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Process Owner: IT Operations	Configuration Change Request	F-CMG-3.1

Request Information					
Requestor	Alv	Alvis Bajal			
Implementing Team	Net	Network Operations			
Ticket Number/s	201914302				
Change Classification	Х	Major		Minor	
After the fact		Yes	Х	No	
Emergency		Yes	Х	No	
Proposed Change Date	Apr	ril 19, 2019			
Proposed Change Start/End Time	15:00				
Proposed Change Verification Time	15:10				

Objective of the change

To setup new network configurations (Firewall Policies, Address Objects, Web and App filtering, VLANs, ACLs) for Executives and Backoffice.

Technical/Operational Impact of the change				
Negative:	Beneficial:	Neutral:		
Added means and CDU was a	Declassian and Everything will	N1/A		
Added memory and CPU usage	Backoffice and Executives will	N/A		
in Zeus and Jupiter.	have separate broadcast			
	domain.			

Affected	Affected IT Infrastructure components			
Site	Hostname	IP Address	Function	
JAKA	ZEUS	172.31.1.1	Network Core Switch	
JAKA	JUPITER	172.31.1.252	Network Core Switch	
JAKA	THOR	172.16.1.2	Network Firewall	

Affected Departments and corresponding contact persons			
Department	Contact Name	Contact Info	
IT Department	Rynel Yanes	09178535630	
Network Operations	Maurice Mendoza	09176881085	

Test Environment implementation and Verification Summary

No test environment implementation was needed since this was already done before by the Network Operations Team.

Test Environment Results Summary	
N/A	

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Configuration Change Template

Baseline File	3.1.101, 3.1.102, 3.1.103, 3.1.104, 3.1.113
Baseline Version	N/A

Baseline File Changes:

Existing Configuration	Proposed Change	Impact	Section
No existing config in Zeus and Jupiter for Executive and backoffice.	To create a separate VLAN segment for Executive, Back Office and own IPv4 policy for back office.	VLAN, Address Object, IPv4 Policy Group, Web and Application Filter	3.1.101 3.1.102 3.1.103 3.1.104 3.1.113

Physical Implementation P	rocedures /	' Advisory
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No physical implementation is needed for this change docs.

Backup Procedures

- I. Part A. (Firewall Configuration)
 - 1. Access THOR.
 - 2. Backup configuration with the following naming convention and then save it inside:

\\fs.oampi.com\It\IT_Backup\Back Up\Network Operations

- 3. BACKUP_<device>_<DATE>_<TIME>.EXTENSION, eg. BACKUP_THOR_07152017_17:00.cfg
- II. Part B. (Switch Configuration)
 - 1. Access Zeus/Jupiter
 - 2. Run the command "show run" then highlight all and paste it to the notepad then Save with the naming convention:
 - 3. BACKUP_<device>_<DATE>_<TIME>, eg: BACKUP_ZEUS_07152017_17:00

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Physical Implementation Procedures

No physical implementation is needed for this change docs.

Technical Configuration Procedures

- I. PART A. (Switch Configuration)
 - 1. Access Zeus via SSH
 - 2. Copy and paste the commands below:

int vlan 70 description EXEC_BACKOFFICE ip address 172.18.70.253 255.255.255.0 ip helper-address 172.17.0.121 standby version 2 standby 70 ip 172.18.70.254 standby 70 timers 1 3 standby 70 priority 180 standby 70 preempt standby 70 track 1 decrement 50

spanning-tree vlan 70 24576 spanning-tree vlan 70 forward-time 4 spanning-tree vlan 70 max-age 6

- 3. Access Jupiter via SSH
- 4. Copy and paste the commands below:

int vlan 70 description EXEC_BACKOFFICE ip address 172.18.70.252 255.255.255.0 ip helper-address 172.17.0.121 standby version 2 standby 70 ip 172.18.70.254 standby 70 timers 1 3 standby 70 priority 150 standby 70 preempt standby 70 track 1 decrement 10

spanning-tree vlan 70 priority 36384 spanning-tree vlan 70 forward-time 4 spanning-tree vlan 70 max-age 6



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5. Request help from the server team to create DHCP pool for this address:

INT_EXEC_BACKOFFICE Network: 172.18.70.0/24

Scope: 172.18.70.1/172.18.70.245

Router: 172.18.70.254

6. Login to FortiGate Thor via Web

7. Access **THOR** via **https**, go to **Security Profile > Web Filter**Click the + button at the upper right corner to create new web filter.

