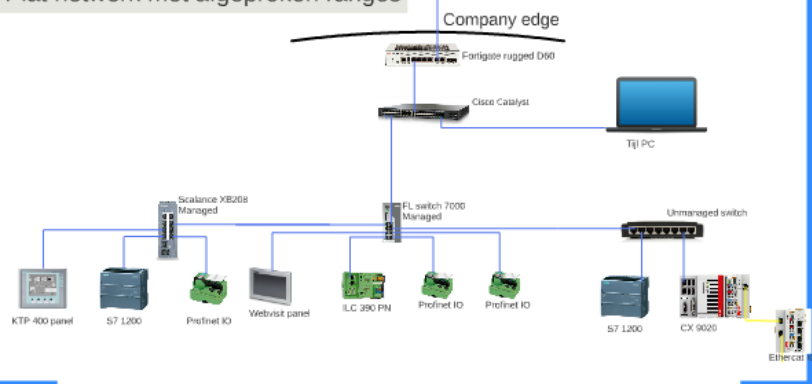


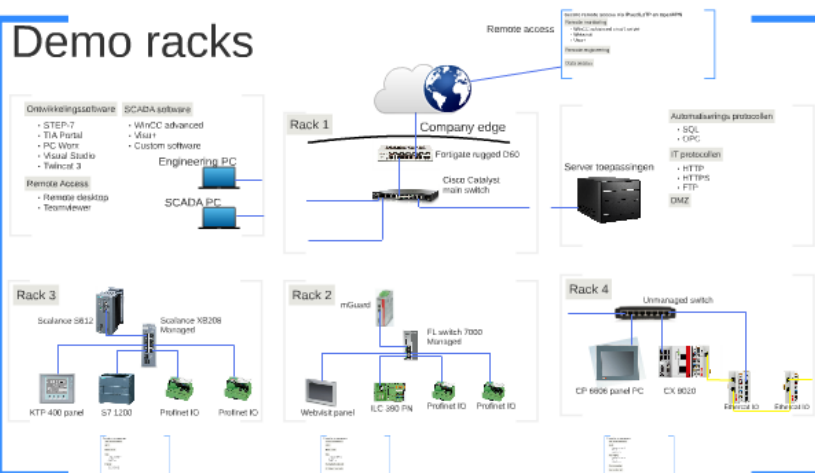
Voorbeeld scenario

Plat netwerk met afgeproken ranges



Vragen en opmerkingen?

Demo racks



Input

Overzicht van bestaande ethernet gebaseerde technologieën en hardware

- Automatiseringscomponenten (WP 1.1, WP1.2)
- Beveiligingscomponenten (WP 2)

Doelstellingen

Handige toolkit voor security awareness sessie

- Demonstratie van zwaktes op bestaande systemen (WP 4.1)

Cases en toepassingen uitwerken en demonstreren op maat van bedrijven

- Plug and play: vereenvoudiging van hun netwerk nabouwen
- Beveiligingsconcepten uitwerken (WP 4.2)

Demo racks

Ontwikkelingssoftware

- STEP-7
- TIA Portal
- PC Worx
- Visual Studio
- TwinCAT 3

Remote Access

- Remote desktop
- Teamviewer

SCADA software

- WinCC advanced
- Visu+
- Custom software

Engineering PC



SCADA PC



Remote access

Secure remote access via IPsec/L2TP en OpenVPN

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- Data access

Rack 1



Company edge



Fortigate rugged D60



Cisco Catalyst main switch

Automatiserings protocollen

- SQL
- OPC

IT protocollen

- HTTP
- HTTPS
- FTP

DMZ

Server toepassingen



Rack 3

Scalance S612



Scalance XB208 Managed



KTP 400 panel



S7 1200



Profinet IO



Profinet IO

Rack 2

mGuard



FL switch 7000 Managed



Webvisit panel



ILC 390 PN



Profinet IO



Profinet IO

Rack 4

Unmanaged switch



CP 6606 panel PC



CX 9020



Ethercat IO



Ethercat IO

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Profinet IO

Protocollen en toepassingen

TCP/IP communicatie

OPC

Modbus TCP

SQL

- binnen 1 netwerk
- via NAT
- door firewall

Profinet met IO devices

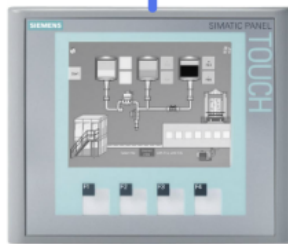
HTTP voor visualisatie

Rack 3

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Scalance XB208 Managed



KTP 400 panel



S7 1200



Profinet IO



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Protocollen en toepassingen

TCP/IP communicatie

OPC

Modbus TCP

SQL

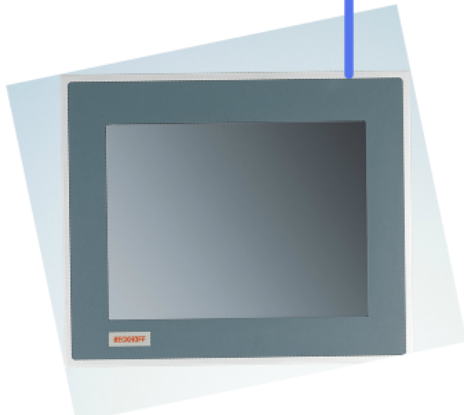
- binnen 1 netwerk
- via NAT
- door firewall

