

高エネルギー加速器研究機構 殿向け
入射器棟内ネットワーク
NW増強導入作業 他
完成図書

第 1.0 版

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版 履 歴

改版履歴表

版数	日付	変更内容	作成者
1.0	2006/4/12	1.0 版 作成	宮西

1. 概要

本件の概要について以下に示す。

導入場所

〒300-1295 茨城県つくば市大穂1 - 1 文部科学省 高エネルギー加速器研究機構 入射器棟

ご担当者様

古川 様

導入日時

2007/2/6 2/22 3/22 4/12

導入機器

CiscoSystems 社製 Catalyst2960-24TT-L	×	2台
SMC 社製 SMC-MC1000GSSC(1Gメディアコンバータ)	×	4台
SMC 社製 SMC-MC201FMSC(100Mメディアコンバータ)	×	4台
Juniper 社製 NetScreen5GT-PLUS	×	2台
ARUBA 社製 ARUBA2400 無線コントローラ	×	1台
ARUBA 社製 AP65無線アクセスポイント	×	4台
ARUBA 社製 AP70無線アクセスポイント	×	2台
BUFFALO 社製 POE パワーインジェクタ	×	6台

導入担当

住友電設(株) 情報通信システム事業部 宮西, 関口

2. 基本ポリシー

本件は、3つの案件から成り立っており、案件毎にその基本ポリシーを記載する。

2 - 1. 入射器棟内ネットワーク増強

- ・ Catalyst2960-24TT-L を 2 台、追加で既存ネットワークに接続する。接続は Master(c4500-1)には 1Gbps で、Slave(c3750-1)には 100Mbps で接続する冗長構成とする。冗長の接続方式は PVST+ を使用し UplinkFast 機能により高速切り替えを提供する。
- ・ コアスイッチ - エッジスイッチ間の接続は全て光ファイバーでの接続となるので、UTP ポートを光ファイバーで接続するために、各所に通信速度に応じた光コンバータを設置する。設置場所はコア側に 2 台、エッジ接続される Catalyst2960-24TT-L が設置される箇所に各 2 台の計 8 台である。コア側のコンバータは既存コンバータラックに追加する。

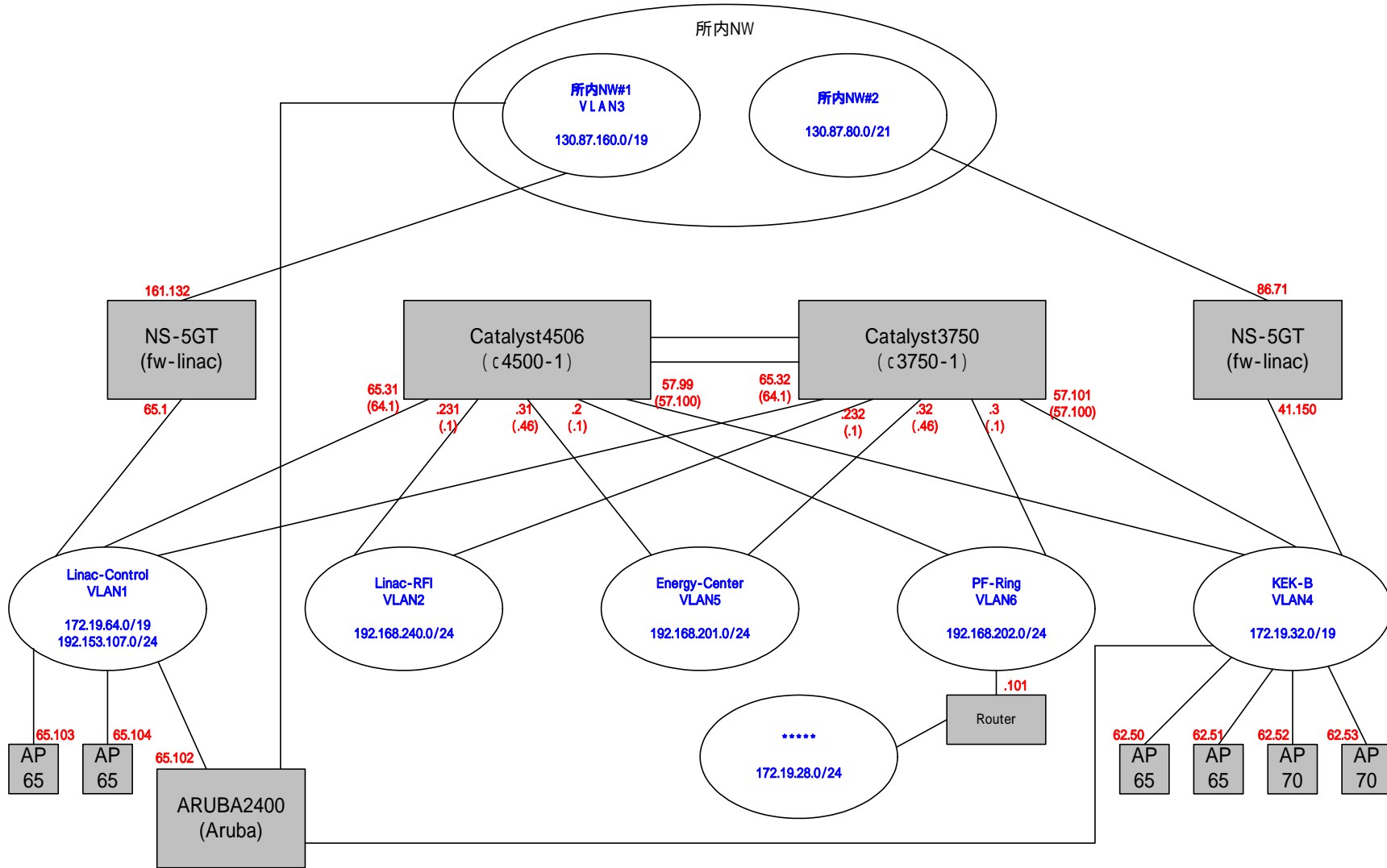
2 - 2. 所内ネットワーク接続用ファイアーウォール設置

- ・ KEK-B ネットワーク及び Linac ネットワークから所内ネットワークにアクセスする際、所内ネットワークのポリシーにより MAC アドレス違反が発生し、通信ができなくなる状況を改善するため、各々の間にファイアーウォールを設置する。
- ・ 弊社にてルーティング等の初期設定のみを実施し、ポリシー設定は顧客側で実施するものとする。

2 - 3. 無線ネットワーク構築

- ・ Linac ネットワーク及び KEK-B エリアの一部で、測定器の近隣でネットワーク接続できる環境が必要なため、無線ネットワークを構築する。
- ・ 無線コントローラは入射器棟側で設置し、各々の AP からは ESSID を選択することにより、Linac ネットワーク、KEK-B ネットワークどちらでもアクセスできるようにする。また将来対応のため所内ネットワーク接続用の ESSID も構築しておく。

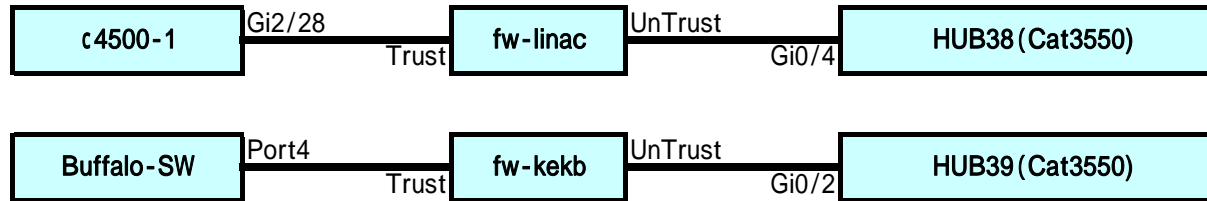
3. ネットワーク論理構成図



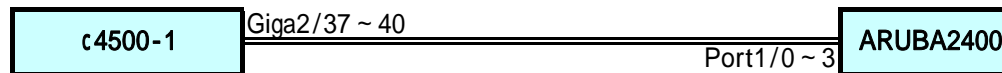
4. ネットワーク接続表

1次側接続			2次側接続					
機器ホスト名	インターフェース	光パッチパネル	コンバータ名	インターフェース	機器ホスト名	機器IPアドレス	VLANタイプ	設置位置
c4500-1	Gi2/43(MCG05)	A1-GUN 1,2	MCG07	Gi0/2	c2960-01	172.19.65.84	Controle	A1-GUN
c3750-1	Fa2/0/23(MC386)	A1-GUN 3,4	MC388	Fa0/24				
c4500-1	Gi2/44(MCG06)	低速陽電子 5,6	MCG08	Gi0/2	c2960-02	172.19.65.85	Controle	SlowPOS
c3750-1	Fa2/0/24(MC387)	低速陽電子 7,8	MC389	Fa0/24				

FW接続



無線コントローラ接続



無線AP接続

スイッチ側接続		PoEスイッチ側接続			無線AP側		
機器ホスト名	インターフェース	インターフェース	機器ホスト名	インターフェース	機器ホスト名	機器IPアドレス	設置位置
c2950	Fa0/19	IN	poesw-l1	OUT	aruba-l1	172.19.65.103	入射器棟2セクタ
c2950	Fa0/17	IN	poesw-l2	OUT	aruba-l2	172.19.65.104	入射器棟Rセクタ
Buffalo-SW	Port7	IN	poesw-b1	OUT	aruba-b1	172.19.62.50	コントロール棟マシン室
Planex-SW	Port2	IN	poesw-b2	OUT	aruba-b2	172.19.62.51	コントロール棟 D7別棟
c2950	Fa0/5	IN	poesw-b3	OUT	aruba-b3	172.19.62.52	富士実験棟トンネル 入口側
c2950	Fa0/6	Port1	御支給品 POE-SW	Port2	aruba-b4	172.19.62.53	富士実験棟トンネル

5 . 機器管理表

Switchingハブ

2005/3/11作成

IPアドレス	設置場所	機器名称	機器型番	Serial No.	Software Version	Host Name	備考
172.19.65.84	A-GUN	Catalyst2960-24TT-L	WS-C2960-24TT-L	FOC1049Z040	12.2(25)SEE2	c2960-01	VLAN1:Port1~17 VLAN2:Port18~20 VLAN3:Port21~23
172.19.65.85	SlowPOS	Catalyst2960-24TT-L	WS-C2960-24TT-L	FOC1048ZETM	12.2(25)SEE2	c2960-02	VLAN1:Port1~17 VLAN2:Port18~20 VLAN3:Port21~23

メディアコンバータ(コンバータラック組み込み)

