



**Location**

**Standard**

**Network Security**

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<b>Responsible Function</b>	IT Infrastructure Team Leader
<b>Organizational Scope</b>	Location Sibiu
<b>Reference (Superior Rule)</b>	Continental Automotive InfoSec & CyberSec Community Wiki > Continental Automotive Information & Cyber Security > Policies, Manuals, Procedures and Methods
<b>Further relevant Rules</b>	-
<b>Key words</b>	Security, Network, Checklist
<b>Functional contact</b>	IT Infrastructure Engineer

Internal

**Table of Contents**

1 Scope of Content .....3

2 Network Elements .....3

2.1 Passive LAN .....3

2.2 Active LAN .....4

2.3 WLAN .....6

2.4 WAN .....7

2.4.1 eWAN .....7

2.4.2 ADAS WAN .....8

2.5 Telephony .....8

3.1 LAN Management .....8

3.2 Security – Network Access Control .....10

Subnets and VLANs .....10

2.5.1 Process performance indicators (KPIs) .....12

3 Application .....12

4 Miscellaneous .....12

4.1 References .....12

4.1.1 Mandatory .....12

4.2 Definitions and Abbreviations .....13

5 Approval .....14

5.1 Definition and Review Team .....14

Document History .....14

**Annexes**

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## 1 Scope of Content

**Objective:** This document describes layout, administration and security procedures of main network elements and services.

**Goal:** Overview of network architecture, security and management process, description of categories and services: design, equipment (active and passive devices), provisioning, implementation and operation according to guidelines and security policies; LAN concepts, devices and services.

**Scope:** Location Sibiu

## 2 Network Elements

LAN is designed following the base ideas of *performance*, *security* and *scalability*.

Passive LAN design (copper and optical fiber) follows Continental approved standards for equipment and implementation.

Active LAN design is *3 tier architecture* (core, distribution, access) and is taking into consideration only approved and standard equipment. Components of all network layers are *clustered*.

Design and LAN 3<sup>rd</sup> Level support is provided by Automotive Network and Voice Team (SLA Standard Support)

Implementation of passive LAN is usually in responsibility of external supplier, but closely monitored by local IT team to assure compliance with Continental requirements.

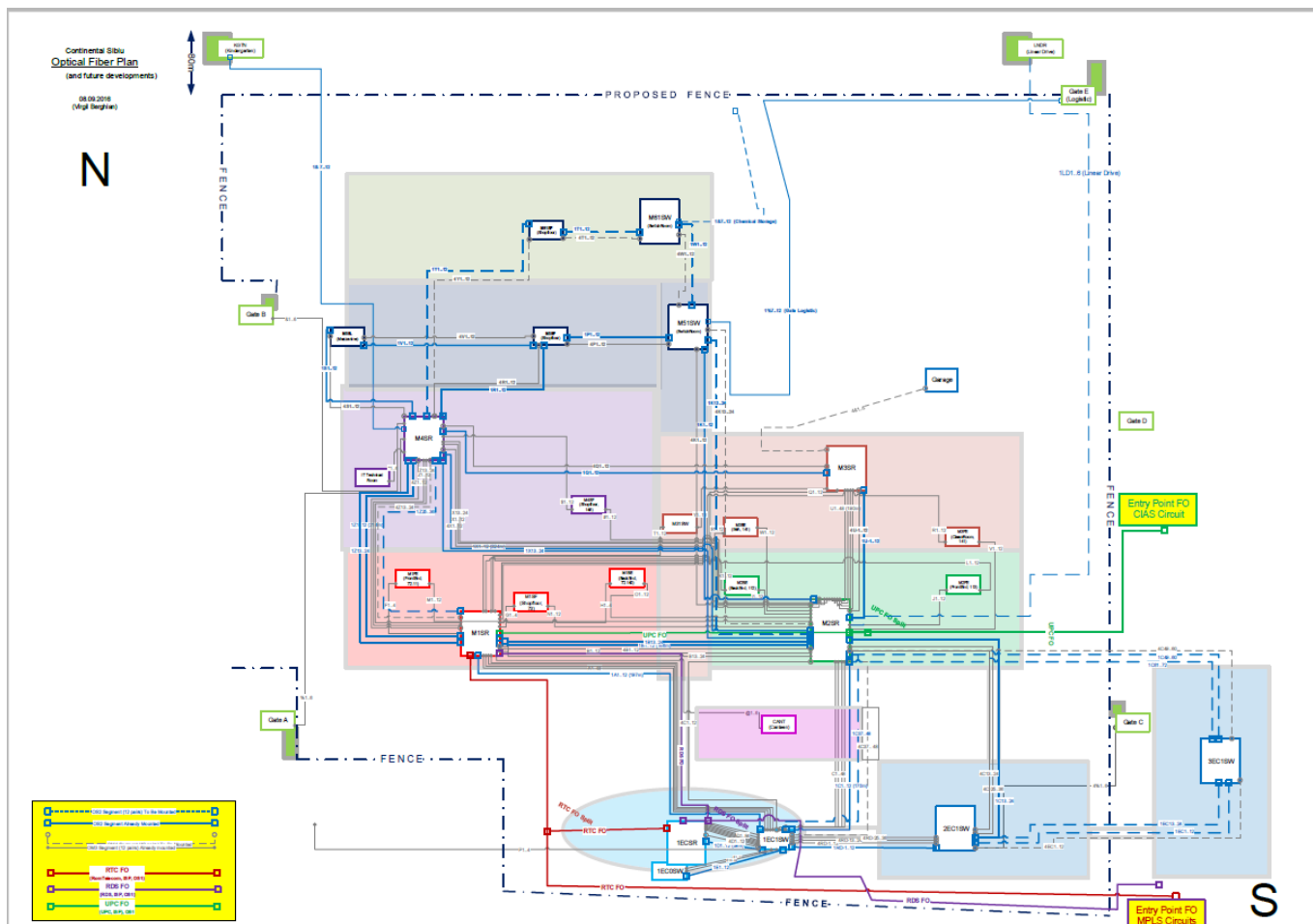
Implementation, operation, support and monitor of active LAN devices are the object of local "IT Infrastructure" team's activity.

