XPTO's NETWORK PLAN

NEWS

Company site in Porto
3 floor building in Aveiro
Datacenter escalation
Inter-site comm. tunnel

ARQUITECTURE

Tree + Mesh Topology
IPv4 & IPv6 support
OSPF & RIP support
VLAN based
SNAT configured

QoS & SECURITY

Demilitarized Zone included
Secure comm. Tunnel
DiffServ implemented

REFERENCES

● Prof. António Nogueira, "AGR: First Project"
● John Kerns, "Network Diagrams Documentation"

Network Diagram Labels

INTERNET
0.0.0.0/0

Second Branch (Porto)
Porto GW 2
172.29.20.0/24
IPSec VPN
193.10.21.0/24
172.29.30.0/24
Porto Core
172.29.10.0/24
IPSec VPN
193.10.11.0/24
Porto GW 1

ISP 1
ISP 2
IPSec VPN
193.10.10.0/24
193.10.20.0/24
IPSec VPN

Wi-Fi
VLAN 573
172.30.100.0/14

First Branch - New Building (Aveiro)

DMZ
Area 72
DMZ
VLAN 515
172.30.15.0/24
VLAN 572
193.1.1.96/27
VLAN 505
172.30.5.0/24

Area 0
Aveiro GW 1   Aveiro GW 2
172.30.30.0/24
172.30.10.0/24
172.30.50.0/24
172.30.40.0/24
172.30.20.0/24
Core 1   172.30.60.0/24   Core 2

New Datacenter
Area 71
NewDatacenter
VLAN 504
172.30.4.0/24
VLAN 514
172.30.14.0/24
VLAN 571
193.1.1.64/27
Management Archive
Scientific Archive
Data Processing
Public Services

VLAN 503
172.30.3.0/24
VLAN 502
172.30.2.0/24
VLAN 513
172.30.13.0/24
VLAN 512
172.30.12.0/24

Area 100
New 1   New 2
VLANs 561,562,563,564
193.1.1.0/26
Production
Sales and Client Supp
R&D and Admin

VLAN 501
172.30.1.0/24
VLAN 511
172.30.11.0/24

Old Building
Old Datacenter
VLAN 100
VLAN 100
VLAN 200
OldBuilding
VLAN 1   VLAN 3
VLAN 2

12 Prod Points
VLAN 561
172.30.51.0/24
3 Tech Verif Zones
1 Meeting Room
1 Video-Conf Room

10 Sales Rooms
VLAN 562
172.30.52.0/24
20 Workplaces
2 Video-Conf Rooms

20 Laboratories
VLAN 563
172.30.53.0/24
4 Eng Rooms
1 Meeting Room
2 Video-Conf Rooms

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