

目次

	頁
1. 緒言	
1.1. 作業概要	2
1.2. 作業日時	2
1.3. 設置先顧客名	2
1.4. 設置場所	2
1.5. 弊社担当	2
1.6. 作業内容	2
1.7. 設置機器シリアル番号	2
2. ネットワーク構成	3
3. 設定情報	
3.1. SSR2000a(192.168.240.1/24)設定情報	4
3.2. SSR2000b(192.168.240.824)設定情報	13
Appendix	
A. SSR2000a(192.168.240.1/24)ポート接続表	
B. SSR2000b(192.168.240.824)ポート接続表	

1. 緒言

1.1. 作業概要

高エネルギー加速器研究機構 入射器コントロール棟の新規ネットワーク機器
設置作業

1.2. 作業日時

平成 14 年 3 月 5 日 (火) 機器設置及び設定作業
平成 14 年 8 月 6 日 (火) VLAN 追加及びアドレス変更作業

1.3. 設置先顧客名

高エネルギー加速器研究機構

1.4. 設置場所

高エネルギー加速器研究機構 入射器コントロール棟 入射器コントロール室

1.5. 弊社担当

営業：佐藤 力
技術：泉 貴司
近藤 弘和

1.6. 作業内容：

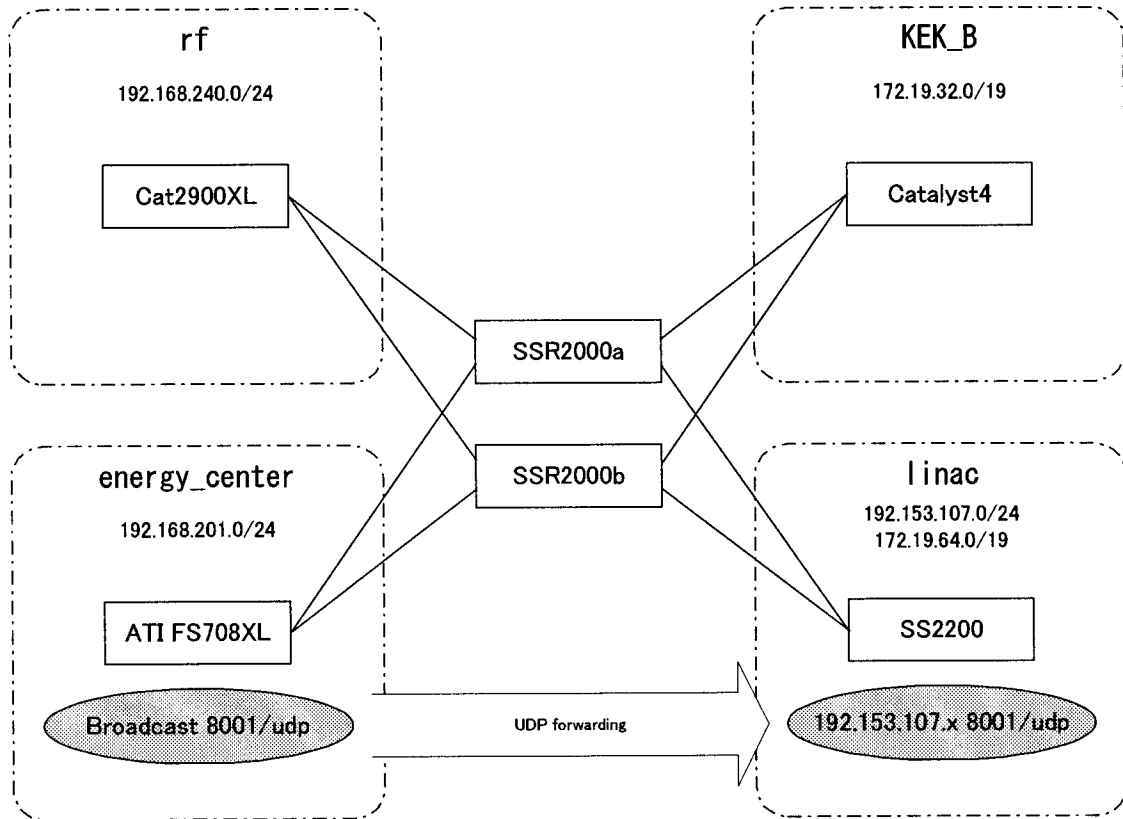
- (1) SSR (SmartSwitchRouter)2000 の設置及び設定作業
- (2) SSR2000 を既存ネットワークへ接続
- (3) 通信確認

1.7. 設置機器シリアル番号

品名	製品番号	数量	シリアル番号
SmartSwitchRouter2000	SSR2000-2-B-128	2	325401170243050B
			325401170248050B

