

SS100_シリアルトンネリング設定例

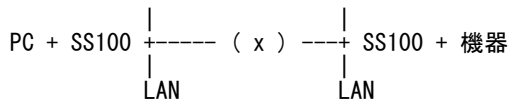
遠隔地から（インターネット経由で）機器制御を行う方法
スーパーデバイスサーバー SS100 / SS400 /SS800 を使用

■ 目次 ■

- ・ネットワーク図（例）
- ・スーパーデバイスサーバー SSの設定の環境例（SS100を例に設定）
- ・実際の設定
 1. 1 PC側に接続されるスーパーデバイスサーバー SS100 の設定
 1. 2 機器側に接続されるスーパーデバイスサーバー SS100 の設定

（シリアルトンネリングの設定をした、その設定画面を中心に説明します。）

● ネットワーク概要



（環境）

制御するシリアル：RS232, RS422, RS485
（PC + SSの間 及び SS + 機器の間）

PC：制御する機器
SS：スーパーデバイスサーバー SS100 / SS400 /SS800
機器：制御される機器
（x）：インターネット

（注意）

2台のスーパーデバイスサーバー SSが必要になります。

● スーパーデバイスサーバー SSの設定（SS100を例に設定）

- ・2台のスーパーデバイスサーバー SSが必要になります。
- ・2台それぞれを、コンソールサーバーとして、かつ、ターミナルサーバーとして設定します。
 1. 1 PC側に接続されるスーパーデバイスサーバー SS100 の設定
 1. 2 機器側に接続されるスーパーデバイスサーバー SS100 の設定

次は、IPアドレス（例）として説明します。

PC側を	SS100	IPアドレス	192.168.1.10	TCP:7001	--- (A)
機器側を	SS100	IPアドレス	192.168.1.20	TCP:7001	--- (B)

（注）

- ・画面上<ESC>の意味は、ESCキーを押してひとつ前の画面に戻すことです。
- ・シリアルプロトコロールは、2. Serial port configuration から RS232, RS422, RS485 のいずれかを選択します。（デフォルト RS232）

● 1-1. PC側のSS100を設定 --- (A)
（コンソールサーバーとして、また、ターミナルサーバーとして設定）

```
Welcome to SS-100 configuration page
Current time: 07/01/2004 00:00:48 F/W REV.: v1.3.0
Serial No.: SS100-040600047 MAC address: 00-01-95-05-19-c1
IP mode: Static IP IP address: 192.168.161.5
```

Select menu:

1. Network configuration
2. Serial port configuration
3. System administration
4. Save changes
5. Exit without saving
6. Exit and apply changes
7. Exit and reboot

<Enter> Refresh

---> 1

Network configuration

Select menu:

1. IP configuration
 2. SNMP configuration
 3. Dynamic DNS configuration
 4. SMTP configuration
 5. IP filtering configuration
 6. SYSLOG configuration
 7. NFS configuration
 8. Web server configuration
 9. Ethernet configuration
 10. TCP service configuration
- <ESC> Back, <Enter> Refresh

--> 1
-----Network configuration --> IP configuration

Select menu:

1. IP mode: Static IP
 2. IP address: 192.168.161.5
 3. Subnet mask: 255.255.0.0
 4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
- <ESC> Back, <Enter> Refresh

--> 2

Enter IP address: 192.168.1.10
-----Network configuration --> IP configuration

Select menu:

1. IP mode: Static IP
 2. IP address: 192.168.1.10
 3. Subnet mask: 255.255.0.0
 4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
- <ESC> Back, <Enter> Refresh

--> 3

Enter Subnet mask: 255.255.255.0
-----Network configuration --> IP configuration

Select menu:

1. IP mode: Static IP
 2. IP address: 192.168.1.10
 3. Subnet mask: 255.255.255.0
 4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
- <ESC> Back, <Enter> Refresh

--> <ESC>
-----Network configuration

Select menu:

1. IP configuration
 2. SNMP configuration
 3. Dynamic DNS configuration
 4. SMTP configuration
 5. IP filtering configuration
 6. SYSLOG configuration
 7. NFS configuration
 8. Web server configuration
 9. Ethernet configuration
 10. TCP service configuration
- <ESC> Back, <Enter> Refresh

--> <ESC>

Welcome to SS-100 configuration page

Current time: 07/01/2004 00:01:08

F/W REV. : v1.3.0

Serial No. : SS100-040600047

MAC address: 00-01-95-05-19-c1

IP mode: Static IP

IP address: 192.168.161.5

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Select menu:

1. Network configuration
2. Serial port configuration
3. System administration
4. Save changes
5. Exit without saving
6. Exit and apply changes
7. Exit and reboot

<Enter> Refresh

---> 2

Serial port configuration

Port#	Title	Mode	Local-Port	Serial-Settings
1.	Port #1	TCP	7001	RS232-9600-N-8-1-None

Enter port number to configure

---> 1

Serial port configuration - Port #1

Select menu:

1. Enable/Disable this port: Enabled
2. Port title: Port #1
3. Host mode configuration
4. Filter application
5. Serial port parameters
6. Modem configuration
7. Port logging configuration
8. Port event handling configuration

<ESC> Back, <Enter> Refresh

---> 3

Serial port configuration - Port #1 --> Host mode configuration

Select menu:

1. Host mode: TCP
2. TCP listening port: 7001
3. Telnet protocol: Disabled
4. Max. allowed connection: 32
5. Remote host list configuration
6. Port IP filtering: Any
7. Cyclic connection: Disabled
8. Inactivity timeout: Disabled
9. Cryptography configuration

<ESC> Back, <Enter> Refresh

---> 3

Select Telnet protocol option:

1. Enable
2. Disable

---> 1

Serial port configuration - Port #1 --> Host mode configuration

Select menu:

1. Host mode: TCP
2. TCP listening port: 7001
3. Telnet protocol: Enabled
4. Max. allowed connection: 32
5. Remote host list configuration
6. Port IP filtering: Any
7. Cyclic connection: Disabled
8. Inactivity timeout: Disabled
9. Cryptography configuration

<ESC> Back, <Enter> Refresh

---> 5

Serial port configuration - Port #1 -->
Host mode configuration --> Remote host list configuration

Current registered remote host
Primary Secondary

Select menu:

1. Register a new remote host
2. Remove a registered remote host

<ESC> Back, <Enter> Refresh

---> 1

SS100_シリアルトンネリング設定例

Enter remote host(secondary host is optional)
 Format) Primary[IP:port] Secondary[IP:port]
 Ex1) 192.168.1.1:7000 192.168.1.2:7000
 Ex2) ss1.sena.com:7000 ss2.sena.com:7000
 Ex3) ss1.sena.com:7000
 ---> 192.168.1.20 7001

 Serial port configuration - Port #1 -->
 Host mode configuration --> Remote host list configuration

Current registered remote host
 Primary Secondary
 192.168.1.20:7001 (none)

Select menu:
 1. Register a new remote host
 2. Remove a registered remote host
 <ESC> Back, <Enter> Refresh

--->

 Serial port configuration - Port #1 --> Host mode configuration

Select menu:
 1. Host mode: TCP
 2. TCP listening port: 7001
 3. Telnet protocol: Enabled
 4. Max. allowed connection: 32
 5. Remote host list configuration
 6. Port IP filtering: Any
 7. Cyclic connection: Disabled
 8. Inactivity timeout: Disabled
 9. Cryptography configuration
 <ESC> Back, <Enter> Refresh

---> <ESC>

 Serial port configuration - Port #1

Select menu:
 1. Enable/Disable this port: Enabled
 2. Port title: Port #1
 3. Host mode configuration
 4. Filter application
 5. Serial port parameters
 6. Modem configuration
 7. Port logging configuration
 8. Port event handling configuration
 <ESC> Back, <Enter> Refresh

---> <ESC>

 Serial port configuration

Port#	Title	Mode	Local-Port	Serial-Settings
1.	Port #1	TEL	7001	RS232-9600-N-8-1-None

Enter port number to configure
 ---> <ESC>

 Welcome to SS-100 configuration page
 Current time: 07/01/2004 00:01:44 F/W REV.: v1.3.0
 Serial No.: SS100-040600047 MAC address: 00-01-95-05-19-c1
 IP mode: Static IP IP address: 192.168.161.5

Select menu:
 1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
 <Enter> Refresh

---> 6

Would you like to save changes? (y/n): y

Saving..

