

CN_CyberSecurity_SiteManager 作为网络安全产品的 方案测试

Exported from Confluence on 2024 January 26

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. 需求简介

需求

客户的视觉检测方案中使用了X20 CPU,现在终端用户对网络安全提出了要求,要求该系统能够满足相 关的网络安全。另外,该系统开发比较早,X20 控制器采用的AR版本比较低,在网络安全性方面的能力 较弱,这些设备分布在全世界各地,对AR进行升级从时间和成本上来说也可能性很低。客户希望我们能 够提供一个符合网络安全需求的性价比高的硬件来保护整个控制器的网络安全,最好硬件经过预配置后 直接现场安装即可让系统无感运行。

视觉检测系统的典型系统拓扑结构图如下所示。



. 可能方案

方案

对于客户的这个网络拓扑以及相应的网络安全的需求,性价比最高的可能方案为增加一个 SiteManager 用于视觉检测系统和外部系统之间的隔离,如下图所示。



. 方案测试

方法

下面的测试的 SiteManager 的型号为 0RMSM1145.

SiteManager 的产品信息

型号为 0RMSM1145 的 SiteManager 的外观的侧面图、正视图和顶视图分别如下面三图所示,可以 从外观上获取型号、MAC 地址、状态灯、Wifi天线 以及 Reset 按钮等相关信息,具体尺寸等相关信 息可查看产品说明书。





SiteManager 的初次连接和基本设置

对于一个全新的 SiteManager 来说,推荐以下两种方式去连接 SiteManager 然后进行参数的基本设置。(如果是旧的已经配置过的 SiteManager,可以通过上电后长按 SiteManager 上的 Reset 按钮 来清除之前的配置恢复到初始配置,之后可以采用下文的方法来连接并进行设置和修改)

方法一:使用 Appliance launcher 来连接 SiteManager

1)首先到贝加莱刚 <u>maintenance/siten</u> launcher 程序压缩	网站 <u>https://www.br-au</u> nanager/0rmsm1145/a 包然后进行安装并运行	<u>itomation.com/en/de</u> appliance-launcher/ す₀	<u>ownloads/industrial-ic</u> ′ <u>?noredirect=1</u> 去下载	o <u>t/remote-</u> ҟ Appliance
2)使用电脑直接刚 大约需要等待一分	网线连接 SiteManager 钟。	[·] 的 Uplink1 或者 DI	EV1 接口,然后给 Sit	teManager 上电,
3)上电一分钟后, 进行搜寻,然后连 步。 	在 Appliance Lanche 接的 SiteManager 设行	er 窗口如果没有显示 备将显示在窗口里面	示出这个 SiteManager ī,如下图,然后点击	r,可以点击 search i Next 进入下一
Appliance L	auncher v7.2 (Build.	17145)		×
About				Bar
	Select an Applia	ance to Configu	ire	
	(Click Next if there is	s only one appliance	e listed)	
	MAC Address	Product	Device Na	ame
	00:C0:A2:02:01:D	E SiteManager OR	MSM1145 SiteManag	ger
1	Selected: 00:C0:A	2:02:01:DE	appliances	3
	Ēx	it < Back	Next >	Save/Reboot

4)接下里进行 DEV1 口(用于和控制器连接的接口)的 IP 地址和子网掩码的设置,设置后点击 Next 。

Enter LAN/DEV1 Parameters
Device Name (optional) SiteManager
IP Address 10.0.0.1
Subnet Mask 255.255.255.0
To set LAN/DEV1 parameters only, press [Save/Reboot]
To continue the Launcher press [Next >]
Advanced Option
 Exit < Back Next > Save/Reboo

Enter WAN/UPLIN	K Parameters	
-WAN/UPLINK Setting	S	
Mode:	Static 💌	
IP Address:	192.168. 1.100	
Subnet Mask:	255.255.255.0	
Default Gateway:	192 168 1 1	
Derdare Outeway.	192,100, 1, 1	
ISP Settings		
Username:		
Password:		
Exit	< Back Ne	ext > Save/Rebool

Enter WAN2/UPI INK2 Parameters	
WAN2/UPLINK2 Settings	
Mode: PPP	
IP Address: 0.0.0.0	
Subnet Mask: 255.255.255.255	
Default Gateway: 0 . 0 . 0 . 0	
ISP/WiFi Settings	
APN:	
WiFi SSID: Letv X500	
WiFi Password: hw 18621875707	
<u>Exit</u> < <u>Back</u> <u>Next</u> >	Save/Reboot