2. ネットワーク構成

2.1. ネットワーク構成図



3. 設定情報

3.1. SSR2000a(192.168.240.1/24)設定情報

3.1.1. バージョン情報

Software Information

Software Version : E8.2.0.0
 Copyright : Copyright (c) 2001 Enterasys Networks
 Image Information : Version E8.2.0.0, built on Thu Jun 28 04:51:45 2001
 Image Boot Location: slot0:boot/ssre8200/
 Boot Prom Version : prom-E3.1.0.0

3.1.2. ハードウェア情報

Hardware Information

System type : SSR 2000, Rev. 0
 CPU Module type : CPU-SSR2, Rev. 0
 Processor : R5000, Rev 2.1, 160 MHz
 Icache size : 32 Kbytes, 32 bytes/line
 Dcache size : 32 Kbytes, 32 bytes/line
 CPU Board Frequency: 80.00 MHz
 Backplane frequency: 58.0 MHz
 Flash Memory : 8MB
 System Memory size : 128 MBytes
 Network Memory size: 8 MBytes
 MAC Addresses
 System : 0001f4:09317b
 10Base-T CPU Port: 0001f4:09317c
 Internal Use : 0001f4:09317d -> 0001f4:0931ba
 CPU Mode : Active

Power Supply Information

PS1: present
 PS2: present

Slot Information

Slot CM, Module: Control Module Rev. 0
 Service String: 247_NO.0_8_R2.1_128

Slot CM/1, Module: 10/100-TX Rev. 1.0
 Service String: 2_D1.3_0.512_I3.0_2_02.1_0.512

IPP Information:

Memory : 2 Banks @ 1048576 bytes each (Total 2097152)

OPP Information:

Memory : 2097152 bytes

Port: et.1.1, Media Type: 10/100-Mbit Ethernet, Physical Port: 17

DMAC Information:

Table Memory: 524288 bytes

Packet Memory: 524288 bytes

Port: et.1.2, Media Type: 10/100-Mbit Ethernet, Physical Port: 18

DMAC Information:

Table Memory: 524288 bytes

```

    Packet Memory: 524288 bytes
Port:  et.1.3, Media Type: 10/100-Mbit Ethernet, Physical Port: 19
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.4, Media Type: 10/100-Mbit Ethernet, Physical Port: 20
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.5, Media Type: 10/100-Mbit Ethernet, Physical Port: 21
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.6, Media Type: 10/100-Mbit Ethernet, Physical Port: 22
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.7, Media Type: 10/100-Mbit Ethernet, Physical Port: 23
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.8, Media Type: 10/100-Mbit Ethernet, Physical Port: 24
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes

Slot 2, Module: 10/100-TX Rev. 1.0
Service String: 2_D1.3_0.512_I3.0_2_02.1_0.512
IPP Information:
    Memory : 2 Banks @ 1048576 bytes each (Total 2097152)
OPP Information:
    Memory : 2097152 bytes
Port:  et.2.1, Media Type: 10/100-Mbit Ethernet, Physical Port: 33
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.2, Media Type: 10/100-Mbit Ethernet, Physical Port: 34
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.3, Media Type: 10/100-Mbit Ethernet, Physical Port: 35
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.4, Media Type: 10/100-Mbit Ethernet, Physical Port: 36
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.5, Media Type: 10/100-Mbit Ethernet, Physical Port: 37
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.6, Media Type: 10/100-Mbit Ethernet, Physical Port: 38
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes

```

Port: et.2.7, Media Type: 10/100-Mbit Ethernet, Physical Port: 39

DMAC Information:

Table Memory: 524288 bytes

Packet Memory: 524288 bytes

Port: et.2.8, Media Type: 10/100-Mbit Ethernet, Physical Port: 40

DMAC Information:

