Test Results Summary for Cisco Catalyst 9200L Switch 16.9(Release Version 16.9.2)

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Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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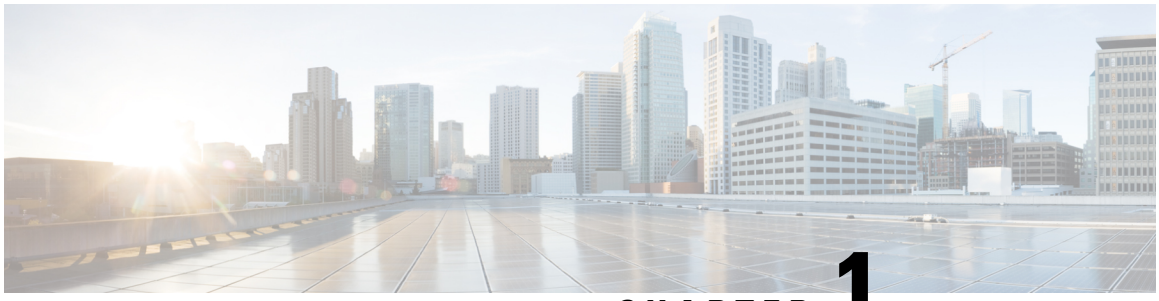


CHAPTER 1

Overview

- Cisco Catalyst 9200L Switch Solution Test, on page 1

Cisco Catalyst 9200L Switch Solution Test

Cisco Catalyst 9200L Switch Solution Test, an integral part of the enterprise solution, is a program that validates various Cisco Catalyst Products and Features. This is achieved by testing the latest versions of Cisco Catalyst products.

Cisco Catalyst 9200L Solution Test for Japan and the requirements are derived based on the following:

- Inputs from Cisco SEs/TAC
- Redundancy coverages in Cisco Catalyst 9200L Switch
- Interoperability and Basic functional coverage

The test execution is carried out on selected Cisco Catalyst 9200L products, which are prioritized by Cisco Japan team.

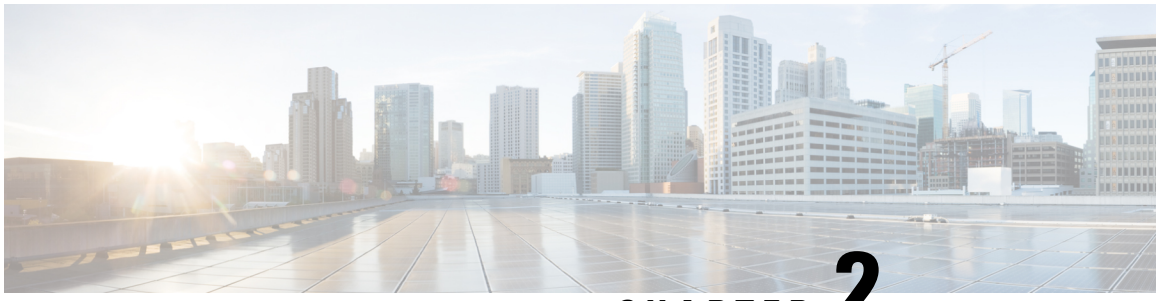
The following products are covered in the test execution:

- Cisco Catalyst 9200L Switch
- Cisco Catalyst 9300 Switch
- Cisco Catalyst 9407 Switch
- Cisco Catalyst 9500 Switch
- Cisco Wireless LAN Controller 3504
- Cisco Wireless LAN Controller 5520
- Access Point 1810
- Cisco Mobility Express 1815
- Cisco Mobility Express 2800
- Cisco Prime Infrastructure
- ISE Virtual Appliance

Acronyms

Acronym	Description
AAA	Authentication Authorization and Accounting
ACL	Access Control List
AP	Access Point
ME	Mobility Express
DNS	Domain Name System
DSCP	Differentiated Services Code Point
EULA	End User Licence Agreement
FTP	File Transfer Protocol
HA	High Availability
ISE	Identity Service Engine
MTU	Maximum Transmission Unit
NAT	Network Address Translation
PEM	Policy Enforcement Module
PI	Prime Infrastructure
QOS	Quality of service
RADIUS	Remote Authentication Dial-In User Service
RP	Redundancy Port
SFTP	Secure File Transfer Protocol.
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol
TFTP	Trivial File Transfer Protocol
UDP	User Datagram Protocol
WLC	Wireless LAN Controller
OSPF	Open Shortest Path First
STP	Spanning Tree Protocol
REP	Resilient Ethernet Protocol
Mbps	Megabits per second
Gbps	Gigabits per second
PoE	Power over Ethernet
LACP	Link Aggregation Control Protocol
PAgP	Port Aggregation Control

Acronym	Description
BPDU	Bridge protocol data unit
MAB	MAC Authentication Bypass
CEF	Cisco Express Forwarding
IPC	Interprocessor communication
RSVP	Resource reservation Protocol
SFP	Small Form-factor Pluggable
SPAN	Switch Port Analyzer
MST	Multiple Spanning Tree
PVST	Per-VLAN Spanning Tree
SVI	Switch Virtual Interface
LSA	link-state advertisement
BFD	Bidirectional Forwarding Detection
PIM	Protocol Independent Multicast
BSR	Bootstrap Router
RDP	Remote Desktop Protocol
IGMP	Internet Group Management Protocol
HTTP	Hyper Text Transfer protocol
HTTPS	Hyper Text Transfer protocol-Secure
SSH	Secure Shell



CHAPTER 2

Test Topology and Environment Matrix

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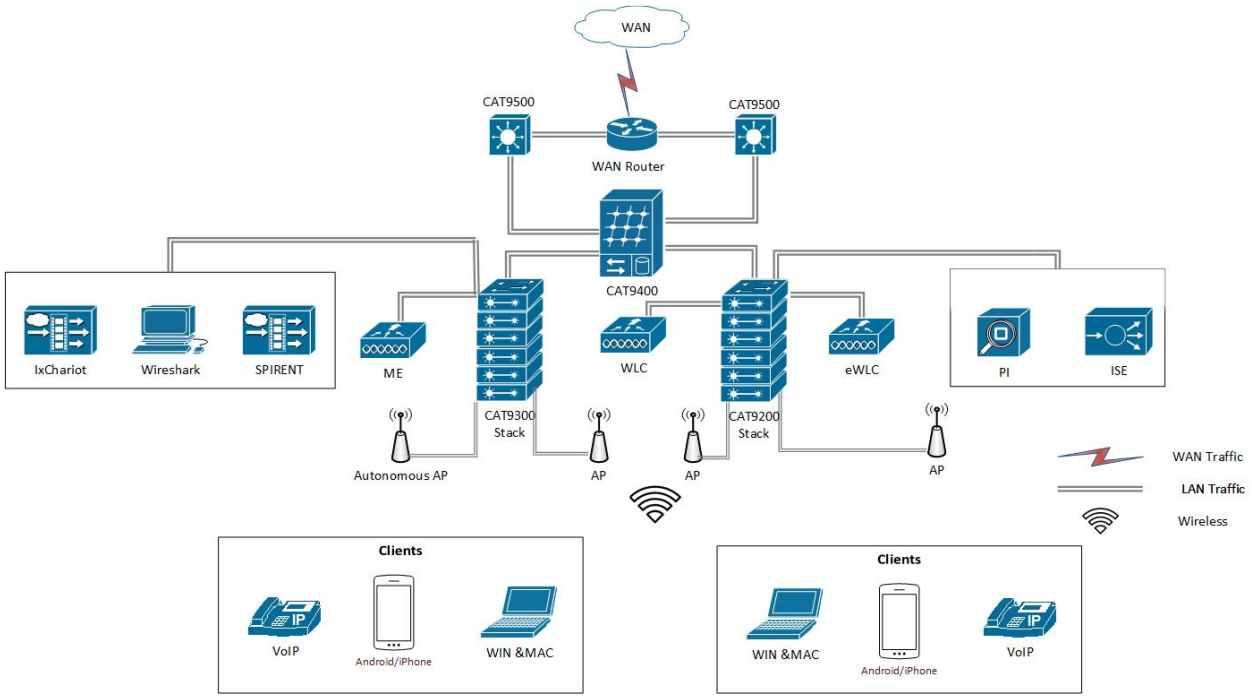
Test Topology

