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Request Information			
Requestor	Alvis Bajal		
Implementing Team	Network Operations		
Ticket Number/s	201914302		
Change Classification	Major	Χ	Minor
After the fact	Yes	Χ	No
Emergency	Yes	Х	No
Proposed Change Date	April 25, 2019		
Proposed Change Start/End Time	15:00		
Proposed Change Verification Time	Until all of the affected un reserved.	nit c	omputer IP address are

Objective of the change

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

Technical/Operational Impact of the change			
Negative:	Beneficial:	Neutral:	
Added memory and CPU usage	Backoffice and Executives will	Access Switches	
in Zeus and Jupiter.	have separate broadcast		
	domain.		

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.

Reference: F-CMG-3.1-Change Request Form – 03292019 New Segment for NDY .docx

Expected Results Summary

Separate VLAN (broadcast domains) will be created for Executives, Capability, WFM, HR. The Capability, WFM, HR will have web restrictions while the Exec won't.

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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 Procedures / Advisory

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	ımbiemer	itation P	roceaures

No physical implementation is needed for this change docs.

Technical Configuration Procedures

I. PART A. (Switch Configuration)

- 1. Access Zeus via SSH
- 2. Create the VLAN for EXEC and Backoffice by copy and pasting 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

Create Web Filter for Capability team by doing the steps below:
 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 Categories	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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	I.	
	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
General Interest - Personal	Brokerage and Trading	Block
	Child Education	Block
	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	Allow
	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	
freemoviedownloads6.c	om	- wild	card	-	block

Click APPLY button.

b. Create new Application Control for Capability Team.
 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



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P2P	Block
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
Instagram	Social.Media	Block
Instagram_Video	Social.Media	Block
iTunes_Select.Play	Video/Audio	Block
iTunes_Update	Update	Block
Java.Update	Update	Block
LinkedIn	Social.Media	Block
LinkedIn_Message	Social.Media	Block
Microsoft.Office.Update	Update	Block
Microsoft.Outlook	Email	Allow
Microsoft.Outlook.Web.App	Email	Allow
Microsoft.Outlook_Attachment	Email	Allow
MS.Windows.Update	Update	Block
Outlook.Anywhere	Business	Allow
Pipi.Player	P2P	Block
Playstation.Network	Game	Block
Real.Player	Video/Audio	Block
SoundCloud	Video/Audio	Block
Spotify	Video/Audio	Block
SVT.Play	Video/Audio	Block
Twitter	Social.Media	Block
Twitter_Message	Social.Media	Block
Ubuntu.Update	Update	Block
UEFA_Video.Play	Video/Audio	Block
Veoh.Player	Video/Audio	Block
Viber	VoIP	Block
Windows.Media.Player	Video/Audio	Block
YouTube	Video/Audio	Allow
YouTube.Downloader.YTD	Video/Audio	Block
 YouTube_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_CAPABILITY

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 Source of policy Privileged Access US COLO as they need to access Vicidial:

INT_RA_QA

INT_SUB_BIRD INT_SUB_VoiceVLAN INT_SUB_YWV INT_SUB_ZEN INT_RA_MLAN_IT EXT_VPN_SUB_XMN INT_SUB_IT_DEPT EXT_VPN_SUB_XMN_2 INT_SUB_CS I
INT_SUB_POSTMATES INT_SUB_DIAMPL INT_SUB_DIAMPL INT_SUB_DIAMPL INT_SUB_DIAMPL INT_SUB_DMOPC INT_SUB_DMOPC INT_SUB_MARKETING INT_SUB_MARKETING INT_SUB_MARKETING INT_SUB_SUB_SUB_SUB_SUB_SUB_SUB_SUB_SUB_SUB

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Seq.#	Name	From	To	Source	Destination	Schedule	Service	Action	NAT	Security Profiles
	CatchAll Policy EXECUTIVE	Internal (port5)	sd-wan	INT_EXECUTIVE	all	always	all	ACCEPT	Enabled	_
24	CatchAll Policy RA_QA	Internal (port5)	sd-wan	INT_SUB_RA_QA	all	always	HTTPS - TCP ICMP	ACCEPT	Enabled	WF_BOFC AC_BOFC
25	CatchAll Policy WorkForce	Internal (port5)	sd-wan	INT_SUB_WFM	all	always	HTTPS - TCP ICMP	ACCEPT	Enabled	WF_BOFC AC_BOFC
26	CatchAll Policy CAPABILITY	Internal (port5)	sd-wan	INT_SUB_CAPABILITY	all	always	HTTPS - TCP ICMP	ACCEPT	Enabled	WF_CAPABILITY

Note: No Security profiles for EXECUTIVE policy. RA QA and WorkForce will use the existing BOFC Web Filter and Application Control while the CAPABILITY team will use the newly created WF and AC.

10. Get the MAC Address of the laptops/workstations of the affected campaigns and reserve it to their right segment with the help of Systems team.

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

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



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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.
- 5. Coordinate with affected departments to check their workstations if it has the right IP Address and check their internet access and connection.

Back-out Procedures

- I. PART A. (Firewall Configuration)
 - a. Login to THOR via web.
 - b. Locate the IPv4 Policy "Privileged Access USCOLO", remove the following address objects from the SOURCE:

INT_RA_QA

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

INT_EXECUTIVE
INT_WORKFORCE
INT_CAPABILITY
INT_RA_QA

- d. Locate the IPv4 Policy "CatchAll RA_QA", right click > delete.
- e. Locate the IPv4 Policy "CatchAll WORKFORCE", right click > delete.
- f. Locate the IPv4 Policy "CatchAll CAPABILITY", right click > delete.
- g. Locate the IPv4 Policy "CatchAll Executive", right click > delete.
- h. Ask server team to remove the DHCP Pool with the address: INT_EXECUTIVE (172.18.70.0/24)
- i. Login to Zeus and Jupiter via SSH.



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j. Copy and paste the following command to remove the VLAN interface in both switch:

conf t
no interface vlan 70

exit
wr