Name: WF_CAPABILITY

Follow the Category Filter

Category	Name	Action	
Local Catagories	Custom1	Allow	
Local Categories	Custom2	Allow	
	Child Abuse	Block	
	Discrimination	Block	
	Drug Abuse	Block	
	Explicit Violence	Block	
Potentially Liable	Extremist Groups	Block	
	Hacking	Block	
	Illegal or Unethical	Block	
	Plagiarism	Block	
	Proxy Avoidance	Block	
	Abortion	Block	
	Advocacy Organizations	Block	
	Alcohol	Block	
Adult / Mature Content	Alternative Beliefs	Block	
	Dating	Block	
	Gambling	Block	
	Lingerie and Swimsuit	Block	

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	Marijuana	Block
	Nudity and Risque	Block
-	Other Adult Materials	Block
	Pornography	Block
	Sex Education	Block
	Sports Hunting and War Games	Block
	Tobacco	Block
	Weapons (Sales)	Block
	File Sharing and Storage	Allow
	Freeware and Software Downloads	Block
Bandwidth Consuming	Internet Radio and TV	Block
Bandwidth Consuming	Internet Telephony	Allow
	Peer-to-peer File Sharing	Block
	Streaming Media and Download	Block
	Dynamic DNS	Block
	Malicious Websites	Block
Security Risk	Newly Observed Domain	Block
Security Nisk	Newly Registered Domain	Block
	Phishing	Block
	Spam URLs	Block
	Advertising	Block
	Arts and Culture	Block
	Auction	Block
	Brokerage and Trading	Block
	Child Education	Block
General Interest - Personal	Content Servers	Allow
	Digital Postcards	Block
	Domain Parking	Block
	Dynamic Content	Block
	Education	Block
	Entertainment	Block

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	Folklore	Block
	Games	Block
	Global Religion	Block
	Health and Wellness	Block
	Instant Messaging	Allow
	Job Search	Block
	Meaningless Content	Block
	Medicine	Block
	News and Media	Allow
	Newsgroups and Message Boards	Block
	Personal Privacy	Block
	Personal Vehicles	Block
	Personal Websites and Blogs	Block
	Political Organizations	Block
	Real Estate	Block
	Reference	Block
	Restaurant and Dining	Block
	Shopping	Block
	Social Networking	Block
	Society and Lifestyles	Block
	Sports	Block
	Travel	Block
	Web Chat	Allow
	Web-based Email	Allow
	Armed Forces	Block
	Business	Allow
	Finance and Banking	Block
General Interest - Business	General Organizations	Allow
	Government and Legal Organizations	Allow
	Information Technology	Allow
	Information and Computer Security	Allow



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	Search Engines and Portals	Allow
	Secure Websites	Allow
	Web Hosting	
	Web-based Applications	Allow
Unrated	Unrated	Block

a. Create new URL Filter and copy the lists of websites below.

spotify.com	-	wildcard	-	block	
facebook.com	-	wildcard	-	block	
lazada.com	-	wildcard	-	block	
youtube.com	-	wildcard	-	Allow	
viber.com	-	wildcard	-	block	
vimeo.com	-	wildcard	-	block	
twitter.com	-	wildcard	-	block	
instagram.com	-	wildcard	-	block	
soundcloud.com	-	wildcard	-	block	
freemoviedownloads@	com	- wild	card	-	block

Click APPLY button.

b. Go to **Security Profile** > **Application Control.** Click the + to add new application sensor.