Figure 1: Topology In Use



Component Matrix

Category	Component	Version
Switches	Cisco Catalyst 9200L-48T-4G-A Switch	16.9.2
	Cisco Catalyst 9200L-24P-4X-A Switch	16.9.2
	Cisco Catalyst 9200L-48P-4X-A Switch	16.9.2
	Cisco Catalyst 9300-48T-E Switch	16.9.2
	Cisco Catalyst 9300-48T-E Switch	16.9.2
	Cisco Catalyst 9300-24UX-E Switch	16.9.2
	Cisco Catalyst 9407R Switch	16.9.2
	Cisco Catalyst C9500-40X-E Switch	16.9.2
Applications	Cisco Prime Infrastructure (Virtual Appliance)	3.5
	Cisco Identity Services Engine (Virtual Appliance)	2.5
	Cisco Wireless LAN Controller	8.9
	Cisco Mobility Express	8.9
	EWLC	16.10
	Spirent Test Center	4.64
Access point	Cisco Aironet 1810 Access Points	15.3
End Point	Cisco Wireless IP Phone 8821	12-6-1MN-244
Client	Apple Mac OS	10.14.2
	Windows	7,8, 8.1 & 10
	iPhone	12.1.4
	Android	8.1
SFPs	SFP-10G-SR=	NA
	GLC-TE=	NA
	GLC-ZX-SMD=	NA
	GLC-LH-SMD=	NA
	SFP-10G-LR=	NA

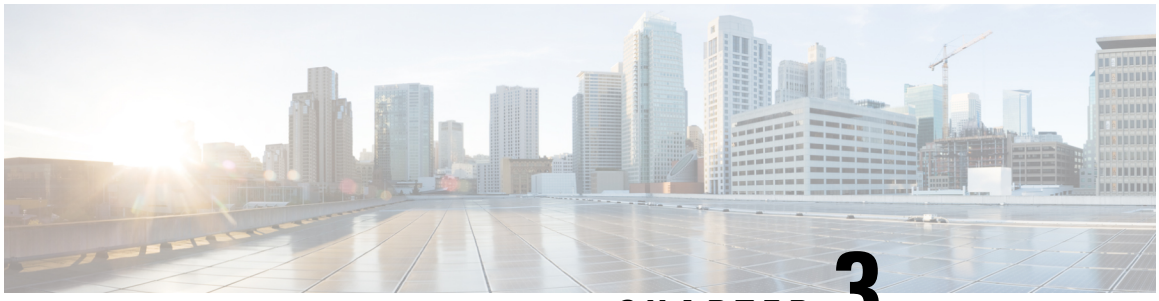
Open Caveats

Defect ID	Title
CSCvo81191	Memory Leak occurs during file transfer operation

CSCvo51247	Spotted an error message in reboot after removing power cable
CSCvo55767	Spotted an error message in reboot after removing stack cable
CSCvo71796	Spotted an error message while disconnecting APs/VoIP from Interface

Resolved Caveats

Defect ID	Title
CSCvo64448	CAT 9200L switch general details are not displayed in PI Japanese UI
CSCvo45468	Able to configure logging file size with max ,mini values as (0,0)
CSCvk61193	'show inv' output does not have PID/VID details for CWDM-1590/CWDM-1610



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Basic Function Test : 1Box

Logical ID	Title	Description	Status	Defect ID
CAT9KJS_1BOX_01	1BOX: Making the Interface UP by associating the new devices like AP or Wired Client	To verify whether Interface is coming up or not after connected the devices	Passed	
CAT9KJS_1BOX_02	1BOX: Making the Interface DOWN after associating the new devices like AP or Wired Client	To verify whether Interface is down or not after connected the devices	Passed	

CAT9KJS_1BOX_03	1BOX: Connecting the Module to switch port after port is UP	To verify whether after connect the module, Switch giving the power or not	Passed	
CAT9KJS_1BOX_04	1BOX: Removing the online insertion(extra module) module	To verify whether after module remove, Switch working without any issues	Passed	
CAT9KJS_1BOX_05	1BOX: Changing the module from one port to other	To verify whether Module is connecting or not after chaging the port	Passed	
CAT9KJS_1BOX_06	1BOX: Half duplex transmission with 10MBPS data speed in Interface	To verify whether data transfering in only one direction at atime or not with 10 mbps Half duplex transmisson	Passed	
CAT9KJS_1BOX_07	1BOX: Full duplex transmission with 10MBPS data speed in Interface	To verify whether data transfering in bidirectional or not with 10 mbps Full duplex transmisson	Passed	
CAT9KJS_1BOX_08	1BOX: Auto duplex transmission with 10MBPS data speed in Interface	To verify whether data transfering successfully or not with 10 mbps Auto duplex transmisson	Passed	
CAT9KJS_1BOX_09	1BOX: Half duplex transmission with 100MBPS data speed in Interface	To verify whether data transfering in only one direction at atime or not with 100 mbps Half duplex transmisson	Passed	
CAT9KJS_1BOX_10	1BOX: Full duplex transmission with 100MBPS data speed in Interface	To verify whether data transfering in bidirectional or not with 100 mbps Full duplex transmisson	Passed	
CAT9KJS_1BOX_11	1BOX: Auto duplex transmission with 100MBPS data speed in Interface	To verify whether data transfering successfully or not with 100 mbps Auto duplex transmisson	Passed	

