









1 Customer needs

2 Design

**4** Placement preparations 5 Construction

6 Placement

7 After sales

Sales teams/ country teams define the PoP needs together with the customer based on: the Construction Components

CAB designs a digital twin based on the customer's needs and requirements

Sales teams sell the PoP to customers based on the cost price, BOM, input CAB, specs and twin

3 Sales

Is the customer's responsibility. Netceed can advise on this where possible (country teams); Complete checklist/site survey together.

Clean order doc: We deliver to the customer after the PO order has been placed with Netceed. The customer provides all the information that Netceed needs to install the PoP.

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The foundation will be constructed and the PoP will be installed in one or two davs (Country teams) resolve remaining issues, IBS PoP. IBS docs (Commissioning); After installation and power connection, Netceed takes care of the commissioning of the UPS, among other things We ultimately delive these completed documents to the customer.

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It all starts with the network requirements



# A modular approach to meet each demand

Cooling



ODF-Rack

configuration





UPS





Power

System



Monitoring,

Housing Access & Control





Compact cooling system (≤16kW)



Noise level (≤30 dBa)



**Thermal Insulation** system



Cable basement and raised floor (PoP only)



9

Fiber

configuration

PoP









Based on the requirements, the network topology and the business case, the Change Advisory Board provides a detailed specification document with digital twins of the offered POP solutions. The sales team will then provide a turnkey offer, including transport & placement and optional services.





tiles, bricks)?		Ground Level
	Should shrubs or other greenery be removed? (consider the reach of the crane)	What is the required ground level height?
Customer journey PoP		

**Transport Route from Border** 







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needs

2 Design

Points to consider when researching a Point of Presence (PoP) location

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5 Construction

6 Placement

7 After sales

needs

#### 1. Internal FAT

The Intere Factory Acceptance Test is in principle carried out by Netceed 2 weeks before actual placement. Netceed inspects the PoP itself and has the remaining points identified immediately addressed.

#### 2. External FAT

Netceed will pass on the data to the WP3 party, the network administrator, I week before the actual placement. the network administrator informs Netceed when they will carry out the external FAT During the External FAT, an Netceed employee accompanies the network administrator inspector.

Business office Netceed PoPs placement dates confirmation of productionready PoPs



The network administrator - tester • approves the PoP



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#### 4. Reporting FAT points

Construction

WP3 party, the network administrator, sends a FAT report to the contractor, Network owner/client (PM) and Netceed. This report contains all outstanding remaining issues (RFI olocking issues and non-RFI blocking issues).

6 Placement

The identified residual points that came to light during the external FAT, which were resolved by Netceed before preparing the report and communicated to the network administrator, are not mentioned in the report

Development points that go through the RFC process and have not yet been agreed with the design board (Network owner/client) are not included in the reporting.

The outstanding remaining points are placed by Netceed in the Odoo ticket system. A maximum of two tickets are created per PoP • For non-RFI blocking issues points (see also point 15)

 for RFI blocking issues points (see also point 16)

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#### 5. Placement

The installation is provided by Netceed. WP3 party the network administrator is present during the installation for the Site Acceptance Test (SAT). This tests whether:

- The door direction is facing correctly,
- The PoP has been set to the correct height,
- The PoP is level,
- Whether there was any damage to the outside during transport/installation.

The ring tubes are pulled out of the PoP by Netceed. After this, both ring entries are sealed by Netceed. Photos of this seal will be shared by Netceed with the contractor within one week.

After installation, the PoP is the property of the contractor.

#### 6. Grounding

The earth pin is ideally driven in the same week as the week of installation. This cab be coordinated by Netceed, the WPT3 party or the customer/ contractor.

#### 7. Power connection

The power request can be taken care of by Netceed, the contractor or network customer. The power connection is important for the remainder of the process; inspection of the electrical installation/commissioning of the UPS -> RFI moment. In order for all follow-up actions to proceed as planned, the power connection must be provided at least 5 weeks before RFI.

If necessary, a generator will be installed. The earth pin must always be in place and a second inspection of the electrical installation will have to be carried out in the future.

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carried out by Netceed no later than 3 weeks before RFI. The following items are tested/checked:

- Installation values of the batteries
- Rejection values of the batteries

Netceed will report in writing by email within three working days whether the IBS commissioning has been successful. The cooling commissioning is carried out at the same time as the UPS IBS.

Netceed will provide the official commissioning report to the contractor within 5 working days after commissioning the UPS and cooling. The RFI test is requested by the contractor from WP3 party, the network administrator.



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#### 13. RFI inspection

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The RFI test is provided by WP3 party, the network administrator. The PoP must meet the following requirements;

- Double-sided measured backbone (OTDR),
- Electricity must be connected according to NEN1010 (demands electrical installation),
- PoP must comply with PVE,
- The cooling and UPS must be commissioned,
- PoP must be clean,
- PoP must be easily accessible.

the inspection is successful, the PoP RFI ill be issued. Network owner/client and

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- PoP must be easily accessible.

If the inspection is successful, the PoP RFI will be issued. Network owner/client and <u>Netceed are hereby informed by WP3 party.</u>









• Labeling in the POP; distribution

wk 0



# Thank you for watching Any questions?

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