



NETWORK DESIGN QUESTIONNAIRE

Version 1.4 14-4-2018

Niveo Professional™ is a registered trademark of Netstar Products BV.
Netstar Products BV | Communicatieweg 9L, NL3641SG, Mijdrecht, The Netherlands |
☎ +31 (0) 297 256161 | ✉ info@niveoprofessional.com | 🌐 www.niveoprofessional.com

All rights reserved Netstar Products BV 2018



Scoping of the network

General questions

- ⌈⌈ What type of organization is requiring the network?

- ⌈⌈ Is the network part of the primary process? Is revenue going to be generated by this network?

- ⌈⌈ Is there a floor plan available?
- ⌈⌈ Is there a base network design available?
- ⌈⌈ Who is responsible for design and implementation?
- ⌈⌈ How is service and maintenance intended after installation?

What processes will run over the network? Which of these services require segmentation?

- ⌈⌈ Internet access?
- ⌈⌈ Guest internet Access?
- ⌈⌈ POS systems?
- ⌈⌈ Business servers?
- ⌈⌈ Security cameras?
- ⌈⌈ Physical access?
- ⌈⌈ Web cams?
- ⌈⌈ Video over IP? What Brand?
- ⌈⌈ Audio distribution?
 - Dante?
 - AVB?
 - Q-SYS?
- ⌈⌈ Digital signage?
- ⌈⌈ Building Automation?
- ⌈⌈ Control systems? What brand?
- ⌈⌈ Lighting Control? What brand?
- ⌈⌈ Conferencing Systems? Telepresence?
- ⌈⌈ IP-Telephony?
- ⌈⌈ Does the network need to be scalable for future extension and speeds?

Physical infrastructure

- ⌈⌈ Is this project Green field or retrofit?
- ⌈⌈ Is in house cabling part of the scope?
- ⌈⌈ Is there a single Main Equipment Room or are there other Equipment rooms as well?
 - What is the distance between these rooms?
 - What is the required bandwidth between these rooms?



- ⌘ What is the longest run of cable in the building, including runs through walls, floors and ceilings?
- ⌘ What cabling is requested/available:
- ⌘ Copper: Cat 5/5E/6/6A; Shielded/non shielded?
- ⌘ Fibre: Single-mode/multi-mode; ohm 3/4?
- ⌘ Does the infrastructure need to be designed for future expansion or bandwidth?

Will there be business servers installed in the network? If so, what type?

Will there be data storage on the network? If so, what type? SAN? DAS? NAS?

- ⌘ Will data storage be part of the scope?

Scaling of the project:

- ⌘ How many nodes?
- ⌘ How many simultaneous users?
 - Employees? Including BYOD, Laptops, tablets etc
 - Visitors? Including BYOD, Laptops, tablets etc
- ⌘ How many hard-wired connections to the network are needed?
 - For workstations?
 - For IP Phones?
 - for cameras?
 - POS stations?
 - Video? Audio?
 - Building Automation?
- ⌘ How many wireless connections to the network are needed?
 - For Employees? Including workstations, Laptops, Tablets, BYOD?
 - Visitors? Including BYOD, Laptops, tablets etc
 - WIFI camera's?
 - Light control?
 - Building Control?

Power over Ethernet:

- ⌘ How many devices require POE-power?
- ⌘ What type of devices are being powered with POE?
- ⌘ What is their power consumption?
- ⌘ What is the total power budget required
- ⌘ What level of cooling is available in the equipment rooms?

WAN connections:

- ⌘ How many internet connections are there to the building? What speeds?
- ⌘ What level of availability is required? Failover/backup required? Dual routed? Dual homed?
- ⌘ What services run over the internet connection?
 - Branch office connections?
 - Remote access?



- Security services?
- POS/ERP synchronisation?
- Video/Audio streaming?
- Web access?
- ☒ What level of security is required? Firewall, Encryption? VPN tunnelling?
- ☒ Is remote management needed of certain systems? Which?