Enter GateManager Para	ameters
GateManager Address:	213. 33.116.130 DNS
Domain Token:	CHINA.BR-SHANGHAI
Appliance Name:	shanghaitest_1
Web-Proxy IP address:	DNS
Web-Proxy Account:	
Web-Proxy Password:	
Exit	< Back [Next >] Save/Reboot

<u>bout</u>	Finish
	Press the [Save/Reboot] button to save your settings and reboot the appliance.
	Pressing Exit will exit the Launcher and no changes will be saved.
	<click> - copy current settings to clipboard</click>
	Exit < Back Save/Reboot

About	
	The Appliance is now rebooting
	This appliance is now being configured.
	The password is MAC address.
	Exit the program - after you read this:
	Important! The Appliance reboot time is approximately 1-3 min. If you have problems, try rebooting (restarting) your PC.
	If this does not help, please contact your administrator.
	If this does not help, please contact your administrator.

	Select an Appliance to Configure (Click Next if there is only one appliance listed)
	MAC Address Product Device Name
	Selected: 00:C0:A2:02:01:DE
	Search Refreshes the list of appliances
Reboot to	access ×
321	Instructions for appliance marked "reboot to access"
	This appliance uses a firmware version that has been security optimized according to the Common Vulnerabilities and Exposures Identifiers
	This appliance uses a firmware version that has been security optimized according to the Common Vulnerabilities and Exposures Identifiers https://cve.mitre.org/
	This appliance uses a firmware version that has been security optimized according to the Common Vulnerabilities and Exposures Identifiers https://cve.mitre.org/ To prevent unauthorized access while in operation, the appliance will allow access by Appliance Launcher only within the first 10 minuttes after power on or reboot.
	This appliance uses a firmware version that has been security optimized according to the Common Vulnerabilities and Exposures Identifiers https://cve.mitre.org/ To prevent unauthorized access while in operation, the appliance will allow access by Appliance Launcher only within the first 10 minuttes after power on or reboot. To access the appliance with Appliance Launcher, you should repower the appliance, and select Search in the Appliance Launcher main window, until your appliance appear without the "reboot to access" message.
	This appliance uses a firmware version that has been security optimized according to the Common Vulnerabilities and Exposures Identifiers https://cve.mitre.org/ To prevent unauthorized access while in operation, the appliance will allow access by Appliance Launcher only within the first 10 minuttes after power on or reboot. To access the appliance with Appliance Launcher, you should repower the appliance, and select Search in the Appliance Launcher main window, until your appliance appear without the "reboot to access" message.
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连接上后,出现也是如下图所示的配置页面。

1. 2. U. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Ramote Mannaraha
SETUP - System GateManager VPN Routing Maintenance Status Log - HELP Lo
About + Troubieshoot SiteMananer 08MSM1145 [WiFi] - Setun Accidant
1. Gatelfanager 213.33.116.130 Net connected (URL/INK is down)
2. Uptick2 (WIFI): Down
4. DEV port: 10.0.0.1/24 (default) Edit 3. Device Agenta: No agents defined The
6. Chat / Scretchpedi: Empty Edit 7. Admin Password: Using default password (MAC address) Fix
You can open the Setup Assistant at any time by clicking on SETUP in the top menu.
Note: If you click on HELP it shows specific help for the current configuration page. Please consult the online help as your first their in solving setup problems.
Interface load for the last 30 minutes
10 Reps
Legendi Tu: Ru
HTIAUEI TUP • System GateManager VPN Routing Maintenance Status Log • HELP anager Info • General • Agents • Alerts • Device Belays • Server Belays • Web Proxy • Status
GateManager Settings
GateManager Settings
GateManager Settings
GateManager Settings GateManager not connected. 🗭 Remote Management: Disabled
GateManager Settings GateManager not connected.
GateManager Settings GateManager not connected. Remote Management: GateManager Address: * 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: * 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: * 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1
GateManager Settings GateManager not connected.
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: * 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * web-proxy Address: Web-proxy Account: Web-proxy Password:
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: * 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Account: Web-proxy Password:
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: 2 (13.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Address: Web-proxy Address: Web-proxy Password: * = Mandatory field
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Account: Web-proxy Password: * = Mandatory field
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Address: Web-proxy Account: Web-proxy Password: * = Mandatory field
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Address: Web-proxy Password: * = Mandatory field Save
GateManager Settings GateManager not connected. Remote Management: Disabled GateManager Address: 213.33.116.130 Domain Token: * CHINA.BR-SHANGHAI Appliance Name: * shanghaitest_1 Web-proxy Address: Web-proxy Account: Web-proxy Password: * = Mandatory field