機器管理番号	設置場所	機器名称	機器型番	Serial No.	Software Version	Host Name	備考
MCG05	マシン室	SMC MediaConverter(1000SX/1000T)	SMC-MC1000GSSC	067MC11077B1	---	---	A-GUN向け MCR6-11に収容
MCG06	マシン室	SMC MediaConverter(1000SX/1000T)	SMC-MC1000GSSC	067MC11075B1	---	---	SlowPOS向け MCR6-12に収容
MCG07	A-GUN	SMC MediaConverter(1000SX/1000T)	SMC-MC1000GSSC	067MC11078B1	---	---	
MCG08	SlowPOS	SMC MediaConverter(1000SX/1000T)	SMC-MC1000GSSC	067MC11076B1	---	---	
MC386	マシン室	SMC MediaConverter(100FX/10・100TX)	SMC-MC201FMSC	06CMC06364C2	---	---	A-GUN向け MCR22-13に収容
MC387	マシン室	SMC MediaConverter(100FX/10・100TX)	SMC-MC201FMSC	06CMC06359C2	---	---	SlowPOS向け MCR22-14に収容
MC388	A-GUN	SMC MediaConverter(100FX/10・100TX)	SMC-MC201FMSC	06CMC06351C2	---	---	
MC389	SlowPOS	SMC MediaConverter(100FX/10・100TX)	SMC-MC201FMSC	06CMC06368C2	---	---	

ファイヤーウォール

機器管理番号	設置場所	機器名称	機器型番	Serial No.	Software Version	Host Name	備考
fw-linac	マシン室	Juniper NetScreen5GT-PLUS	NS-5GT-107-06	0064112006000972	5.0.0r11.1	---	
fw-kekb	KEK-Bマシン室	Juniper NetScreen5GT-PLUS	NS-5GT-107-06	0064112006001154	5.0.0r11.1	---	

無線機器

IPアドレス	設置場所	機器名称	機器型番	Serial No.	Software Version	Host Name	備考
172.19.65.102	マシン室	ARUBA2400無線コントローラ	2400-48-AOS-STD LIC-2400-PEF	A20005759	2.5.4.8	aruba	MAC/00:0b:86:41:a3:e0
172.19.65.103	入射器棟2セクタ	ARUBA-AP65 無線アクセスポイント	AP-65	A90036710	---	aruba-l1	MAC/00:0b:86:cc:03:98
172.19.65.104	入射器棟Rセクタ	ARUBA-AP65 無線アクセスポイント	AP-65	A90028150	---	aruba-l2	MAC/00:0b:86:c1:6b:24
172.19.62.50	コントロール棟 マシン室	ARUBA-AP65 無線アクセスポイント	AP-65	A90036261	---	aruba-b1	MAC/00:0b:86:cc:00:16
172.19.62.51	コントロール棟 D7別棟	ARUBA-AP65 無線アクセスポイント	AP-65	A90012264	---	aruba-b2	MAC/00:0b:86:c0:ef:08
172.19.62.52	富士実験棟 トンネル	ARUBA-AP70 無線アクセスポイント	AP-70	A50093581	---	aruba-b3	MAC/00:0b:86:c5:e5:8a
172.19.62.53	富士実験棟 トンネル入口	ARUBA-AP70 無線アクセスポイント	AP-70	A50116208	---	aruba-b4	MAC/00:0b:86:c6:96:50
---	入射器棟2セクタ	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074327860G	---	poesw-l1	---
---	入射器棟Rセクタ	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074329147G	---	poesw-l2	---
---	コントロール棟 マシン室	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074328461G	---	poesw-b1	---
---	コントロール棟 D7別棟	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074327853G	---	poesw-b2	---
---	富士実験棟 トンネル	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074328607G	---	poesw-b3	---
---	富士実験棟 トンネル入口	buffalo POEパワーインジェクタ	BIJ-POE-1PR	36468074213927G	---	poesw-b4	今回納品のみ

Catalyst3750

機種: Catalyst3750G-24TS-S			VLAN No.										機種: Catalyst3750-24TS-S			VLAN No.															
StackID	Management IP Address	Port No.	Trunk	1	2	3	4	5	6					StackID	Management IP Address	Port No.	Trunk	1	2	3	4	5	6								
1	172.19.65.32/19	Gi1/0/1												2		Fa2/0/1															
		Gi1/0/2														Fa2/0/2															
		Gi1/0/3														Fa2/0/3															
		Gi1/0/4														Fa2/0/4															
		Gi1/0/5														Fa2/0/5															
		Gi1/0/6														Fa2/0/6															
		Gi1/0/7														Fa2/0/7															
		Gi1/0/8														Fa2/0/8															
		Gi1/0/9														Fa2/0/9															
		Gi1/0/10														Fa2/0/10															
		Gi1/0/11														Fa2/0/11															
		Gi1/0/12														Fa2/0/12															
		Gi1/0/13														Fa2/0/13															
		Gi1/0/14														Fa2/0/14															
		Gi1/0/15														Fa2/0/15															
		Gi1/0/16														Fa2/0/16															
		Gi1/0/17														Fa2/0/17															
		Gi1/0/18														Fa2/0/18															
		Gi1/0/19														Fa2/0/19															
		Gi1/0/20														Fa2/0/20															
		Gi1/0/21														Fa2/0/21															
		Gi1/0/22														Fa2/0/22															
		Gi1/0/23														Fa2/0/23															
		Gi1/0/24														Fa2/0/24															
1000SX-SFP		Gi1/0/25	channel-group 1													Gi2/0/1															
1000SX-SFP		Gi1/0/26	channel-group 1													Gi2/0/2															
		Gi1/0/27																													
		Gi1/0/28																													

VLAN ID	Name	Network Address
01	default	Primary: 172.19.65.32/19 Secondary: 192.153.107.10 /24
02	vlan2	192.168.240.232/24
03	vlan3	not assign
04	vlan4	172.19.57.101/19
05	vlan5	192.168.201.32/24
06	vlan6	192.168.202.3/24

7 . Config 情報

7 - 1 . c4500-1

```
----- show version -----
Cisco Internetwork Operating System Software
IOS (tm) Catalyst 4000 L3 Switch Software (cat4000-I9S-M), Version
12.1(20)EW1, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2003 by cisco Systems, Inc.
Compiled Mon 01-Dec-03 19:59 by eaarmas
Image text-base: 0x00000000, data-base: 0x00F57254

ROM: 12.1(12r)EW
Dagobah Revision 86, Swamp Revision 28

c4500-1 uptime is 30 weeks, 3 days, 19 hours, 56 minutes
System returned to ROM by reload
System restarted at 23:37:48 JST Sun Aug 20 2006
System image file is "bootflash:cat4000-i9s-mz.121-20.EW1.bin"

cisco WS-C4506 (XPC8245) processor (revision 7) with 524288K bytes of
memory.
Processor board ID FOX075000C8
Last reset from Reload
8 Ethernet/IEEE 802.3 interface(s)
49 FastEthernet/IEEE 802.3 interface(s)
50 Gigabit Ethernet/IEEE 802.3 interface(s)
403K bytes of non-volatile configuration memory.

Configuration register is 0x102

----- show running-config -----
Building configuration...

Current configuration : 19763 bytes
!
! Last configuration change at 19:20:48 JST Thu Mar 22 2007
! NVRAM config last updated at 19:20:49 JST Thu Mar 22 2007
!
version 12.1
no service pad
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
service compress-config
!
hostname c4500-1
!
enable password 7 0605002F585C061516
!
clock timezone JST 9
ip subnet-zero
no ip domain-lookup
ip host c2950-5 172.19.65.45
ip host c2950-1 172.19.65.41
ip host c2950-2 172.19.65.42
ip host c2950-3 172.19.65.43
ip host c2950-4 172.19.65.44
ip host c3750-1 172.19.65.32
!
!
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
spanning-tree vlan 1-6,100 priority 24576
!
!
interface Port-channel1
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-6
switchport mode trunk
!
interface Port-channel11
description To Aruba2400
```

```
switchport
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1,3,4
switchport mode trunk
!
interface GigabitEthernet1/1
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-6
switchport mode trunk
logging event link-status
logging event trunk-status
channel-group 1 mode on
!
interface GigabitEthernet1/2
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-6
switchport mode trunk
logging event link-status
logging event trunk-status
channel-group 1 mode on
!
interface GigabitEthernet2/1
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
spanning-tree vlan 1 cost 10
!
interface GigabitEthernet2/2
switchport access vlan 2
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
!
interface GigabitEthernet2/3
switchport access vlan 3
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
no cdp enable
!
interface GigabitEthernet2/4
switchport access vlan 4
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
no cdp enable
!
interface GigabitEthernet2/5
switchport access vlan 5
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
!
interface GigabitEthernet2/6
switchport access vlan 6
switchport mode access
logging event link-status
logging event trunk-status
storm-control broadcast level 50.00
!
interface GigabitEthernet2/7
switchport mode access
logging event link-status
logging event trunk-status
!
interface GigabitEthernet2/8
switchport mode access
logging event link-status
logging event trunk-status
!
interface GigabitEthernet2/9
switchport mode access
logging event link-status
logging event trunk-status
!
```



```

switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/34
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/35
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/36
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/37
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/38
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/39
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/40
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3,100
switchport mode trunk
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/41
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/42
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/43
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/44
switchport mode access
logging event link-status
logging event trunk-status

```

```

duplex full
!
interface FastEthernet3/45
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/46
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/47
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface FastEthernet3/48
switchport mode access
logging event link-status
logging event trunk-status
duplex full
!
interface Vlan1
description **Linac-Control**
ip address 192.153.107.9 255.255.255.0 secondary
ip address 172.19.65.31 255.255.224.0
ip broadcast-address 172.19.95.255
no ip redirects
no ip route-cache
no ip mroute-cache
standby 8 ip 172.19.64.1
standby 8 preempt
standby 16 ip 192.153.107.1
standby 16 preempt
!
interface Vlan2
description **Linac-RF**
ip address 192.168.240.231 255.255.255.0
no ip redirects
no ip route-cache
no ip mroute-cache
standby 24 ip 192.168.240.1
standby 24 preempt
!
interface Vlan3
description **KEK-LabNet**
no ip address
no ip route-cache
no ip mroute-cache
!
interface Vlan4
description **KEK-B**
ip address 172.19.57.99 255.255.224.0
no ip redirects
no ip route-cache
no ip mroute-cache
standby 48 ip 172.19.57.100
standby 48 preempt
!
interface Vlan5
description **Energy-Center**
ip address 192.168.201.31 255.255.255.0
ip helper-address 192.153.107.2
ip helper-address 192.153.107.3
ip helper-address 192.153.107.16
no ip redirects
no ip route-cache
no ip mroute-cache
standby 56 ip 192.168.201.46
standby 56 preempt
!
interface Vlan6
ip address 192.168.202.2 255.255.255.0
no ip redirects
no ip route-cache
no ip mroute-cache
standby 64 ip 192.168.202.1
standby 64 preempt
!
ip classless

```

```
ip forward-protocol sdns
no ip forward-protocol udp bootpc
no ip forward-protocol udp tftp
no ip forward-protocol udp nameserver
no ip forward-protocol udp domain
no ip forward-protocol udp time
no ip forward-protocol udp netbios-ns
no ip forward-protocol udp netbios-dgm
no ip forward-protocol udp tacacs
ip forward-protocol udp 8001
ip route 130.87.80.0 255.255.248.0 172.19.41.150
ip route 130.87.160.0 255.255.224.0 172.19.65.1
ip route 172.19.28.0 255.255.255.0 192.168.202.101
ip http server
!
snmp-server community public RO
!
banner exec ^C
*****
HW : Catalyst4506
Host Name : c4500-1
Management IP : 172.16.65.31
*****
^C
!
line con 0
password 7 0110090A4F19090332
login
stopbits 1
line vty 0 4
password 7 0110090A4F19090332
login
!
ntp clock-period 17180059
ntp server 172.19.64.4
ntp server 172.19.64.20
!
monitor session 1 destination interface Gi2/48
monitor session 1 source remote vlan 100
!
end
```


7 - 2 . c3750-1

----- show version -----

Cisco IOS Software, C3750 Software (C3750-IPSERVICES-M), Version 12.2(25)SEC, RELEASE SOFTWARE (fc2)
Copyright (c) 1986-2005 by Cisco Systems, Inc.
Compiled Thu 14-Jul-05 21:33 by antonino

ROM: Bootstrap program is C3750 boot loader
BOOTLDR: C3750 Boot Loader (C3750-HBOOT-M) Version 12.2(25r)SEB, RELEASE SOFTWARE (fc)

c3750-1 uptime is 26 weeks, 3 days, 15 hours, 16 minutes
System returned to ROM by power-on
System restarted at 23:40:08 JST Sun Aug 20 2006
System image file is "flash:c3750-ipservices-mz.122-25.SEC/c3750-ipservices-mz.122-25.SEC.bin"

cisco WS-C3750-24TS (PowerPC405) processor (revision L0) with 118784K/12280K bytes of memory.
Processor board ID CAT0920N1M3
Last reset from power-on
6 Virtual Ethernet interfaces
24 FastEthernet interfaces
30 Gigabit Ethernet interfaces
The password-recovery mechanism is enabled.

