

History

Version	Date (dd.mm.yyyy)	Editor	Comments
01.0	12.07.2018	Eldar Habibzade	Document's First version for review
02.0	17.08.2018	Eldar Habibzade	Various sections modified(rack, lan-main site cabling, ip-table, san table)
03.0	04.07.2019	Eldar Habibzade	Network topology section modified
04.0	05.08.2019	Eldar Habibzade	Storage Area Network section modified (san topology, port table, zone info, Logical and Physical View)
04.5	11.08.2019	Eldar Habibzade	Rack layout – disaster recovery site - section modified
04.6	24.08.2019	Eldar Habibzade	Rack layout – main & disaster recovery site - section modified
04.7	27.08.2019	Eldar Habibzade	Rack layout – main & disaster recovery site - section modified
04.8	17.09.2019	Eldar Habibzade	Local Area Network section modified
04.9	12.10.2019	Eldar Habibzade	Ip table - vm, disaster recovery site section modified
04.10	14.10.2019	Eldar Habibzade	Vm - section modified
05.0	14.11.2019	Eldar Habibzade	Windows Servers Update procedure – section created
05.1	17.12.2019	Eldar Habibzade	SCVMM network architecture - section modified, System Architecture – section created
05.2	18.12.2019	Eldar Habibzade	Stp architecture Site A & Site B – section created
05.3	09.01.2020	Eldar Habibzade	Ip table Site B – section modified
05.4	14.01.2020	Eldar Habibzade	Backup – section modified, iptable – section modified, «Сценарий перевода активного сайта с сайта А на сайт В» – section created
05.5	23.01.2020	Eldar Habibzade	Various fields modified
05.6	12.03.2020	Eldar Habibzade	Backup – section modified
05.6.1	13.03.2020	Eldar Habibzade	Backup – section modified
05.6.2	29.03.2020	Eldar Habibzade	Backup – section modified
05.6.3	23.08.2020	Eldar Habibzade	Modifications in configurations – section created and modified
05.6.4	09.10.2020	Eldar Habibzade	Stp architecture Site A & Site B, Hardware List Disaster Recovery Site (Sumqayit), IP Table Disaster Recovery Site, Local Area Network Disaster Recovery Site VLAN info – sections modified

05.6.5	15.02.2021	Eldar Habibzade	Hardware List, Ip table - vm, main&disaster recovery site section modified
05.6.6	17.02.2021	Eldar Habibzade	Ip table - vm, main&disaster recovery site, Storage Main & Disaster Recovery Site section modified
05.6.7	22.07.2021	Eldar Habibzade	Backup and reduce (shrink) transaction log in Auditlog database– section created and modified
05.6.8	24.09.2021	Eldar Habibzade	Сценарий перевода активного сайта с сайта А на сайт В – section modified
05.7	29.09.2021	Eldar Habibzade	Licensing– section created and modified
05.8	03.01.2022	Eldar Habibzade	Ip Table Main Site, Ip Table Disaster Recovery Site sections modified
05.9	15.03.2022	Eldar Habibzade	Created new section - Delete Failed requests from CA's jet database
05.10	25.05.2022	Eldar Habibzade	Hardware list Main Site,Local Area Network Main Site Port Table – sections modified
05.10.1	02.07.2022	Eldar Habibzade	Ip Table Virtual Machines Main Site,Disaster Recovery Site – sections modified
05.10.2	13.09.2022	Eldar Habibzade	Hardware list Main Site,Disaster Recovery Site – sections modified

Used IP networks

Inside the project, IP networks represented in format like:

Network/mask-name(vlanid): **xx.xx.yy.0/24 - NetworkNameDescription (yy)**

- **10.10.10.0/24 - MGMT INFRA workloads (10):**

Network intended for administration servers and application, and also the ones, which in Hyper-V cluster.

- **10.10.50.0/24 - Cluster, CSV, live migration (50):**

Network intended for intercluster communication between cluster nodes.