Table Memory: 524288 bytes

Packet Memory: 524288 bytes

3.1.3. コンフィグレーション情報

```

!
! Startup configuration for the next system reboot
!
! Last modified from Console on 2002-08-13 14:48:16
!
version 8.2
vlan create linac ip id 100
vlan create rf ip id 200
vlan create energy_center ip id 300
vlan create KEK_B ip id 400
vlan add port et.1.1 to linac
vlan add port et.1.2 to linac
vlan add port et.1.3 to linac
vlan add port et.1.4 to linac
vlan add port et.1.5 to rf
vlan add port et.1.6 to rf
vlan add port et.1.7 to rf
vlan add port et.1.8 to rf
vlan add port et.2.1 to energy_center
vlan add port et.2.2 to energy_center
vlan add port et.2.3 to energy_center
vlan add port et.2.4 to energy_center
vlan add port et.2.5 to KEK_B
vlan add port et.2.6 to KEK_B
vlan add port et.2.7 to KEK_B
vlan add port et.2.8 to KEK_B
interface create ip linac address-netmask 192.153.107.1/24 vlan linac
interface create ip rf address-netmask 192.168.240.1/24 vlan rf
interface create ip energy_center address-netmask 192.168.201.46/24 vlan energy_center
interface create ip KEK_B address-netmask 172.19.57.100/19 vlan KEK_B
interface add ip linac address-netmask 172.19.64.1/19
ip helper-address interface energy_center 192.153.107.2 8001
ip helper-address interface energy_center 192.153.107.3 8001
ip helper-address interface energy_center 192.153.107.16 8001
system set name ssr2000a
system set timezone uct+9
ntp set server 192.153.107.16
ip-redundancy create vrrp 10 interface linac
ip-redundancy create vrrp 40 interface linac
ip-redundancy create vrrp 20 interface rf
ip-redundancy create vrrp 30 interface energy_center
ip-redundancy create vrrp 50 interface KEK_B
ip-redundancy associate vrrp 10 interface linac address 192.153.107.1/24
ip-redundancy associate vrrp 20 interface rf address 192.168.240.1/24
ip-redundancy associate vrrp 30 interface energy_center address 192.168.201.46/24
ip-redundancy associate vrrp 50 interface KEK_B address 172.19.57.100/19
ip-redundancy associate vrrp 40 interface linac address 172.19.64.1/19
ip-redundancy start vrrp 10 interface linac
ip-redundancy start vrrp 20 interface rf
ip-redundancy start vrrp 30 interface energy_center
ip-redundancy start vrrp 50 interface KEK_B
ip-redundancy start vrrp 40 interface linac
system set hashed-password login zEtBVo 5dbac76733115842147906123fff8961
system set hashed-password enable zEtBVo 5dbac76733115842147906123fff8961
snmp set community public privilege read

```

3.1.4. ポートステータス情報

Flags: M - Mirroring enabled B - MLP Bundle S - SmartTRUNK port P - Configured as 802.1p

Port	Port Type	Duplex	Speed	Negotiation	IFG Value	Link State	Admin State	Flags
et. 1.1	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.2	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.3	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.4	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 1.5	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.6	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.7	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.8	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.1	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.2	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.3	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.4	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.5	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.6	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.7	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.8	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	

3.1.5. ポート VLAN 情報

Port	Type	IP	IPX	Bridging	ATALK	DEC	SNA	IPv6
et. 1.1	access	linac						
et. 1.2	access	linac						
et. 1.3	access	linac						
et. 1.4	access	linac						
et. 1.5	access	rf						
et. 1.6	access	rf						
et. 1.7	access	rf						
et. 1.8	access	rf						
et. 2.1	access	energy_ce						
et. 2.2	access	energy_ce						
et. 2.3	access	energy_ce						
et. 2.4	access	energy_ce						
et. 2.5	access	KEK_B						
et. 2.6	access	KEK_B						
et. 2.7	access	KEK_B						
et. 2.8	access	KEK_B						

3.1.6. VLAN 情報

VID	VLAN Name	Used for	Ports
1	DEFAULT	IP, IPX, ATALK, DEC, SNA, IPv6, L2	
100	linac	IP	et. 1. (1-4)
200	rf	IP	et. 1. (5-8)
300	energy_center	IP	et. 2. (1-4)
400	KEK_B	IP	et. 2. (5-8)

3.1.7. IP インタフェース情報

Interface lo0:

```

Admin State:      up
Operational State: up
Capabilities:     <LOOPBACK,MULTICAST>
Configuration:
  MTU:             1968
  MAC Encapsulation: Unknown
  MAC Address:     None/Unknown
  IP Address:      127.0.0.1/8
  
```

Interface linac:

```

Admin State:      up
Operational State: up
Capabilities:     <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:           linac
  Ports:          et.1.(1-4)
  MTU:            1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:    00:01:F4:09:31:7B
  IP Address:     192.153.107.1/24 (broadcast: 192.153.107.255)
  IP Address:     172.19.64.1/19 (broadcast: 172.19.95.255)
  
```

Interface rf:

```

Admin State:      up
Operational State: up
Capabilities:     <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:           rf
  Ports:          et.1.(5-8)
  MTU:            1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:    00:01:F4:09:31:7B
  IP Address:     192.168.240.1/24 (broadcast: 192.168.240.255)
  
```

Interface energy_center:

```

Admin State:      up
Operational State: up
Capabilities:     <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:           energy_center
  Ports:          et.2.(1-4)
  MTU:            1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:    00:01:F4:09:31:7B
  IP Address:     192.168.201.46/24 (broadcast: 192.168.201.255)
  