SETUP •	System	GateManager	VPN	Routing	Maintenance	Status	Log • HEI
	Maintenand	e Info • Passwo	rd • R	eboot • U	pgrade • Export	Import	Reset
			Admi	n Passw	ord		
		Old password	lı –				
		Primary pass	word:				
		New passwor Retype:	d:	-			
		Consider of		. District			
		New passwor	d:		•)		
		Retype:					
				Change]		

下面我们可以把客户需求的方案类比为下图的一个实际场景,图中的 SCADA 系统就是需要通过 OPC UA 或 Modbus TCP 来访问的第三方系统,图中的设备就可以看着是贝加莱的 PLC。(忽略图 中的 SiteManager 的接口个数)

目的就是这个 SCADA 系统通过 SiteManager 以相应的通讯协议访问到这个设备,而且 SCADA 访问的 IP 地址为 Uplink1 的 IP 地址,而不是连接到 DEV 接口的设备的 IP 地址。

对于这种需求,首先需要打通 SCADA 到最终设备的整条链路;对这条链路,我们可以分成 SCADA---Uplink1、 Uplink---DEV1、DEV1---Device 三段,每段之间能相互 ping 通则整条链路就 打通了。



Step 1 : SCADA----Uplink1

假设,如上图所示,SCADA 和 Uplink1 的 IP 地址分别为图示,此时直接从 SCADA 上去 ping Uplink1 的 IP 地址是无法 ping 通的。要打通这条路径,有两种方法可供选择。

方法一是,在 SCADA 上的 IP 地址的设置进行修改,将默认网关设置为 Uplink1 的 IP 地址。

方法二是,在 SCADA 上去添加路由表,方法就是通过管理员方式去打开 Command Prompt, 然后 输入命令 route add 192.168.12.0 mask 255.255.255.0 172.16.15.18 并回车,这样就完 成了路由表的添加。

注意:公司的电脑使用方法一测试下来无效。

通过上面的方法设置后,从 SCADA 上去 ping Uplink1 的 IP 地址是能够 ping 通了。

Step 2 : Dev1---Device

对于这一段,同样需要在 AS 里面去设置 CPU 属性里面的 Default gateway 为 DEV1 的 IP 地址。 这样设置后,DEV1---Device 之间的通路也打通了。