- **10.10.70.0/24- E-ID Backend (70):**

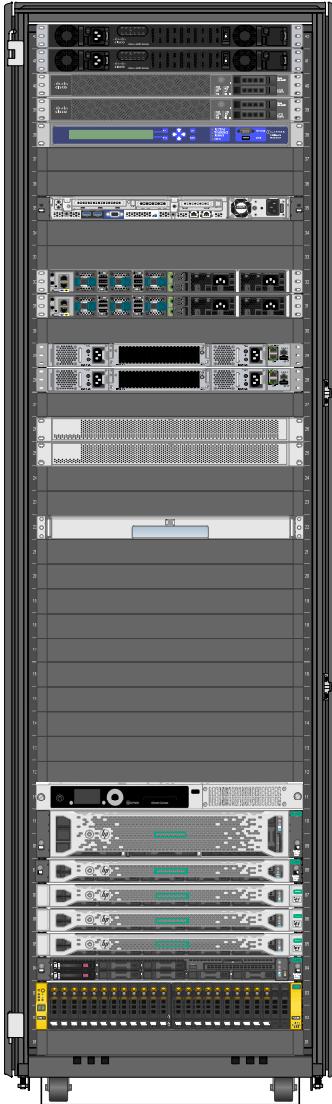
Network intended for use between backend components of the system.

- **10.10.80.0/24- E-ID Frontend (76):**

Network intended for use between frontend components of the system.

Racks layout

Main Site



RACK 1

EIDRTP01
EIDRTP02
EIDFWP01
EIDFWP02
EIDTSP01

EIDLBP01

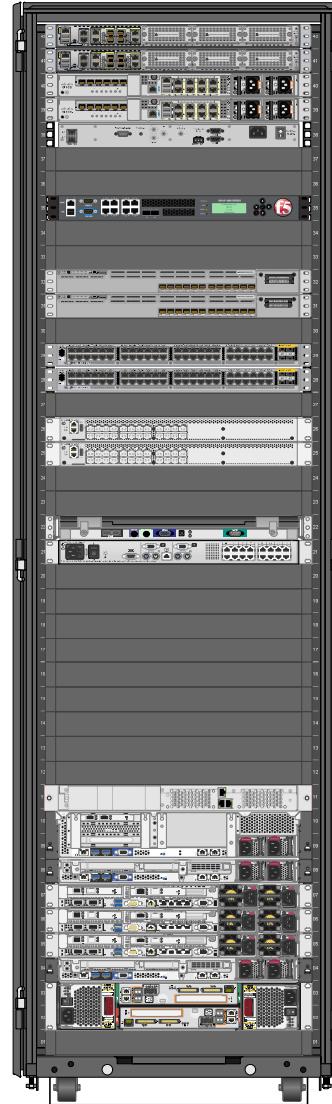
EIDSWP01
EIDSWP02

EIDSWP03
EIDSWP04

EIDSANP01
EIDSANP02

EIDCONP01
EIDKVMPO1

EIDHSMP01
EIDBKPP01
EIDDGP01
EIDHVP01
EIDHVP03
EIDHVP05
EIDVSPP01
EIDSTGP01



Hardware List

Main Site (Baku - Azintelekom)

No	Rack	Rack Label No	Product Name	Machine Type/Part Number	Serial Number	Description	
1	RACK 1	42	EIDRTP01	Cisco ISR4431 Router	EID0001	Router isr4431	
2	RACK 1	41	EIDRTP02	Cisco ISR4431 Router	EID0002	Router isr4431	
3	RACK 1	40	EIDFWP01	Cisco ASA5555X	EID0003	188.72.131.2 asa5555	
4	RACK 1	39	EIDFWP02	Cisco ASA5555X	EID0004	188.72.131.3 asa5555	
5	RACK 1	38	EIDTSP01	Chiper time source Time server	EID0005	Chiper Netw Time server	
6	RACK 1	35	EIDLBP01	F5 Load balancer	EID0020	F5 4000series LB	
7	RACK 1	32	EIDSWP01	Cisco Switch WS-C3850XS	EID0006	3850xs fc sw 24	
8	RACK 1	31	EIDSWP02	Cisco Switch WS-C3850XS	EID0007	3850xs fc sw 24	
9	RACK 1	29	EIDSWP03	Cisco Switch NEXUS-3048	EID0008	3048nexus 48port SW1-E-ID_C3048(FOC2102R1QX) 10.10.60.12	
10	RACK 1	28	EIDSWP04	Cisco Switch NEXUS-3048	EID0009	3048nexus 48port	
11	RACK 1	26	EIDSANP01	HP SN300B FC Switch	EID0014	Brocade HD-6505 12port licensed 16 Gb 24/24 Port FC Switch (QW938A) (one power supply)10.10.10.196	
12	RACK 1	25	EIDSANP02	HP SN300B FC Switch	EID0013	Brocade HD-6505 12port licensed 16 Gb 24/24 Port FC Switch (QW938A) (one power supply)10.10.10.195	
13	RACK 1	22	EIDKVM01	HP KVM	EID0010	Kvm switch	
14	RACK 1	21	EIDCONP01	HP Console	EID0010	Console	
15	RACK 1	11	EIDHSMP01	Thales nShield connect	EID0022	Thales Netw Hsm	
16	RACK 1	10,9	EIDBKPP01	HP DL 180G9	CZ3710KC7J	EID0011	Win2016 HyperV. ,Scdpm vm's Ilo 70:10:6f:b6:c3:7e 10.10.10.32 Fc-Eth-Port1 - 48:df:37:17:5f:3c 10.10.10.60 Fc-Eth-Port2 - 48:df:37:17:5f:3d
17	RACK 1	8	EIDDCP01	HP DL 160G9	CZ270905TC	EID0012	Win2016 AD