CAT9KJS_1BOX_12	1BOX: Half duplex transmission with 1GBPS data speed in Interface	To verify whether data transfering in only one direction at atime or not with 1GBPS Half duplex transmisson	Passed	
CAT9KJS_1BOX_13	1BOX: Full duplex transmission with 1GBPS data speed in Interface	To verify whether data transfering in bidirectional or not with 1GBPS Full duplex transmisson	Passed	
CAT9KJS_1BOX_14	1BOX: Auto duplex transmission with 1GBPS data speed in Interface	To verify whether data transfering successfully or not with 1GBPS Auto duplex transmisson	Passed	
CAT9KJS_1BOX_15	1BOX: Full duplex transmission with 10GBPS data speed in Interface	To verify whether data transfering in bidirectional or not with 10GBPS Full duplex transmisson	Passed	
CAT9KJS_1BOX_16	1BOX: Auto duplex transmission with 10GBPS data speed in Interface	To verify whether data transfering successfully or not with 10GBPS Auto duplex transmisson	Passed	
CAT9KJS_1BOX_17	1BOX: Half duplex transmission with Auto data speed in Interface	To verify whether data tramitting automatically or not with Half duplex trasmission	Passed	
CAT9KJS_1BOX_18	1BOX: Full duplex transmission with Auto data speed in Interface	To verify whether data tramitting automatically or not with Full duplex trasmission	Passed	
CAT9KJS_1BOX_19	1BOX: Auto duplex transmission with Auto data speed in Interface	To verify whether data tramitting automatically or not with Auto duplex trasmission	Passed	
CAT9KJS_1BOX_20	1BOX: Check the client access after POE remove from switch	To verify whether after POE remove from Switch clients getting the access or not	Failed	CSCvo71796

CAT9KJS_1BOX_21	1BOX: Connecting POE after remove POE and checking configurations	To verify whether configurations are getting properly or not after POE connect	Passed	
CAT9KJS_1BOX_22	1BOX: LED behaviour on switch at the time of rebooting	To verify whether LED behaviour is chaging or not at the time of rebooting	Passed	
CAT9KJS_1BOX_23	1BOX: Checking the Port LED behaviour at the time of interface UP/Down	To verify whether Port LED behaviour showing properly or not at the time of interface UP/Down	Passed	
CAT9KJS_1BOX_24	1BOX: Cross-stack EtherChannel configuration if you turn off PAgP or LACP	To verify whether Cross-stack Ether channel is configuring propely or not without PAgP or LACP	Passed	
CAT9KJS_1BOX_25	1BOX: Configure the EtherChannel with PAgP when Cross-stack ether-channel enable	To verify whether PAgP enabling or not when ether-channel enable	Passed	
CAT9KJS_1BOX_26	1BOX: Configuring of the EtherChannel when you enable Active mode LACP	To verify whether Ether-channel with Active mode LACP is enabling or not	Passed	
CAT9KJS_1BOX_27	1BOX: Configuring of the EtherChannel when you enable Passive mode LACP	To verify whether Ether-channel with Passive mode LACP is enabling or not	Passed	
CAT9KJS_1BOX_28	1BOX: Check error disable with different duplex types	To verify whether Port is changing mode with different duplex to the error disable or not	Passed	
CAT9KJS_1BOX_29	1BOX: Check error disable with Port channel misconfiguration/BPDU guard violation	To verify whether Port is changing mode with Port channel misconfiguration/BPDU guard violation to the error disable or not	Passed	

CAT9KJS_1BOX_30	1BOX: Check the defualt MTU value for each interface	To verify whether defualt MTU value is showing properly or not	Passed	
CAT9KJS_1BOX_31	1BOX: Reboot the Switch after interface made UP	To verify whether after reboot the switch weather previous details are showing properly or not	Passed	
CAT9KJS_1BOX_32	1BOX: Assigning the IP address to interface	To verify whether IP address assigned successfully to interface or not	Passed	
CAT9KJS_1BOX_33	1BOX: Configuring the Strom control to Interface	To verify whether Strom control is confiruing successfully to interface or not	Passed	
CAT9KJS_1BOX_34	1BOX: Configring the MAB and dot1x to interface	To verfiy whether MAB and dot1x Configured successfully or not	Passed	

6 Box Redundancy Test w/Unicast and Multicast

Logical ID	Title	Description	Status	Defect ID
CAT9KJS_6box_01	6box: Stack Wise cable connection with CAB-STACK-50CM between 2 Switches	To verify whether Stacking happening with Cisco Stack Wise 50-cm stacking cable or not between 2 Switches	Passed	
CAT9KJS_6box_02	6box: Checking the Stack member details after newly joined Switch	To verify whether Switch is getting the proper Stack details or not for newly joined	Passed	
CAT9KJS_6box_03	6box: Duplicate stack number configuration for Switch through Manual	To verify whether Duplicate number is possible to assign to the newly joined Switch	Passed	

CAT9KJS_6box_04	6box: Assigning the manual priority value to the Switch	To verify whether Priority value is changing to the Switch or not	Passed	
CAT9KJS_6box_05	6box: Master Stack election process based on rules	To verify whether Master Stack election process happening based on the rules or not	Passed	
CAT9KJS_6box_06	6box: Reset the Switch after Stack configurations	To verify after Switch Stack reset, Master election process happening or not	Passed	
CAT9KJS_6box_07	6box: Power off the Stack master after Stack configurations	To verify after Power off the Stack master, New switch electing as Master or not	Passed	
CAT9KJS_6box_08	6box: Stack master is removed from the stack	To verify Master election happening or not after remove the stack master	Failed	CSCvo55767
CAT9KJS_6box_09	6box: Check Stack master Switch has failed case	To verify whether Master Stack election happening or not when the Stack master switch has failed	Failed	CSCvo51247
CAT9KJS_6box_10	6box: Stack mode button observation	To verify whether Stack mode button changing or not at the time of Stack Master election	Passed	
CAT9KJS_6box_11	6box: Configuring the Maximum channel-group	To verify whether maximum channel group is configured successfully or not	Passed	
CAT9KJS_6box_12	6box: Identifying the Switch by using the beacon from CLI	To verify whether it is possible to identify the switch with beacon or not	Passed	
CAT9KJS_6box_13	6box: Check the Redundency in 9200 Switch	To verify whether Redundecy working or not in 9200 Switch	Passed	

CAT9KJS_6box_14	Disabling/Enabling the Stack port in 6box test	To verify whether Stack port is disabling/enabling or not in Stack	Passed	

Scalability Throughput

Logical ID	Title	Description	Status	Defect ID
CAT9KJS_Scal_01	TP: Check the Scalability with Maximum number of VLANs	To verify whether Scalability is good or not with Maximum number of VLANs	Passed	
CAT9KJS_Scal_02	TP: Checking the scalability with Maximum MAC address	To verify whether Scalability is good or not with Maximum Mac address table	Passed	
CAT9KJS_Scal_03	TP:Configuring the 802.1Q tunnel port to VLAN with Maximum Throughput	To verify with maximum throughput device preformance is with 802.11Q tunnel	Passed	
CAT9KJS_Scal_04	TP: Configuring the IGMP group with maximum Load	To verify whether Maximum through serving with Maximum IGMP group or not	Passed	
CAT9KJS_Scal_05	TP: Configuring the Internal route with maximum values	To verify whether Internal route with Maximum throughput successfully working the device or not	Passed	
CAT9KJS_Scal_06	TP: Configuring the BGP in Router and checking the details	To verify whether BGP details are showing properly or not for Roter	Passed	
CAT9KJS_Scal_07	TP: Clearing the ARP table	To verify whether ARP table is clearing or not	Passed	
CAT9KJS_Scal_08	TP: Clearing the Routes in Router	To verify whether Routes are deleting or not	Passed	