40 V0		Value	Unit	Description
1	20CP1586			
• • •	Configuration ID	IED1_230523		Unique configuration ID. Required format:
	Configuration version	1.0.0		Configuration version for conditional instal
· · · · · · · · · · · · · · · · · · ·	Simulation			
	Memony configuration			
 ↓	System			
ф. 🔄	Reboot			
÷- 🚰	Communication			
	Timing			
	Resources			
ت ھ	File devices			
₽~, 🚰	Time synchronization			
🕀 – 🚰	Internet file system			
e- 🛐	Ethernet parameters			
	I Host name	br-automation		
	Default gateway			
÷	Static routing			
₩- 🚰	Online parameters			
	Online parameters			
the 100	TETP Server			
	Additionally supported bardware			
	Web Server			
÷ 🕾	System diagnostics			
	DTM Server			
to an a second se	OPC-UA System			
p3: 于这一	Temperature data type configuration UplinkDEV1 一段,这个是通过在 SiteMa	nager 里面设置来完	成的。具体	方法如下面步骤去进行相应的设
。 → 3 → 3 → 3 → 3 → 3 → 3 → 3 → 3	Temperature data type configuration UplinkDEV1 一段,这个是通过在 SiteMa 通过浏览器访问 SiteManager ure https://192.168.1.100	nager 里面设置来完 r 的配置页面,如下图	成的。具体 图,点击 Do	东法如下面步骤去进行相应的设 evice Agents 右边的编辑按钮。
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ep 3: 于这一 先,通	Temperature data type configuration UplinkDEV1 一段,这个是通过在 SiteManagen 通过浏览器访问 SiteManagen are https://192.168.1.100	nager 里面设置来完, r 的配置页面,如下的 ote Maintenance eManager SERUP • System GateManager 0R	成的。具体 图,点击 Du VPN Routing M About • Troublesho MSM1145 [WiFi]	な方法如下面步骤去进行相应的设 evice Agents 右边的编辑按钮。 A laintenance Status Log ・ HELP et - Setup Assistant
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	SETUP • System GateManag GateManager Info • General • Agente	ger VPN Routing Maintenance Status Log • ts • Alerts • Device Relays • Server Relays • Web Pro	HELP ky • Status
	Device Name 定义一个	GateManager Agents	最后点击这个图
	名称,可随意填写	Using 1 of 5 agents	4 进行规则的定义
RROR #00	Device Name Device CUSTOM (Advanced)	ce Type Device IP & Parameter	s Tunnel Comment
	Refr.2 Sat	Perice Forwarding .3 Device Type的右边	列点
	Device_Type的左边列点	PC Ping Boutton (Scada) 击下拉选择 Forwar	ding
	击下拉,选择 CUSTOM	Snmp TCP	
		Vnc	
来进入下国	图的 Forwarding 规则的定义	页面。	
	Remote Maintenance		
	SiteManager		
	SETUP • System GateManager	VPN Routing Maintenance Status Lo	g • HELP
	GateManager Info • General • Agents • /	Alerts • Device Relays • Server Relays • Web	Proxy • Status
	New Device "	''' (Forwarding Agent) Details	
_			
Davides Manager 8]		
Device Name: *]		
Device Name: *			
Device Name: *	Format: [#?][[IFACE[*]][\$IP]:][PROTO:][SOURd	CE:][NATPORT]>[>][IFACE:]TARGET[:TARGETPORT]]
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Device Name: * Rule 1: * [Rule 2: [Rule 3: [Rule 4: [Rule 5: [Rule 5: [Rule 6: [Rule 7: [Rule 8: [Rule 9: [Rule 10: [Enable UPLINK Sou	Format: [#?][[IFACE["]][\$IP]:][PROTO:][SOUR 此处至少需要填写= 鼠标在空白的规则输 式的提示。-具体相应	★规则,最多是可以有十条 新次处停留,会弹出上面的规 的说明参见帮助。	
Device Name: * Rule 1: * [Rule 2: [Rule 3: [Rule 3: [Rule 5: [Rule 5: [Rule 6: [Rule 6: [Rule 7: [Rule 8: [Rule 9: [Rule 10: [Enable UPLINK Source	Format: [#?][[IFACE[*]][\$IP]:][PROTO:][SOUR 此处至少需要填写 鼠标在空白的规则输 式的提示。-具体相应	CE:][NATPORT]>[>][IFACE:]TARGET[:TARGETPORT] 条规则,最多是可以有计条 俞次处停留,会弹出上面的规 立的说明参见帮助。	
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下图为定义的几条 Forwarding 的规则举例说明。

