

SCALANCE W 交换机 WDS 中断问题

W788-1、W788-2 交换机

交换机固件版本为 V6.3.1

WDS 实现 AP 间通信:

W788-1 的 WDS 配置:

The screenshot shows the 'Access Point Settings' page for a SCALANCE W788-1. The 'AP WDS' tab is selected. The configuration table is as follows:

Radio	Port	Enabled	SSID	Broadcast SSID	WDS only	WDS ID
WLAN 1	VAP 1.1	<input checked="" type="checkbox"/>	CY_2A0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CY_2A0
WLAN 1	VAP 1.2	<input type="checkbox"/>	Siemens Wireless Network 1.2	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.3	<input type="checkbox"/>	Siemens Wireless Network 1.3	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.4	<input type="checkbox"/>	Siemens Wireless Network 1.4	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.5	<input type="checkbox"/>	Siemens Wireless Network 1.5	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.6	<input type="checkbox"/>	Siemens Wireless Network 1.6	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.7	<input type="checkbox"/>	Siemens Wireless Network 1.7	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.8	<input type="checkbox"/>	Siemens Wireless Network 1.8	<input type="checkbox"/>	<input type="checkbox"/>	

Warning: The approval process may not be finished in current country for channels denoted by a "*" character.
Please check the following website for more detailed information:
<http://www.siemens.com/wireless-approvals>

The screenshot shows the 'Wireless Distribution System Settings' page for a SCALANCE W788-1. The 'AP WDS' tab is selected. The configuration table is as follows:

Radio	Port	Port enabled	Connection over	Partner ID Type	Partner MAC	Partner WDS ID
WLAN 1	WDS 1.1	<input checked="" type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	CY_3A0_1
WLAN 1	WDS 1.2	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.3	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.4	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.5	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.6	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.7	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.8	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	

Unrestricted

W788-2 的 WDS 配置:

172.16.2.172/CY_3A0

Welcome admin | Logout

Access Point Settings

Basic | **Advanced** | Antennas | Allowed Channels | 802.11n | AP | AP WDS | AP 802.11a/b/g Rates | AP 802.11n Rates | Force Roaming | Spectrum Analyzer

Radio	Channel	Alternative DFS Channel	HT Channel Width [MHz]
WLAN 1	44 (5220)	-	40 up
WLAN 2	36 (5180)	-	20

Available Channels

Radio	Available Channels
WLAN 1	44
WLAN 2	36,165

Radio	Port	Enabled	SSID	Broadcast SSID	WDS only	WDS ID
WLAN 1	VAP 1.1	<input checked="" type="checkbox"/>	CY_3A0_1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CY_3A0_1
WLAN 1	VAP 1.2	<input type="checkbox"/>	Siemens Wireless Network 1.2	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.3	<input type="checkbox"/>	Siemens Wireless Network 1.3	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.4	<input type="checkbox"/>	Siemens Wireless Network 1.4	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.5	<input type="checkbox"/>	Siemens Wireless Network 1.5	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.6	<input type="checkbox"/>	Siemens Wireless Network 1.6	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.7	<input type="checkbox"/>	Siemens Wireless Network 1.7	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 1	VAP 1.8	<input type="checkbox"/>	Siemens Wireless Network 1.8	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 2	VAP 2.1	<input checked="" type="checkbox"/>	CY_3A0_2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CY_3A0_2
WLAN 2	VAP 2.2	<input type="checkbox"/>	Siemens Wireless Network 2.2	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 2	VAP 2.3	<input type="checkbox"/>	Siemens Wireless Network 2.3	<input type="checkbox"/>	<input type="checkbox"/>	
WLAN 2	VAP 2.4	<input type="checkbox"/>	Siemens Wireless Network 2.4	<input type="checkbox"/>	<input type="checkbox"/>	

Warning: The approval process may not be finished in current country for channels denoted by a "*" character.

Please check the following website for more detailed information:
<http://www.siemens.com/wireless-approvals>

Set Values Refresh

172.16.2.172/CY_3A0

Welcome admin | Logout

Wireless Distribution System Settings

Basic | **Advanced** | Antennas | Allowed Channels | 802.11n | AP | AP WDS | AP 802.11a/b/g Rates | AP 802.11n Rates | Force Roaming | Spectrum Analyzer

