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 ■----

ー ロイン ・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

PC + SS100 +-- (x) -, + SS100 + 機器 ĹAN ĹAN

(環境)

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

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

(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
- System administration
 Save changes
- 5. Exit without saving
- 6. Exit and apply changes 7. Exit and reboot
- <Enter> Refresh
- -> 1

SS100_シリアルトンネリング設定例

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</enter></esc>					
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</enter></esc>					
> 2 Enter IP address: 192.168.1.10					
Network configuration> IP configuration					
<pre>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</enter></esc></pre>					
Enter Subnet mask: 255.255.0					
Network configuration> IP configuration					
Select menu: 1. IP mode: Static IP 2. IP address: 192.168.1.10 3. Subnet mask: 255.255.0 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></esc></enter></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></esc></enter></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:

Network configuration 1. Serial port configuration 2 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 7001 TCP 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 Port title: Port #1 2. 3. Host mode configuration Filter application 4. Serial port parameters Modem configuration 5. 6. 7. Port logging configuration 8. Port event handling configuration <ESC> Back, <Enter> Refresh -> 3 Serial port configuration - Port #1 --> Host mode configuration Select menu: ect menu: Host mode: TCP TCP listening port: 7001 Telnet protocol: Disabled Max. allowed connection: 32 Remote host list configuration Port IP filtering: Any Cyclic connection: Disabled Inactivity timeout: Disabled Cryptography configuration SC2 Back < Enter> Refresh 2 3. 4. 5 6. 7. 8. 9 <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 TCP listening port: 7001 Telnet protocol: Enabled 2. 3. Max. allowed connection: 32 Remote host list configuration Port IP filtering: Any Cyclic connection: Disabled 4. 5 6. 7. 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: Register a new remote host 2. Remove a registered remote host <ESC> Back, <Enter> Refresh -> 1 ページ(3)

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 192.168.1.20:7001 Secondary (none) Select menu: 1. Register a new remote host 2. Remove a register ' Remove a registered remote host <ESC> Back, <Enter> Refresh --> Serial port configuration - Port #1 --> Host mode configuration Select menu: 1. Host mode: TCP TCP listening port: 7001 Telnet protocol: Enabled 2. 3. Max. allowed connection: 32 Remote host list configuration Port IP filtering: Any Cyclic connection: Disabled 4. 5. 6. 7. Inactivity timeout: Disabled
 Inactivity timeout: Disabled
 Cryptography configuration
 ESC> Back, <Enter> Refresh --> <esc> Serial port configuration - Port #1 Select menu 1. Enable/Disable this port: Enabled Port title: Port #1 2 3. Host mode configuration 4. Filter application 5. Serial port parameters Modem configuration 6. 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 7001 RS232-9600-N-8-1-None TFI Enter port number to configure --> <ESC> Welcome to SS-100 configuration page Current time: 07/01/2004 00:01:44 Serial No.: SS100-040600047 F/W REV.: F/W REV.: v1.3.0 MAC address: 00-01-95-05-19-c1 IP address: 192.168.161.5 IP mode: Static IP Select menu: Network configuration 2 Serial port configuration 3. System administration 4. Save changes 5. Exit without saving 6. Exit and apply changes Exit and reboot 7. <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 Current time: Serial No.: IP mode:	-100 configuration page 07/01/2004 00:01:44 SS100-040600047 Static IP	F/W REV.: MAC address: IP address:	v1.3.0 00-01-95-05-19-c1 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</enter>					
●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- Current time: Serial No.: IP mode:	-100 configuration page 07/01/2004 00:00:48 SS100-040600047 Static IP	F/W REV.: MAC address: IP address:	v1. 3. 0 00-01-95-05-19-c1 192. 168. 161. 5		
Select menu: 1. Network cc 2. Serial po 3. System adr 4. Save chan 5. Exit with 6. Exit and a 7. Exit and a <enter> Refre</enter>	onfiguration rt configuration ministration ges out saving apply changes reboot esh				
Network confi	guration				
Select menu: 1. IP config 2. SNMP conf 3. Dynamic DI 4. SMTP conf 5. IP filter 6. SYSLOG con 7. NFS config 8. Web server 9. Ethernet con 10. TCP service <esc> Back, con > 1</esc>	uration iguration NS configuration iguration nfiguration guration r configuration configuration ce configuration <{Enter> Refresh				
Network configuration> IP configuration					
Select menu: 1. IP mode: 2. IP address 3. Subnet mas 4. Default ga 5. Primary DI 6. Secondary <esc> Back,</esc>	Static IP s: 192.168.161.5 sk: 255.255.0.0 ateway: 192.168.1.1 NS: 168.126.63.1 DNS: 168.126.63.2 <enter> Refresh</enter>				
Enter IP address: 192.168.1.20					
Network configuration> IP configuration					
Select menu: 1. IP mode: S 2. IP address 3. Subnet mas	Static IP s: 192.168.1.20 sk: 255.255.0.0				