```

Interface KEK_B:

```

Admin State:      up
Operational State: up
Capabilities:     <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:           KEK_B
  Ports:          et.2.(5-8)
  MTU:            1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:    00:01:F4:09:31:7B
  IP Address:     172.19.57.100/19 (broadcast: 172.19.63.255)
  
```

3.1.8. VRRP 情報

VRRP Virtual Router 10 - Interface linac

Uptime 6 days, 20 hours, 37 minutes, 27 seconds.
 State Master
 Priority 255 (default value)
 Virtual MAC address 00005E:00010A
 Advertise Interval 1 sec(s) (default value)
 Preempt Mode enabled (default value)
 Authentication None (default value)
 Primary Address 192.153.107.1
 Associated Addresses 192.153.107.1

Stats:

Number of transitions to master state	1
VRRP advertisements rcvd	0
VRRP packets sent with 0 priority	0
VRRP packets rcvd with 0 priority	0
VRRP packets rcvd with IP-address list mismatch	0
VRRP packets rcvd with auth-type mismatch	0
VRRP packets rcvd with checksum error	0
VRRP packets rcvd with invalid version	0
VRRP packets rcvd with invalid VR-Id	0
VRRP packets rcvd with invalid adv-interval	0
VRRP packets rcvd with invalid TTL	0
VRRP packets rcvd with invalid 'type' field	0
VRRP packets rcvd with invalid auth-type	0
VRRP packets rcvd with invalid auth-key	0

VRRP Virtual Router 40 - Interface linac

Uptime 0 days, 0 hours, 37 minutes, 31 seconds.
 State Master
 Priority 255 (default value)
 Virtual MAC address 00005E:000128
 Advertise Interval 1 sec(s) (default value)
 Preempt Mode enabled (default value)
 Authentication None (default value)
 Primary Address 192.153.107.1
 Associated Addresses 172.19.64.1

Stats:

Number of transitions to master state	1
VRRP advertisements rcvd	0
VRRP packets sent with 0 priority	0
VRRP packets rcvd with 0 priority	0
VRRP packets rcvd with IP-address list mismatch	0
VRRP packets rcvd with auth-type mismatch	0
VRRP packets rcvd with checksum error	0
VRRP packets rcvd with invalid version	0
VRRP packets rcvd with invalid VR-Id	0
VRRP packets rcvd with invalid adv-interval	0
VRRP packets rcvd with invalid TTL	0
VRRP packets rcvd with invalid 'type' field	0

```
VRRP packets rcvd with invalid auth-type      0
VRRP packets rcvd with invalid auth-key       0
```

VRRP Virtual Router 20 - Interface rf

```
Uptime          6 days, 20 hours, 37 minutes, 30 seconds.
State           Master
Priority        255 (default value)
Virtual MAC address 00005E:000114
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.168.240.1
Associated Addresses 192.168.240.1
```

Stats:

```
Number of transitions to master state      1
VRRP advertisements rcvd                  0
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority          0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch  0
VRRP packets rcvd with checksum error      0
VRRP packets rcvd with invalid version     0
VRRP packets rcvd with invalid VR-Id      0
VRRP packets rcvd with invalid adv-interval 0
VRRP packets rcvd with invalid TTL        0
VRRP packets rcvd with invalid 'type' field 0
VRRP packets rcvd with invalid auth-type   0
VRRP packets rcvd with invalid auth-key    0
```

VRRP Virtual Router 30 - Interface energy_center

```
Uptime          6 days, 20 hours, 37 minutes, 32 seconds.
State           Master
Priority        255 (default value)
Virtual MAC address 00005E:00011E
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.168.201.46
Associated Addresses 192.168.201.46
```

Stats:

```
Number of transitions to master state      1
VRRP advertisements rcvd                  0
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority          0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch  0
VRRP packets rcvd with checksum error      0
VRRP packets rcvd with invalid version     0
```

```

VRRP packets rcvd with invalid VR-Id          0
VRRP packets rcvd with invalid adv-interval   0
VRRP packets rcvd with invalid TTL           0
VRRP packets rcvd with invalid 'type' field   0
VRRP packets rcvd with invalid auth-type      0
VRRP packets rcvd with invalid auth-key       0

```

VRRP Virtual Router 50 - Interface KEK_B

```

Uptime                6 days, 20 hours, 37 minutes, 31 seconds.
State                  Master
Priority                255 (default value)
Virtual MAC address    00005E:000132
Advertise Interval     1 sec(s) (default value)
Preempt Mode           enabled (default value)
Authentication         None (default value)
Primary Address        172.19.57.100
Associated Addresses   172.19.57.100