### 2.1 Passive LAN

- ~10K copper ports, around 500 KM copper cable, 40 short-range and 15 long-range optical fiber segments
- Standard Passive Networks manual, Krone and R&M materials, Cat6 certified (Cat7, Real10) measured ports
- LAN extensions as a result of increased workplace density: state the need, request for quotation, supervise and approve works → IT Infrastructure team
- LAN extension as a result of cabling new building: agreed providers, standard passive components, installed ports measurements, acceptance protocol
- Patching – user support (workplace related activities): local IT Workplace team

Fiber Optic Plan:

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## 2.2 Active LAN

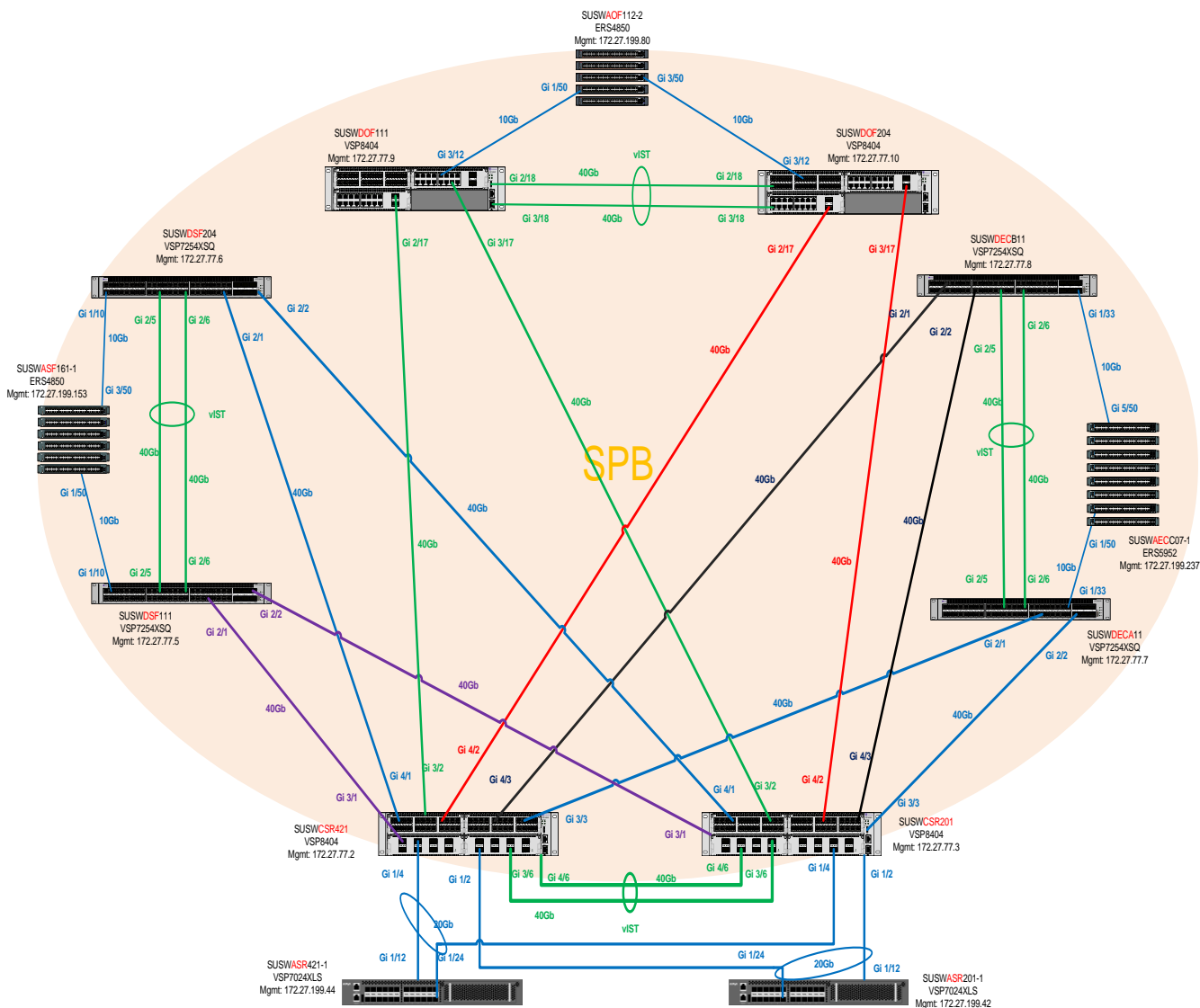
- design and plans (Level 3 support) are supervised and approved by Automotive Infrastructure Network and Voice team
- clustered active components (Access, Distribution, Core) and redundant paths for connectivity in separate fire zones
- LAN is configured with SPBM (Shortest Path Bridging MAC – 802.1h MAC-in-MAC encapsulation). SPB provides shortest path forwarding using layer 2 to provide shortest path forwarding. SPB uses the IS-IS protocol operating at layer 2 allowing for large networks with fast convergence, equal cost paths and easy provisioning.
- SPBM virtualized services are delineated by I-SIDs.
- Improved security – Client VLAN captive
- ~ 500 managed devices/systems (active LAN components)
- 40G LAN core and distribution, 10G LAN access to clients, 10G LAN access to critical servers, Public network, MIS Storage network