Configuration was saved.

Would you like to apply changes? (y/n): y

Bye...

```

-----
Welcome to SS-100 configuration page
Current time: 07/01/2004 00:01:44   F/W REV. :    v1.3.0
Serial No. :   SS100-040600047      MAC address: 00-01-95-05-19-c1
IP mode:      Static IP              IP address:  192.168.1.10
-----

```

```

Select menu:
 1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
<Enter> Refresh
-->

```

- 1. 2 機器側の設定 --- (B)
(コンソールサーバーとして、また、ターミナルサーバーとして設定)

```

-----
Welcome to SS-100 configuration page
Current time: 07/01/2004 00:00:48   F/W REV. :    v1.3.0
Serial No. :   SS100-040600047      MAC address: 00-01-95-05-19-c1
IP mode:      Static IP              IP address:  192.168.161.5
-----

```

```

Select menu:
 1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
<Enter> Refresh
--> 1

```

```

-----
Network configuration
-----

```

```

Select menu:
 1. IP configuration
 2. SNMP configuration
 3. Dynamic DNS configuration
 4. SMTP configuration
 5. IP filtering configuration
 6. SYSLOG configuration
 7. NFS configuration
 8. Web server configuration
 9. Ethernet configuration
10. TCP service configuration
<ESC> Back, <Enter> Refresh
--> 1

```

```

-----
Network configuration --> IP configuration
-----

```

```

Select menu:
 1. IP mode: Static IP
 2. IP address: 192.168.161.5
 3. Subnet mask: 255.255.0.0
 4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
<ESC> Back, <Enter> Refresh
--> 2

```

```

Enter IP address: 192.168.1.20
-----

```

```

-----
Network configuration --> IP configuration
-----

```

```

Select menu:
 1. IP mode: Static IP
 2. IP address: 192.168.1.20
 3. Subnet mask: 255.255.0.0

```

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4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
 <ESC> Back, <Enter> Refresh
 --> 3
 Enter Subnet mask: 255.255.255.0

 Network configuration --> IP configuration

Select menu:
 1. IP mode: Static IP
 2. IP address: 192.168.1.20
 3. Subnet mask: 255.255.255.0
 4. Default gateway: 192.168.1.1
 5. Primary DNS: 168.126.63.1
 6. Secondary DNS: 168.126.63.2
 <ESC> Back, <Enter> Refresh
 --> <ESC>

 Network configuration

Select menu:
 1. IP configuration
 2. SNMP configuration
 3. Dynamic DNS configuration
 4. SMTP configuration
 5. IP filtering configuration
 6. SYSLOG configuration
 7. NFS configuration
 8. Web server configuration
 9. Ethernet configuration
 10. TCP service configuration
 <ESC> Back, <Enter> Refresh
 --> <ESC>

 Welcome to SS-100 configuration page
 Current time: 07/01/2004 00:01:08 F/W REV. : v1.3.0
 Serial No. : SS100-040600047 MAC address: 00-01-95-05-19-c1
 IP mode: Static IP IP address: 192.168.161.5

Select menu:
 1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
 <Enter> Refresh
 --> 2

 Serial port configuration

Port#	Title	Mode	Local-Port	Serial-Settings
1.	Port #1	TCP	7001	RS232-9600-N-8-1-None

Enter port number to configure
 --> 1

 Serial port configuration - Port #1

Select menu:
 1. Enable/Disable this port: Enabled
 2. Port title: Port #1
 3. Host mode configuration
 4. Filter application
 5. Serial port parameters
 6. Modem configuration
 7. Port logging configuration
 8. Port event handling configuration
 <ESC> Back, <Enter> Refresh
 --> 3