512K bytes of flash-simulated non-volatile configuration memory.

Base ethernet MAC Address : 00:14:69:39:57:00
Motherboard assembly number : 73-9677-08
Power supply part number : 341-0034-01
Motherboard serial number : CAT09200W23
Power supply serial number : DAB091405WJ
Model revision number : L0
Motherboard revision number : B0
Model number : WS-C3750-24TS-E
System serial number : CAT0920N1M3
Top Assembly Part Number : 800-26382-02
Top Assembly Revision Number : A0
Version ID : V05
CLEI Code Number : CNMV200CRE
Hardware Board Revision Number : 0x01

Switch	Ports	Model	SW Version	SW Image
1	28	WS-C3750G-24TS	12.2(25)SEC	C3750-IPSERVICES-M
* 2	26	WS-C3750-24TS	12.2(25)SEC	C3750-IPSERVICES-M

Switch 01

Switch Uptime : 26 weeks, 3 days, 15 hours, 13 minutes
Base ethernet MAC Address : 00:11:21:8C:78:80
Motherboard assembly number : 73-7058-10
Power supply part number : 341-0045-01
Motherboard serial number : CAT08210LV1
Power supply serial number : LIT081801JD
Model revision number : E0
Motherboard revision number : A0
Model number : WS-C3750G-24TS-S
System serial number : CAT0821N2AE

Configuration register is 0xF

----- show running-config -----

Building configuration...

Current configuration : 11614 bytes
!
! Last configuration change at 14:56:45 JST Thu Feb 22 2007
! NVRAM config last updated at 14:57:07 JST Thu Feb 22 2007
!
version 12.2
no service pad
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone

```
service password-encryption
!
hostname c3750-1
!
enable password 7 02050B551F14002D5F
!
no aaa new-model
clock timezone JST 9
switch 1 provision ws-c3750g-24ts
switch 2 provision ws-c3750-24ts
ip subnet-zero
ip routing
no ip domain-lookup
ip host c2950-5 172.19.65.45
ip host c4500-1 172.19.65.31
ip host c2950-1 172.19.65.41
ip host c2950-2 172.19.65.42
ip host c2950-3 172.19.65.43
ip host c2950-4 172.19.65.44
!
!
!
no file verify auto
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
spanning-tree vlan 1-6 priority 28672
!
vlan internal allocation policy ascending
!
!
interface Port-channel1
 switchport trunk encapsulation dot1q
 switchport trunk allowed vlan 1-6
 switchport mode trunk
!
interface GigabitEthernet1/0/1
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
!
interface GigabitEthernet1/0/2
 switchport access vlan 2
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
!
interface GigabitEthernet1/0/3
 switchport access vlan 3
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
 no cdp enable
!
interface GigabitEthernet1/0/4
 switchport access vlan 4
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
 no cdp enable
!
interface GigabitEthernet1/0/5
 switchport access vlan 5
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
!
interface GigabitEthernet1/0/6
 switchport access vlan 6
 switchport mode access
 no mdix auto
 storm-control broadcast level 50.00
 storm-control multicast level 50.00
!
interface GigabitEthernet1/0/7
 switchport trunk encapsulation dot1q
 switchport trunk allowed vlan 1-3
```



```

description **A1-GUN**
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3
switchport mode trunk
duplex full
speed 100
no mdix auto
!
interface FastEthernet2/0/24
description **SlowPOS**
switchport trunk encapsulation dot1q
switchport trunk allowed vlan 1-3
switchport mode trunk
duplex full
speed 100
no mdix auto
!
interface GigabitEthernet2/0/1
!
interface GigabitEthernet2/0/2
!
interface Vlan1
description **Linac-Control**
ip address 192.153.107.10 255.255.255.0 secondary
ip address 172.19.65.32 255.255.224.0
ip broadcast-address 172.19.95.255
no ip redirects
standby 8 ip 172.19.64.1
standby 8 priority 95
standby 8 preempt
standby 16 ip 192.153.107.1
standby 16 priority 95
standby 16 preempt
!
interface Vlan2
description **Linac-RF**
ip address 192.168.240.232 255.255.255.0
no ip redirects
standby 24 ip 192.168.240.1
standby 24 priority 95
standby 24 preempt
!
interface Vlan3
description **KEK-LabNet**
no ip address
!
interface Vlan4
description **KEK-B**
ip address 172.19.57.101 255.255.224.0
no ip redirects
standby 48 ip 172.19.57.100
standby 48 priority 95
standby 48 preempt
!
interface Vlan5
description **Energy-Center**
ip address 192.168.201.32 255.255.255.0
ip helper-address 192.153.107.2
ip helper-address 192.153.107.3
ip helper-address 192.153.107.16
no ip redirects
standby 56 ip 192.168.201.46
standby 56 priority 95
standby 56 preempt
!
interface Vlan6
ip address 192.168.202.3 255.255.255.0
no ip redirects
standby 64 ip 192.168.202.1
standby 64 priority 95
standby 64 preempt
!
ip classless
ip forward-protocol sdns
no ip forward-protocol udp tftp
no ip forward-protocol udp nameserver
no ip forward-protocol udp domain
no ip forward-protocol udp time
no ip forward-protocol udp netbios-ns
no ip forward-protocol udp netbios-dgm
no ip forward-protocol udp tacacs
ip forward-protocol udp 8001
ip route 130.87.80.0 255.255.248.0 172.19.41.150
ip route 130.87.160.0 255.255.224.0 172.19.65.1

```

```

ip route 172.19.28.0 255.255.255.0 192.168.202.101
ip http server
!
!
snmp-server community public RO
!
control-plane
!
banner exec ^C
*****
HW : Catalyst3750G-24TS-E
Host Name : c3750-1
Management IP : 172.16.65.32
*****
^C
!
line con 0
password 7 00071C081049040A1C
login
line vty 0 4
password 7 00071C081049040A1C
login
line vty 5 15
login
!
ntp clock-period 36028987
ntp server 172.19.64.4
ntp server 172.19.64.20
!
end

```

7 - 3 . c2960-1

----- show version -----

Cisco IOS Software, C2960 Software (C2960-LANBASE-M), Version 12.2(25)SEE2, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Fri 28-Jul-06 04:33 by yenanh
Image text-base: 0x00003000, data-base: 0x00AA2F34

ROM: Bootstrap program is C2960 boot loader
BOOTLDR: C2960 Boot Loader (C2960-HBOOT-M) Version 12.2(25r)SEE1, RELEASE SOFTWARE (fc1)

c2960-01 uptime is 1 hour, 29 minutes
System returned to ROM by power-on
System restarted at 13:31:42 JST Thu Feb 22 2007
System image file is "flash:c2960-lanbase-mz.122-25.SEE2/c2960-lanbase-mz.122-25.SEE2.bin"

cisco WS-C2960-24TT-L (PowerPC405) processor (revision B0) with 61440K/4088K bytes of memory.
Processor board ID FOC1049Z040
Last reset from power-on
1 Virtual Ethernet interface
24 FastEthernet interfaces
2 Gigabit Ethernet interfaces
The password-recovery mechanism is enabled.

64K bytes of flash-simulated non-volatile configuration memory.

Base ethernet MAC Address : 00:1A:6D:57:94:00
Motherboard assembly number : 73-10390-03
Power supply part number : 341-0097-02
Motherboard serial number : FOC104800F2
Power supply serial number : DCA104188N0
Model revision number : B0
Motherboard revision number : C0
Model number : WS-C2960-24TT-L
System serial number : FOC1049Z040
Top Assembly Part Number : 800-27221-02
Top Assembly Revision Number : C0
Version ID : V02
CLEI Code Number : COM3L00BRA
Hardware Board Revision Number : 0x01

Switch	Ports	Model	SW Version	SW Image
* 1	26	WS-C2960-24TT-L	12.2(25)SEE2	C2960-LANBASE-M

Configuration register is 0xF

----- show running-config -----

Building configuration...

Current configuration : 3735 bytes

```
!  
! Last configuration change at 14:39:54 JST Thu Feb 22 2007  
! NVRAM config last updated at 14:40:18 JST Thu Feb 22 2007  
!  
version 12.2  
no service pad  
service timestamps debug datetime msec localtime show-timezone  
service timestamps log datetime msec localtime show-timezone  
service password-encryption  
no service dhcp  
!  
hostname c2960-01  
!  
enable password 7 03075405121D2E405D  
!  
no aaa new-model  
clock timezone JST 9  
vtp mode transparent  
ip subnet-zero  
!  
no ip domain-lookup  
!
```

```
!  
!  
no file verify auto  
!  
spanning-tree mode pvst  
no spanning-tree optimize bpdu transmission  
spanning-tree extend system-id  
spanning-tree uplinkfast  
!  
vlan internal allocation policy ascending  
!  
vlan 2-3,100  
!  
interface FastEthernet0/1  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/2  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/3  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/4  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/5  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/6  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/7  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/8  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/9  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/10  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/11  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/12  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/13  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/14  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/15  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/16  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/17  
switchport mode access  
spanning-tree portfast  
!  
interface FastEthernet0/18  
switchport access vlan 2  
switchport mode access
```

```

spanning-tree portfast
!
interface FastEthernet0/19
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/20
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/21
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/22
switchport access vlan 3
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/23
switchport access vlan 3
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/24
switchport trunk allowed vlan 1-3,100
switchport mode trunk
!
interface GigabitEthernet0/1
switchport mode access
spanning-tree portfast
!
interface GigabitEthernet0/2
switchport trunk allowed vlan 1-3,100
switchport mode trunk
speed 1000
duplex full
!
interface Vlan1
ip address 172.19.65.84 255.255.224.0
ip broadcast-address 172.19.95.255
no ip route-cache
!
ip default-gateway 172.19.64.1
ip http server
snmp-server community controls RW
snmp-server community public RO
snmp-server trap-source Vlan1
snmp-server chassis-id c2960-01
snmp-server enable traps snmp coldstart warmstart
snmp-server enable traps envmon fan shutdown supply temperature
snmp-server enable traps config
!
control-plane
!
banner exec ^C
*****
HW : Catalyst2960-24TT-L
Host Name : c2960-01
Management IP : 172.19.65.84
*****
^C
!
line con 0
password 7 070C2E425A1B160904
login
line vty 0 4
password 7 03075405121D2E405D
login
line vty 5 15
login
!
!
monitor session 1 destination remote vlan 100
ntp clock-period 36028976
ntp server 172.19.65.31
end