## Network Architecture

LAN 3 Tier Architecture (Core, Distribution, Access)

Clients (Shopfloor, Office, R&D) and Servers

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## Adding new active devices in network:

1. establish the location (rack and position in rack) and the network name of the equipment
2. reserve IP in DHCP server (QIP) in location's correspondent subnet
3. establish cable connection paths, patch-panel's ports, provision and label correct patch-cords and power cables
4. configure spbm instance, configure uplink ports/isis and VLANs/I-SID on the new device and check/config ports (STP, VLAN, I-SID, IP, DHCP RELAY, VRRP) on the Building/Server Core Switch (both IST partners!)
5. configure Security (CLI,SSH, SNMPv3) and Monitoring (syslog, sFlow) on the new device
6. add new device to monitoring systems (NagiosXI, XMC/backup)
7. mount new device in rack and make connections (uplinks, stacking, power)

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8. create image / 'save config' to the configuration central repository (IT folder structure/Central servers – automatically with XMC – Extreme Management Centers)
9. Add the network equipment in XMC Management tool, Nagios XI (for Monitoring), HPAM (I4.0, for Inventory)

## Naming convention

### 1.Room name - MXSR / XECYSW

Ex. M4SR Module Production number = M4 Room Type = SR (Data Center)

1EC0SW EC number = 1 Module name = EC Floor = 0 Room Type = SW (Distribution Room)

### 2.Rack name - SURKWXYZ / SURKXECYZ

Ex. SURKM421 SU = Location Sibiu RK = Rack M4 = Module name 2 = Row Number 1 = Nr in Row

Ex. SURKAEC21 SU = Location Sibiu RK = Rack A = EC Number EC = Engineer Center 2 = Row Number 1 = Nr in Row

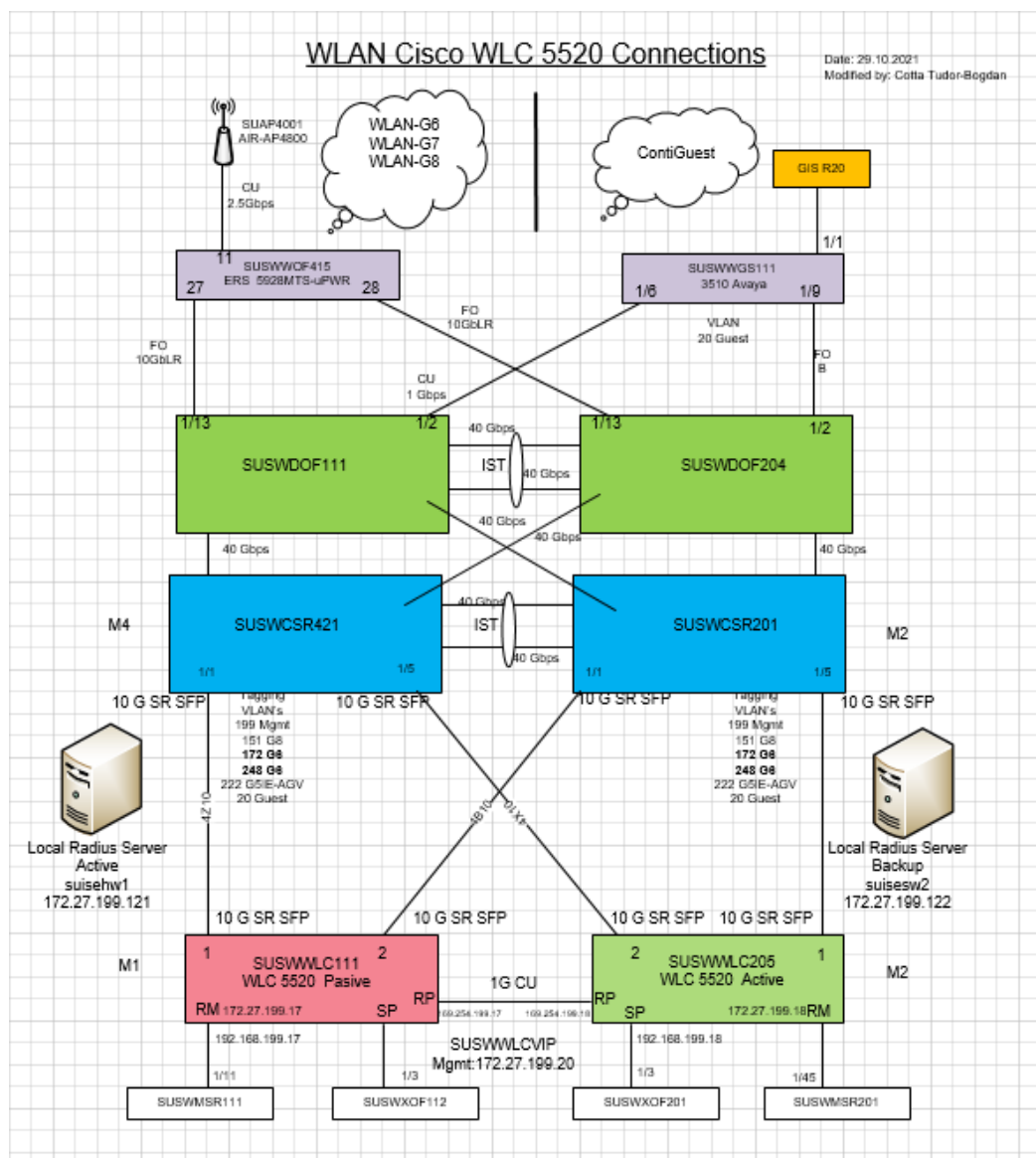
### 3.Switch name - SUSWASFXYZ(B)