CAT9KJS_Scal_09	TP: Clearing the mac address-table dynamic address	To verify whether Mac address table is clearing or not	Passed	

Show Technical Support

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_Show-Tech_01	Tech-Support: Verifying the Cisco Express Forwarding (CEF) details of CAT9K Switch	To verify the environment details, install summary, License details of CAT9K device using Cisco Express Forwarding (CEF)	Passed	
Cat9KJS_Show-Tech_02	Tech-Support: Verifying the Interprocessor communication (IPC) details of CAT9K Switch	To verify the IPC System status, IPC Nodes, of CAT9K device using Interprocessor communication (IPC) command	Passed	
Cat9KJS_Show-Tech_03	Tech-Support: Verifying the IP Multicast details of CAT9K Switch	To verify the IP Multicast redundancy statistics of CAT9K device using ipmulticast command	Passed	
Cat9KJS_Show-Tech_04	Tech-Support: Verifying the IP Sec details of CAT9K Switch	To verify the details of IP Sec in CAT9k device	Passed	
Cat9KJS_Show-Tech_05	Tech-Support: Verifying the OSPF details of CAT9K Switch	To verify the details of OSPF in CAT9k device	Passed	
Cat9KJS_Show-Tech_06	Tech-Support: To verify the Performance monitor details in CAT9k device.	To verify the Performance monitor details in CAT9k device	Passed	

Cat9KJS_Show-Tech_07	Tech-Support: To verify the PoE (Power Inline) details in CAT9k device.	To verify the Power inline details, Control register and control status of the interfaces using the PoE command in CAT9k device	Passed	
Cat9KJS_Show-Tech_08	Tech-Support: To verify the details of Resource reservation Protocol (RSVP) in CAT9k device	To verify the IP rsvp interface details using the show-tech rsvp command in CAT9k device	Passed	

Maintenance

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_Maint_01	Verifying the power status of CAT9K device in CLI after disconnecting the power supply(which has a redundant supply)	To verify the power status of CAT9K device in CLI after disconnecting the power supply(which has a redundant supply)	Passed	
Cat9KJS_Maint_02	Verifying the replacement of a failure SFP in CAT9K device.	To verify the replacement of a failure SFP in CAT9K device.	Passed	
Cat9KJS_Maint_03	Verifying the replacement of a failure cable in CAT9K device.	To verify the replacement of a failure cable in CAT9K device.	Passed	
Cat9KJS_Maint_04	Verifying the power outage and recovery of a CAT9K device.	To verify the power outage and recovery of a CAT9K device.	Passed	
Cat9KJS_Maint_05	Verifying the power supply by replacing the failure unit with a new one.	To verify the replacement of the failure power supply with a new one.	Passed	
Cat9KJS_Maint_06	Verifying the power status of Cat9K	To verify whether the power status of Cat9K is displayed correctly or not	Passed	

Cat9KJS_Maint_07	Verifying the availability and status of Fan in each modules of CAT9K	To verify if the availability and status of the fan in each module is shown correctly	Passed	
Cat9KJS_Maint_08	Verifying the CPU Usage of CAT9K device	To verify if the CPU Usage of the CAT9K device is displayed correctly	Passed	
Cat9KJS_Maint_09	Verifying the MAC Addresses of CAT9K device in the stack	To Verify the MAC Address of the CAT9K Switch	Passed	
Cat9KJS_Maint_10	Verify the IP Address w.r.t Hardware address in CAT9K Stack.	To verify the IP Address w.r.t Hardware address in CAT9K stack	Passed	
Cat9KJS_Maint_11	Verify the IP Route summary of CAT9K Stack.	To verify the IP Route summary of CAT9K stack	Passed	
Cat9KJS_Maint_12	Check the Digital Optical Monitoring in the optical interfaces	To verify whether DOM can show the Optical Rx and Tx levels is:	Passed	

Software Maintenance

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_S/W_Maintenance_01	S/W Maintenance: Verifying the Upgradation of Cat9K Software using FTP	To verify if the CAT9K device's software is upgraded with the latest build	Passed	
Cat9KJS_S/W_Maintenance_02	S/W Maintenance: Verifying the Upgradation of Cat9K Software using TFTP	To verify if the CAT9K device's software is upgraded with the latest build	Passed	
Cat9KJS_S/W_Maintenance_03	S/W Maintenance: Downgrading Cat9K's Software using FTP	To verify if the CAT9K device's software is downgraded with the chosen build	Passed	

Cat9KJS_S/W_Maintenance_04	S/W Maintenance: Downgrading Cat9K's Software using TFTP	To verify if the CAT9K device's software is downgraded with the chosen build	Passed	
Cat9KJS_S/W_Maintenance_05	S/W Maintenance: Upgrading Software by providing a wrong file format in CAT9K device.	To verify the upgradation of the software update by provide wrong file format.	Passed	
Cat9KJS_S/W_Maintenance_06	S/W Maintenance: Verifying the Upgradation of Cat9K Software without cleaning up the disks	To verify if the CAT9K device's software is upgraded with the latest build	Passed	
Cat9KJS_S/W_Maintenance_07	S/W Maintenance: Verifying the Upgradation of Cat9K Software by interrupting the installation and reinitiating the process	To verify the upgradation of Cat9K Software by interrupting the installation and reinitiating the process	Passed	
Cat9KJS_S/W_Maintenance_08	S/W Maintenance: Verifying the installation of Software maintenance package in CAT9K devices	To verify the installation of Software maintenance package in CAT9K devices	Passed	
Cat9KJS_S/W_Maintenance_09	S/W Maintenance: Verifying the deactivation of Software maintenance package in CAT9K devices	To verify the deactivation of Software maintenance package in CAT9K devices	Passed	

Interoperability

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_intero_01	Connectng the wlc with cat9k switch port	Verify that user is able to access WLC via cat 9k	Passed	