No	Rack	Rack No	Label	Product Name	Machine Type/Part Number	Serial Number	Description
1	RACK 1	42	EIDHSMB02	HSM			e-imza old Hsm
3	RACK 1	40	EIDFWB01	Cisco ASA5555X			Cisco Firewall
4	RACK 1	37	EIDLBB01	F5 Load balancer			F5 4000series LB
5	RACK 1	36	EIDSMSB01	Send Quick	On MHM Site		Sms Gateway
7	RACK 1	30	EIDSRB01	Thales Smart Card Reader			Smart Card Reader
9	RACK 1	29	EIDTSB01	Chiper time source Time server			Chiper Netw Time server
10	RACK 1	28	EIDSWB01	Cisco Switch WS-C3850XS			3850xs fc sw 12 port
11	RACK 1	27	EIDSWB02	Cisco Switch 2960			2960 24port SW_E_ID_Sum_2960 10.10.60.4
12	RACK 1	25	EIDCONB01	HP Console			Console
13	RACK 1	24	EIDKVMB01	HP KVM			Kvm switch
14	RACK 1	21,20	EIDBKPB01	HP DL 180G9	CZ3710KC7V		Win2016 HyperV. ,Scdpm vm's Ilo 70:10:6f:af:fd:34- 10.10.10.33 Fc-Eth-Port1 - 48:df:37:17:5a:c0 Fc-Eth-Port2 - 48:df:37:17:5a:c1 - 10.10.10.160
15	RACK 1	19	EIDSANB01	HP SN300B FC Switch			Brocade HD-6505 12port licensed 16 Gb 24/24 Port FC Switch (QW938A) (one power supply)10.10.10.197
16	RACK 1	18	EIDESXB01	HP DL 360 G6			Esxi for vsp Esxi6 - 10.10.10.251-d8-d3-85-e0-0d-e0
17	RACK 1	17	EIDSANB02	HP SN300B FC Switch			Brocade HD-6505 12port licensed 16 Gb 24/24 Port FC Switch (QW938A) (one power supply)10.10.10.198
18	RACK 1	16,15	EIDSTGB01	3PAR STORE SERV 8200	P/N K2Q36A SpareP/N 809805-001	CZ3710KC7H 3.2.2.612 + P50,P51,P54	HP_3PAR_8200 Admin interface on node 1 1:3:1 Intel e1000e 10.10.10.243 94:18:82:45:3B:F0
19	RACK 1	13	EIDHSMB01	Thales nShield connect			Thales Netw Hardware security module