Ex. SUSWAOF112-1 SU = Location Sibiu SW = Function (Switch) A = Access Switch(Tier Level) OF = Area which it serves (Office) 1 = Module number 1 = Row Number 2 = Nr in Row 1 = Stack number in rack

## 2.3 WLAN

- HA SSO Cisco Wireless Controller 5520 (20Gbps uplinks), around 350 APs AIR-AP4800 (PoE) and Catalyst 9130AX(wifi 6)
- authentication 802.1x PEAP - WLAN-G6 / WLAN-G7, centralized authorization – local RADIUS server (2x Cisco ISE), Secure Encryption – WPA2+WPA3/CCPM128(AES)
- authentication WPA/AES-TKIP, WPA2/AES with MAC filtering for WLAN-G8, WLAN-G5IE
- management and monitoring: Configuration and Management with Cisco GUI and Cisco Prime Infrastructure, alerting with NagiosXI

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## 2.4 WAN

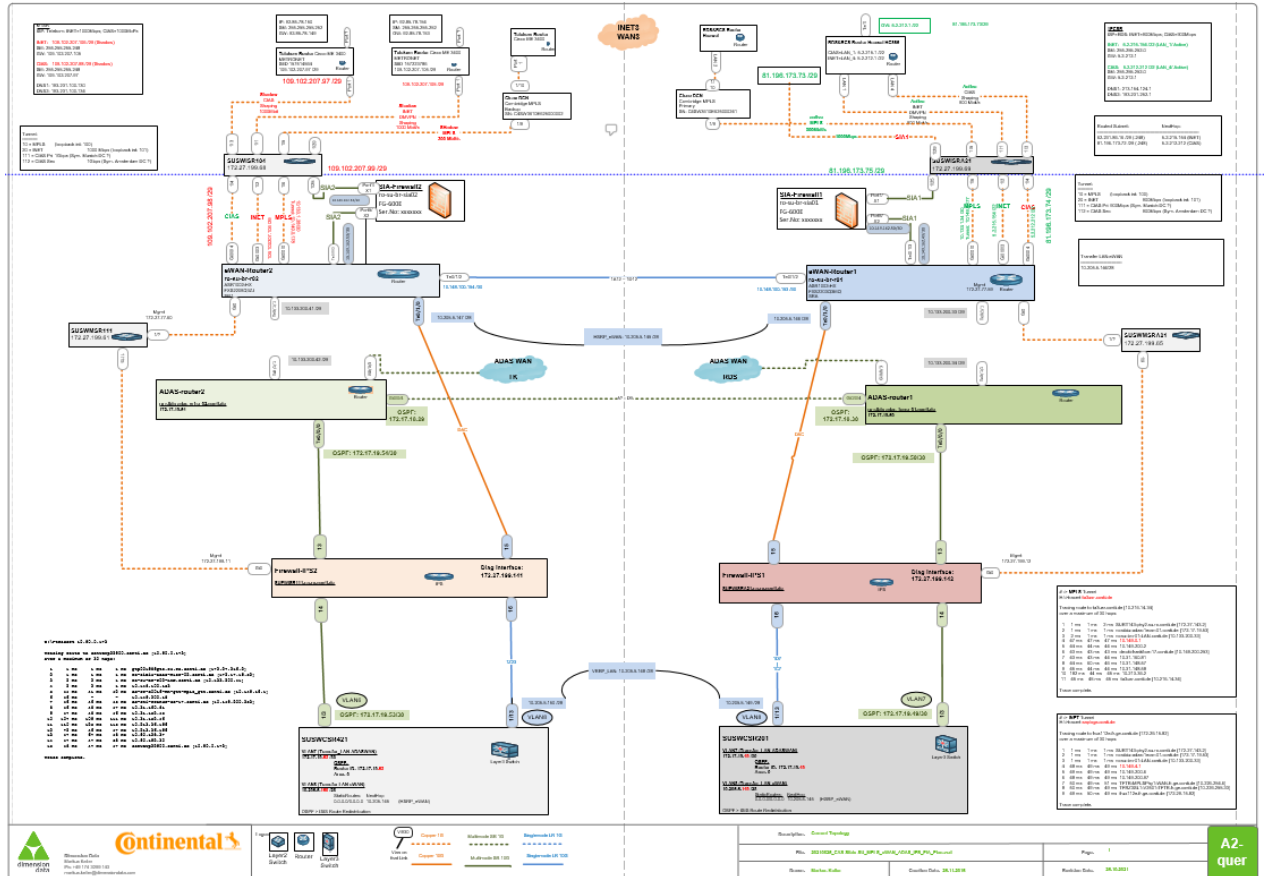
### 2.4.1 eWAN

- 2x eWAN routers – Cisco ASR1002-HX
- 2x MPLS Line, active-passive, 300Mbps
- VPN Tunnels for traffic separation: INET and MPLS
- 2x SIA Line, active-passive, 1000Mbps, 1000Mbps
  - o SIA service (local Proxy)
- 2x INET Line, active-passive, 1000Mbps, 1000Mbps
- Intrusion Prevention System in-place

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## 2.4.2 ADAS WAN

- Separate lines for ADAS traffic
- 2x last mile service providers (RDS, Telekom) with 2 separate entry points for HA, Optical Fiber



## 2.5 Telephony

- PBX and VoIP LAN Stacks on Datacenter UPS
- 3CX IP PBX, SIP Trunks

## LAN Management and Security

### 3 LAN Management

- XMC (Extreme Management Center):
- LDAP Authentication – access only with specific Active Directory Administrative Account
- Role based authentication

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Version 02

Page 8 (14)

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The screenshot shows the 'Devices' tab in the Extreme Networks management interface. It displays a table of network devices with columns for Status, Name, Site, IP Address, Poll Status, Poll Details, Device Type, and Family. The devices listed include various models like SUSWXS151, SUSWXS171, SUSWXS201, etc., all with a status of 'Available' and a poll status of 'Up'. The site is 'World/Sibiu-XWAN'.