Cat9KJS_intero_02	Connectng the ME with cat9k switch	Verify that user is able to access CME via cat 9k	Passed	
Cat9KJS_intero_03	Connectng the autonomous ap with cat9k switch port	Verify that user is able to access autonomas ap via cat 9k	Passed	
Cat9KJS_intero_04	Authenticating the wireless client with 802.1x	Verify that wireless client able to pass the traffice via cat9k or not	Passed	
Cat9KJS_intero_05	Authenticating the wired client with 802.1x on single and multi mode	Verify that wired client able to pass the traffice via cat9k or not	Passed	
Cat9KJS_intero_06	Authenticating the wired client with 802.1x on multi-auth mode	Verify that wired client able to pass the traffice via cat9k or not	Passed	
Cat9KJS_intero_07	Adding cat9k in prime infrastature	Verify that user is able to manage Cat9k from PI or not	Passed	CSCvo64448
Cat9KJS_intero_08	Connecting switch with cat 9k	Verify that cat9k able to give acess to other switch or not	Passed	
Cat9KJS_intero_09	Connecting router with cat 9k	Verify that cat9k able to give acess router or not	Passed	
Cat9KJS_intero_10	Performing MAB authentication for different-2 devices on switchport in single and multi modes	Checking the MAB authentication is working or not for single and multi .	Passed	
Cat9KJS_intero_11	Performing MAB authentication for different-2 devices on switchport in Multi-auth domain.	Checking the MAB authentication is working or not for multi-auth domain.	Passed	
Cat9KJS_intero_12	Connecting 4800 AP with cat9k switch using UPoE	Verify that user is able to access 4800 AP via cat 9k and check if the AP joins the WLC	Passed	

Cat9KJS_intero_13	Connecting cat9k switch using fast PoE	Verify the behaviour of the Cat9K when connected with fast PoE	Passed	

Layer 2

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_layer2_01	Configuring and verify a Trunk Port	Verify that user is able make switch port to trunk port or not	Passed	
Cat9KJS_layer2_02	Defining the Allowed VLANs on a Trunk	Verify that user is able to limit the allowed vlan on trunk port or not	Passed	
Cat9KJS_layer2_03	Creating the SVI and assiging the ip address and name	Verify that user is able to create SVI and assign ip address and name or not	Passed	
Cat9KJS_layer2_04	Enabling and disabling the SVI	Verify that user is able to enable or disable the SVI or not	Passed	
Cat9KJS_layer2_05	Creating or Modifying an Ethernet VLAN	Verify that user is able to config and modify the vlan	Passed	
Cat9KJS_layer2_06	Deleting a VLAN (CLI)	Verify that user is able to delete the VLAN or not	Passed	
Cat9KJS_layer2_07	Creating an Extended-Range VLAN	Verify that user is able to cofigure the vlan with extended-range or not	Passed	
Cat9KJS_layer2_08	Monitoring VLANs	Verify that user is able to monitor the vlans or not	Passed	
Cat9KJS_layer2_09	Configuring and verifying a spanning-tree, PVST+ mode.	Verify that user is able enble spanning tree in pvst mode or not	Passed	

Cat9KJS_layer2_10	Configuring and verifying a spanning-tree, MST mode.	Verify that user is able to enable spanning tree in mst or not	Passed	
Cat9KJS_layer2_11	Configuring and verifying a spanning-tree, rapid-pvst mode.	Verify that user is able to enable spanning tree in rapid-pvst mode or not	Passed	
Cat9KJS_layer2_12	Disabling Spanning Tree	Verify that user is able to disable the spanning tree on vlan	Passed	

RFC2544 : 10G/1G, L2/L3

Logical ID	Title	Description	Status	Defect ID
CAT9KJS_10G/1G_01	10G: Configuring the MTU value	To verify whether MTU value is configuring successfully or not with in the valid range	Passed	
CAT9KJS_10G/1G_02	10G: 10/100G Interface speed to 100 with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with 100 speed	Failed	CSCvk61193
CAT9KJS_10G/1G_03	10G: 10/100GInterface speed to 1000 with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with 1000 speed	Passed	
CAT9KJS_10G/1G_04	10G: 10/100G Interface speed to 2500 with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with 2500 speed	Passed	

CAT9KJS_10G/1G_05	10G: 10/100GInterface speed to 5000 with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with 5000 speed	Passed	
CAT9KJS_10G/1G_06	10G: Interface speed to 10000 with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with 10000 speed	Passed	
CAT9KJS_10G/1G_07	10G: 10/100G Interface speed to auto with different MTU values(64, 128, 256, 512, 1024, 1280, 1518)	To verify whether MTU values are showing properly to the interface with auto speed	Passed	

OSPF

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_OSPF_01	Enabling OSPF with basic configuration	Verify that user is able to enable ospf with basic configuration	Passed	
Cat9KJS_OSPF_02	Define an area as a stub area	Verify that user is able to define stub area or not	Passed	
Cat9KJS_OSPF_03	Displays lists of information related to the OSPF database for a specific router	Verify the OSPF database	Passed	
Cat9KJS_OSPF_04	Verify OSPF fast hello packets	Checking that ospf process router can send the fast hello packets or not	Passed	
Cat9KJS_OSPF_05	Configuring ospf on Loopback Interface	Verify that user is able to configure loopback interface or not	Passed	

Cat9KJS_OSPF_06	Configuring and verify ospf on SVI	Verify that user is able to configure SVI or not	Passed	
Cat9KJS_OSPF_07	Changing LSA Group Pacing	Verify that user is able to change the LSA group pacing or not	Passed	
Cat9KJS_OSPF_08	Configuring ospf cost on loopback interface	Verify that user is able to explicitly specifies the cost of sending a packet on loopback interface.	Passed	
Cat9KJS_OSPF_09	Redistributing static routes with ospf	Verify that user is able to redistribute the static routes or not	Passed	
Cat9KJS_OSPF_10	Configuring ospf cost on SVI	Verify that user is able to explicitly specifies the cost of sending a packet on SVI	Passed	
Cat9KJS_OSPF_11	Defines an area as a not-so-stubby-area	Verify that user is able to define NSSA	Passed	
Cat9KJS_OSPF_12	Displays general information about OSPF routing processes.	Verifying general information of ospf process	Passed	
Cat9KJS_OSPF_13	Displays OSPF interface neighbor information	Verify the ospf interface neighbor information	Passed	
Cat9KJS_OSPF_14	Making passive interface to non passive to make adjacency	Verify that user is able to make interface to non passive interface or not	Passed	
Cat9KJS_OSPF_15	Configuring BFD Support for All Interfaces	Verify that user is able to configure BFD for ospf or not	Passed	
Cat9KJS_OSPF_16	Password-based protection against unauthorized accessto the identified area	Verify that user is able to protect area against unauthorized access or not	Passed	

Logging

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_logg_01	Setting logging buffered size	Verify that user is able to set buffered size or not	Passed	
Cat9KJS_logg_02	Configuring syslog server	Verify that user is able to config syslog server or not	Passed	
Cat9KJS_logg_03	Enabling and Disabling Time Stamps on Log Messages	Verify that user is able to timestamp the log messages or not	Passed	
Cat9KJS_logg_04	Defining the Message Severity Level	Verify that user is able to define the message severity or not	Passed	
Cat9KJS_logg_05	Configuratining the SNMP and general information	Verify that user is able to config the snmp server or not	Passed	
Cat9KJS_logg_06	Receving snmp traps on ospf state-change	Verify that user is getting traps message when ospf state changes	Passed	
Cat9KJS_logg_07	Receving snmp traps on REP changes	Verify that user is getting traps message when REP changes	Passed	
Cat9KJS_logg_08	Receving snmp traps on device envmon changes	Verify that user is getting traps message when envirment of device changes	Passed	
Cat9KJS_logg_09	Receving snmp traps on PIM changes or error	Verify that user is getting traps message when PIM changes	Passed	
Cat9KJS_logg_10	Receving snmp traps for all transceiver	Verify that user is getting traps message for all transceiver or not	Passed	