```

7 - 4 . c2960-2

```
----- show version -----
Cisco IOS Software, C2960 Software (C2960-LANBASE-M), Version
12.2(25)SEE2, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Fri 28-Jul-06 04:33 by yenanh
Image text-base: 0x00003000, data-base: 0x00AA2F34

ROM: Bootstrap program is C2960 boot loader
BOOTLDR: C2960 Boot Loader (C2960-HBOOT-M) Version 12.2(25r)SEE1,
RELEASE SOFTWARE (fc1)

c2960-02 uptime is 22 hours, 34 minutes
System returned to ROM by power-on
System restarted at 16:28:01 JST Wed Feb 21 2007
System image file is "flash:c2960-lanbase-mz.122-25.SEE2/c2960-lanbase-
mz.122-25.SEE2.bin"

cisco WS-C2960-24TT-L (PowerPC405) processor (revision B0) with
61440K/4088K bytes of memory.
Processor board ID FOC1048ZETM
Last reset from power-on
1 Virtual Ethernet interface
24 FastEthernet interfaces
2 Gigabit Ethernet interfaces
The password-recovery mechanism is enabled.

64K bytes of flash-simulated non-volatile configuration memory.
Base ethernet MAC Address      : 00:1A:6D:44:79:00
Motherboard assembly number    : 73-10390-03
Power supply part number       : 341-0097-02
Motherboard serial number      : FOC10483A7L
Power supply serial number     : DCA104283C3
Model revision number          : B0
Motherboard revision number    : C0
Model number                   : WS-C2960-24TT-L
System serial number           : FOC1048ZETM
Top Assembly Part Number       : 800-27221-02
Top Assembly Revision Number   : C0
Version ID                     : V02
CLEI Code Number               : COM3L00BRA
Hardware Board Revision Number : 0x01
```

Switch	Ports	Model	SW Version	SW Image
*	1 26	WS-C2960-24TT-L	12.2(25)SEE2	C2960-LANBASE-M

Configuration register is 0xF

```
----- show running-config -----
```

```
Building configuration...

Current configuration : 3735 bytes
!
! Last configuration change at 18:02:45 JST Wed Feb 21 2007
! NVRAM config last updated at 18:02:41 JST Wed Feb 21 2007
!
version 12.2
no service pad
service timestamps debug datetime msec localtime show-timezone
service timestamps log datetime msec localtime show-timezone
service password-encryption
no service dhcp
!
hostname c2960-02
!
enable password 7 110A160B0300040017
!
no aaa new-model
clock timezone JST 9
vtp mode transparent
ip subnet-zero
!
no ip domain-lookup
!
```

```
!
!
no file verify auto
!
spanning-tree mode pvst
no spanning-tree optimize bpdu transmission
spanning-tree extend system-id
spanning-tree uplinkfast
!
vlan internal allocation policy ascending
!
vlan 2-3,100
!
interface FastEthernet0/1
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/3
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/4
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/5
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/6
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/7
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/8
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/9
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/10
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/11
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/12
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/13
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/14
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/15
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/16
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/17
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/18
switchport access vlan 2
switchport mode access
```

```

spanning-tree portfast
!
interface FastEthernet0/19
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/20
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/21
switchport access vlan 2
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/22
switchport access vlan 3
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/23
switchport access vlan 3
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/24
switchport trunk allowed vlan 1-3,100
switchport mode trunk
!
interface GigabitEthernet0/1
switchport mode access
spanning-tree portfast
!
interface GigabitEthernet0/2
switchport trunk allowed vlan 1-3,100
switchport mode trunk
speed 1000
duplex full
!
interface Vlan1
ip address 172.19.65.85 255.255.224.0
ip broadcast-address 172.19.95.255
no ip route-cache
!
ip default-gateway 172.19.64.1
ip http server
snmp-server community controls RW
snmp-server community public RO
snmp-server trap-source Vlan1
snmp-server chassis-id c2960-02
snmp-server enable traps snmp coldstart warmstart
snmp-server enable traps envmon fan shutdown supply temperature
snmp-server enable traps config
!
control-plane
!
banner exec ^C
*****
HW : Catalyst2960-24TT-L
Host Name : c2960-02
Management IP : 172.19.65.85
*****
^C
!
line con 0
password 7 045804081B3343421A
login
line vty 0 4
password 7 03075405121D2E405D
login
line vty 5 15
login
!
!
monitor session 1 destination remote vlan 100
ntp clock-period 36028832
ntp server 172.19.65.31
end

```


7 - 5 . fw-linac

----- システム情報 -----

Product Name: NS5GT
Serial Number: 0064112006000972, Control Number: 00000000
Hardware Version: 1010(0)-(00), FPGA checksum: 00000000, VLAN1 IP (0.0.0.0)
Software Version: 5.0.0r11.1, Type: Firewall+VPN
Base Mac: 0014.f69d.e5f0
File Name: ns5gt.5.0.0r11.1, Checksum: 25ebc60b

Date 02/22/2007 15:03:34, Daylight Saving Time disabled
The Network Time Protocol is Enabled
Up 24 hours 40 minutes 9 seconds Since 21 Feb 2007 14:23:25
Total Device Resets: 1, Last Device Reset at: 04/30/2001 05:41:05

Box in trust-untrust mode

System in NAT/route mode.

Use interface IP, Config Port: 80
User Name: admin

Interface trust:
number 2, if_info 176, if_index 0, mode route
link up, phy-link up/full-duplex
vsys Root, zone Trust, vr trust-vr
dhcp client disabled
PPPoE disabled
*ip 172.19.65.1/19 mac 0014.f69d.e5f2
*manage ip 172.19.65.1, mac 0014.f69d.e5f2
route-deny disable

Interface untrust:
number 1, if_info 88, if_index 0, mode route
link up, phy-link up/full-duplex
vsys Root, zone Untrust, vr trust-vr
dhcp client disabled
PPPoE disabled
*ip 130.87.161.132/19 mac 0014.f69d.e5f1
*manage ip 130.87.161.132, mac 0014.f69d.e5f1
route-deny disable

Interface serial:
number 6, if_info 528, if_index 0, mode route
link down, phy-link down
vsys Root, zone Null, vr untrust-vr
*ip 0.0.0.0/0 mac 0014.f69d.e5f6

----- 設定情報 -----

```
set clock dst-off
set clock ntp
set clock timezone 9
set vrouter trust-vr sharable
unset vrouter "trust-vr" auto-route-export
set auth-server "Local" id 0
set auth-server "Local" server-name "Local"
set auth default auth server "Local"
set admin name "admin"
set admin password "nPQg4r5ltvGclujBsK11/Lt7LGM2n"
set admin auth timeout 10
set admin auth server "Local"
set admin format dos
set zone "Trust" vrouter "trust-vr"
set zone "Untrust" vrouter "trust-vr"
set zone "VLAN" vrouter "trust-vr"
set zone "Trust" tcp-rst
set zone "Untrust" block
unset zone "Untrust" tcp-rst
set zone "MGMT" block
set zone "VLAN" block
set zone "VLAN" tcp-rst
set zone "Untrust" screen tear-drop
set zone "Untrust" screen syn-flood
set zone "Untrust" screen ping-death
set zone "Untrust" screen ip-filter-src
set zone "Untrust" screen land
set zone "V1-Untrust" screen tear-drop
set zone "V1-Untrust" screen syn-flood
set zone "V1-Untrust" screen ping-death
set zone "V1-Untrust" screen ip-filter-src
```

```
set zone "V1-Untrust" screen land
set interface "trust" zone "Trust"
set interface "untrust" zone "Untrust"
unset interface vlan1 ip
set interface trust ip 172.19.65.1/19
set interface trust route
set interface untrust ip 130.87.161.132/19
set interface untrust route
unset interface vlan1 bypass-others-ipsec
unset interface vlan1 bypass-non-ip
set interface trust ip manageable
set interface untrust ip manageable
set interface trust manage ping
set interface trust manage ssh
set interface trust manage telnet
set interface trust manage snmp
set interface trust manage ssl
set interface trust manage web
unset interface trust manage ident-reset
set interface untrust manage ping
unset interface untrust manage ssh
unset interface untrust manage telnet
unset interface untrust manage snmp
unset interface untrust manage ssl
unset interface untrust manage web
unset interface untrust manage ident-reset
unset interface hidden.1 manage ping
unset interface hidden.1 manage ssh
unset interface hidden.1 manage telnet
unset interface hidden.1 manage snmp
unset interface hidden.1 manage ssl
unset interface hidden.1 manage web
unset interface hidden.1 manage ident-reset
unset interface self manage ping
unset interface self manage ssh
unset interface self manage telnet
unset interface self manage snmp
unset interface self manage ssl
unset interface self manage web
unset interface self manage ident-reset
set interface vlan1 manage ping
set interface vlan1 manage ssh
set interface vlan1 manage telnet
set interface vlan1 manage snmp
set interface vlan1 manage ssl
set interface vlan1 manage web
unset interface vlan1 manage ident-reset
set zone V1-Trust manage ping
set zone V1-Trust manage ssh
set zone V1-Trust manage telnet
set zone V1-Trust manage snmp
set zone V1-Trust manage ssl
set zone V1-Trust manage web
unset zone V1-Trust manage ident-reset
unset zone V1-Untrust manage ping
unset zone V1-Untrust manage ssh
unset zone V1-Untrust manage telnet
unset zone V1-Untrust manage snmp
unset zone V1-Untrust manage ssl
unset zone V1-Untrust manage web
unset zone V1-Untrust manage ident-reset
set flow tcp-mss
set console page 0
set hostname fw-linac
set address "Untrust" "xdream" 130.87.164.223 255.255.255.255
set ike respond-bad-spi 1
set pki authority default scep mode "auto"
set pki x509 default cert -path partial
set policy id 1 from "Trust" to "Untrust" "Any" "Any" "ANY" permit
set policy id 2 from "Untrust" to "Trust" "Any" "Any" "ANY" permit
set policy id 3 from "Untrust" to "Trust" "xdream" "Any" "ANY" permit log
set global-pro policy-manager primary outgoing-interface untrust
set global-pro policy-manager secondary outgoing-interface untrust
set ssh version v2
set ssh enable
set config lock timeout 5
set ntp server "172.19.64.1"
set ntp server backup1 "0.0.0.0"
set ntp server backup2 "0.0.0.0"
set modem speed 115200
set modem retry 3
set modem interval 10
set modem idle-time 10
set snmp port listen 161
```

```
set snmp port trap 162
set vrouter "untrust-vr"
exit
set vrouter "trust-vr"
unset add-default-route
set route 192.168.240.0/24 interface trust gateway 172.19.64.1
set route 172.19.32.0/19 interface trust gateway 172.19.64.1
exit
```

7 - 6 . fw-kekb

----- システム情報 -----

Product Name: NS5GT
Serial Number: 0064112006001154, Control Number: 00000000
Hardware Version: 1010(0)-(00), FPGA checksum: 00000000, VLAN1 IP (0.0.0.0)
Software Version: 5.0.0r11.1, Type: Firewall+VPN
Base Mac: 0014.f69d.f150
File Name: ns5gt.5.0.0r11.1, Checksum: 25ebc60b

Date 02/22/2007 15:05:02, Daylight Saving Time disabled
The Network Time Protocol is Enabled
Up 21 hours 52 minutes 29 seconds Since 21 Feb 2007 17:12:33
Total Device Resets: 0

Box in trust-untrust mode

System in NAT/route mode.