```

Stats:

```

Number of transitions to master state          1
VRRP advertisements rcvd                      0
VRRP packets sent with 0 priority              0
VRRP packets rcvd with 0 priority              0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch     0
VRRP packets rcvd with checksum error         0
VRRP packets rcvd with invalid version        0
VRRP packets rcvd with invalid VR-Id          0
VRRP packets rcvd with invalid adv-interval   0
VRRP packets rcvd with invalid TTL           0
VRRP packets rcvd with invalid 'type' field   0
VRRP packets rcvd with invalid auth-type      0
VRRP packets rcvd with invalid auth-key       0

```

3.2. SSR2000b(192.168.240.8/24)設定情報

3.2.1. バージョン情報

Software Information

Software Version : E8.2.0.0
 Copyright : Copyright (c) 2001 Enterasys Networks
 Image Information : Version E8.2.0.0, built on Thu Jun 28 04:51:45 2001
 Image Boot Location: slot0:boot/ssre8200/
 Boot Prom Version : prom-E3.1.0.0

3.2.2. ハードウェア情報

Hardware Information

System type : SSR 2000, Rev. 0
 CPU Module type : CPU-SSR2, Rev. 0
 Processor : R5000, Rev 2.1, 160 MHz
 Icache size : 32 Kbytes, 32 bytes/line
 Dcache size : 32 Kbytes, 32 bytes/line
 CPU Board Frequency: 80.00 MHz
 Backplane frequency: 58.0 MHz
 Flash Memory : 8MB
 System Memory size : 128 MBytes
 Network Memory size: 8 MBytes
 MAC Addresses
 System : 0001f4:0a51fb
 10Base-T CPU Port: 0001f4:0a51fc
 Internal Use : 0001f4:0a51fd -> 0001f4:0a523a
 CPU Mode : Active

Power Supply Information

PS1: present
 PS2: present

Slot Information

Slot CM, Module: Control Module Rev. 0
 Service String: 247_N0.0_8_R2.1_128

Slot CM/1, Module: 10/100-TX Rev. 1.0
 Service String: 2_D1.3_0.512_I3.0_2_02.1_0.512

IPP Information:

Memory : 2 Banks @ 1048576 bytes each (Total 2097152)

OPP Information:

Memory : 2097152 bytes

Port: et.1.1, Media Type: 10/100-Mbit Ethernet, Physical Port: 17

DMAC Information:

Table Memory: 524288 bytes

Packet Memory: 524288 bytes

Port: et.1.2, Media Type: 10/100-Mbit Ethernet, Physical Port: 18

DMAC Information:

Table Memory: 524288 bytes

Packet Memory: 524288 bytes

Port: et.1.3, Media Type: 10/100-Mbit Ethernet, Physical Port: 19

DMAC Information:

```

    Table Memory: 524288 bytes
    Packet Memory: 524288 bytes
Port:  et.1.4, Media Type: 10/100-Mbit Ethernet, Physical Port: 20
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.5, Media Type: 10/100-Mbit Ethernet, Physical Port: 21
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.6, Media Type: 10/100-Mbit Ethernet, Physical Port: 22
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.7, Media Type: 10/100-Mbit Ethernet, Physical Port: 23
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.1.8, Media Type: 10/100-Mbit Ethernet, Physical Port: 24
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes

Slot 2, Module: 10/100-TX Rev. 1.0
    Service String: 2_D1.3_0.512_I3.0_2_02.1_0.512
    IPP Information:
        Memory : 2 Banks @ 1048576 bytes each (Total 2097152)
    OPP Information:
        Memory : 2097152 bytes
Port:  et.2.1, Media Type: 10/100-Mbit Ethernet, Physical Port: 33
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.2, Media Type: 10/100-Mbit Ethernet, Physical Port: 34
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.3, Media Type: 10/100-Mbit Ethernet, Physical Port: 35
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.4, Media Type: 10/100-Mbit Ethernet, Physical Port: 36
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.5, Media Type: 10/100-Mbit Ethernet, Physical Port: 37
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.6, Media Type: 10/100-Mbit Ethernet, Physical Port: 38
    DMAC Information:
        Table Memory: 524288 bytes
        Packet Memory: 524288 bytes
Port:  et.2.7, Media Type: 10/100-Mbit Ethernet, Physical Port: 39
    DMAC Information:
        Table Memory: 524288 bytes

```

Packet Memory: 524288 bytes
Port: et.2.8, Media Type: 10/100-Mbit Ethernet, Physical Port: 40
DMAC Information:
Table Memory: 524288 bytes
Packet Memory: 524288 bytes