Cat9KJS_logg_11	Getting syslog after login auth failed	Verify that user is getting syslog after login auth failed	Passed	
Cat9KJS_logg_12	Getting syslog after login auth passed	Verify that user is getting syslog after login auth passed	Passed	
Cat9KJS_logg_13	Stores log messages in a file in flash memory on a standalone switch or stack switch	Verify that user logged the message in a file of flash memory or not	Failed	CSCvo45468
Cat9KJS_logg_14	Synchronizing Log Messages	Verify that user is able to sysnc the log messages or not	Passed	
Cat9KJS_logg_15	Disabling Message Logging	Verify that user is able to disable message logging or not	Passed	
Cat9KJS_logg_16	Getting Console output from USB console Port	Verify that USB Console port is populating the switch console logs or not	Passed	
Cat9KJS_logg_17	Validate the Console output from RJ45 console Port	Verify the RJ45 Console port is working once its connected to Cat9k Console port	Passed	

QoS

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_QOS_01	Configuring Auto-QoS	Verify that user is able to enable auto qos or not	Passed	
Cat9KJS_QOS_02	Creating traffice class	Verify that user create traffice class and classify the traffice or not	Passed	
Cat9KJS_QOS_03	Configuring the bandwidth for the policy map	Verify that user is able to define the bandwith in policy map or not	Passed	

Cat9KJS_QOS_04	Droping a packet which speed crossed the configured speed in policy map	Checking that packet dropping after data rate crossed the rate as configured in policy map	Passed	
Cat9KJS_QOS_05	Setting CoS and sending it	Verify that user is able to set CoS or not	Passed	
Cat9KJS_QOS_06	Setting DSCP value and sending it	Verify that user is able to set DSCP or not	Passed	
Cat9KJS_QOS_07	Assigning strict scheduling priority for the class	Verify that user able to set priority for class or not	Passed	
Cat9KJS_QOS_08	Setting priority level-1	Verify that user is able to set priority level-1 or not	Passed	
Cat9KJS_QOS_09	Setting priority level-2	Verify that user is able to set priority level-2 or not	Passed	
Cat9KJS_QOS_10	Configuring Queue Buffers	Verify the user is able to config queue buffers or not	Passed	
Cat9KJS_QOS_11	Configuring Queue Limits	Verify the user is able to config queue limit or not	Passed	
Cat9KJS_QOS_12	Configuring Shaping	Verify the user is able shape the traffice or not	Passed	
Cat9KJS_QOS_13	Monitoring QoS	Verify that user is able to monitor the QoS or not	Passed	

SSH

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_SSH_01	SSH: Creating an Access class list in CAT9K device	To Verify if the access class list has been created in CAT9K device or not	Passed	

Cat9KJS_SSH_02	SSH: Creating loopback interface in CAT9K device	To Verify if the loopback interface creation in CAT9K device or not	Passed	
Cat9KJS_SSH_03	SSH: Set SSH protocol Version in CAT9K device	To Verify if version to support SSH protocol is set in CAT9K device or not	Passed	
Cat9KJS_SSH_04	SSH: Set IP SSH DSCP value for CAT9K device	To Verify if IP SSH DSCP value for CAT9K device is set correctly for or not	Passed	
Cat9KJS_SSH_05	SSH: Verifying the establishment of SSH connection from Windows 7 workstation.	To Verify the establishment of SSH connection from Windows 7 workstation.	Passed	
Cat9KJS_SSH_06	SSH: Verifying the establishment of SSH connection from Windows 10 workstation.	To Verify the establishment of SSH connection from Windows 10 workstation.	Passed	
Cat9KJS_SSH_07	SSH: Verifying the establishment of SSH connection from Mac OS workstation.	To Verify the establishment of SSH connection from Mac OS workstation.	Passed	
Cat9KJS_SSH_08	SSH:Verifying the establishment of SSH connection from Linux OS.	To Verify the establishment of SSH connection from Linux OS.	Passed	

Generic

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_Generic_01	Generic/Other: Copying the Startup configuration settings from a switch to a TFTP server	Verifying if the Startup configuration is copied to the TFTP server or not	Passed	

Cat9KJS_Generic_02	Generic/Other: Copying the Startup-configuration settings from a TFTP server onto a new switch	To verify if the startup configuration setting from the TFTP Server to Device is copied successfully or not	Passed	
Cat9KJS_Generic_03	Generic/Other: Copying the Running configuration settings from a switch to a TFTP server	Verifying if the Running configuration is copied to the TFTP server or not	Passed	
Cat9KJS_Generic_04	Generic/Other: Copying the Running configuration settings from a TFTP server onto a new switch	To verify if the running configuration setting from the TFTP Server to Device is copied successfully or not	Passed	
Cat9KJS_Generic_05	Generic/Other: Changing the Hostname of the CAT9K device.	To verify the Hostname change of the CAT9K device.	Passed	
Cat9KJS_Generic_06	Generic/Other: Verify the Password encryption for a user in CAT9K stack.	To encrypt the password of a user and verifying it by logging in with the encrypted credential.	Passed	
Cat9KJS_Generic_07	Generic/Other: Configure the NTP server in CAT9K stack.	To configure the CAT9K stack with the NTP server	Passed	
Cat9KJS_Generic_08	Generic/Other: Verify the NTP server configuration in CAT9K stack.	To verify if the CAT9K stack is configured with correct NTP server or not	Passed	
Cat9KJS_Generic_09	Generic/Other: Write the running configuration to the local memory of CAT9K device.	To verify if the running configuration is saved to the local memory of CAT9K device using the write command or not	Passed	

Cat9KJS_Generic_10	Generic/Other: Write/Copy the running configuration of CAT9K device on the FTP Server.	To verify if the running configuration of CAT9K device is saved to the FTP Server using the write command or not	Passed	
Cat9KJS_Generic_11	Generic/Other: Write/Copy the running configuration of CAT9K device on the TFTP Server.	To verify if the running configuration of CAT9K device is saved to the TFTP Server using the write command or not	Passed	
Cat9KJS_Generic_12	Generic/Other: Verify the version of the Boot loader image	To check the boot loader version is displayed correctly or not	Passed	
Cat9KJS_Generic_13	Generic/Other: Checking the contents of the Address Resolution Protocol (ARP) table	To verify the contents of the Address Resolution Protocol (ARP) table in CAT9K switch or not	Passed	
Cat9KJS_Generic_14	Generic/Other: Delete the files from the specified file system from CAT9K stack.	To Verify if the file is deleted successfully from the CAT9K device or not	Passed	
Cat9KJS_Generic_15	Generic/Other: Create a Directory in CAT9K device	To verify if the creation of a directory is successful in CAT9K device or not	Passed	
Cat9KJS_Generic_16	Generic/Other: Rename a file in CAT9K device.	To Verify if the file is renamed is successful in CAT9K device or not	Passed	
Cat9KJS_Generic_17	Generic/Other: Verifying the Version of the CAT9K device.	To verify the Version of the CAT9K device	Passed	