Use interface IP, Config Port: 80
User Name: admin

Interface trust:
number 2, if_info 176, if_index 0, mode route
link up, phy-link up/full-duplex
vsys Root, zone Trust, vr trust-vr
dhcp client disabled
PPPoE disabled
*ip 172.19.41.150/19 mac 0014.f69d.f152
*manage ip 172.19.41.150, mac 0014.f69d.f152
route-deny disable

Interface untrust:
number 1, if_info 88, if_index 0, mode route
link up, phy-link up/full-duplex
vsys Root, zone Untrust, vr trust-vr
dhcp client disabled
PPPoE disabled
*ip 130.87.86.71/21 mac 0014.f69d.f151
*manage ip 130.87.86.71, mac 0014.f69d.f151
route-deny disable

Interface serial:
number 6, if_info 528, if_index 0, mode route
link down, phy-link down
vsys Root, zone Null, vr untrust-vr
*ip 0.0.0.0/0 mac 0014.f69d.f156

----- 設定情報 -----

```
set clock dst-off
set clock ntp
set clock timezone 9
set vrouter trust-vr sharable
unset vrouter "trust-vr" auto-route-export
set auth-server "Local" id 0
set auth-server "Local" server-name "Local"
set auth default auth server "Local"
set admin name "admin"
set admin password "nPQgl4r5IvGcluBJSK11/Lt7LGM2n"
set admin auth timeout 10
set admin auth server "Local"
set admin format dos
set zone "Trust" vrouter "trust-vr"
set zone "Untrust" vrouter "trust-vr"
set zone "VLAN" vrouter "trust-vr"
set zone "Trust" tcp-rst
set zone "Untrust" block
unset zone "Untrust" tcp-rst
set zone "MGT" block
set zone "VLAN" block
set zone "VLAN" tcp-rst
set zone "Untrust" screen tear-drop
set zone "Untrust" screen syn-flood
set zone "Untrust" screen ping-death
set zone "Untrust" screen ip-filter-src
set zone "Untrust" screen land
set zone "V1-Untrust" screen tear-drop
set zone "V1-Untrust" screen syn-flood
set zone "V1-Untrust" screen ping-death
set zone "V1-Untrust" screen ip-filter-src
```

```
set zone "V1-Untrust" screen land
set interface "trust" zone "Trust"
set interface "untrust" zone "Untrust"
unset interface vlan1 ip
set interface trust ip 172.19.41.150/19
set interface trust route
set interface untrust ip 130.87.86.71/21
set interface untrust route
unset interface vlan1 bypass-others-ipsec
unset interface vlan1 bypass-non-ip
set interface trust ip manageable
set interface untrust ip manageable
set interface trust manage ping
set interface trust manage ssh
set interface trust manage telnet
set interface trust manage snmp
set interface trust manage ssl
set interface trust manage web
unset interface trust manage ident-reset
set interface untrust manage ping
unset interface untrust manage ssh
unset interface untrust manage telnet
unset interface untrust manage snmp
unset interface untrust manage ssl
unset interface untrust manage web
unset interface untrust manage ident-reset
unset interface hidden.1 manage ping
unset interface hidden.1 manage ssh
unset interface hidden.1 manage telnet
unset interface hidden.1 manage snmp
unset interface hidden.1 manage ssl
unset interface hidden.1 manage web
unset interface hidden.1 manage ident-reset
unset interface self manage ping
unset interface self manage ssh
unset interface self manage telnet
unset interface self manage snmp
unset interface self manage ssl
unset interface self manage web
unset interface self manage ident-reset
set interface vlan1 manage ping
set interface vlan1 manage ssh
set interface vlan1 manage telnet
set interface vlan1 manage snmp
set interface vlan1 manage ssl
set interface vlan1 manage web
unset interface vlan1 manage ident-reset
set zone V1-Trust manage ping
set zone V1-Trust manage ssh
set zone V1-Trust manage telnet
set zone V1-Trust manage snmp
set zone V1-Trust manage ssl
set zone V1-Trust manage web
unset zone V1-Trust manage ident-reset
unset zone V1-Untrust manage ping
unset zone V1-Untrust manage ssh
unset zone V1-Untrust manage telnet
unset zone V1-Untrust manage snmp
unset zone V1-Untrust manage ssl
unset zone V1-Untrust manage web
unset zone V1-Untrust manage ident-reset
set flow tcp-mss
set console page 0
set hostname fw-kekb
set address "Trust" "abco1" 172.19.57.156 255.255.255.255
set ike respond-bad-spi 1
set pki authority default scep mode "auto"
set pki x509 default cert -path partial
set policy id 1 from "Trust" to "Untrust" "Any" "Any" "ANY" permit
set policy id 2 from "Untrust" to "Trust" "Any" "Any" "ANY" permit
set global-pro policy-manager primary outgoing-interface untrust
set global-pro policy-manager secondary outgoing-interface untrust
set ssh version v2
set ssh enable
set config lock timeout 5
set ntp server "172.19.57.100"
set ntp server backup1 "0.0.0.0"
set ntp server backup2 "0.0.0.0"
set modem speed 115200
set modem retry 3
set modem interval 10
set modem idle-time 10
set snmp name "fw-kekb"
set snmp port listen 161
```

```
set snmp port trap 162
set vrouter "untrust-vr"
exit
set vrouter "trust-vr"
unset add-default-route
set route 172.19.64.0/19 interface trust gateway 172.19.57.100
exit
```

7 - 7 . aruba

----- show version -----

System Time: Fri Mar 23 04:38:01 JST 2007

Aruba Operating System Software.
ArubaOS (MODEL: Aruba2400), Version 2.5.4.8
Website: <http://www.arubanetworks.com>
Copyright (c) 2002-2006, Aruba Wireless Networks Inc.
Compiled on 2007-01-23 at 16:25:29 PST (build 13999) by p4build

ROM: System Bootstrap, Version CPBoot 1.1.5 (Aug 30 2004 - 16:24:48)

Switch uptime is 8 hours 26 minutes 39 seconds
Reboot Cause: Power Failure.
Supervisor Card
Processor (revision 16.20 (pvr 8081 1014)) with 256M bytes of memory.
32K bytes of non-volatile configuration memory.
256M bytes of Supervisor Card System flash (model=CF 256MB).

Config File: default.cfg

Boot Partition: PARTITION 0

----- show running-config -----

```
version 2.5
enable secret "dd20d9c0f37504ac56c90a7f9a727ae62987c0363a41c7dc"
telnet cli
telnet soe
hostname "Aruba"
logging level warnings stm
clock timezone JST 9
net service svc-snmp-trap udp 162
net service svc-dhcp udp 67 68
net service svc-smb-tcp tcp 445
net service svc-https tcp 443
net service svc-ike udp 500
net service svc-l2tp udp 1701
net service svc-syslog udp 514
net service svc-pptp tcp 1723
net service svc-telnet tcp 23
net service svc-sccp tcp 2000
net service svc-tftp udp 69
net service svc-sip-tcp tcp 5060
net service svc-kerberos udp 88
net service svc-pop3 tcp 110
net service svc-adp udp 8200
net service svc-cfgm-tcp tcp 8211
net service svc-dns udp 53
net service svc-msrpc-tcp tcp 135 139
net service svc-rtsp tcp 554
net service svc-http tcp 80
net service svc-vocera udp 5002
net service svc-nterm tcp 1026 1028
net service svc-sip-udp udp 5060
net service svc-papi udp 8211
net service svc-ftp tcp 21
net service svc-natt udp 4500
net service svc-svp 119
net service svc-gre 47
net service svc-smtp tcp 25
net service svc-smb-udp udp 445
net service svc-esp 50
net service svc-bootp udp 67 69
net service svc-snmp udp 161
net service svc-icmp 1
net service svc-ntp udp 123
net service svc-msrpc-udp udp 135 139
net service svc-ssh tcp 22
ip access-list session control
user any udp 68 deny
any any svc-icmp permit
any any svc-dns permit
any any svc-papi permit
any any svc-cfgm-tcp permit
any any svc-adp permit
any any svc-tftp permit
any any svc-dhcp permit
```

```
any any svc-natt permit
!
ip access-list session validuser
any any any permit
!
ip access-list session vocera-acl
any any svc-vocera permit queue high
!
ip access-list session captiveportal
user alias mswitch svc-https dst-nat
user any svc-http dst-nat 8080
user any svc-https dst-nat 8081
!
ip access-list session allowall
any any any permit
!
ip access-list session sip-acl
any any svc-sip-udp permit queue high
any any svc-sip-tcp permit queue high
!
ip access-list session https-acl
any any svc-https permit
!
ip access-list session dns-acl
any any svc-dns permit
!
ip access-list session vpnlogon
user any svc-ike permit
user any svc-esp permit
any any svc-l2tp permit
any any svc-pptp permit
any any svc-gre permit
!
ip access-list session srcnat
user any any src-nat
!
ip access-list session skinny-acl
any any svc-sccp permit queue high
!
ip access-list session tftp-acl
any any svc-tftp permit
!
ip access-list session cplgout
user alias mswitch svc-https dst-nat
!
ip access-list session guest
!
ip access-list session dhcp-acl
any any svc-dhcp permit
!
ip access-list session http-acl
any any svc-http permit
!
ip access-list session ap-acl
any any svc-gre permit
any any svc-syslog permit
any user svc-snmp permit
user any svc-snmp-trap permit
user any svc-ntp permit
!
ip access-list session svp-acl
any any svc-svp permit queue high
user host 224.0.1.116 any permit
!
vpn-dialer default-dialer
ike authentication PRE-SHARE
68fca6caa7655737daa32fe639bd3346314bff8dbda94e3
!
user-role ap-role
session-acl control
session-acl ap-acl
!
user-role pre-employee
session-acl allowall
!
user-role trusted-ap
session-acl allowall
!
user-role default-vpn-role
session-acl allowall
!
user-role guest
session-acl control
session-acl cplgout
```

```

!
user-role stateful-dot1x
!
user-role stateful
session-acl control
!
user-role pre-voice
session-acl sip-acl
session-acl svp-acl
session-acl vocera-acl
session-acl skinny-acl
session-acl dhcp-acl
session-acl ftp-acl
session-acl dns-acl
!
user-role logon
session-acl control
session-acl captiveportal
session-acl vpnlogon
!
user-role pre-guest
session-acl http-acl
session-acl https-acl
session-acl dhcp-acl
session-acl dns-acl
!
aaa derivation-rules user
set role condition essid equals "linac-a" set-value pre-employee
set role condition essid equals "kekb-a" set-value pre-employee
set role condition essid equals "aruba-ap" set-value pre-employee
!
aaa mgmt-authentication mode enable
aaa pubkey-authentication
!
aaa dot1x enforce-machine-authentication
mode disable
!
dot1x timeout wpa-key-timeout 1

interface mgmt
    shutdown
!

vlan 3
vlan 4

interface fastethernet 1/0
description "To_c4500-1_P37"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!

interface fastethernet 1/1
description "To_c4500-1_P38"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!

interface fastethernet 1/2
description "To_c4500-1_P39"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!

interface fastethernet 1/3
description "To_c4500-1_P40"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!

interface fastethernet 1/4
description "fe1/4"
trusted
!

interface fastethernet 1/5
description "fe1/5"
trusted
!