Name: AC_CAPABILITY

Copy the following Categories

Categories	Action
Business	Allow
<u>Cloud.IT</u>	Allow
Collaboration	Allow
Email	Allow
Game	Block
General.Interest	Allow
Mobile	Allow
Network.Service	Allow
P2P	Block



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Proxy	Block
Remote.Access	Block
Social.Media	Block
Storage.Backup	Block
Update	Block
Video/Audio	Block
VoIP	Allow
Web.Client	Allow
Unknown	
Applications	Block

c. On Application Override, click **add signatures** and copy the following configuration:

Application Signature	Category	Action
Adobe.Update	Update	Block
AVI.Media.Player	Video/Audio	Block
Baidu.Player	Video/Audio	Block
BBC.iPlayer	Video/Audio	Block
Chrome.Update	Update	Block
Facebook_Messenger.Image.Transfer	Collaboration	Block
Facebook_Messenger.Video.Transfer	Collaboration	Block
Facebook_Messenger.Voice.Message	Collaboration	Block
Facebook_Messenger.VoIP.Call	Collaboration	Block
Facebook_Video.Play	Social.Media	Block
Firefox.Update	Update	Block
Flowplayer	Video/Audio	Block
GOM.Player	Video/Audio	Block
Google.Play	General.Interest	Block
Google.Drive	Storage.Backup	Allow
Google.Drive_Edit	Storage.Backup	Allow
Google.Drive_File.Download	Storage.Backup	Allow

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Google.	Drive_File.Upload	Storage.Backup	Allow
Google.	Drive_File.Sharing	Storage.Backup	Allow
Instagra	m	Social.Media	Block
Instagra	m_Video	Social.Media	Block
iTunes_	Select.Play	Video/Audio	Block
iTunes_	Update	Update	Block
Java.Up	date	Update	Block
LinkedIr	1	Social.Media	Block
LinkedIr	n_Message	Social.Media	Block
Microso	ft.Office.Update	Update	Block
Microso	ft.Outlook	Email	Allow
Microso	ft.Outlook.Web.App	Email	Allow
Microso	ft.Outlook_Attachment	Email	Allow
MS.Win	dows.Update	Update	Block
Outlook	.Anywhere	Business	Allow
Pipi.Play	ver	P2P	Block
Playstat	ion.Network	Game	Block
Real.Pla	yer	Video/Audio	Block
SoundCl	oud	Video/Audio	Block
Spotify		Video/Audio	Block
SVT.Play	1	Video/Audio	Block
Twitter		Social.Media	Block
Twitter_	Message	Social.Media	Block
Ubuntu.	Update	Update	Block
UEFA_V	ideo.Play	Video/Audio	Block
Veoh.Pla	ayer	Video/Audio	Block
Viber		VoIP	Block
Window	s.Media.Player	Video/Audio	Block
YouTube	2	Video/Audio	Allow
YouTube	e.Downloader.YTD	Video/Audio	Block
YouTube	e_Comment.Posting	Video/Audio	Block

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YouTube_HD.Streaming	Video/Audio	Allow
YouTube_Search.Safety.Mode.Off	Video/Audio	Allow
YouTube_Search.Video	Video/Audio	Allow
YouTube_Video.Embedded	Video/Audio	Allow

8. Go to Policy & Objects > Address then create address objects using the following details below:

Name: INT_WORKFORCE

Type: Subnet

Subnet: 172.18.70.0/26

Name: INT_RA_QA Type: Subnet

Subnet: 172.18.70.64/26

Name: INT_SECURITY

Type: Subnet

Subnet: 172.18.70.128/26

Name: INT_EXECUTIVE

Type: Subnet

Subnet: 172.18.70.192/26

9. Add the following address objects to the address group EXE_GR_Managers:

INT_EXECUTIVE

10. Add the following address objects to the Source of policy Privileged Access US COLO:

INT_RA_QA
INT_WORKFORCE
INT_SECURITY

11. Create new IPv4 Policy with the following information:

Name: CatchAll RA_QA

Incoming Interface: Internal (port5)

Outgoing Interface: SD-WAN

Source: INT_RA_QA
Destination: all



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Schedule: always Service: 443 TCP