Cat9KJS_Generic_18	Generic/Other: Verifying the VLAN details of the CAT9K device.	To verify the VLAN details like VLAN ID, Type and interface details of the CAT9K device or not	Passed	
Cat9KJS_Generic_19	Generic/Other: Verifying the Flash memory details of the CAT9K device.	Verifying the flash memory detail of the CAT9K device	Passed	
Cat9KJS_Generic_20	Generic/Other: Verifying the IP SSH details of the CAT9K device.	To verify the IP SSH detail like version and authentication timeout of the CAT9K device.	Passed	
Cat9KJS_Generic_21	Generic/Other: Verifying the License details of the CAT9K device.	To verify the License detail w.r.t features of the CAT9K device	Passed	
Cat9KJS_Generic_22	Generic/Other: Verifying the Startup configuration of the CAT9K device.	To verify the Startup configuration details like interfaces, passwords and stack details of the CAT9K device.	Passed	
Cat9KJS_Generic_23	Generic/Other: Verifying the System Clock of CAT9K device.	To verify the time set in CAT9K device is correct or not	Passed	
Cat9KJS_Generic_24	Generic/Other: Verifying the System MTU of CAT9K device.	To verify the System MTU of CAT9K device	Passed	
Cat9KJS_Generic_25	Generic/Other: Checking the available memory summary of CAT9K device.	To verify the total available memory summary of CAT9K device.	Passed	
Cat9KJS_Generic_26	Generic/Other: Verify the Boot attributes of CAT9K device.	To verify the Boot attributes like mode, boot variables of CAT9K device.	Passed	

Cat9KJS_Generic_27	Generic/Other: Verify the Power inline of the interfaces in CAT9K stack.	To verify the Power inline of the all the CAT9K devices in the stack	Passed	
Cat9KJS_Generic_28	Generic/Other: Verify the summary of the interfaces in CAT9K device.	To verify the summary of the interfaces in CAT9K device	Passed	
Cat9KJS_Generic_29	Generic/Other: Verify the status and description of the Interfaces in CAT9K stack.	To verify the status and protocol description of the Interfaces in CAT9K stack	Passed	
Cat9KJS_Generic_30	Generic/Other: Verify the Switch-port Information of the Interfaces in CAT9K stack.	To verify the Switch-port Information like Administrative mode, Trunk VLANs of the Interfaces in CAT9K stack.	Passed	
Cat9KJS_Generic_31	Generic/Other: Verify the summary of the trunk interfaces for a single module in CAT9K stack.	To verify the summary of the trunk interfaces for a single module in CAT9K stack.	Passed	
Cat9KJS_Generic_32	Generic/Other: Verify the software installation summary CAT9K stack.	To verify the software installation summary CAT9K stack.	Passed	
Cat9KJS_Generic_33	Generic/Other:Validate the Cross stack MEC (Failover and Recovery)	To validate the Cross stack MEC (Failover and Recovery) scenario in CAT9K switches.	Passed	

IP Multicast

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_mult_01	Verifying user is able perform Basic IP Multicast Routing or not	Verify that user is able to config basic ip multicast or not	Passed	

Cat9KJS_mult_02	Configuring the PIM sparse mode on SVI	Verify that user is able to enable PIM sparse mode on SVI or not	Passed	
Cat9KJS_mult_03	Configuring the PIM sparse mode on loopback interface	Verify that user is able to enable PIM sparse mode on loopback interface	Passed	
Cat9KJS_mult_04	Configuring and verifying the IP Multicast Forwarding	Verify that user is able to config basic ip multicast forwarding or not	Passed	
Cat9KJS_mult_05	Verify that user is able to perform mutlticast routing with static Multicast Route	Verify that user is able to config static multicast route or not	Passed	
Cat9KJS_mult_06	Defining the ip multicast boundry	Verify that user is able to define the ip multicast boundry or not	Passed	
Cat9KJS_mult_07	Configuring and verifying the Device as a member of a multicast Group	Verify that user is able add a device in multicast group or not	Passed	
Cat9KJS_mult_08	Controlling Access to IP Multicast Group via IGMP profile	Verify that user is able to controll to multicast group via IGMP profile or not	Passed	
Cat9KJS_mult_09	Changing the IGMP version	Verify that user is able to change the IGMP version or not	Passed	
Cat9KJS_mult_10	Enabling or disabling IGMP Snooping on a VLAN Interface	Verify that user is able to enable or disabling igmp snooping on particular vlan interface or not	Passed	
Cat9KJS_mult_11	Configuring the PIM stub interface	Verify that user is able to enable PIM stub interface or not	Passed	
Cat9KJS_mult_12	Setting the auto RP on a network	Verify that user is able to set auto RP in a network or not	Passed	

Cat9KJS_mult_13	Configuring and verify the PIMv2 BSR	Verify that user is able to config PIMv2 BSR or not	Passed	
Cat9KJS_mult_14	Checking that igmp member leaving the igmp group after timeout	Verify that user is able to configure IGMP leave timer or not	Passed	
Cat9KJS_mult_15	Manually Assigning an RP to Multicast Groups	Verify that user is able to an RP to multicast group or not	Passed	

Keep Alive

Logical ID	Title	Description	Status	Defect ID
CAT9KJS_Keep_alive_01	Alive: Configuring the Keep-alive time on Ethernet interface	To verify whether is it possible to configure the Keep-alive on Ethernet interface or not	Passed	
CAT9KJS_Keep_alive_02	Alive: Configuring with different protocol Keep-alives between Router interfaces	To verify between two interfaces it is possible configure the Keep-alive with different protocols	Passed	
CAT9KJS_Keep_alive_03	Alive: Verifying the PING between different clients	To verify whether PING successfully or not between different clients	Passed	
CAT9KJS_Keep_alive_04	Alive: Tunnel interface Keep-alive configuration	To verify whether Tunnel interface is configuring with Keep-alive or not	Passed	
CAT9KJS_Keep_alive_05	Alive:Ensure KeepAlive packets detects the loop	To verify whether the keepalive packets could detect the loop and put related interface into errdisable status or not.	Passed	

Longevity

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_long_01	Validating the consistent Ping Interval Time & TTL with any variations between the cat9k,and other network devices for 3-4 days	Verify network device is pinging for 3-4 days from cat 9k	Passed	
Cat9KJS_long_02	Validating the consistent Ping Interval Time & TTL with any variations between the cat9k,and windows client for 3-4 days	Verify windows client is pinging for 3-4 days from cat 9k	Passed	
Cat9KJS_long_03	Validating the consistent Ping Interval Time & TTL with any variations between the cat9k,and macbook client for 3-4 days	Verify macbook client is pinging for 3-4 days from cat 9k	Passed	
Cat9KJS_long_04	Performing the recursive Traceroute between network devices and cat 9k consecutively	Verify that network is traceing for 3-4 days from cat 9k	Passed	
Cat9KJS_long_05	Performing the recursive Traceroute between wired windows client and cat 9k consecutively to ensure it works uninterruptedly for 48 hours	Verify that windows client is traceing for 3-4 days form cat 9k	Passed	

