



Business Router Management

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Axiros OSS and network management framework for telco business edge routers

- Full device life-cycle management
- Automation of voice and VPN provisioning
- Proactive troubleshooting across multi-vendor business edge systems (e.g. cisco, juniper, audiocodes)
- Enterprise IAD Management
- MPLS Customer Edge Router
- IPSEC VPN
- Enterprise VoIP trunks
- Service activation for P2P Fiber, DSL, xPON

AXBIZ Use Cases

Enterprise IAD Management

- BGP peerings
- IP address and static route configurations
- IPv4/V6
- QoS
- NAT configuration

MPLS Customer Edge Router

- BGP peerings to MPLS Provider Edge (PE)
- BGP peerings to customer via LAN
- IP Address and static route configuration
- Multi VRF
- IPv4, IPv6
- QoS

Management Options

- TR-069
- ssh or telnet (cli)
- netconf
- vendor specific api

Full Device Life-Cycle Management

- Service activation / deactivation
- Service up- and downgrades
- Config backup & analysis
- Monitoring and troubleshooting

Service activation for P2P Fiber, DSL, xPON

IPSEC VPN

- Setup of encryption domain
- Setup of IPSEC peers
- Setup of IPSEC encryption polices
- IKEv1, IKEv2

Enterprise VoIP Trunks

- Setup of ISDN PRI, BRI and POTS interfaces on router
- VoIP trunk parameters
- VoIP call routing and number translation rules



Business Router Management

Business Router Management – Supported Devices



Cisco Branch Routers

- ISR G1, Cisco 2811, Cisco 2821
- ISR G2, Cisco 2911, Cisco 2921, ...
- Cisco 1000, 4001 Series
- Catalyst Switches
- Any IOS/IOS-XE based device, ...



Juniper Business Devices

- SRX Security Gateways
- MX Series Router
- Any JunOS devices, etc.



Huawei Access Routers

- AR100, AR200, etc.



... and others on request!

Information Received

CPE Informations
Last update: 2020-07-08 09:06:12 (a few seconds ago)

CPE State	Online
Description	Cisco Systems, Inc CSR1000V router managed by Axiros AXFPAND
CPEID	9HRL2K07XAM
Device Name	csr1000v-1
Serial Number	9HRL2K07XAM
Vendor	Cisco Systems, Inc
Model	CSR1000V
Software Version	15.4_1_54_RELEASESOFTWARE_ctc_
IP	2A0B:C6C6:10:8100::1
Uptime	5d 12h 47m

Device Image

Interfaces
Last update: 2020-07-08 09:05:19 (a few seconds ago)

Admin State	Operational State	Interface	Description	Mac	IP Address	Netmask	Bytes In	Bytes Out	Packets In	Packets Out	Input_errors_crc	Input_errors_frame
Up	Up	GigabitEthernet1	Vlan703 / vcpu lab switch	5254.00ca.a552	185.217.80.198	255.255.255.240	121010064	29159008	1246872	286064	0	0
Administrative Down	Down	GigabitEthernet2	Vlan791 / vcpu1 lan	5254.0051.9fc	192.168.1.1	255.255.255.0	16266130248	0	45230029	0	0	0
Up	Up	Loopback1			192.0.2.1	255.255.255.255	0	456	0			

Customer Support Portal Cisco

Configuration Comparison

Configurations diff

```

91. negotiation auto
92. ipvt address 2A0B:C6C6:10:8100::1/64
93. ipvt enable
94.
95. interface GigabitEthernet2
96. description Vlan791 / vcpu1 lan
97. ip address 192.168.1.1 255.255.255.0
98. shutdown
99. negotiation auto
100. ipvt address 2A0B:C6C6:10:8100::1/64
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