

## **OmniSwitch 6450 SEC certification description**

## 1. Equipment for certification

The Certified eqipment are the Alcatel Lucent OmniSwitch 6450 series.

OS6450 is a new Gigabit Ethernet LAN value switch family offers versatile, 24/48 port fixed configuration gigabit switches with optional upgrade paths for 10 Gigabit Ethernet (GigE) stacking, 10 GigE uplinks and metro Ethernet services. Offering a design optimized for flexibility and scalability as well as low power consumption, the OmniSwitch 6450 is an outstanding edge solution. It uses the field-proven Alcatel-Lucent Operating System (AOS) to deliver highly available, secure, self-protective, easily managed and eco-friendly networks. The Alcatel-Lucent OmniSwitch 6450 family is embedded with the latest technology, AOS innovations and offers maximum investment protection.

Solutions benefiting from the OmniSwitch 6450 switch family are:

- Edge of small-to-mid-sized networks
- Branch office enterprise and campus workgroups
- Residential and commercially managed services networks





	OS6450-P48
No for (1)	

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OS6540-Series

## **FEATURES**

• 10, 24 ports and 48 ports, Power over Ethernet (PoE), non-PoE and 24port fiber models with two fixed Small Form Factor Pluggable (SFP+) 10 Gb ready interfaces (upgradeable with SW license)

- Scalability from 24 to 384 gigabit ports and 16 10GigE ports
- Optional SFP+ stacking module or additional uplink module
- Optional 10GigE uplink license option
- Optional metro services feature license option for service provider deployments
- Support for IEEE 802.3af as well as IEEE 802.3at-compliant PoE
- Internal AC or DC redundant power supplies



## 2. Configure procedure

Tested SW: AOS 6.6.3.430.R01 with Metro features licence

Configuration procedure:

Step1. Configure VLAN. OS6450 vlan 1 enable name "VLAN 1" (Default) OS6450 vlan 1 port 1-24 default

Step2. Enabling dhcp Snooping and binding on user ports (1-22)

ip helper dhcp-snooping enable ip helper dhcp-snooping binding enable ip helper dhcp-snooping port 1/1 ip-source-filter enable ip helper dhcp-snooping port 1/2 ip-source-filter enable ip helper dhcp-snooping port 1/3 ip-source-filter enable ip helper dhcp-snooping port 1/4 ip-source-filter enable ip helper dhcp-snooping port 1/5 ip-source-filter enable ip helper dhcp-snooping port 1/6 ip-source-filter enable ip helper dhcp-snooping port 1/7 ip-source-filter enable ip helper dhcp-snooping port 1/8 ip-source-filter enable ip helper dhcp-snooping port 1/9 ip-source-filter enable ip helper dhcp-snooping port 1/10 ip-source-filter enable ip helper dhcp-snooping port 1/11 ip-source-filter enable ip helper dhcp-snooping port 1/12 ip-source-filter enable ip helper dhcp-snooping port 1/13 ip-source-filter enable ip helper dhcp-snooping port 1/14 ip-source-filter enable ip helper dhcp-snooping port 1/15 ip-source-filter enable ip helper dhcp-snooping port 1/16 ip-source-filter enable ip helper dhcp-snooping port 1/17 ip-source-filter enable ip helper dhcp-snooping port 1/18 ip-source-filter enable ip helper dhcp-snooping port 1/19 ip-source-filter enable ip helper dhcp-snooping port 1/20 ip-source-filter enable ip helper dhcp-snooping port 1/21 ip-source-filter enable ip helper dhcp-snooping port 1/22 ip-source-filter enable

Assigning uplink ports as trusted.



ip helper dhcp-snooping port 1/23 trust ip helper dhcp-snooping port 1/24 trust



Step 3. Configure port isolation (private vlan) between user ports for ports (1-22) using port mapping command:

Configure an port mapping proup OS6450 port mapping 1

Configure user ports :

port mapping 1 user-port 1/1 port mapping 1 user-port 1/2 port mapping 1 user-port 1/3 port mapping 1 user-port 1/4 port mapping 1 user-port 1/5 port mapping 1 user-port 1/6 port mapping 1 user-port 1/7 port mapping 1 user-port 1/8 port mapping 1 user-port 1/9 port mapping 1 user-port 1/10 port mapping 1 user-port 1/11 port mapping 1 user-port 1/12 port mapping 1 user-port 1/13 port mapping 1 user-port 1/14 port mapping 1 user-port 1/15 port mapping 1 user-port 1/16 port mapping 1 user-port 1/17 port mapping 1 user-port 1/18 port mapping 1 user-port 1/19 port mapping 1 user-port 1/20 port mapping 1 user-port 1/21 port mapping 1 user-port 1/22

Configure port mapping network (uplink) ports port mapping 1 network-port 1/23 port mapping 1 network-port 1/24



Step 4. Configure filtering of IPv6 traffic on user ports

qos enable qos stats interval 10 policy port group users 1/1-22 policy condition IPv6\_DHCP\_Client destination udp port 547 source ipv6 Any source port group users policy condition IPv6\_DHCP\_Server destination udp port 546 source ipv6 Any source port group users policy condition IPv6\_RA icmpcode 0 source ipv6 Any source port group users policy action drop disposition drop policy rule drop\_IPv6\_DHCP\_Client condition IPv6\_DHCP\_Client action drop policy rule drop\_IPv6\_DHCP\_Server condition IPv6\_DHCP\_Server action drop policy rule drop\_IPv6\_RA condition IPv6\_RA action drop qos apply