Status	Name	Site	IP Address	Poll Status	Poll Details	Device Type	Family
Available	SUSWXS151	World/Sibiu-XWAN	172.27.199.190	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS171	World/Sibiu-XWAN	172.27.199.198	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS201	World/Sibiu-XWAN	172.27.199.111	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS112	World/Sibiu-XWAN	172.27.199.110	Up: 210 Down: 0	Available: 100.000%	ERS 5530-24TFD	ERS Series
Available	SUSWXS303	World/Sibiu-XWAN	172.27.199.112	Up: 210 Down: 0	Available: 100.000%	ERS3526T-PWR+	ERS Series
Available	SUSWXS352	World/Sibiu-XWAN	172.27.199.195	Up: 210 Down: 0	Available: 100.000%	ERS3526T-PWR+	ERS Series
Available	SUSWXS362	World/Sibiu-XWAN	172.27.199.194	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS251	World/Sibiu-XWAN	172.27.199.192	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS261	World/Sibiu-XWAN	172.27.199.193	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS161	World/Sibiu-XWAN	172.27.199.191	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS452	World/Sibiu-XWAN	172.27.199.196	Up: 210 Down: 0	Available: 100.000%	Avaya (SynOptics)	
Available	SUSWXS553	World/Sibiu-XWAN	172.27.199.197	Up: 210 Down: 0	Available: 100.000%	ERS3510GT	ERS Series

## Daily Backup for network devices with XMC

The screenshot shows the 'Archives' tab in the Extreme Networks management interface. It displays a table of network device backups with columns for Name, # Devices, Save Frequency, Next Save, Date Created, and Description. The backups are organized by location (e.g., Backup\_M4-Shopfloor\_Stacks, Backup\_M5-Shopfloor\_Stacks, etc.) and include details on the number of devices and the date/time of the backup.

Name	# Devices	Save Frequency	Next Save	Date Created	Description
Backup_M4-Shopfloor_Stacks	3	Daily	1/23/2020 10:00 AM	12/10/2019 3:58 PM	backup stackuri M4-Shopfloor
Backup_M5-Shopfloor_Stacks	4	Daily	1/23/2020 11:00 AM	12/10/2019 4:05 PM	baackup stackuri M5-Shopfloor
Backup_2R&D_Stacks	5	Daily	1/23/2020 12:00 PM	12/10/2019 4:09 PM	backup stackuri M5-Shopfloor
Backup_M1-Office_Stacks	9	Daily	1/23/2020 1:00 PM	12/11/2019 8:11 AM	backup stackuri M1-Office
Backup_M2-Office_Stacks	8	Daily	1/23/2020 2:00 PM	12/11/2019 8:15 AM	backup stackuri M2-Office
Backup_M3-Office_Stacks	15	Daily	1/23/2020 3:00 PM	12/11/2019 8:23 AM	backup stackuri M3-Office
Backup_SIFEE_Switches	2	Daily	1/23/2020 4:00 PM	12/10/2019 12:09 PM	backup switchuri sifee
Backup_M2-Shopfloor_Stacks	19	Daily	1/23/2020 5:00 PM	12/9/2019 9:11 AM	Backup switch-uri X-WAN
Backup_X-WAN_Switches	21	Daily	1/23/2020 6:00 PM	12/10/2019 9:45 AM	backup switchuri wireless
Backup_1R&D_Stacks	11	Daily	1/23/2020 7:00 PM	12/10/2019 11:03 AM	backup stackuri 1RD
Backup_2R&D_Stacks	10	Daily	1/23/2020 8:00 PM	12/10/2019 11:05 AM	backup stackuri 2R&D
Backup_3R&D_Stacks	11	Daily	1/23/2020 9:00 PM	12/10/2019 11:05 AM	backup stackuri 3R&D
Backup_M6-Office_Stacks	2	Daily	1/24/2020 4:00 AM	12/11/2019 8:38 AM	backup stackuri M6-Office
Backup_M5-Office_Stacks	3	Daily	1/24/2020 5:00 AM	12/11/2019 8:35 AM	backup stackuri M5-Office
Backup_M4-Office_Stacks	7	Daily	1/24/2020 6:00 AM	12/11/2019 8:31 AM	backup stackuri M4-Office
Backup_M1-Shopfloor_Stacks	4	Daily	1/24/2020 7:00 AM	12/10/2019 1:34 PM	backup stackuri M1 Shopfloor
Backup_M2-Shopfloor_Stacks	3	Daily	1/24/2020 8:00 AM	12/10/2019 2:07 PM	backup stackuri M2-Shopfloor
Backup_M3-Shopfloor_Stacks	4	Daily	1/24/2020 9:00 AM	12/10/2019 2:12 PM	backup stackuri M3-Shopfloor

## Syslog Server – XMC and Corporate Syslog Servers

The screenshot shows a Syslog server log with columns for Date/Time, Source, Subcomponent, Client, User, Type, and Information. The log entries show various network events, including SNMP traps and link down/up notifications, with timestamps ranging from 1/23/2020 9:54:40 AM to 1/23/2020 9:54:22 AM.