ICMP Action: ACCEPT

Firewall / Network Options

NAT: Enable

IP Pool Config: Use Outgoing Interface Address

Proxy Options: Default

Security Profiles:

Web Filter (enable): BOFC Application Filter (enable): BOFC

Logging Options:

Log Allowed Traffic (enable) [Security Events]

Enable this policy (enable)

Name: CatchAll WORKFORCE

Incoming Interface: Internal (port5)

Outgoing Interface: SD-WAN Source: INT WORKFORCE

Destination: all Schedule: always Service: 443 TCP

ICMP Action: ACCEPT

Firewall / Network Options

NAT: Enable

IP Pool Config: Use Outgoing Interface Address

Proxy Options: Default

Security Profiles:

Web Filter (enable): BOFC Application Filter (enable): BOFC

Logging Options:

Log Allowed Traffic (enable) [Security Events]

Enable this policy (enable)

Name: CatchAll CAPABILITY



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Incoming Interface: Internal (port5)
Outgoing Interface: SD-WAN
Source: INT_CAPABILITY

Destination: all Schedule: always Service: 443 TCP ICMP Action: ACCEPT

Firewall / Network Options

NAT: Enable

IP Pool Config: Use Outgoing Interface Address

Proxy Options: Default

Security Profiles:

Web Filter (enable): BOFC Application Filter (enable): BOFC

Logging Options:

Log Allowed Traffic (enable) [Security Events]

Enable this policy (enable)

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Verification Procedures

I. Part A. (Switch Configuration)

- 1. Access Zeus and Jupiter via SSH
- 2. Run the commands below:

show vlan brief - This command will show all the VLANs in the database. VLAN 70.

show spanning-tree vlan 70 - This command will show the current spanning tree details. The details below should be the same;

For VLAN 70 in Zeus Root ID Priority 24646

> Address 0042.5a39.da00 This bridge is the root

Hello Time 2 sec Max Age 6 sec Forward Delay 4 sec

Bridge ID Priority 24646 (priority 24576 sys-id-ext 70)

Address 0042.5a39.da00

Hello Time 2 sec Max Age 6 sec Forward Delay 4 sec

Aging Time 300 sec

For VLAN 70 in Jupiter

Root ID Priority 24646

Address 0042.5a39.da00

Cost :

Port 488 (Port-channel1)

Hello Time 2 sec Max Age 6 sec Forward Delay 4 sec

Bridge ID Priority 36454 (priority 36864 sys-id-ext 70)

Address 0021.a13c.4180

Hello Time 2 sec Max Age 6 sec Forward Delay 4 sec

Aging Time 300

3. Configure port GigabitEthernet2/0/29 of Zeus

interface GigabitEthernet2/0/29 switchport access vlan 70 switchport mode access

4. Connect a test laptop to port GigabitEthernet2/0/29 of Zeus, the device should obtain the ip address 172.18.70.1 and should have internet connection.



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Back-out Procedures

I. PART A. (Firewall Configuration)

- a. Login to THOR via web.
- b. Go to Policy & Object and remove the following address group from "EXE_GR_Managers".

INT_EXECUTIVE

c. Locate the IPv4 Policy "Privileged Access USCOLO", remove the following address objects from the SOURCE:

INT_WORKFORCE INT_CAPABILITY INT_RA_QA

d. Go to Policy & Objects > Addresses then delete the following:

INT_EXECUTIVE INT_WORKFORCE INT_CAPABILITY INT_RA_QA

- e. Locate the IPv4 Policy "CatchAll RA_QA", right click > delete.
- f. Locate the IPv4 Policy "CatchAll WORKFORCE", right click > delete.
- g. Locate the IPv4 Policy "CatchAll CAPABILITY", right click > delete.
- h. Ask server team to remove the DHCP Pool with the address:

EXECUTIVE
INT_WORKFORCE
INT_CAPABILITY
INT_RA_QA

- i. Login to Zeus and Jupiter via SSH.
- j. Copy and paste the following command to remove the VLAN interface in both switch:

conf t no interface vlan 70

exit wr