SETUP • System GateManag	ger VPN Routing Maintenance Status Log • HELP About • Troubleshoot
Device "PC2" (For	rwarding Agent) Details - Setup Assistant
When you configure an agent to r or Uplink network of the SiteMana	monitor a TCP/IP enabled device located on either the DEV network ager, you must specify the device IP address below.
Click [Save] and then [Back] to m	nake the SiteManager instantly try to connect to the device.
If not successful, the Agent will re the GateManager and subsequent	eport an error, and the agent will not be registered on tly not on LinkManagers either.
	Help Continue Setup »
ule 1: * UPLINK:TCP:192.168.1.200:502>>DEV:10.1.3.20	20
lle 2: UPLINK:TCP:192.168.1.200:11169>>DEV:10.1.3.	.200
le 3: UPLINK:TCP:192.168.1.200:4840>>DEV:10.1.3.2	200
■ 这里定义了三条不同的	的规则一分别定义了·只有 IP 地址为
^{⊯6:} 192:168:1:200 的和 Up	link相连的第三方系统才可以访问到,与IDEV1—
le 8: □连接的IIP.地址为110	1.3.200的控制器的 TCP 的 502 11169 和
ule 10: 4840 端山,具余木定	义的师问对方法切问。
nable UPLINK Source Translation:	
NS recheck interval (minutes):	
Sustom Settings:	ve Back Ping * = Mandatory field
Custom Settings: 」」 」」 」则的定义,可以在当前配置页面直	ve Back Ping * = Mandatory field ■接点击下图右上角的 HELP 查询,如下图所示。
wstom Settings: 如前定义,可以在当前配置页面直 配置 Steffanger VPN Roofing M	ve Back Ping * = Mandatory field 亚接点击下图右上角的 HELP 查询,如下图所示。
ustom Settings: 回到的定义,可以在当前配置页面直 Compared Randemace StateManager Tel - System GateManager VPN Routing M CateManager Tel - System GateManager VPN Routing M	Ve Back Ping * = Mandatory field E接点击下图右上角的 HELP 查询,如下图所示。 Elatorement Status Log : LEE 2 此时只需直接点击此处HELP Status Log : Leg 2 此时只需直接点击此处HELP
ustom Settings: Sa 则的定义,可以在当前配置页面直 Setting StateManager Setting System GateManager VPM Routing M CateManager Info - Canceral + Agents + Alerts + Device Red Device "PC3" (Forwarding A Role 1 * [UPUW*9192.166.1.170:192.166.1.20040=>Device110.1.3.200	ve Back Ping * = Mandatory field ■接点击下图右上角的 HELP 查询,如下图所示。 ■ Mandatory Status Log • HELP 2 此时只需直接点击此处 HELP bys + Server Relays • Web Procest • Status Log • High - StetManager ORMSM1145 - Work - Microsoft Edge
ustom Settings: 回的定义,可以在当前配置页面直 StateManager Info CateManager VPM Routing M CateManager Info CateManager Info CateManager VPM Routing M CateManager Info CateManager VPM Routing M CateManager Info CateManager VPM Routing M CateManager Info CateManager VPM Routing M N (N	ve Back Ping * = Mandatory field 建接点击下图右上角的 HELP 查询,如下图所示。 建始的ance: Status Log 、 MER 2 Linkerse: Web Press: Status Verse: Relay: • Web Press: Status Verse: Server Relay: • Web Press: Status Verse: Verse: News: Status Verse: Verse: News: Notation: Constraining Verse: The Forwarding Agent: 1 The Forwarding Agent: 1 The Forwarding Agent: 1
ustom Settings: January Settings: January Settings: January Settings: January Settings: Setting System Calebranger VM Routing M Calebranger Life - Ceneral - Agents - March - Device Red Device "PC3" (Forwarding A Red 2 Red 2	ve Back Ping * = Mandatory field 建接点击下图右上角的 HELP 查询,如下图所示。 ** <td< td=""></td<>
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ustom Settings: 」 」 」 」 」 」 」 」 」 」 」 」 」	ve Back Ping * = Mandatory field * Back Ping * = Mandatory field Back Display Back Ping * a Mandatory field Back Display * a Mandatory field Back Display