Date/Time	Source	Subcomponent	Client	User	Type	Information
1/23/2020 9:54:40 AM	SUSWASF171-1	---	---	---	Event	SNMP Trap: ldpRemTableChange Inserts = 694922
1/23/2020 9:54:37 AM	SUSWASF171-1	---	---	---	Event	SNMP Link Down Trap for UnitPort: 2/9
1/23/2020 9:54:37 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: MSTP General EventDown
1/23/2020 9:54:35 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Deletes = 694712
1/23/2020 9:54:35 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Inserts = 694920
1/23/2020 9:54:30 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Deletes = 694710
1/23/2020 9:54:30 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Inserts = 694918
1/23/2020 9:54:27 AM	SUSWASF171-1	---	---	---	Event	SNMP Link Up Trap for UnitPort: 2/11
1/23/2020 9:54:27 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: MSTP General EventUp
1/23/2020 9:54:25 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Deletes = 694708
1/23/2020 9:54:25 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: ldpRemTableChange Inserts = 694916
1/23/2020 9:54:24 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: MSTP General EventDown
1/23/2020 9:54:24 AM	SUSWASF171-1	---	---	---	Event	SNMP Link Down Trap for UnitPort: 2/11
1/23/2020 9:54:24 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: MSTP General EventUp
1/23/2020 9:54:24 AM	SUSWASF171-1	---	---	---	Event	SNMP Link Up Trap for UnitPort: 2/11
1/23/2020 9:54:22 AM	SUSWASF171-1	---	---	---	Event	SNMP Link Down Trap for UnitPort: 2/11
1/23/2020 9:54:22 AM	SUSWASF171-1	---	---	---	Event	SNMP-Trap: MSTP General EventDown

- Support for planning, sourcing, implementation from central network and voice team
- L3 configuration, troubleshooting, monitoring by local IT with support from central IT
- Support Contract: Avaya Next Business Day - parts replacement for core active components
- **role-based administration:** Network Administrator and Network Operator
- in-band management for Access switch-stacks – CLI and SNMPv3 - RW and RO access
- **out-of-band management** for Core and Distribution switches

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- **Network connection control**
- (CLI, SNMPv3, BPA)
- VPN for Remote Access (Cisco VPN Client)
- Security Patches Process

#### CLI:

ERS5928, ERS5952, ERS4950, ERS4850, ERS4548, VSP7024, ERS5600

Authorization via TACACS+ : Cisco ISE acts as TACACS Server

Authentication with Active Directory Administrator Account on Access Switches

ERS8404, ERS7254 Special Access

Obed | role read-write

#### SNMPv3

obed service RW - for Conti Sibiu(XMC)

felix sport RW - for FelixTelecom

saddoc helper RW - for Conti Competence Center

monitor monitor RO - for Conti Sibiu Monitoring

- Extreme Management center: <https://suas210-vm:8443>
- Cisco Wireless Management System: <https://172.27.199.20>
- Cisco Prime Infrastructure: <https://suas189-vm>

## 4 Security – Network Access Control

Extreme Control tool from Extreme Networks

- 802.1x authentication for capable devices
- MAB (MAC Authentication Bypass) for devices which are not capable for 802.1x
- Automatic VLAN Assignment: Rules, Profiles, Policies
- Access to network is controlled by Extreme Control tool
- Quarantine VLAN

## 5 Network segmentation

### 5.1 Subnets and VLANs

Segmentation is implemented as a mapping between class “C” IP subnets and VLANs: every subnet has an associated VLAN and is distributed according topology.

This separation is between office workplaces (where development engineers are sitting) and hosts on production lines.

2 x Segmentation Firewalls – Cisco Firepower 4115Threat Defense

Public network is re-organized in according with new cybersecurity rules.

Two Important categories: Trusted and Untrusted devices and are separated by firewall, untrusted devices are behind firewall and there are configured more than 6500 ACLs.

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ACLs are managed with FMC – Firewall Management Center