SS100_シリアルトンネリング設定例 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 IP mode: Static IP
 IP address: 192.168.1.20
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.1.1
 Primary DNS: 168.126.63.1
 Secondary DNS: 168.126.63.2
 <ESC> Back, <Enter> Refresh ---> <ESC> Network configuration Select menu: 1. IP configuration SNMP configuration Dynamic DNS configuration 2. 3. 4. SMTP configuration IP filtering configuration SYSLOG configuration 5. 6. 7. NFS configuration 8. Web server configuration 9. Ethernet configuration 0. TCP service configuration <ESC> Back, <Enter> Refresh 10. --> <ESC> Welcome to SS-100 configuration page Current time: 07/01/2004 00:01:08 Serial No.: SS100-040600047 F/W REV.: v1.3.0 MAC address: 00-01-95-05-19-c1 IP mode: Static IP IP address: 192.168.161.5 Select menu: Network configuration 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 RS232-9600-N-8-1-None 1. Port #1 TCP 7001 Enter port number to configure ---> 1 Serial port configuration - Port #1 Select menu: Enable/Disable this port: Enabled Port title: Port #1 1. 2 3. Host mode configuration 4. Filter application 5. Serial port parameters Modem configuration 6. Port logging configuration Port event handling configuration 7. 8. <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 Host mode: TCP 1. TCP listening port: 7001 Telnet protocol: Disabled Max. allowed connection: 32 2. 3. 4 Remote host list configuration Port IP filtering: Any Cyclic connection: Disabled 5. 6 7. 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 TCP listening port: 7001 Telnet protocol: Enabled 2. 3 Max. allowed connection: 32 4 Remote host list configuration 5. Port IP filtering: Any Cyclic connection: Disabled 6. 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: Register a new remote host Ι. Remove a registered remote host <ESC> Back, <Enter> Refresh 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: Host mode: TCP TCP listening port: 7001 2 3. Telnet protocol: Enabled Max. allowed connection: 32 Remote host list configuration 4. 5. Port IP filtering: Any Cyclic connection: Disabled Inactivity timeout: Disabled 6. 7. 8. Cryptography configuration 9 <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 Port title: Port #1 2 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 1. Port #1 Serial-Settings RS232-9600-N-8-1-None Mode Local-Port 7001 TFI Enter port number to configure Welcome to SS-100 configuration page Current time: 07/01/2004 00:01:44 Serial No.: SS100-040600047 F/W REV.: v1. 3. 0 MAC address: 00-01-95-05-19-c1 IP address: 192.168.161.5 IP mode: Static IP Select menu: Network configuration 1. 2. Serial port configuration 3. System administration 4. Save changes 5. Exit without saving Exit and apply changes
 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 Serial No.: SS100-040600047 F/W REV.: F/W REV.: v1.3.0 MAC address: 00-01-95-05-19-c1 IP address: 192.168.1.20 IP mode: Static IP Select menu: 1. Network configuration Serial port configuration System administration 2 3. 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します。 作成株式会社インターソリューションマーケティング 〒150-0013 東京都渋谷区恵比寿1-24-14 EXOS恵比寿ビル5F Tel. 03-5795-2685 Fax. 03-5795-2686 URL : http://www.InterSolutionMarketing.com E-mail : support@InterSolutionMarketing.com (c) InterSolution Marketing 無断転載記載を禁ず 0vixx