```

```

interface fastethernet 1/6
description "fe1/6"
trusted
!

interface fastethernet 1/7
description "fe1/7"
trusted
!

interface fastethernet 1/8
description "fe1/8"
trusted
!

interface fastethernet 1/9
description "fe1/9"
trusted
!

interface fastethernet 1/10
description "fe1/10"
trusted
!

interface fastethernet 1/11
description "fe1/11"
trusted
!

interface fastethernet 1/12
description "fe1/12"
trusted
!

interface fastethernet 1/13
description "fe1/13"
trusted
!

interface fastethernet 1/14
description "fe1/14"
trusted
!

interface fastethernet 1/15
description "fe1/15"
trusted
!

interface fastethernet 1/16
description "fe1/16"
trusted
!

interface fastethernet 1/17
description "fe1/17"
trusted
!

interface fastethernet 1/18
description "fe1/18"
trusted
!

interface fastethernet 1/19
description "fe1/19"
trusted
!

interface fastethernet 1/20
description "fe1/20"
trusted
!

interface fastethernet 1/21
description "fe1/21"
trusted
!

interface fastethernet 1/22
description "fe1/22"
trusted
!

```

```

!
interface fastethernet 1/23
    description "fe1/23"
    trusted
    switchport access vlan 4
!
interface gigabitethernet 1/24
    description "gig1/24"
    trusted
!
interface gigabitethernet 1/25
    description "gig1/25"
    trusted
!
interface port-channel 1
    add fastethernet 1/1
    add fastethernet 1/2
    add fastethernet 1/3
    add fastethernet 1/0
    trusted
    switchport mode trunk
    switchport trunk allowed vlan 1,3-4
!
interface vlan 1
    ip address 172.19.65.102 255.255.224.0
    operstate up
!
ip default-gateway 172.19.64.1
country JP
ap location 0.0.0
ap-logging level informational snmpd
double-encrypt disable
ap-logging level informational sapsd
ap-logging level warnings am
ap-logging level warnings stm
max-imalive-retries 10
bkplms-ip 0.0.0.0
opmode opensystem
mode ap_mode
authalgo opensystem
rts-threshold 2333
tx-power 2
max-retries 4
dtim-period 1
max-clients 64
beacon-period 100
ap-enable enable
power-mgmt enable
ageout 1000
hide-ssid disable
battery-boost disable
deny-bcast disable
rf-band g
bootstrap-threshold 7
local-probe-response enable
max-tx-fail 0
forward-mode tunnel
native-vlan-id 1
arm assignment disable
arm client-aware enable
arm scanning disable
arm scan-time 110
arm scan-interval 10
arm multi-band-scan disable
arm voip-aware-scan enable
arm max-tx-power 4
arm min-tx-power 0
arm rogue-ap-aware disable
voip call-admission-control disable
voip drop-sip-invite-for-cac disable
voip disconnect-extra-call-for-cac disable
voip active-load-balancing disable
voip vocera-call-capacity 10
voip sip-call-capacity 10
voip svp-call-capacity 10

```

```

voip sccp-call-capacity 10
voip call-handoff-reservation 20
voip high-capacity-threshold 20
ssid "linac-a"
    phy-type a
    channel 34
    rates 6,12,24
    txrates 6,9,12,18,24,36,48,54
    essid "aruba-ap"
    deny-bcast enable
    hide-ssid enable
    ap-enable disable
    tx-power 2
!
    phy-type g
    short-preamble enable
    channel 1
    rates 1,2
    txrates 1,2,5,11,6,9,12,18,24,36,48,54
    bg-mode mixed
    weptxkey 1
    dtim-period 1
    forward-mode tunnel
    hide-ssid disable
    deny-bcast disable
    opmode staticWep
    wepkey1 c8076991ff8b247fe23360f10df07c4db15588916c842261
    essid "linac-a"
    vlan-id 1
    virtual-ap "kekb-a" vlan-id 4 opmode staticWep deny-bcast disable wepkey1
493206361c0c334b1b0a70a13101af39268442c2b54e610e weptxkey 1 hide-ssid
disable dtim-period 1
    tx-power 4
    ap-enable enable
    virtual-ap "kek-al" vlan-id 3 opmode staticWep deny-bcast disable wepkey1
ba33382d15aa84c7363af8627849b36600d31ae4768f47da weptxkey 1 hide-ssid
disable dtim-period 1
!
ap location 0.0.0
    phy-type enet1
    mode active-standby
    switchport mode access
    switchport access vlan 1
    switchport trunk native vlan 1
    switchport trunk allowed vlan ALL
    trusted disable
!
!
ap location 2.1.1
    phy-type g
    channel 6
!
!
wms
general poll-interval 60000
general poll-retries 2
general ap-ageout-interval 30
general sta-ageout-interval 30
general ap-inactivity-timeout 5
general sta-inactivity-timeout 60
general grace-time 2000
general laser-beam enable
general laser-beam-debug disable
general wired-laser-beam disable
general stat-update enable
general am-stats-update-interval 0
ap-policy learn-ap disable
ap-policy classification enable
ap-policy overlay-classification disable
ap-policy protect-unsecure-ap disable
ap-policy detect-misconfigured-ap disable
ap-policy protect-misconfigured-ap disable
ap-policy protect-mt-channel-split disable
ap-policy protect-mt-ssid disable
ap-policy detect-ap-impersonation disable
ap-policy protect-ap-impersonation disable
ap-policy beacon-diff-threshold 50
ap-policy beacon-inc-wait-time 3
ap-policy min-pot-ap-beacon-rate 25
ap-policy min-pot-ap-monitor-time 2
ap-policy protect-ibss disable
ap-policy ap-load-balancing disable
ap-policy ap-lb-max-retries 8

```

```
ap-policy ap-lb-util-high-wm 90
ap-policy ap-lb-util-low-wm 80
ap-policy ap-lb-util-wait-time 30
ap-policy ap-lb-user-high-wm 255
ap-policy ap-lb-user-low-wm 230
ap-policy persistent-known-interfering disable
ap-config short-preamble disable
ap-config privacy disable
ap-config wpa disable
station-policy protect-valid-sta disable
station-policy handoff-assist disable
station-policy rssi-falloff-wait-time 4
station-policy low-rssi-threshold 20
station-policy rssi-check-frequency 3
station-policy detect-association-failure disable
global-policy detect-bad-wep disable
global-policy detect-interference disable
global-policy interference-inc-threshold 100
global-policy interference-inc-timeout 30
global-policy interference-wait-time 30
event-threshold fer-high-wm 0
event-threshold fer-low-wm 0
event-threshold frr-high-wm 16
event-threshold frr-low-wm 8
event-threshold flsr-high-wm 16
event-threshold flsr-low-wm 8
event-threshold fnur-high-wm 0
event-threshold fnur-low-wm 0
event-threshold frer-high-wm 16
event-threshold frer-low-wm 8
event-threshold ffr-high-wm 16
event-threshold ffr-low-wm 8
event-threshold bwr-high-wm 0
event-threshold bwr-low-wm 0
valid-11b-channel 1 mode enable
valid-11b-channel 6 mode enable
valid-11b-channel 11 mode enable
valid-11a-channel 34 mode enable
valid-11a-channel 38 mode enable
valid-11a-channel 42 mode enable
valid-11a-channel 46 mode enable
ids-policy signature-check disable
ids-policy rate-check disable
ids-policy dsta-check disable
ids-policy sequence-check disable
ids-policy mac-oui-check disable
ids-policy eap-check disable
ids-policy ap-flood-check disable
ids-policy adhoc-check disable
ids-policy wbridge-check disable
ids-policy sequence-diff 300
ids-policy sequence-time-tolerance 300
ids-policy sequence-quiet-time 900
ids-policy eap-rate-threshold 10
ids-policy eap-rate-time-interval 60
ids-policy eap-rate-quiet-time 900
ids-policy ap-flood-threshold 50
ids-policy ap-flood-inc-time 3
ids-policy ap-flood-quiet-time 900
ids-policy signature-quiet-time 900
ids-policy dsta-quiet-time 900
ids-policy adhoc-quiet-time 900
ids-policy wbridge-quiet-time 900
ids-policy mac-oui-quiet-time 900
ids-policy rate-frame-type-param assoc channel-threshold 30
ids-policy rate-frame-type-param assoc channel-inc-time 3
ids-policy rate-frame-type-param assoc channel-quiet-time 900
ids-policy rate-frame-type-param assoc node-threshold 30
ids-policy rate-frame-type-param assoc node-time-interval 60
ids-policy rate-frame-type-param assoc node-quiet-time 900
ids-policy rate-frame-type-param disassoc channel-threshold 30
ids-policy rate-frame-type-param disassoc channel-inc-time 3
ids-policy rate-frame-type-param disassoc channel-quiet-time 900
ids-policy rate-frame-type-param disassoc node-threshold 30
ids-policy rate-frame-type-param disassoc node-time-interval 60
ids-policy rate-frame-type-param disassoc node-quiet-time 900
ids-policy rate-frame-type-param deauth channel-threshold 30
ids-policy rate-frame-type-param deauth channel-inc-time 3
ids-policy rate-frame-type-param deauth channel-quiet-time 900
ids-policy rate-frame-type-param deauth node-threshold 20
ids-policy rate-frame-type-param deauth node-time-interval 60
ids-policy rate-frame-type-param deauth node-quiet-time 900
ids-policy rate-frame-type-param probe-request channel-threshold 200
ids-policy rate-frame-type-param probe-request channel-inc-time 3
```

```
ids-policy rate-frame-type-param probe-request channel-quiet-time 900
ids-policy rate-frame-type-param probe-request node-threshold 200
ids-policy rate-frame-type-param probe-request node-time-interval 15
ids-policy rate-frame-type-param probe-request node-quiet-time 900
ids-policy rate-frame-type-param probe-response channel-threshold 200
ids-policy rate-frame-type-param probe-response channel-inc-time 3
ids-policy rate-frame-type-param probe-response channel-quiet-time 900
ids-policy rate-frame-type-param probe-response node-threshold 150
ids-policy rate-frame-type-param probe-response node-time-interval 15
ids-policy rate-frame-type-param probe-response node-quiet-time 900
ids-policy rate-frame-type-param auth channel-threshold 30
ids-policy rate-frame-type-param auth channel-inc-time 3
ids-policy rate-frame-type-param auth channel-quiet-time 900
ids-policy rate-frame-type-param auth node-threshold 30
ids-policy rate-frame-type-param auth node-time-interval 60
ids-policy rate-frame-type-param auth node-quiet-time 900
ids-signature "ASLEAP"
  mode enable
  frame-type beacon ssid asleap
!
ids-signature "Null-Probe-Response"
  mode enable
  frame-type probe-response ssid-length 0
!
ids-signature "AirJack"
  mode enable
  frame-type beacon ssid AirJack
!
ids-signature "NetStumbler Generic"
  mode enable
  payload 0x00601d 3
  payload 0x0001 6
!
ids-signature "NetStumbler Version 3.3.0x"
  mode enable
  payload 0x00601d 3
  payload 0x000102 12
!
ids-signature "Deauth-Broadcast"
  mode enable
  frame-type deauth
  dst-mac ff:ff:ff:ff:ff:ff
!
!
site-survey calibration-max-packets 256
site-survey calibration-transmit-rate 500
site-survey rra-max-compute-time 600000
site-survey max-ha-neighbors 3
site-survey neighbor-tx-power-bump 2
site-survey ha-compute-time 0

arm min-scan-time 8
arm ideal-coverage-index 5
arm acceptable-coverage-index 2
arm wait-time 15
arm free-channel-index 25
arm backoff-time 240
arm error-rate-threshold 0
arm error-rate-wait-time 30
arm noise-threshold 0
arm noise-wait-time 120

ems server-ip 0.0.0.0

crypto isakmp groupname changeme

vpdn group l2tp
  ppp authentication PAP
!

masterip 127.0.0.1
location "Building1.floor1"
mobility
  parameters 60 buffer 32
  manager disable
  proxy-dhcp enable
  station-masquerade enable
  on-association disable
  trusted-roam disable
  ignore-l2-broadcast disable
  block-dhcp-release disable
  no new-user-roaming
```



```

max-dhcp-requests 4
secure 1000 shared-secret c4ec3cceb5772966b4a71ebb8a0961c
!
mobility-local
local-ha disable
!
mobagent
home-agent parameters 1000 bindings 300
secure-mobile spi 1000 dd1e9b8cff8fb83e97e6988e462fbdcb
foreign-agent parameters 1100 bindings 300 pending 0 pending-time 300
!

syslocation "KEK-Linac"
syscontact "SEM"
no snmp-server enable trap
vpdn group pptp
ppp authentication MSCHAPv2
!

stm dos-prevention disable
stm vlan-mobility disable
stm strict-compliance enable
stm fast-roaming disable
stm sta-dos-prevention disable
stm sta-dos-block-time 3600
stm auth-failure-block-time 0
stm coverage-hole-detection disable
stm good-rssi-threshold 20
stm poor-rssi-threshold 10
stm hole-detection-interval 180
stm good-sta-ageout 30
stm idle-sta-ageout 90
stm ap-inactivity-timeout 15

mux-address 0.0.0.0

adp discovery enable
adp igmp-join enable
adp igmp-vlan 0

voip prioritization enable

mgmt-role guest-provisioning
description "This is a Guest Provisioning Role."
permit local-userdb-guest read write
!
mgmt-role root
description "This is Default Super User Role"
permit super-user
!
mgmt-user admin root df21c5b43d5a51d9903b3ddc67bcb3c92c5ca4e8db976289

no database synchronize
database synchronize rf-plan-data

ip igmp
!

packet-capture-defaults tcp disable udp disable sysmsg disable other disable
end

show configuration

version 2.5
enable secret "0d228325edb4ba34d7d39c771e4b0b14260d8206936b36f"
telnet cli
telnet soe
hostname "Aruba"
logging level warnings stm
clock timezone JST 9
net service svc-snmp-trap udp 162
net service svc-dhcp udp 67 68
net service svc-smb-tcp tcp 445
net service svc-https tcp 443
net service svc-ike udp 500
net service svc-l2tp udp 1701
net service svc-syslog udp 514
net service svc-pptp tcp 1723
net service svc-telnet tcp 23
net service svc-sccp tcp 2000