3.2.3. コンフィグレーション情報

```

!
! Startup configuration for the next system reboot
!
! Last modified from Console on 2002-08-13 06:55:52
!
version 8.2
vlan create linac ip id 100
vlan create rf ip id 200
vlan create energy_center ip id 300
vlan create KEK_B ip id 400
vlan add port et.1.1 to linac
vlan add port et.1.2 to linac
vlan add port et.1.3 to linac
vlan add port et.1.4 to linac
vlan add port et.1.5 to rf
vlan add port et.1.6 to rf
vlan add port et.1.7 to rf
vlan add port et.1.8 to rf
vlan add port et.2.1 to energy_center
vlan add port et.2.2 to energy_center
vlan add port et.2.3 to energy_center
vlan add port et.2.4 to energy_center
vlan add port et.2.5 to KEK_B
vlan add port et.2.6 to KEK_B
vlan add port et.2.7 to KEK_B
vlan add port et.2.8 to KEK_B
interface create ip linac address-netmask 192.153.107.8/24 vlan linac
interface create ip rf address-netmask 192.168.240.8/24 vlan rf
interface create ip energy_center address-netmask 192.168.201.48/24 vlan energy_center
interface create ip KEK_B address-netmask 172.19.57.101/19 vlan KEK_B
interface add ip linac address-netmask 172.19.64.8/19
system set name ssr2000b
system set hashed-password login yzzeTb de8f7bc6bf012da1198a85f0de5dec72
system set hashed-password enable yzzeTb de8f7bc6bf012da1198a85f0de5dec72
system set timezone uct+9
ntp set server 192.153.107.16
ip-redundancy create vrrp 10 interface linac
ip-redundancy create vrrp 40 interface linac
ip-redundancy create vrrp 20 interface rf
ip-redundancy create vrrp 30 interface energy_center
ip-redundancy create vrrp 50 interface KEK_B
ip-redundancy associate vrrp 10 interface linac address 192.153.107.1/24
ip-redundancy associate vrrp 20 interface rf address 192.168.240.1/24
ip-redundancy associate vrrp 30 interface energy_center address 192.168.201.46/24
ip-redundancy associate vrrp 50 interface KEK_B address 172.19.57.100/19
ip-redundancy associate vrrp 40 interface linac address 172.19.64.1/19
ip-redundancy start vrrp 10 interface linac
ip-redundancy start vrrp 20 interface rf
ip-redundancy start vrrp 30 interface energy_center
ip-redundancy start vrrp 50 interface KEK_B
ip-redundancy start vrrp 40 interface linac
snmp set community public privilege read

```


3.2.4. ポートステータス情報

Flags: M - Mirroring enabled B - MLP Bundle S - SmartTRUNK port P - Configured as 802.1p

Port	Port Type	Duplex	Speed	Negotiation	IFG Value	Link State	Admin State	Flags
et. 1.1	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.2	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.3	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.4	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 1.5	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.6	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.7	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 1.8	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.1	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.2	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.3	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.4	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.5	10/100-Mbit Ethernet	Full	100 Mbits	Auto	0	Up	Up	
et. 2.6	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.7	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	
et. 2.8	10/100-Mbit Ethernet	n/a	n/a	Auto	0	Down	Up	

3.2.5. ポート VLAN 情報

Port	Type	IP	IPX	Bridging	ATALK	DEC	SNA	IPv6
et. 1.1	access	linac						
et. 1.2	access	linac						
et. 1.3	access	linac						
et. 1.4	access	linac						
et. 1.5	access	rf						
et. 1.6	access	rf						
et. 1.7	access	rf						
et. 1.8	access	rf						
et. 2.1	access	energy_ce						
et. 2.2	access	energy_ce						
et. 2.3	access	energy_ce						
et. 2.4	access	energy_ce						
et. 2.5	access	KEK_B						
et. 2.6	access	KEK_B						
et. 2.7	access	KEK_B						
et. 2.8	access	KEK_B						

3.2.6. VLAN 情報

VID	VLAN Name	Used for	Ports
1	DEFAULT	IP, IPX, ATALK, DEC, SNA, IPv6, L2	
100	linac	IP	et. 1. (1-4)
200	rf	IP	et. 1. (5-8)
300	energy_center	IP	et. 2. (1-4)
400	KEK_B	IP	et. 2. (5-8)

3.2.7. IP インタフェース情報

Interface lo0:

```

Admin State:          up
Operational State:   up
Capabilities:        <LOOPBACK,MULTICAST>
Configuration:
  MTU:                1968
  MAC Encapsulation: Unknown
  MAC Address:        None/Unknown
  IP Address:         127.0.0.1/8
  
```

Interface linac:

```

Admin State:          up
Operational State:   up
Capabilities:        <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:               linac
  Ports:              et.1.(1-4)
  MTU:                1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:        00:01:F4:0A:51:FB
  IP Address:         192.153.107.8/24 (broadcast: 192.153.107.255)
  IP Address:         172.19.64.8/19 (broadcast: 172.19.95.255)
  