ustom Settings:	ve Back Ping * = Mandatory field * Back Ping * = Mandatory field Back Display in the status Back Ping * = Mandatory field Back Display in the status Back Display in the status * Inter-Status Display in the status * Inter-Status Inter-Status * Provending Agent allows devices (like PLCs, PCs The Status agent. * Provending Agent allows devices (like PLCs, PCs The Status agent. * Provending Agent allows devices (like PLCs, PCs The Status agent. * Provending Agent allows device (like PLCs, PCs The Status agent. * Provending Agent allows device on the Device network needs to sative the a strest anger. The Status agent. * Provending Agent will
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	veil Back Ping * = Mandatory field * = Mandatory field 在技会点击下图右上角的 HELP 查询,如下图所示。 在技会点击下图右上角的 HELP 查询,如下图所示。 Childenance Status Log + Matter 2 Littlenance Status Log + Matter 2 Mater 2 Mater 2 </td
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ustom Settings:	veil Back Ping * = Mandatory field * = Mandatory field 田技会点击下图右上角的 HELP 查询,如下图所示。 田技会点击下图本上角的 HELP 查询,如下图所示。 The Status Status Log ***********************************
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		SETT	UP • System GateManager VPN Rou	ting Maintenance Status Log • HEL	
			About • Tro	ubleshoot	
us列可以	人显示	当前	GateManager Agents	; - Setup Assistant	
的 ager	nts 的	状态	You can configure an agent to monitor a device conr and TCP/IP enabled devices located on either the DE	ected to the SiteManager Serial port V network or Uplink network of the SiteManager.	
Dis	able 3	利可以去勾选了	Click [New], and give the Agent a name (this name and selver a suitable device type (first vendor, then) in the suitable device type (first vendor, then) ddress and other relevant parameters.	will be what the LinkMy 这个型号的 Site	Manager,最
age	nts 3	~使相应的规则	id appear on the GateManager and any Li	nkManager that have been granted access to the	(GBCIIII)
		1	If not successful, the Agent will report an error, and the GateManager and subsequently not on LinkMana	the agent will not be registered on gers either.	
		,	Press the [Search] button to search for Ethernet dev	rices that are not yet handled by any Agent.	
				Help Continue Setup >	
			Using 3 of 5	5 agents	
tatus Disable	S/N	Device Name	Device Type	Device IP & Parameters	Tunnel Comment
	#00	PC1	CUSTOM (Advanced) V Routing (Scada) V	192.168.1.200 +TDEV	
	#02	PC2	CUSTOM (Advanced) V Forwarding V	UPLINK:TCP:192.168.1.200:80>>DEV:10.1.3.200	
UP	#01	PC3	CUSTOM (Advanced) V Forwarding V	UPLINK*\$192.168.1.101:TCP:192.168.1.200:80>:	20
			Refresh Save New	/ Search SNMP >>	
<u> </u>			南日坦坦上于的可塑的这		
	219月日2	/ 功 贡,也很 [;]	谷易根据上面的配直的证	心明进行间里的修改就可	以两足,如只安把上
工画学	192	2.168.1.200 3	替换成 172.16.15.25、1	0.1.3.200 替换成 192.16	68.12.5 ,然后添加_
1里面的]可。				
上面4 里面的 端口即			器 计可以打通 Linlink	DEV/1 之间的链路	
上面年 里面的 端口即	ᆘᆔ┲			ーレーマー 人 PUPU玩的。	
上面年 里面的 端口即 ,通过	上面	的梦寐的设			
上面 里面的 端口即 -,通过 :上面三	上面 二个步	的 罗骤的设 。 骤的设置,	要求实现的 172.16.15.2	25 的 SCADA 系统就可以	以以设置的规则访问到
上面等 里面的 端口即 	上面 上面 二个步 2.5 的	的步骤的设 [。] "骤的设置,]设备了。需	要求实现的 172.16.15.2 要注意的是,172.16.15	25 的 SCADA 系统就可以 .25 的 SCADA 系统实际	以以设置的规则访问到 访问的是 Uplink1 的