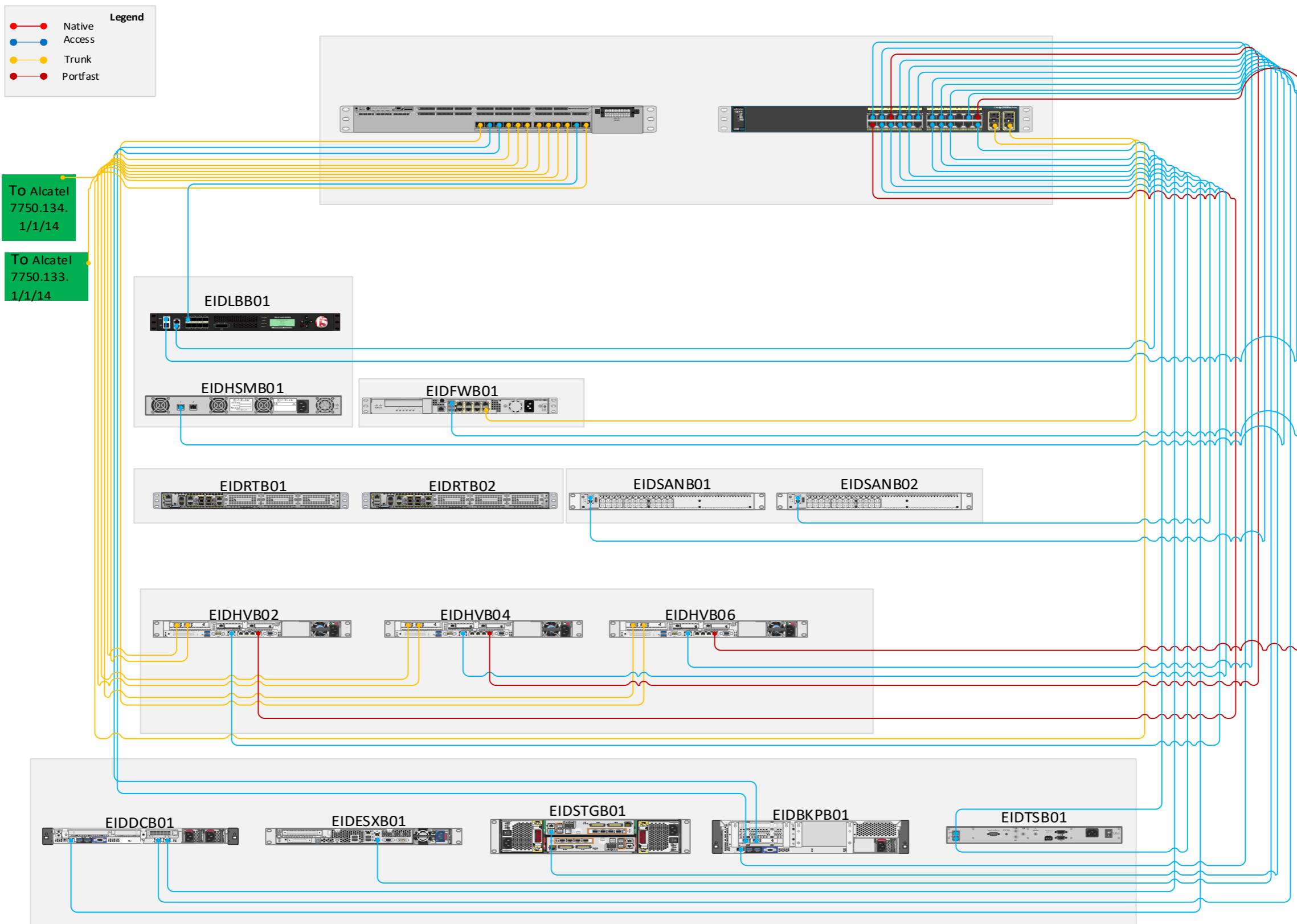
Zone Info

EIDSANP01			EIDSANP02		
Config Name	Zone Name	Members	Config Name	Zone Name	Members
ProdConf	Zone_1	StoreServ_8200_N0_P2 (EIDSTGP01_Node0_FC2) IHV_01 (EIDHVP01_FC2)	ProdConf	Zone_1	StoreServ_8200_N0_P1 (EIDSTGP01_Node0_FC1) IHV_01 (EIDHVP01_FC1)
	Zone_2	StoreServ_8200_N1_P2 (EIDSTGP01_Node1_FC2) IHV_01 (EIDHVP01_FC2)		Zone_2	StoreServ_8200_N1_P1 (EIDSTGP01_Node1_FC1) IHV_01 (EIDHVP01_FC1)
	Zone_3	StoreServ_8200_N0_P2 (EIDSTGP01_Node0_FC2) IHV_03 (EIDHVP03_FC2)		Zone_3	StoreServ_8200_N0_P1 (EIDSTGP01_Node0_FC1) IHV_03 (EIDHVP03_FC1)
	Zone_4	StoreServ_8200_N1_P2 (EIDSTGP01_Node1_FC2) IHV_03 (EIDHVP03_FC2)		Zone_4	StoreServ_8200_N1_P1 (EIDSTGP01_Node1_FC1) IHV_03 (EIDHVP03_FC1)
	Zone_5	StoreServ_8200_N0_P2 (EIDSTGP01_Node0_FC2) IHV_05 (EIDHVP05_FC2)		Zone_5	StoreServ_8200_N0_P1 (EIDSTGP01_Node0_FC1) IHV_05 (EIDHVP05_FC1)
	Zone_6	StoreServ_8200_N1_P2 (EIDSTGP01_Node1_FC2) IHV_05 (EIDHVP05_FC2)		Zone_6	StoreServ_8200_N1_P1 (EIDSTGP01_Node1_FC1) IHV_05 (EIDHVP05_FC1)

EIDSWP03				EIDSWP04			
Port №	Label	Mode	VLAN	Port №	Label	Mode	VLAN