Cat9KJS_long_06	Performing the recursive Traceroute between macbook and cat 9k consecutively to ensure it works uninterruptedly for 48 hours	Verify that macbook client traceing for 3-4 days from cat 9k	Passed	
Cat9KJS_long_07	Monitroing the net state of port via which windows client connected for 3-4 days	Verify that net state of port is when connect with windows client for 4-5 days or not	Passed	
Cat9KJS_long_08	Monitroing the net state of port via which macbook client connected	Verify that net state of port is when connect with macbook for 4-5 days or not	Passed	
Cat9KJS_long_09	Checking the devices are pingable from cat 9k when network device or connected port down for 3-4 days	Verify that user is able to ping the network device from cat 9k when network devices or connected port is down	Passed	
Cat9KJS_long_10	Checking the devices are pingable from cat 9k when windows client or connected port down for 3-4 days	Verify that user is able to ping the windows client from cat 9k when client device or connected port is down	Passed	
Cat9KJS_long_11	Checking the devices are pingable from cat 9k when macbook or connected port down down for 3-4 days	Verify that user is able to ping the network device from cat 9k when macbook or connected port is down	Passed	

Test Traffic

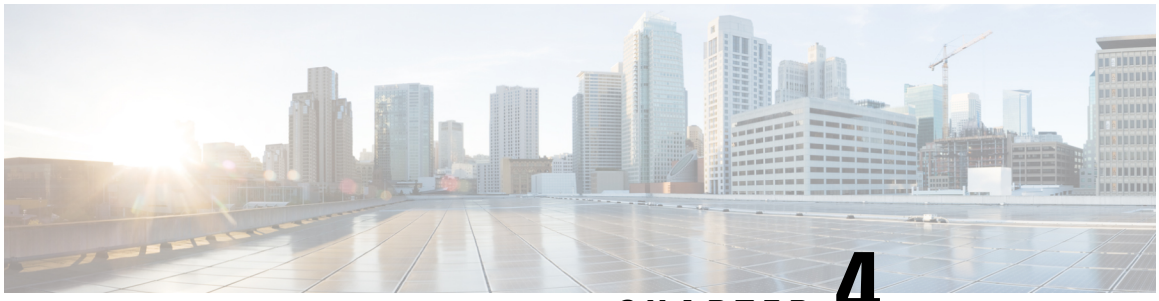
Logical ID	Title	Description	Status	Defect ID
CAT9KJS_Traf_01	Traffic: Checking the VOIP traffic flow in Cat 9k via Wireshark	To verify whether VOIP traffic is transfering successfully or not	Passed	

CAT9KJS_Traf_02	Traffic: Checking the SIP traffic flow in Cat 9k via Wireshark	To verify whether Session indication protocol establishing the session or not	Passed	
CAT9KJS_Traf_03	Traffic: Checking the SSH traffic flow in Cat 9k via Wireshark	To verify whether SSH traffic is generating or not	Passed	
CAT9KJS_Traf_04	Traffic: Checking the Telnet traffic flow in Cat 9k via Wireshark	To verify whether Telnet traffic is generating or not	Passed	
CAT9KJS_Traf_05	Traffic: Checking the FTP traffic flow in Cat 9k via Wireshark	To verify whether file transfering successfully to the FTP server or not	Passed	
CAT9KJS_Traf_06	Traffic: Checking the TFTP traffic flow in Cat 9k via Wireshark	To verify whether File transfering successfully to device by using the TFTP server	Passed	
CAT9KJS_Traf_07	Traffic: Checking the HTTP traffic flow in Cat 9k via Wireshark	To verify whether HTTP taffic is transfering or not	Passed	
CAT9KJS_Traf_08	Traffic: Checking the HTTPS traffic flow in Cat 9k via Wireshark	To verify whether HTTPs taffic is transfering or not	Passed	
CAT9KJS_Traf_09	Traffic: Checking the RDP traffic flow in Cat 9k via Wireshark	To verify whether RDP transfering successfully or not	Passed	
CAT9KJS_Traf_10	Traffic: Checking the TCP traffic flow in Cat 9k via Wireshark	To verify whether TCP packets are transfering or not	Passed	
CAT9KJS_Traf_11	Traffic: Checking the UDP traffic flow in Cat 9k via Wireshark	To verify whether UDP packets are transfering or not	Passed	

Memory Leak (Test performed on Catalyst 9200L, 9300, 9400 & 9500)

Logical ID	Title	Description	Status	Defect ID
Cat9KJS_memory_01	Check the traffic in OSPF topology for ping,ftp and http flows using Ixia as the endpoint	To validate the traffic of OSPF toplogy with ping,ftp,http using Ixia as the endpoint and check the traffic flow for 5 to 6 hours	Passed	
Cat9KJS_memory_02	Monitoring the Process_mgr ,Iman, fman, periodic.sh process in OSPF topology for checking the memory size for every 24 hours .	To monitor the Process_mgr ,Iman, fman,periodic.sh process in OSPF topology to check the memory size for every 24 hours .	Failed	CSCvo81191
Cat9KJS_memory_03	Check the traffic of EIGRP topology with ping,ftp and http using Ixia as the endpoint	To validate the traffic of EIGRP toplogy with ping,ftp,http using Ixia as the endpoint and check the traffic flow for 5 to 6 hours	Passed	
Cat9KJS_memory_04	Monitoring the Process_mgr ,Iman, fman,periodic.sh process in EIGRP topology for checking the memory size for every 24 hours .	To monitor the Process_mgr ,Iman, fman,periodic.sh process in EIGRP topology to check the memory size for every 24 hours .	Passed	
Cat9KJS_memory_05	Check the traffic of SNMP protocol with ping,ftp and http using Ixia as the endpoint	To validate the traffic of SNMP protocol with ping,ftp,http using Ixia as the endpoint and check the traffic flow for 5 to 6 hours	Passed	

Cat9KJS_memory_06	Monitoring the Process_mgr ,Iman, fman,periodic.sh process in SNMP protocol for checking the memory size for every 24 hours .	To monitor the Process_mgr ,Iman, fman,periodic.sh process in EIGRP topology to check the memory size for every 24 hours .	Passed	



CHAPTER 4

Related Documentation

- Related Documentation, on page 41

Related Documentation

Cisco Catalyst 9200 Switch Configuration Guide

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9200/software/release/16-9/configuration_guide/b-169-9200-cg.html

Cisco Catalyst 9300 Switch Configuration Guide

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9300/software/release/16-9/configuration_guide/b-169-9300-cg.html

Cisco Catalyst 9400 Switch Configuration Guide

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9400/software/release/16-9/configuration_guide/b-169-9400-cg.html

Cisco Catalyst 9500 Switch Configuration Guide

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst9500/software/release/16-9/configuration_guide/b-169-9500-cg.html

Related Documentation