```

Interface rf:

```

Admin State:          up
Operational State:   up
Capabilities:        <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:               rf
  Ports:              et.1.(5-8)
  MTU:                1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:        00:01:F4:0A:51:FB
  IP Address:         192.168.240.8/24 (broadcast: 192.168.240.255)
  
```

Interface energy_center:

```

Admin State:          up
Operational State:   up
Capabilities:        <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:               energy_center
  Ports:              et.2.(1-4)
  MTU:                1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:        00:01:F4:0A:51:FB
  IP Address:         192.168.201.48/24 (broadcast: 192.168.201.255)
  
```

Interface KEK_B:

```

Admin State:          up
Operational State:   up
Capabilities:        <BROADCAST,SIMPLEX,MULTICAST>
Configuration:
  VLAN:               KEK_B
  Ports:              et.2.(5-8)
  MTU:                1500
  MAC Encapsulation: ETHERNET_II
  MAC Address:        00:01:F4:0A:51:FB
  IP Address:         172.19.57.101/19 (broadcast: 172.19.63.255)
  
```

3.2.8. VRRP 情報

VRRP Virtual Router 10 - Interface linac

```

Uptime          6 days, 20 hours, 45 minutes, 32 seconds.
State           Backup
Priority        100 (default value)
Virtual MAC address 00005E:00010A
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.153.107.8
Associated Addresses 192.153.107.1
    
```

Stats:

```

Number of transitions to master state      1
VRRP advertisements rcvd                  581363
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority          0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch  0
VRRP packets rcvd with checksum error      0
VRRP packets rcvd with invalid version     0
VRRP packets rcvd with invalid VR-Id      0
VRRP packets rcvd with invalid adv-interval 0
VRRP packets rcvd with invalid TTL        0
VRRP packets rcvd with invalid 'type' field 0
VRRP packets rcvd with invalid auth-type  0
VRRP packets rcvd with invalid auth-key   0
    
```

VRRP Virtual Router 40 - Interface linac

```

Uptime          0 days, 0 hours, 30 minutes, 31 seconds.
State           Backup
Priority        100 (default value)
Virtual MAC address 00005E:000128
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.153.107.8
Associated Addresses 172.19.64.1
    
```

Stats:

```

Number of transitions to master state      1
VRRP advertisements rcvd                  2579
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority          0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch  0
VRRP packets rcvd with checksum error      0
VRRP packets rcvd with invalid version     0
VRRP packets rcvd with invalid VR-Id      0
VRRP packets rcvd with invalid adv-interval 0
VRRP packets rcvd with invalid TTL        0
VRRP packets rcvd with invalid 'type' field 0
    
```

```
VRRP packets rcvd with invalid auth-type      0
VRRP packets rcvd with invalid auth-key       0
```

VRRP Virtual Router 20 - Interface rf

```
Uptime          6 days, 20 hours, 45 minutes, 34 seconds.
State           Backup
Priority        100 (default value)
Virtual MAC address 00005E:000114
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.168.240.8
Associated Addresses 192.168.240.1
```

Stats:

```
Number of transitions to master state      2
VRRP advertisements rcvd                  581315
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority         0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch 0
VRRP packets rcvd with checksum error     0
VRRP packets rcvd with invalid version    0
VRRP packets rcvd with invalid VR-Id     0
VRRP packets rcvd with invalid adv-interval 0
VRRP packets rcvd with invalid TTL       0
VRRP packets rcvd with invalid 'type' field 0
VRRP packets rcvd with invalid auth-type  0
VRRP packets rcvd with invalid auth-key   0
```

VRRP Virtual Router 30 - Interface energy_center

```
Uptime          6 days, 20 hours, 45 minutes, 37 seconds.
State           Backup
Priority        100 (default value)
Virtual MAC address 00005E:00011E
Advertise Interval 1 sec(s) (default value)
Preempt Mode    enabled (default value)
Authentication  None (default value)
Primary Address 192.168.201.48
Associated Addresses 192.168.201.46
```

Stats:

```
Number of transitions to master state      1
VRRP advertisements rcvd                  581368
VRRP packets sent with 0 priority          0
VRRP packets rcvd with 0 priority         0
VRRP packets rcvd with IP-address list mismatch 0
VRRP packets rcvd with auth-type mismatch 0
VRRP packets rcvd with checksum error     0
VRRP packets rcvd with invalid version    0
```

VRRP packets rcvd with invalid VR-Id	0
VRRP packets rcvd with invalid adv-interval	0
VRRP packets rcvd with invalid TTL	0
VRRP packets rcvd with invalid 'type' field	0
VRRP packets rcvd with invalid auth-type	0
VRRP packets rcvd with invalid auth-key	0