```

```

net service svc-tftp udp 69
net service svc-sip-tcp tcp 5060
net service svc-kerberos udp 88
net service svc-pop3 tcp 110
net service svc-adp udp 8200
net service svc-cfgm-tcp tcp 8211
net service svc-dns udp 53
net service svc-msrpc-tcp tcp 135 139
net service svc-rtsp tcp 554
net service svc-http tcp 80
net service svc-vocera udp 5002
net service svc-nterm tcp 1026 1028
net service svc-sip-udp udp 5060
net service svc-papi udp 8211
net service svc-ftp tcp 21
net service svc-natt udp 4500
net service svc-svp 119
net service svc-gre 47
net service svc-smtp tcp 25
net service svc-smb-udp udp 445
net service svc-esp 50
net service svc-bootp udp 67 69
net service svc-snmpp udp 161
net service svc-icmp 1
net service svc-ntp udp 123
net service svc-msrpc-udp udp 135 139
net service svc-ssh tcp 22
ip access-list session control
user any udp 68 deny
any any svc-icmp permit
any any svc-dns permit
any any svc-papi permit
any any svc-cfgm-tcp permit
any any svc-adp permit
any any svc-tftp permit
any any svc-dhcp permit
any any svc-natt permit
!
ip access-list session validuser
any any any permit
!
ip access-list session vocera-acl
any any svc-vocera permit queue high
!
ip access-list session captiveportal
user alias mswitch svc-https dst-nat
user any svc-http dst-nat 8080
user any svc-https dst-nat 8081
!
ip access-list session allowall
any any any permit
!
ip access-list session sip-acl
any any svc-sip-udp permit queue high
any any svc-sip-tcp permit queue high
!
ip access-list session https-acl
any any svc-https permit
!
ip access-list session dns-acl
any any svc-dns permit
!
ip access-list session vpnlogon
user any svc-ike permit
user any svc-esp permit
any any svc-l2tp permit
any any svc-pptp permit
any any svc-gre permit
!
ip access-list session srccnat
user any any src-nat
!
ip access-list session skinny-acl
any any svc-sccp permit queue high
!
ip access-list session tftp-acl
any any svc-tftp permit
!
ip access-list session cplogout
user alias mswitch svc-https dst-nat
!
ip access-list session guest
!
ip access-list session dhcp-acl

```

```

any any svc-dhcp permit
!
ip access-list session http-acl
any any svc-http permit
!
ip access-list session ap-acl
any any svc-gre permit
any any svc-syslog permit
any user svc-snmp permit
user any svc-snmp-trap permit
user any svc-ntp permit
!
ip access-list session svp-acl
any any svc-svp permit queue high
user host 224.0.1.116 any permit
!
vpn-dialer default-dialer
ike authentication PRE-SHARE
6ea4c915732dd5f1e04b1be0abb88168a7498884061d6942
!
user-role ap-role
session-acl control
session-acl ap-acl
!
user-role pre-employee
session-acl allowall
!
user-role trusted-ap
session-acl allowall
!
user-role default-vpn-role
session-acl allowall
!
user-role guest
session-acl control
session-acl cplogout
!
user-role stateful-dot1x
!
user-role stateful
session-acl control
!
user-role pre-voice
session-acl sip-acl
session-acl svp-acl
session-acl vocera-acl
session-acl skinny-acl
session-acl dhcp-acl
session-acl tftp-acl
session-acl dns-acl
!
user-role logon
session-acl control
session-acl captiveportal
session-acl vpnlogon
!
user-role pre-guest
session-acl http-acl
session-acl https-acl
session-acl dhcp-acl
session-acl dns-acl
!
aaa derivation-rules user
set role condition essid equals "linac-a" set-value pre-employee
set role condition essid equals "kekb-a" set-value pre-employee
set role condition essid equals "aruba-ap" set-value pre-employee
!
aaa mgmt-authentication mode enable
aaa pubkey-authentication
!
aaa dot1x enforce-machine-authentication
mode disable
!
dot1x timeout wpa-key-timeout 1

interface mgmt
shutdown
!

vlan 3
vlan 4

interface fastethernet 1/0

```

```

description "To_c4500-1_P37"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!
interface fastethernet 1/1
description "To_c4500-1_P38"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!
interface fastethernet 1/2
description "To_c4500-1_P39"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!
interface fastethernet 1/3
description "To_c4500-1_P40"
trusted
switchport mode trunk
switchport trunk allowed vlan 1,3-4
!
interface fastethernet 1/4
description "fe1/4"
trusted
!
interface fastethernet 1/5
description "fe1/5"
trusted
!
interface fastethernet 1/6
description "fe1/6"
trusted
!
interface fastethernet 1/7
description "fe1/7"
trusted
!
interface fastethernet 1/8
description "fe1/8"
trusted
!
interface fastethernet 1/9
description "fe1/9"
trusted
!
interface fastethernet 1/10
description "fe1/10"
trusted
!
interface fastethernet 1/11
description "fe1/11"
trusted
!
interface fastethernet 1/12
description "fe1/12"
trusted
!
interface fastethernet 1/13
description "fe1/13"
trusted
!
interface fastethernet 1/14
description "fe1/14"
trusted
!
interface fastethernet 1/15
description "fe1/15"

```

```

!
        trusted
!
interface fastethernet 1/16
        description "fe1/16"
        trusted
!
interface fastethernet 1/17
        description "fe1/17"
        trusted
!
interface fastethernet 1/18
        description "fe1/18"
        trusted
!
interface fastethernet 1/19
        description "fe1/19"
        trusted
!
interface fastethernet 1/20
        description "fe1/20"
        trusted
!
interface fastethernet 1/21
        description "fe1/21"
        trusted
!
interface fastethernet 1/22
        description "fe1/22"
        trusted
!
interface fastethernet 1/23
        description "fe1/23"
        trusted
        switchport access vlan 4
!
interface gigabitethernet 1/24
        description "gig1/24"
        trusted
!
interface gigabitethernet 1/25
        description "gig1/25"
        trusted
!
interface port-channel 1
        add fastethernet 1/1
        add fastethernet 1/2
        add fastethernet 1/3
        add fastethernet 1/0
        trusted
        switchport mode trunk
        switchport trunk allowed vlan 1,3-4
!
interface vlan 1
        ip address 172.19.65.102 255.255.224.0
        operstate up
!
ip default-gateway 172.19.64.1

country JP

ap location 0.0.0
ap-logging level informational snmpd

double-encrypt disable
ap-logging level informational sapd
ap-logging level warnings am
ap-logging level warnings stm
max-imalive-retries 10
bkplms-ip 0.0.0.0
opmode opensystem
mode ap_mode