Gbe1	EIDDCP01 1/1			Gbe1			
Gbe2				Gbe2			
Gbe3	EIDBKPP01 ILO	Access		Gbe3			
Gbe4	EIDDCP01 ILO	Access		Gbe4			
Gbe5	EIDHVP05 ILO	Access		Gbe5			
Gbe6	EIDHVP03 ILO	Access		Gbe6			
Gbe7	EIDVSPP01 ILO	Access		Gbe7			
Gbe8	EIDSTGP01 0/MGMT	Access		Gbe8			
Gbe9	EIDVSPP01 1/2			Gbe9			
Gbe10	EIDSTGP01 1/MGMT	Access		Gbe10			
Gbe11				Gbe11			
Gbe12				Gbe12			
Gbe13	EIDHVP05 2/3	Trunk		Gbe13			
Gbe14	EIDHVP03 2/3	Trunk		Gbe14			
Gbe15	EIDHVP01 2/4	Trunk		Gbe15			
Gbe16	EIDHVP03 2/4	Trunk		Gbe16			
Gbe17	EIDHVP01 2/3	Trunk		Gbe17			
Gbe18	EIDHVP05 2/4	Trunk		Gbe18			
Gbe19				Gbe19			
Gbe20	EIDTSP01 1/1	Trunk		Gbe20			
Gbe21	EIDBKPP01 1/1	Trunk		Gbe21			
Gbe22	EIDBKPP01 1/2	Trunk		Gbe22			
Gbe23				Gbe23			
Gbe24				Gbe24			

Gbe25	Gbe25
Gbe26	Gbe26
Gbe27	Gbe27
Gbe28	Gbe28
Gbe29	Gbe29
Gbe30	Gbe30
Gbe31	Gbe31
Gbe32	Gbe32
Gbe33	Gbe33
Gbe34	Gbe34
Gbe35	Gbe35
Gbe36	Gbe36
Gbe37	EIDRTP01 Ge 0/0/0 Trunk
Gbe38	EIDRTP02 Ge 0/0/0 Trunk
Gbe39	EIDFWP01 Ge 0/2 Trunk
Gbe40	EIDFWP02 Ge 0/2 Trunk
Gbe41	EIDSANP02 1/1 eth Trunk
Gbe42	EIDSANP01 1/1 eth Trunk
Gbe43	Gbe43
Gbe44	Gbe44
Gbe45	Gbe45
Gbe46	Gbe46