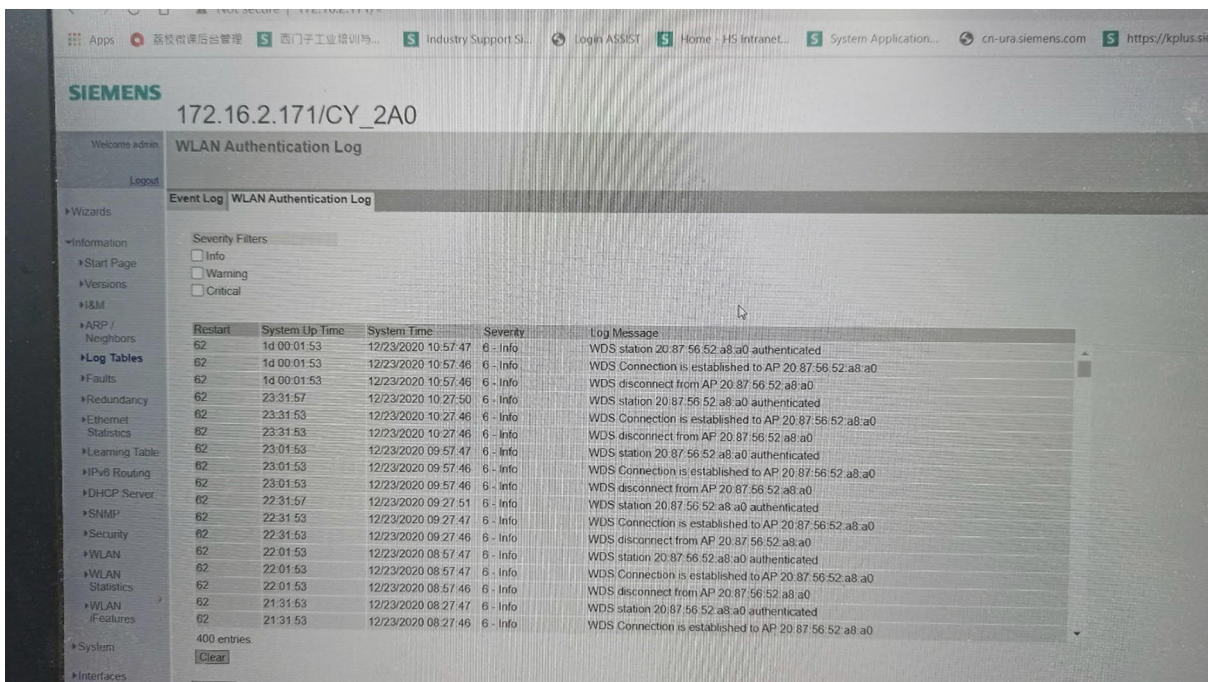
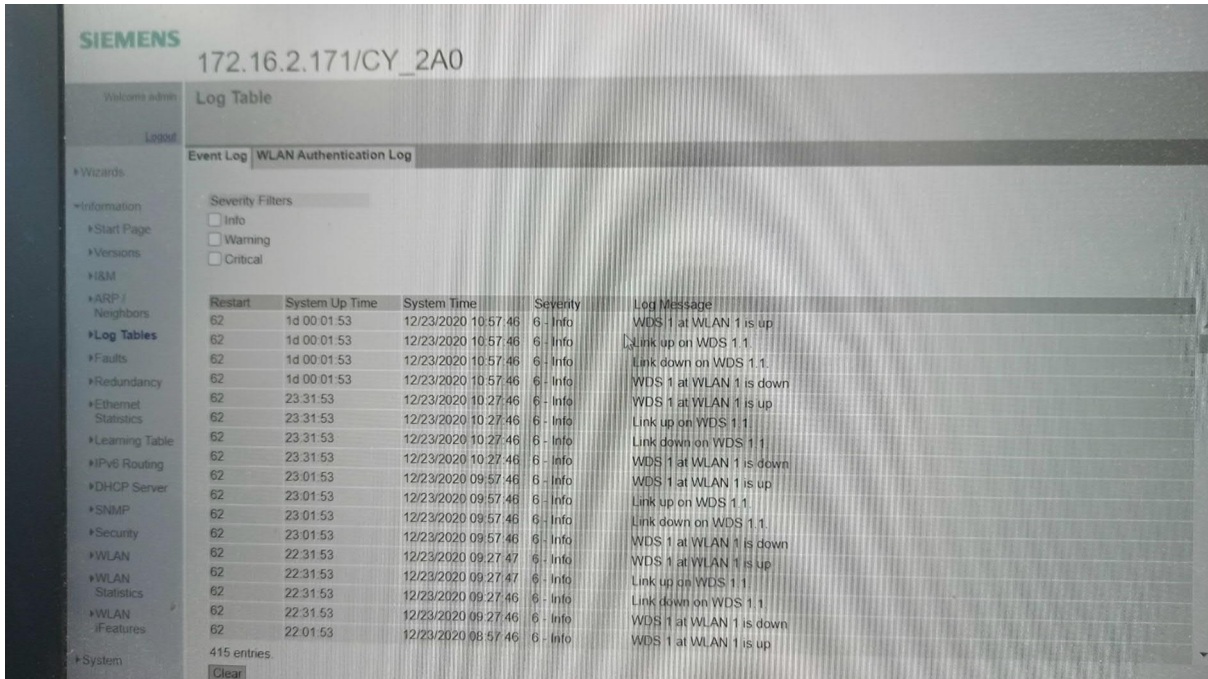
Radio	Port	Port enabled	Connection over	Partner ID Type	Partner MAC	Partner WDS ID
WLAN 1	WDS 1.1	<input checked="" type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	CY_2A0
WLAN 1	WDS 1.2	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.3	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.4	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.5	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.6	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.7	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 1	WDS 1.8	<input type="checkbox"/>	VAP 1.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.1	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.2	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.3	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.4	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.5	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.6	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.7	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	
WLAN 2	WDS 2.8	<input type="checkbox"/>	VAP 2.1	WDS ID	00-00-00-00-00-00	

Set Values Refresh

AP 间的 WDS 是使用 IEEE802.11n; 验证类型: WPA2-PSK; 加密: AES

结果:

Unrestricted



从而会导致 PROFINET 网络中断。

解决方法：

把 WDS 认证方式改成 OPEN System 后问题解决。

或升级到更高版本。