```

```

authalgo opensystem
rts-threshold 2333
tx-power 2
max-retries 4
dtim-period 1
max-clients 64
beacon-period 100
ap-enable enable
power-mgmt enable
ageout 1000
hide-ssid disable
battery-boost disable
deny-bcast disable
rf-band g
bootstrap-threshold 7
local-probe-response enable
max-tx-fail 0
forward-mode tunnel
native-vlan-id 1
arm assignment disable
arm client-aware enable
arm scanning disable
arm scan-time 110
arm scan-interval 10
arm multi-band-scan disable
arm voip-aware-scan enable
arm max-tx-power 4
arm min-tx-power 0
arm rogue-ap-aware disable
voip call-admission-control disable
voip drop-sip-invite-for-cac disable
voip disconnect-extra-call-for-cac disable
voip active-load-balancing disable
voip vocera-call-capacity 10
voip sip-call-capacity 10
voip svp-call-capacity 10
voip sccp-call-capacity 10
voip call-handoff-reservation 20
voip high-capacity-threshold 20
ssid "linac-a"
phy-type a
channel 34
rates 6,12,24
txrates 6,9,12,18,24,36,48,54
ssid "aruba-ap"
deny-bcast enable
hide-ssid enable
ap-enable disable
tx-power 2
!
phy-type g
short-preamble enable
channel 1
rates 1,2
txrates 1,2,5,11,6,9,12,18,24,36,48,54
bg-mode mixed
weptxkey 1
dtim-period 1
forward-mode tunnel
hide-ssid disable
deny-bcast disable
opmode staticWep
wepkey1 1434b98d6ca5c5551d735bee55af70011c91c2d45f6ed9ab
ssid "linac-a"
vlan-id 1
virtual-ap "kek-b-a" vlan-id 4 opmode staticWep deny-bcast disable wepkey1
1f16df695da915cd887ba241b93b33bd33f4d955f901736f weptxkey 1 hide-ssid
disable dtim-period 1
tx-power 4
ap-enable enable
!
!
ap location 0.0.0
phy-type enet1
mode active-standby
switchport mode access
switchport access vlan 1
switchport trunk native vlan 1
switchport trunk allowed vlan ALL
trusted disable
!
!
ap location 2.1.1
phy-type g

```

```
channel 6
!
!
wms
general poll-interval 60000
general poll-retries 2
general ap-ageout-interval 30
general sta-ageout-interval 30
general ap-inactivity-timeout 5
general sta-inactivity-timeout 60
general grace-time 2000
general laser-beam enable
general laser-beam-debug disable
general wired-laser-beam disable
general stat-update enable
general am-stats-update-interval 0
ap-policy learn-ap disable
ap-policy classification enable
ap-policy overlay-classification disable
ap-policy protect-unsecure-ap disable
ap-policy detect-misconfigured-ap disable
ap-policy protect-misconfigured-ap disable
ap-policy protect-mt-channel-split disable
ap-policy protect-mt-ssid disable
ap-policy detect-ap-impersonation disable
ap-policy protect-ap-impersonation disable
ap-policy beacon-diff-threshold 50
ap-policy beacon-inc-wait-time 3
ap-policy min-pot-ap-beacon-rate 25
ap-policy min-pot-ap-monitor-time 2
ap-policy protect-ibss disable
ap-policy ap-load-balancing disable
ap-policy ap-lb-max-retries 8
ap-policy ap-lb-util-high-wm 90
ap-policy ap-lb-util-low-wm 80
ap-policy ap-lb-util-wait-time 30
ap-policy ap-lb-user-high-wm 255
ap-policy ap-lb-user-low-wm 230
ap-policy persistent-known-interfering disable
ap-config short-preamble disable
ap-config privacy disable
ap-config wpa disable
station-policy protect-valid-sta disable
station-policy handoff-assist disable
station-policy rssi-falloff-wait-time 4
station-policy low-rssi-threshold 20
station-policy rssi-check-frequency 3
station-policy detect-association-failure disable
global-policy detect-bad-wep disable
global-policy detect-interference disable
global-policy interference-inc-threshold 100
global-policy interference-inc-timeout 30
global-policy interference-wait-time 30
event-threshold fer-high-wm 0
event-threshold fer-low-wm 0
event-threshold frr-high-wm 16
event-threshold frr-low-wm 8
event-threshold flsr-high-wm 16
event-threshold flsr-low-wm 8
event-threshold fnur-high-wm 0
event-threshold fnur-low-wm 0
event-threshold frer-high-wm 16
event-threshold frer-low-wm 8
event-threshold ffr-high-wm 16
event-threshold ffr-low-wm 8
event-threshold bwr-high-wm 0
event-threshold bwr-low-wm 0
valid-11b-channel 1 mode enable
valid-11b-channel 6 mode enable
valid-11b-channel 11 mode enable
valid-11a-channel 34 mode enable
valid-11a-channel 38 mode enable
valid-11a-channel 42 mode enable
valid-11a-channel 46 mode enable
ids-policy signature-check disable
ids-policy rate-check disable
ids-policy dsta-check disable
ids-policy sequence-check disable
ids-policy mac-oui-check disable
ids-policy eap-check disable
ids-policy ap-flood-check disable
ids-policy adhoc-check disable
ids-policy wbridge-check disable
ids-policy sequence-diff 300
```

```
ids-policy sequence-time-tolerance 300
ids-policy sequence-quiet-time 900
ids-policy eap-rate-threshold 10
ids-policy eap-rate-time-interval 60
ids-policy eap-rate-quiet-time 900
ids-policy ap-flood-threshold 50
ids-policy ap-flood-inc-time 3
ids-policy ap-flood-quiet-time 900
ids-policy signature-quiet-time 900
ids-policy dsta-quiet-time 900
ids-policy adhoc-quiet-time 900
ids-policy wbridge-quiet-time 900
ids-policy mac-oui-quiet-time 900
ids-policy rate-frame-type-param assoc channel-threshold 30
ids-policy rate-frame-type-param assoc channel-inc-time 3
ids-policy rate-frame-type-param assoc channel-quiet-time 900
ids-policy rate-frame-type-param assoc node-threshold 30
ids-policy rate-frame-type-param assoc node-time-interval 60
ids-policy rate-frame-type-param assoc node-quiet-time 900
ids-policy rate-frame-type-param disassoc channel-threshold 30
ids-policy rate-frame-type-param disassoc channel-inc-time 3
ids-policy rate-frame-type-param disassoc channel-quiet-time 900
ids-policy rate-frame-type-param disassoc node-threshold 30
ids-policy rate-frame-type-param disassoc node-time-interval 60
ids-policy rate-frame-type-param disassoc node-quiet-time 900
ids-policy rate-frame-type-param deauth channel-threshold 30
ids-policy rate-frame-type-param deauth channel-inc-time 3
ids-policy rate-frame-type-param deauth channel-quiet-time 900
ids-policy rate-frame-type-param deauth node-threshold 20
ids-policy rate-frame-type-param deauth node-time-interval 60
ids-policy rate-frame-type-param deauth node-quiet-time 900
ids-policy rate-frame-type-param probe-request channel-threshold 200
ids-policy rate-frame-type-param probe-request channel-inc-time 3
ids-policy rate-frame-type-param probe-request channel-quiet-time 900
ids-policy rate-frame-type-param probe-request node-threshold 200
ids-policy rate-frame-type-param probe-request node-time-interval 15
ids-policy rate-frame-type-param probe-request node-quiet-time 900
ids-policy rate-frame-type-param probe-response channel-threshold 200
ids-policy rate-frame-type-param probe-response channel-inc-time 3
ids-policy rate-frame-type-param probe-response channel-quiet-time 900
ids-policy rate-frame-type-param probe-response node-threshold 150
ids-policy rate-frame-type-param probe-response node-time-interval 15
ids-policy rate-frame-type-param probe-response node-quiet-time 900
ids-policy rate-frame-type-param auth channel-threshold 30
ids-policy rate-frame-type-param auth channel-inc-time 3
ids-policy rate-frame-type-param auth channel-quiet-time 900
ids-policy rate-frame-type-param auth node-threshold 30
ids-policy rate-frame-type-param auth node-time-interval 60
ids-policy rate-frame-type-param auth node-quiet-time 900
ids-signature "ASLEAP"
mode enable
frame-type beacon ssid asleap
!
ids-signature "Null-Probe-Response"
mode enable
frame-type probe-response ssid-length 0
!
ids-signature "AirJack"
mode enable
frame-type beacon ssid AirJack
!
ids-signature "NetStumbler Generic"
mode enable
payload 0x00601d 3
payload 0x0001 6
!
ids-signature "NetStumbler Version 3.3.0x"
mode enable
payload 0x00601d 3
payload 0x000102 12
!
ids-signature "Deauth-Broadcast"
mode enable
frame-type deauth
dst-mac ff:ff:ff:ff:ff:ff
!
!
site-survey calibration-max-packets 256
site-survey calibration-transmit-rate 500
site-survey rra-max-compute-time 600000
site-survey max-ha-neighbors 3
site-survey neighbor-tx-power-bump 2
site-survey ha-compute-time 0
```

```

arm min-scan-time 8
arm ideal-coverage-index 5
arm acceptable-coverage-index 2
arm wait-time 15
arm free-channel-index 25
arm backoff-time 240
arm error-rate-threshold 0
arm error-rate-wait-time 30
arm noise-threshold 0
arm noise-wait-time 120

ems server-ip 0.0.0.0

crypto isakmp groupname changeme

vpdn group l2tp
  ppp authentication PAP
!

masterip 127.0.0.1
location "Building1.floor1"
mobility
  parameters 60 buffer 32
  manager disable
  proxy-dhcp enable
  station-masquerade enable
  on-association disable
  trusted-roam disable
  ignore-l2-broadcast disable
  block-dhcp-release disable
  no new-user-roaming
  max-dhcp-requests 4
  secure 1000 shared-secret 6103aace569734c33b59f8e159601e46
!
mobility-local
  local-ha disable
!
mobagent
  home-agent parameters 1000 bindings 300
  secure-mobile spi 1000 a36dc45c6e0951a3f22e4a5bb36d577f
  foreign-agent parameters 1100 bindings 300 pending 0 pending-time 300
!

syslocation "KEK-Linac"
syscontact "SEM"
no snmp-server enable trap
vpdn group pptp
  ppp authentication MSCHAPv2
!

stm dos-prevention disable
stm vlan-mobility disable
stm strict-compliance enable
stm fast-roaming disable
stm sta-dos-prevention disable
stm sta-dos-block-time 3600
stm auth-failure-block-time 0
stm coverage-hole-detection disable
stm good-rssi-threshold 20
stm poor-rssi-threshold 10
stm hole-detection-interval 180
stm good-sta-ageout 30
stm idle-sta-ageout 90
stm ap-inactivity-timeout 15

mux-address 0.0.0.0

adp discovery enable
adp igmp-join enable
adp igmp-vlan 0

voip prioritization enable

mgmt-role guest-provisioning
  description "This is a Guest Provisioning Role."
  permit local-userdb-guest read write
!
mgmt-role root
  description "This is Default Super User Role"
  permit super-user
!

```

```
mgmt-user admin root 221e357cb01783e7d1c0029ed54d3a942edb89322dcef4e4
```

```
no database synchronize
database synchronize rf-plan-data
```

```
ip igmp
!
```

```
packet-capture-defaults tcp disable udp disable sysmsg disable other disable
end
```