Disaster Recovery Site Level 1 topology - tbd



EIDSWB01					EIDSWB02				
Port №	Label	Mode	VLAN	Port №	Label		Mode	VLAN	
TeGb1	Ihv06b 3/2right port	Trunk		Fa01	ILO_IBCK02B--70-10-6f-af-fd-34--10.10.10.33--			75	
TeGb2	Ibck02b 2/1 left port	Trunk		Fa02	EIDHVB02 2/4--9418.8282.ed8f--111.111.111.42--		PortFast	95	
TeGb3	Ibck02b 2/2 right port	Trunk		Fa03	ILO_EIDHVB06-- 30:e1:71:56:3c:5c-- 10.10.10.229--			75	
TeGb4	Ihv02b 3/2 right port	Trunk		Fa04	ILO_EIDHVB04-- 94:18:82:7f:d7:02-- 10.10.10.228--			75	
TeGb5	Ihv02b 3/1 left port	Trunk		Fa05	EIDHVB04 2/4--94:18:82:82:e9:eb --111.111.111.43--		PortFast	95	
TeGb6	Ihv06b 3/1 left port	Trunk		Fa06	ILO_EIDHVB02--94:18:82:7f:8a:ba-- 10.10.10.227--			75	
TeGb7	Ihv04b3/1 left port	Trunk		Fa07	FC_SAN_SW_mgmt-SiteBSW1SW--c4-f5-7c-b6-3d-e4--10.10.10.197--			75	
TeGb8	Ihv04b 3/2 right port	Trunk		Fa08	FC_SAN_SW_mgmt-SiteBSW2SW--c4-f5-7c-b6-3e-24-- 10.10.10.198--			75	
TeGb9	Alcatel 7750.134. 1/1/14	Trunk		Fa09	-- EIDESXB01-Esx6--d8-d3-85-e0-0d-e0--10.10.10.251-- --VM-3PAR--ServiceProcessor-VSP--00-0c-29-e2-6f-e1--10.10.10.242--			75	
TeGb10	EIDSWB02 Gi1/1	Trunk		Fa10	--IDC2B_ILO--10.10.10.223--7010.6fbe.f81c			75	
TeGb11	--to_F5_port_failo	Trunk		Fa11	--3Par-Mgmt-Node1--94:18:82:45:3B:F0-- 1:3:1 Intel -e1000e--10.10.10.243--			75	
TeGb12	Alcatel 7750.133. 1/1/14	Trunk		Fa12	--to HPV-2--		Trunk		
				Fa13	--to_HSM--			70	
				Fa14	Chiper Netw Time server			70	
				Fa15	--IDC2B_ETH_1-- 70:10:6f:be:f8:1a			75	
				Fa16	--IDC2B_ETH_2-- 70:10:6f:be:f8:1b			75	
				Fa17	--F5_mngmnt--			75	
				Fa18	-- Chiper Netw Time server _Port_2--			600	
				Fa19	--sms_gw-data--			76	
				Fa20	-----			----	
				Fa21	--ASA-5545-mngmt--			60	
				Fa22	connected			75	
				Fa23	EIDHVB06 2/4--94:18:82:8a:cd:47-- 111.111.111.44--		PortFast	95	
				Fa24	--F5_port_1/1_fail--			77	
				Gi1	EIDSWB01 TeGb10		Trunk		
				Gi2	EIDFWB01 Ge 0/0		Trunk		

