocol ecosystem rather than two

IETF Future Steps

Continue improving operator engagement:

- Focus on solving near term improvements for operators

Focus on smaller, timely, improvements:

- YANG Push Lite – simpler version of YANG Push
- Evolve YANG language, v2, but as a smaller update
- Define, simple NETCONF v2 vs (YANG + JSON/CBOR)
- Manage IETF YANG models as code/APIs (not RFCs)