## 5.2 Trusted Devices

IP		Subnet	VLAN	VRF				VRF	VLAN	Subnet	IP	
					TRUSTED							
					LAN							
					EC		OF					
172.27.80.0/23			1910	0	PCTrust_ECA0_80	Managed PC's		Managed PC's	PCTrust_OF12_120	0	1612	172.27.120.0/23
172.27.184.0/23			1911	0	PCTrust_ECA1_184	Managed PC's						
172.27.160.0/23			1920	0	PCTrust_ECB0_160	Managed PC's		Managed PC's	PCTrust_OF34_124	0	1634	172.27.124.0/23
172.27.164.0/23			1921	0	PCTrust_ECB1_164	Managed PC's						
172.27.228.0/23			1930	0	PCTrust_ECC0_228	Managed PC's		Managed PC's	PCTrust_OF56_216	0	1656	172.27.216.0/23
172.27.232.0/23			1931	0	PCTrust_ECC1_232	Managed PC's						
172.27.240.0/23			1932	0	PCTrust_ECC2_240	Managed PC's						
172.27.244.0/23			1900	0	PCTrust_EC_ADAS_244	Managed PC's ADAS WAN						
172.27.159.0/24			1600	0	VDI_Trust	Managed VDI's			VDI_Trust	0	1600	
					VoIP							
172.27.238.0/23;	238		991	0	VoIP_ECA_238	Option43 String: 01075369656d656e73020400003DF03		Option43 String: 01075369656d656e7302040000	VoIP_OF12_188	0	912	188 172.27.188.0/23;
172.27.192.0/23;	192		992	0	VoIP_ECB_192	Option43 String: 01075369656d656e73020400003E003		Option43 String: 01075369656d656e7302040000	VoIP_OF34_226	0	934	226 172.27.226.0/23;
172.27.246.0/23	246		993	0	VoIP_ECC_246	Option43 String: 01075369656d656e73020400003E103		Option43 String: 01075369656d656e7302040000	VoIP_OF56_236	0	956	236 172.27.236.0/23;
					WiFi							
					EC		OF, SF					
172.27.248.0/22		248	0	W_PC_Trust_EC	LAPTOP_Trust [WLAN-G6]		LAPTOP_Trust [WLAN-G6]		W_PC_Trust_OF	0	172	172.27.172.0/22
					Servers							
172.27.110.0/24			110	0	SRTrust_110	Sibiu M2-M4-1EC, Cluster, Server						
172.27.150.0/24			150	0	SRTrust_MIS1_150	MIS1 Server						
172.27.190.0/24			190	0	SRTrust_MIS2_190	MIS2 Server						
172.27.191.0/24			191	0	SRTrust_MIS2_191	Data Migration MIS2						
172.27.170.0/24			170	0	SRTrust_CentralMG_170	Centrally Managed Servers						
					Mgmt VLAN (LAN)							
172.27.196.0/23			196	0	AP_MGMT_196	Access Point Management						
172.27.199.0/24			199	0	NW_MGMT_199	LAN Management						
					Transfer VLAN's							
172.30.72.32/28			555	0	CORE_FW	Transfer LAN CORE-FW						
172.17.19.48/28			7	0	ADAS_WAN_7	Transfer LAN-ADAS-WAN						

## 5.3 Untrusted Devices

IP	Subnet	VLAN	VRF	UNTRUSTED				VRF	VLAN	Subnet	IP												
LAN																							
EC, OF				IOT (boardpc, sensors)		SF		IOT (boardpc, cobots, proc_cam, sensors, eKanBan)															
172.27.212.0/23	212	600	0	IOT_212					IOT_222	700	222	172.27.222.0/23											
172.27.166.0/23	166	601	0	BMS_166	BMS (Interfex) (FM sensors, access cotrol)																		
172.27.186.0/24	186	602	0	BMS_Server_186	SERVER ROOM (APC: UPS, Cooling_Cam, InfrastruXture, Sensors)																		
172.27.181.0/24	181	703	0	PRINTER_181	PRINTERS				PRINTER_181	703		172.27.181.0/24											
172.27.208.0/23	208	711	0	MULTIMEDIA_208	Multimedia (WiPG, TV, Teradici <2C>)				MULTIMEDIA_208	711		172.27.208.0/23											
172.27.219.0/24	219	604	0	DEV_DEVICE_219	DEVELOPMENT DEVICES (oscilloscopes, measurement/lab devices)																		
172.27.224.0/24	224	609	0	QL_DEVICES_224	Qualification Laboratory (Climatic Chambers, Vibration Control Machines, etc.)																		
PRODUCTION DEVICES Line XX 10xxx/26 (W10, plc, Cox PC(XP, W7))												PROD_DEVICE_194	715	194	172.27.194.0/24								
												PROD_DEVICE_720	718	720	172.27.72.0/25								
												PROD_DEVICE_195	716	195	172.27.195.0/24								
												PROD_DEVICE_721	719	721	172.27.72.128/25								
												PROD_DEVICE_73	717	73	172.25.73.0/24								
												PROD_DEVICE_112	725	112	172.27.112.0/24								
												PROD_DEVICE_1110	727	1110	172.27.111.0/25								
												PROD_DEVICE_113	726	113	172.27.113.0/24								
												PROD_DEVICE_1111	728	1111	172.27.111.128/								
												PROD_DEVICE_141	736	141	172.27.141.0/24								
												PROD_DEVICE_142	735	142	172.27.142.0/24								
												PROD_DEVICE_221	737	221	172.27.221.0/24								
												PROD_DEVICE_145	745	145	172.27.145.0/24								
												PROD_DEVICE_146	746	146	172.27.146.0/24								
												PROD_DEVICE_76	747	76	172.27.76.0/24								
												PROD_DEVICE_154	755	154	172.27.154.0/23								
												PROD_DEVICE_156	756	156	172.27.156.0/23								
												PROD_DEVICE_115	757	115	172.27.115.0/24								
												PROD_DEVICE_177	758	177	172.27.177.0/24								
												PROD_DEVICE_210	765	210	172.27.210.0/23								
												Fazit											
												172.27.214.0/24	214	605	0	PC_UNtrust_ADAS_214	Unsecure Windows (XP, 7) ADAS_WAN	PROD_FAZIT_171	705	171	172.27.171.0/24		
												172.27.218.0/24	218	606	0	PCUNtrust_OF_218	Unsecure Windows (XP, 7) Cox PC's	Fuji_NVR	706	234	172.27.234.0/23		
												172.27.215.0/24	215	608	0	PCUNtrust_EC_215	Unsecure Windows (XP, 7)						
172.27.180.0/24	180	620	0	PCUNtrust_EXT_180	Unsecure PC External(KGTN Gate) - PERIMETER																		
172.27.158.0/24	158	611	0	VDI_UNtrust_OF_158	Unsecure Windows (XP, 7) VDI	Unsecure Windows (XP, 7) VDI	VDI_UNtrust_SF_148	713	148	172.27.148.0/23													
WIFI																							
EC, OF				IOT (wearables, boardpc, sensors) [WLAN-G7/G8]		SF		W_IOT															
172.27.203.0/24	203	701	0	W_IOT	Device doesn't trigger authentication(meeting bar) [WLAN-G8]				W_PROXY_NoAuth	707	203	172.27.203.0/24											
172.27.187.0/24	607	0	W_PROXY_NoAuth					W_PROXY_NoAuth	607		172.27.187.0/24												
				Scanners [WLAN-G7]				W_SCAN_SF	708	151	172.27.151.0/24												
				AGV's (Cobots) [WLAN-G7]				W_AGV_SF	709	202	172.27.202.0/24												
10.138.0.0/23	612	0	W_MOB	Mobile devices ( managed by Mobile Iron) [WLAN-G8]				W_MOB	612	10	138.0.0/23												
10.225.118.0/24	21	0	W_IOT_WAN	IOT (which needs Internet access) [WLAN-G8]				W_IOT_WAN	21	10	225.118.0/24												
10.225.127.0/24	28	0	W_IGA	IGA (Internet Guest Access) [ContiGuest]				W_IGA	28	10	225.127.0/24												
Server																							
172.27.220.0/24	220	220	0	SR_Untrust_220	Unpatchable Server(WinSrv2008, Linux old systems)				SR_Untrust_220	220	220	172.27.220.0/24											
Mgmt VLAN (Servers)																							
172.27.77.0/24	77	77	0	MG_Untrust_77	Server Management (ILO Boards,				MG_Untrust_77	77	77	172.27.77.0/24											

