

# Automated Commissioning

|                 |                         |
|-----------------|-------------------------|
| Target release  | 5th PoC                 |
| Theme           | Automated Commissioning |
| Document status | DRAFT                   |
| Document owner  | Thorsten Heinze         |
| Designer        |                         |
| Developers      |                         |
| QA              |                         |

## Background and strategic fit

Discussion held in WTP call on 25/4/2018:

- Several vendors and operators expressed interest in having such use case in the 5<sup>th</sup> PoC (no formal decision made)
- Vendors do neither individual no operator specific pre-configurations before shipping the devices
- There is a unique serial number imprinted on every device
- Identification of the hardware could also be made by MAC address of the management port
- Automated Commissioning must be done via management port, because user plane ports are not available in initial state
- Exchanging public keys instead of username/password would be preferred
- The device will accept valid certificates of every owner in the initial state
- The device needs to be configured to accept only certificates of the operator, who is owning it

## Phase Approach

Discussion held in DMIP call on 2/8/2018:

Because of the complexity of the overall process, it has been decided to subdivide into several phases and Use Cases.

| No. | Content   | Use Case          | TR-545 |
|-----|---|-------------------|--------|
| 1   | Connecting to IP Network                        | DHCP              | Yes    |
| 2   | Connecting to SDN Controller                    | Netconf Call Home | Yes    |
| 3   | Device Authentication                           | to be defined     | No     |
| 4   | Communication Authentication                    | to be defined     | No     |
| 5   | Network Element Identification                  | to be defined     | No     |
| 6   | Basic Configuration by Commissioning Controller | to be defined     | -      |
| 7   | Live Network Configuration                      | to be defined     | -      |

### 1) Connecting to IP Network

Use Case proposal provided by Thorsten Heinze on 13/08/2018

[180809 Use Case AC1 DHCP.docx](#)

### 2) Connecting to SDN Controller

Use Case proposal provided by Thorsten Heinze on 13/08/2018