· 方案优点和限制

优点和限制

对于这个添加 SiteManager 的方案,针对目前客户的需求来说,优点大致如下:

1)性价比高,只需要一个 SiteManager 即可,不需要其它费用,也不需要和 GateManager 或 linkmanager 一起搭配使用。

- 2)通过规则的 IP 设置来限制哪些系统或设备可以访问 PLC。
- 3)通过规则的端口设置来限制连接的系统或设备只能访问 PLC 的这些端口,其余端口无法访问。
- 4) 配置规则可以导入和导出,易复制。
- 5)安装方便,无需改动原有项目网络拓扑架构,第三方也无需改动。

限制是 SiteManager 的 Uplink1 口和 DEV1 的 IP 地址是不能设置为同一网段的,导致现场原分配给 PLC 的 IP 地址现在需要分配给 Uplink1,PLC 需要重新设置不同网段的 IP 地址并设置 DEV1 口的 IP 地址为默认网关。

. 其它注意事项

其它注意事项

对 SiteManager 的使用,部分注意事项如下:

有关 Uplink1 和 DEV1 的 IP 网段

SiteManager 的 Uplink1 口和 DEV1 的 IP 地址是不能设置为同一个网段的!

一方面 Uplink1 口和 DEV1 设置为同一个网段时,SiteManager 上会显示 IP 地址冲突的报警,如下 图。

SETUP • System	m GateManager VPN About	Routing Maintenance Status Log • Troubleshoot	HELP
	SiteManager 1149	[WiFi] - Setup Assistant 会有过	设置相同时 这个显示
1. GateManager:	121.40.243.148	Connected to 121.40.247 148:443 (UPLINK)	Edit
2. Uplink port:	192.168.16.90/24 (Fxed)	Up	Edit
3. Uplink2 (WiFi):		Down	Edit
4. DEV port:	192.168.16.100/24	Conflict with Uplink address	Fix
5. Device Agents:	1 starting	Unhandled USB device(s)	Fix
6. Chat / Scratchpad:	Empty		Edit
7. Admin Password:		Using default password (MAC address)	Fix

另外就是Uplink1 口和 DEV1 设置为同一个网段时,添加路由表的 route 是无法成功添加的。

有关 SiteManager 的配置修改是否需要重启

对于在 SiteManager 上进行了相应的配置修改保存后,是否需要进行 Reboot 生效,可以查看配置 主页面,如果有需要重启时,这里会新增第 8 项 Reboot 一行,如下图,然后点击右边的 Fix 按钮。



	SETUP • System GateMa	nager VPN Routing About • Troubles	Maintenance Status hoot	Log • HELP		
	SiteManag	er ORMSM1145 [Wil	Fi] - Setup Assistant			
	1. GateManager:	213.33.116.130	Remote Access Disabled	Fix		
	2. Uplink port:	172.160.1.100/16 (Fixed)	Up	Edit		
	3. Uplink2 (WiFi):		Down	Edit		
	4. DEV port:	10.1.3.100/24	No cable	Edit		
	5. Device Agents:	1 up		Edit		
	7. Admin Password:	ок		Edit		
	You can open the Setup	Assistant at any time by	clicking on SETUP in the	top menu.		
	Note: If you click on HE Please consult	ELP it shows specific help t the online help as your first	step in solving setup proble	tion page. ns.		
有关 SiteManager 的	维护功能					
有关 SiteManager 的 SiteManager 提供了 [;] 等,如下图 SiteMana	<mark>维护功能</mark> 相应的维护,提供了 ager 的 Maintenanc	⁷ 密码修改、F ce 菜单下的各	irmware 升级 个功能。	、配置的导出	出和导入、	Reset
有关 SiteManager 的 SiteManager 提供了 等,如下图 SiteMana Bin Site	增护功能 相应的维护,提供了 ager 的 Maintenanc ^{ote Maintenance} eManager	┘密码修改、F 淀 菜单下的各	irmware 升级 个功能。	、配置的导出	出和导入、	Reset
有关 SiteManager 的 SiteManager 提供了 等,如下图 SiteMana BFR Site	维护功能 相应的维护,提供了 ager 的 Maintenanc ote Maintenance eManager SETUP - System GateMar	了密码修改、F be 菜单下的各	irmware 升级 个功能。 Maintenance Stat	、配置的导出 us Log • HELP	出和导入、	Reset
有关 SiteManager 的 SiteManager 提供了 等,如下图 SiteMana Ban Site	维护功能 相应的维护,提供了 ager 的 Maintenanc ote Maintenance eManager SETUP - System GateMar Maintenance Info - F	?密码修改、F ce 菜单下的各 nager VPN Routing Password・Reboot・L	irmware 升级 个功能。 Maintenance Stat	、配置的导出 us Log • HELP vrt Reset	出和导入、	Reset
有关 SiteManager 的 SiteManager 提供了 等,如下图 SiteMana Ban Site	维护功能 相应的维护,提供了 ager 的 Maintenance eManager SETUP - System GateMar Maintenance Info - F	2 密码修改、F 定 菜单下的各 Pager VPN Routing Password • Reboot • 1	irmware 升级 个功能。 Maintenance: Stat Jpgrade · Export Impr	、配置的导出 us Log • HELP prt Reset	出和导入、	Reset
有关 SiteManager 的 SiteManager 提供了 等,如下图 SiteMana Ban Sit e	维护功能 相应的维护,提供了 ager 的 Maintenance eManager SETUP - System GateMar Maintenance Info - F Maintenance Info - F Password Change the pa The password maintenance Info - F	2 密码修改、F 定 菜单下的各 hager VPN Routing Password • Reboot • 1 password in connection with ust be minimum S charact assiver in non-planbetic charact	irmware 升级 个功能。 Maintenance Stat Jpgrade Export Impr Junt. first-time configuration. ers long cter.	、配置的导出 us Log • HELP prt Reset	出和导入、	Reset
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