IP Table

Main Site

No	Rack	Node	Host Name	State	Grouping	IP address on the specified VLAN							Description	
						BMC	E-ID BACKEND PRODUCTION	E-ID TEST /DEV	MGMT INFRA workloads	E-ID Frontend	Cluster CSV, live migration	Type	Version	
1	RACK 1	EIDRTP01		Running	INFRA									Router isr4431
2	RACK 1	EIDRTP02		Running	INFRA									Router isr4431
3	RACK 1	EIDFWP01		Running	INFRA									188.72.131.2 asa5555
4	RACK 1	EIDFWP02		Running	INFRA									188.72.131.3 asa5555
5	RACK 1	EIDSWP01		Running	INFRA									3850xs fc sw 24
6	RACK 1	EIDSWP02		Running	INFRA									3850xs fc sw 24
7	RACK 1	EIDSWP03		Running	INFRA				10.10.10.220					3048nexus 48port Baku_EID_STACK
									10.10.60.12					
									00-08-32-AF-A4-D8					
8	RACK 1	EIDSWP04		Running	INFRA				10.10.10.220					3048nexus 48port
9	RACK 1	EIDLBP01		Running	INFRA				10.10.10.204					F5 4000series LB
10	RACK 1	EIDHMP01		Running	INFRA			10.10.70.241						Thales Netw Hsm
11	RACK 1	EIDTSP01		Running	INFRA			10.10.70.110						Chiper Netw Time server
12	RACK 1	EIDKVM01			INFRA									Kvm switch
13	RACK 1	EIDCONP01			INFRA									Console
14	RACK 1	EIDSANP01	SiteASW1SW	Running	INFRA	10.10.10.195								Brocade HD-6505 12port licensed
15	RACK 1	EIDSANP02	SiteASW2SW	Running	INFRA	10.10.10.196								Brocade HD-6505 12port licensed
16	RACK 1	EIDBKPP01	iBck01a.infra.azeid.az	Running	INFRA	10.10.10.32		10.10.10.60						HyperV for Scdpm VM's
17	RACK 1	EIDDCP01	ldc1a.infra.azeid.az	Running	INFRA	10.10.10.222		10.10.10.41						infrastructure Dc
18	RACK 1	EIDHVP01	lhv01a.infra.azeid.az	Running	INFRA	10.10.10.224		10.10.10.42		10.10.50.42				Win2016 Datacenter
19	RACK 1	EIDHVP03	lhv03a.infra.azeid.az	Running	INFRA	10.10.10.225		10.10.10.43		10.10.50.43				HyperV
20	RACK 1	EIDHVP05	lhv05a.infra.azeid.az	Running	INFRA	10.10.10.226		10.10.10.44		10.10.50.44				Win2016 Datacenter
21	RACK 1	EIDSTGP01	3PAR-Baku	Running	INFRA			10.10.10.241						HP_3PAR_8200 3.2.2.612 + P51, P56, P59, P60, P74
22	RACK 1	EIDESXP01	localhost	Running	INFRA			10.10.10.250						Esxi for VSP root
														MhMsysadmin!@#123
23	RACK 1	EIDCLP01	lhvc01a.infra.azeid.az	Running	INFRA			10.10.10.45						WFC
														Win2016 WFC OS Build 14393

Windows Servers Update procedure

Manual Update procedure - Windows server 2016

1.if you will get updates via wsus server, and through group policy, then, use this method, otherwise, u can use manual update installation, for particular case.

2.if your server haven't internet access, the find the workstation, which internet connection, to download required update files, in our case we have restricted environment, which haven't internet access.

3.login to desired computer with internet connection, open internet browser, and download required files through the links:

4.go to -> <https://www.catalog.update.microsoft.com/Search.aspx?q=Windows+Server+2016>

5.select "2019-10 Cumulative Update for Windows Server 2016 for x64-based Systems (KB4519979)" for download, and download the update

6.go to -> <https://www.catalog.update.microsoft.com/Search.aspx?q=KB4521858>

7.select "2019-10 Servicing Stack Update for Windows Server 2016 for x64-based Systems (KB4521858)" for download, and download the update

8.login to a server, which requires to be updated, via console, or through remote desktop services

9.copy downloaded files to the server, which you selected to update

10.Check, if Windows Update service is started - get-service -name "windows update"

11.run the command via powershell to check installed updates - wmic qfe list or get-wmiobject -class win32_quickfixengineering

12.first run windows10.0-kb4521858-x64_4660e9135b9de2ec006aee76499588d729fbcc60.msu file, to install Servicing stack update for Windows 10 version 1607: October 8, 2019

Microsoft strongly recommends you install the latest servicing stack update (SSU) for your operating system before installing the latest cumulative update (LCU). SSUs improve the reliability of the update process to mitigate potential issues while installing the LCU. For more information, see Servicing stack updates.

13.if the update requires reboot, then reboot the server

14.run windows10.0-kb4519979-x64_2c117b296dcc7a3c9e6ef889b0ff3bec7a8acbe9.msu

15.after the update complete, restart the server

Описание обновления

8.2 - останавливаем процессы mmc.exe, WmiPrvSE.exe

8.3 - устанавливаем обновление, при необходимости, останавливаем конфликтующие процессы

8.4 - перезагружаем

8.5 - проверяем функционирование сервисов

8.6 - при отсутствии ошибок, удаляем снапшот

9.PBE01B.csc.azeid.az

9.1 - снимаем снапшот

9.2 - останавливаем процессы mmc.exe, WmiPrvSE.exe

9.3 - устанавливаем обновление, при необходимости, останавливаем конфликтующие процессы