Internal

Internal

CA 1014436

Page 11 (14)

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Version 02

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## 6 Process performance indicators (KPIs)

Reaction Time (Prio3) - S6_Network_Operations	93.00%
Resolution Time (Prio3) - S6_Network_Operations	93.00%
"Critical Systems Availability LAN (Network CLI Access, Distribution, Core, SRV_Access)"	99.95%
"Critical Systems Availability WAN access (CIAS, iNET, MPLS)"	99.95%
"TC_Traffic_Filtering - Project Performance"	100.00%
"VB_Networks_Access_Control - Project Performance"	100.00%

KPI's are monitored within "IT\_TargetMatrix" located in "IT Management Teams" channel.

## 7 Application

The implementation of the present rule starts with 1<sup>st</sup> of May 2023.

## 8 Miscellaneous

### 8.1 References

#### 8.1.1 Mandatory

[Continental Automotive InfoSec & CyberSec Community Wiki > Continental Automotive Information & Cyber Security > Policies, Manuals, Procedures and Methods](#)

Network Security Checklist:

<https://intranet.conti.de/resource/blob/1126462/b5b3bef9151f88ef169361d4b8bdaa52/network-security-checklist-data.xlsx>

[WAN Security Guide \(conti.de\)](#)

Internal

## 8.2 Definitions and Abbreviations

### 4 List of Abbreviations

Abbreviation	Description
ACL	Access Control List
AES	Advanced Encryption Standard
BSI	Bundesamt für Sicherheit in der Informationstechnik
CoBPAS	Continental Business Partner Access Services
CIAS	Continental Internet Access Service
CSO	Continental Security Officer, Chief Security Officer
DES	Data Encryption Standard
DMZ	Demilitarized Zone
HSRP	Hot Standby Router Protocol
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
LAN	Local Area Network
MPLS	MultiProtocol Label Switching
NIST	National Institute of Standards and Technology
RDC	Regional Distribution Center
RADIUS	Remote Authentication Dial-In User Service
SSH	Secure Shell
SSL	Secure Socket Layer
SNMP	Simple Network Management Protocol
TACACS	Terminal Access Controller Access Control System
VPN	Virtual Private network
VRRP	Virtual Router Redundancy Protocol
VRF	Virtual Routing and Forwarding
WAN	Wide Area Network

Internal

## 9 Approval

eSign: 16046461

Name	Function / Department	Location
George Talpos	Manufacturing Project Leader (Local IT Security Advisor)	Sibiu
Cosmin Sideras	Head of Plant Industrial Engineering. Head of Information Technology. Head of Plant CBS Coaching	Sibiu
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Larisa Jecan	Plant QMS Team Leader	Sibiu
Ioana Bujor	RD QMS Specialist	Sibiu
Andreea Unguroiu	Plant QMS Specialist	Sibiu

### 9.1 Definition and Review Team

The members of the Review Team have reviewed the rule and their feedback has been considered. The Responsible Function keeps records about the review.

Definition Team

Name	Function / Department	Location
Andreea Unguroiu	Plant QMS Specialist	Sibiu

Review Team (Cooperation with affected organizational units)

Name	Function / Department	Location
Virgil Berghian	IT Infrastructure Team Leader	Sibiu

## Document History

Version	Responsible Function	Details	Effective
1	IT Infrastructure Team Leader	First edition (former local IT rule)	12/1/2021
2	IT Infrastructure Team Leader	Change the scope	05/01/2023

Internal

**S-list Id:** 16046461**Creation date:** 21 Apr 2023 10:24:11**S-list file:** CA 1014436-02 SBZ Network Security  
.pdf**Last action date:** 02 May 2023 09:22:53**Status:** APPROVED**Duration:** 11**Group:** QMS Plant Sibiu**Category:** Standard Procedure**Sensitive information:** Yes**Retention time:** 30 years**Explanation:** New Scope after SHAPE**Initiator name:** Berghian Virgil**Initiator email:** virgil.berghian@continental-  
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