VRRP Virtual Router 50 - Interface KEK_B

Uptime	6 days, 20 hours, 44 minutes, 42 seconds.
State	Backup
Priority	100 (default value)
Virtual MAC address	00005E:000132
Advertise Interval	1 sec(s) (default value)
Preempt Mode	enabled (default value)
Authentication	None (default value)
Primary Address	172.19.57.101
Associated Addresses	172.19.57.100

Stats:

Number of transitions to master state	1
VRRP advertisements rcvd	581338
VRRP packets sent with 0 priority	0
VRRP packets rcvd with 0 priority	0
VRRP packets rcvd with IP-address list mismatch	0
VRRP packets rcvd with auth-type mismatch	0
VRRP packets rcvd with checksum error	0
VRRP packets rcvd with invalid version	0
VRRP packets rcvd with invalid VR-Id	0
VRRP packets rcvd with invalid adv-interval	0
VRRP packets rcvd with invalid TTL	0
VRRP packets rcvd with invalid 'type' field	0
VRRP packets rcvd with invalid auth-type	0
VRRP packets rcvd with invalid auth-key	0

KEK Network device configuration

Laboratory	入射器コントロール棟
Place	入射器コントロール室
Model	SSR2000
Serial No.	325401170248050B
Hostname	ssr2000a
IP Address	192.168.240.1/24
Login Password	ssr2000a
Enable Password	ssr2000a
location	Main-network C-1

DATACRAFT Japan, Inc.
 作成 2002年 3月 5日
 修正 2002年 8月13日

Install Device						Destination device						
Port	VLAN	Description	IP address	Cable No.	Patch No.	Patch No.	Cable No.	Dest rack name	Dest device	Hostname	Port	IP Address
et.1.1	linac	予備ポート	192.153.107.1/24 172.19.64.1/19	1m クロス	-	-	1m クロス	Main-Network C-1	SS2200		1	
et.1.2		予備ポート										
et.1.3		予備ポート										
et.1.4		予備ポート										
et.1.5	rf	予備ポート	192.168.240.1/24	5m クロス	-	-	5m クロス	Main-Network C-1	Catalyst2912XL		Fa0/10	
et.1.6		予備ポート										
et.1.7		予備ポート										
et.1.8		予備ポート										
et.2.1	energy_center	予備ポート	192.168.201.46/24	5m クロス	-	-	5m クロス	Main-A-1	ATI FS708XL		5	
et.2.2		予備ポート										
et.2.3		予備ポート										
et.2.4		予備ポート										
et.2.5	KEK_B	予備ポート	172.19.57.100/19	2m クロス	-	-	2m クロス	Main-Network C-2	Catalyst2924M	Catalyst4	Fa0/18	172.19.65.14
et.2.6		予備ポート										
et.2.7		予備ポート										
et.2.8		予備ポート										

B. SSR2000b(192.168.240.824)ポート接続表

DATA CRAFT Japan, Inc.

KEK Network device configuration

Laboratory	入射器コントロール棟
Place	入射器コントロール室
Model	SSR2000
Serial No.	325401170243050B
Hostname	ssr2000b
IP Address	192.168.240.8/24
Login Password	ssr2000b
Enable Password	ssr2000b
location	Main-network C-1

DATA CRAFT Japan, Inc.
 作成 2002年 3月 5日
 修正 2002年 8月13日

Install Device						Destination device						
Port	VLAN	Description	IP address	Cable No.	Patch No.	Patch No.	Cable No.	Dest rack name	Dest device	Hostname	Port	IP Address
et. 1. 1	linac	予備ポート	192.153.107.8/24 172.19.64.8/19									
et. 1. 2		予備ポート										
et. 1. 3		予備ポート										
et. 1. 4												
				1m クロス	-	-	1m クロス	Main-Network C-1	SS2200		3	
et. 1. 5	rf	予備ポート	192.168.240.8/24									
et. 1. 6		予備ポート										
et. 1. 7		予備ポート										
et. 1. 8												
				5m クロス	-	-	5m クロス	Main-Network C-1	Catalyst2912XL		Fa0/11	
et. 2. 1	energy_center	予備ポート	192.168.201.48/24									
et. 2. 2		予備ポート										
et. 2. 3		予備ポート										
et. 2. 4		予備ポート										
				5m クロス	-	-	5m クロス	Main-A-1	ATI FS708XL		6	
et. 2. 5	KEK_B	予備ポート	172.19.57.101/19									
et. 2. 6		予備ポート										
et. 2. 7		予備ポート										
et. 2. 8		予備ポート										
				1m クロス	-	-	1m クロス	Main-Network C-2	Catalyst2924M	Catalyst4	Fa0/17	172.19.65.14