9.4 - перезагружаем

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10.PICA01A.csc.azeid.az

10.1 - снимаем снапшот

10.2 - останавливаем процессы mmc.exe, WmiPrvSE.exe

10.3 - устанавливаем обновление, при необходимости, останавливаем конфликтующие процессы

10.4 - перезагружаем

10.5 - проверяем функционирование сервиса сертификационного центра

10.6 - проверяем функционирование сервисов

10.7 - запускаем оснастку cersrv.msc

10.8 - проверяем наличие сертификатов

10.9 - проверяем наличие шаблонов сертификатов

10.10 - при отсутствии ошибок, удаляем снапшот

11.PDC02B.csc.azeid.az

11.1 - снимаем снапшот

11.2 - устанавливаем обновление

11.3 - перезагружаем

11.4 - проверяем функционирование сервисов NTDS, ADWS

11.5 - проверяем функционирование сервисов

11.6 - запускаем оснастку dsa.msc

11.7 - запускаем powershell от имени администратора, вводим Get-ADReplicationFailure -Target "csc.azeid.az" -Scope Forest, проверяем состояние репликации.

11.8 - при отсутствии ошибок, удаляем снапшот

12.PDC01A.csc.azeid.az

12.1 - снимаем снапшот

12.2 - устанавливаем обновление

12.3 - перезагружаем

12.4 - проверяем функционирование сервисов NTDS, ADWS

12.5 - проверяем функционирование сервисов

12.6 - запускаем оснастку dsa.msc

12.7 - запускаем powershell от имени администратора, вводим Get-ADReplicationFailure -Target "csc.azeid.az" -Scope Forest, проверяем состояние репликации.

12.8 - при отсутствии ошибок, удаляем снапшот

13.PSQLReport01A.csc.azeid.az

13.1 - снимаем снапшот

13.2 - останавливаем процессы mmc.exe, WmiPrvSE.exe

13.3 - устанавливаем обновление, при необходимости, останавливаем конфликтующие процессы

13.4 - перезагружаем

13.5 - проверяем функционирование сервисов

13.6 - при отсутствии ошибок, удаляем снапшот

```
to  
<add key="Ldap.FullPath" value="LDAP://PFE01B:389"/>
```

```
from  
<add key="CertificateCore.crlSizeThreshold" value="5000000" />  
to  
<add key="CertificateCore.crlSizeThreshold" value="50000000" />
```

disabled lines

```
<!--commented  
<add key="Ldap.User" value="AZPKI\Administrator"/>  
<add key="Ldap.Password" value="pass@word1"/>  
commented -->
```

in file MCSCSP.CAProcessor.dll.config

changes:

```
from  
<add key="CertificateCore.crlSizeThreshold" value="5000000" />  
to  
<add key="CertificateCore.crlSizeThreshold" value="50000000" />
```

Delete Failed requests from CA's jet database

- 1.Go to Backend and Stop Backend's certificate requester service CSPAPI – iisreset.exe /STOP – to stop iis
- 2.Go to CA and Stop and Start CA service.
- 3.Backup CA database and log using certsrv.msc or powershell certutil -backupdb "path to backup folder"
- 4.create bat file, and add script above to it:

Here is script - working bat file to delete Failed - (submittedwhen -command -but - for certs - notbefore, notafter) denied requests -Disposition=31 , if needed failed requests - Disposition=30

```
@echo off

for /f %%i in ('certutil -view -restrict "Disposition=31,submittedwhen>3/14/2000" -out Requestid csv ^| find /v "Issued Request ID"') do (
    echo Deleting row ID: %%i
    certutil.exe -deleterow %%i Request
)

5.Stop CA service and close certsrv.msc
6.Defragment CA database
esentutl.exe -d "C:\CertLog\Azerbaijan National Issuing CA01.edb"
7.Start CA service using certsrv.msc
8.backup CA database and log using certsrv.msc or powershell certutil -backupdb "path to backup folder"
9.Restore CA database and log using certsrv.msc or powershell certutil -restoredb "path to backup folder"
10. Go to Backend and Start Backend's certificate requester service CSPAPI – iisreset.exe /START to-start -iis
```