 Serial port configuration - Port #1 --> Host mode configuration

Select menu:

SS100_シリアルトンネリング設定例

```
1. Host mode: TCP
2. TCP listening port: 7001
3. Telnet protocol: Disabled
4. Max. allowed connection: 32
5. Remote host list configuration
6. Port IP filtering: Any
7. Cyclic connection: Disabled
8. Inactivity timeout: Disabled
9. Cryptography configuration
<ESC> Back, <Enter> Refresh
```

--> 3

Select Telnet protocol option:

1. Enable 2. Disable

--> 1

Serial port configuration - Port #1 --> Host mode configuration

Select menu:

```
1. Host mode: TCP
2. TCP listening port: 7001
3. Telnet protocol: Enabled
4. Max. allowed connection: 32
5. Remote host list configuration
6. Port IP filtering: Any
7. Cyclic connection: Disabled
8. Inactivity timeout: Disabled
9. Cryptography configuration
<ESC> Back, <Enter> Refresh
```

--> 5

Serial port configuration - Port #1 -->
Host mode configuration --> Remote host list configuration

Current registered remote host
Primary Secondary

Select menu:

```
1. Register a new remote host
2. Remove a registered remote host
<ESC> Back, <Enter> Refresh
```

--> 1

Enter remote host(secondary host is optional)
Format) Primary[IP:port] Secondary[IP:port]
Ex1) 192.168.1.1:7000 192.168.1.2:7000
Ex2) ss1.sena.com:7000 ss2.sena.com:7000
Ex3) ss1.sena.com:7000

--> 192.168.1.10 7001

Serial port configuration - Port #1 -->
Host mode configuration --> Remote host list configuration

Current registered remote host
Primary Secondary
192.168.1.10:7001 (none)

Select menu:

```
1. Register a new remote host
2. Remove a registered remote host
<ESC> Back, <Enter> Refresh
```

-->

Serial port configuration - Port #1 --> Host mode configuration

Select menu:

```
1. Host mode: TCP
2. TCP listening port: 7001
3. Telnet protocol: Enabled
4. Max. allowed connection: 32
5. Remote host list configuration
6. Port IP filtering: Any
7. Cyclic connection: Disabled
8. Inactivity timeout: Disabled
9. Cryptography configuration
<ESC> Back, <Enter> Refresh
```

--> <ESC>

Serial port configuration - Port #1

SS100_シリアルトンネリング設定例

Select menu:

1. Enable/Disable this port: Enabled
 2. Port title: Port #1
 3. Host mode configuration
 4. Filter application
 5. Serial port parameters
 6. Modem configuration
 7. Port logging configuration
 8. Port event handling configuration
- <ESC> Back, <Enter> Refresh

---> <ESC>

Serial port configuration

Port#	Title	Mode	Local-Port	Serial-Settings
1.	Port #1	TEL	7001	RS232-9600-N-8-1-None

Enter port number to configure

---> <ESC>

Welcome to SS-100 configuration page

Current time: 07/01/2004 00:01:44 F/W REV.: v1.3.0
Serial No.: SS100-040600047 MAC address: 00-01-95-05-19-c1
IP mode: Static IP IP address: 192.168.161.5

Select menu:

1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
- <Enter> Refresh

---> 6

Would you like to save changes? (y/n): y

Saving..

Configuration was saved.

Would you like to apply changes? (y/n): y

Bye...

Welcome to SS-100 configuration page

Current time: 07/01/2004 00:01:44 F/W REV.: v1.3.0
Serial No.: SS100-040600047 MAC address: 00-01-95-05-19-c1
IP mode: Static IP IP address: 192.168.1.20

Select menu:

1. Network configuration
 2. Serial port configuration
 3. System administration
 4. Save changes
 5. Exit without saving
 6. Exit and apply changes
 7. Exit and reboot
- <Enter> Refresh

--->

以上

ご不明な点は弊社「テクニカルサービス」までお知らせいただきますよう御願いたします。

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