Profinet

- met IO devices
- voor visualisatie

Rack 4

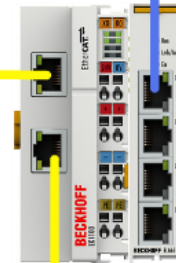
Unmanaged switch



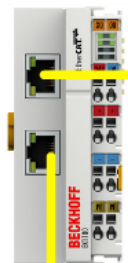
CP 6606 panel PC



CX 9020



Ethercat IO



Ethercat IO

Protocollen en toepassingen

TCP/IP over switchport

ADS

- Binnen 1 netwerk
- Via NAT
- Door firewall

SQL logging

- Binnen 1 netwerk
- Via NAT
- Door firewall

Remote desktop

Twincat PLC HMI

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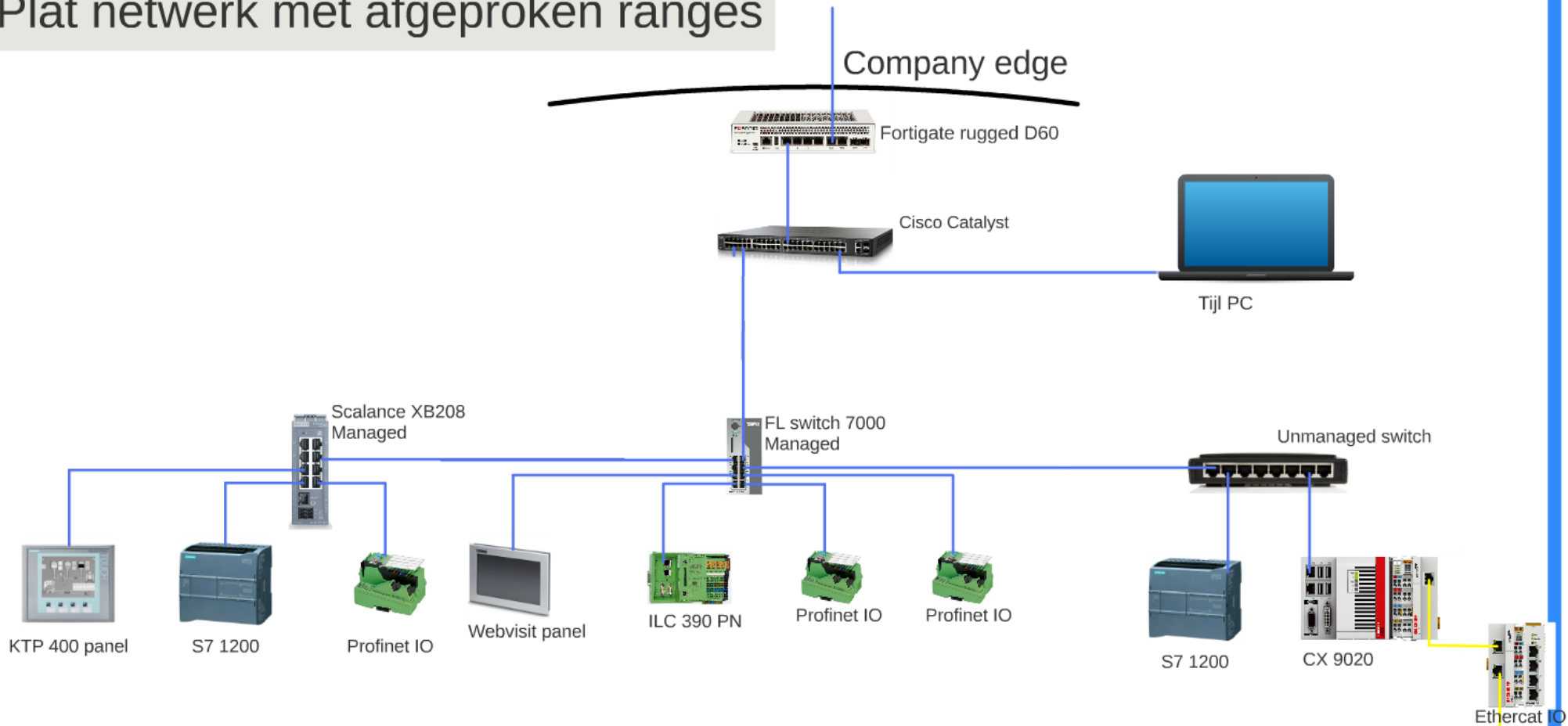
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