701ServerSQL 轉傳訊息到第二 Server

Event Log Bypass Second Server

範例教學

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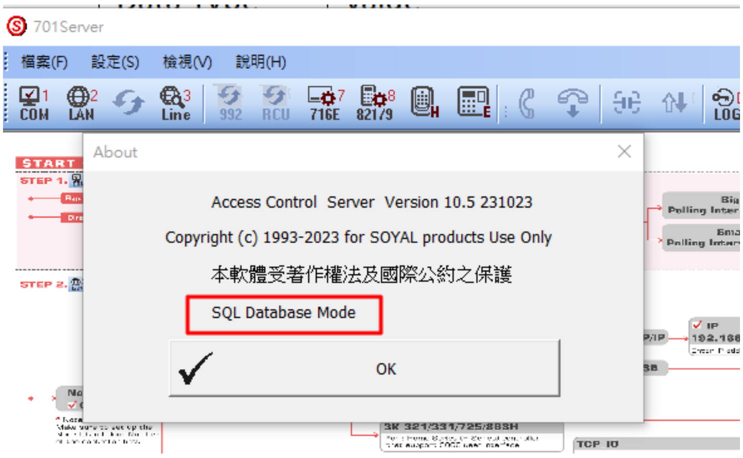
用途:

SOYAL 新版 701ServerSQL 軟體支援將即時的最新記錄轉傳到設定的第二 Server, 等待回傳 Code 0X37（固定回應 Code）後會接著轉傳下一步記錄；此功能常用於考勤系統獲取人員進出紀錄使用，NVR / DVR 系統取得門禁進出記錄後呈現在監視影像上等第三方平台整合應用。

啟用此 Enable event log bypass 功能的步驟主要有三步，請參考如下：

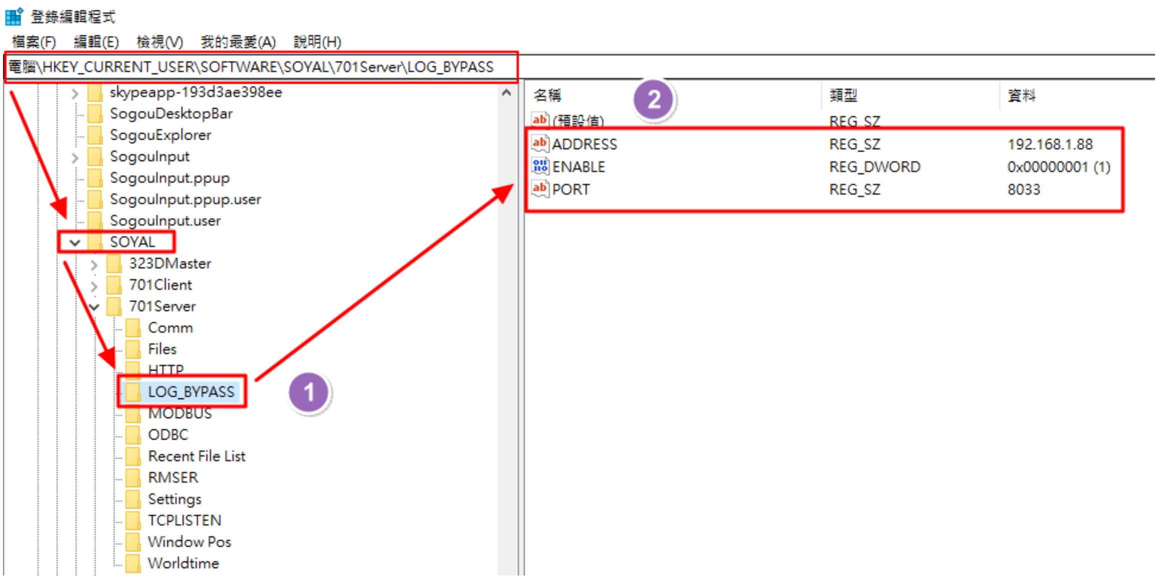
步驟 1： 確保 701Server 必須是 資料庫模式 SQL Database Mode



步驟 2. 在登錄編輯程式 Regedit 里的路徑下 "Computer\HKEY_CURRENT_USER\Software\SOYAL\701Server\LOG_BYPASS" ,

增加如下三個 Key；我們以第二 Server IP ： 192.168.1.88 做範例， Port :8033 做範例；

Key Name	Data Type	Value	
ENABLE	REG_DWORD	1	0: Disable, 1:Enable
ADDRESS	REG_SZ	"192.168.1.88"	Remote Listen IP
PORT	REG_SZ	"8033"	Remote Listen Port



步驟 3. 參數設定完必須從新開啟 701ServerSQL 軟體

我們使用 Packet Sender 模擬測試第二路徑 Server 收到 701ServerSQL 轉傳的即時最新一筆記錄，並回傳回應 Code 0X37：

4. 打開 Packet Sender 測試;

   4-1 在菜單欄選擇 File

   4-2 選擇 Settings, 進入設定頁面

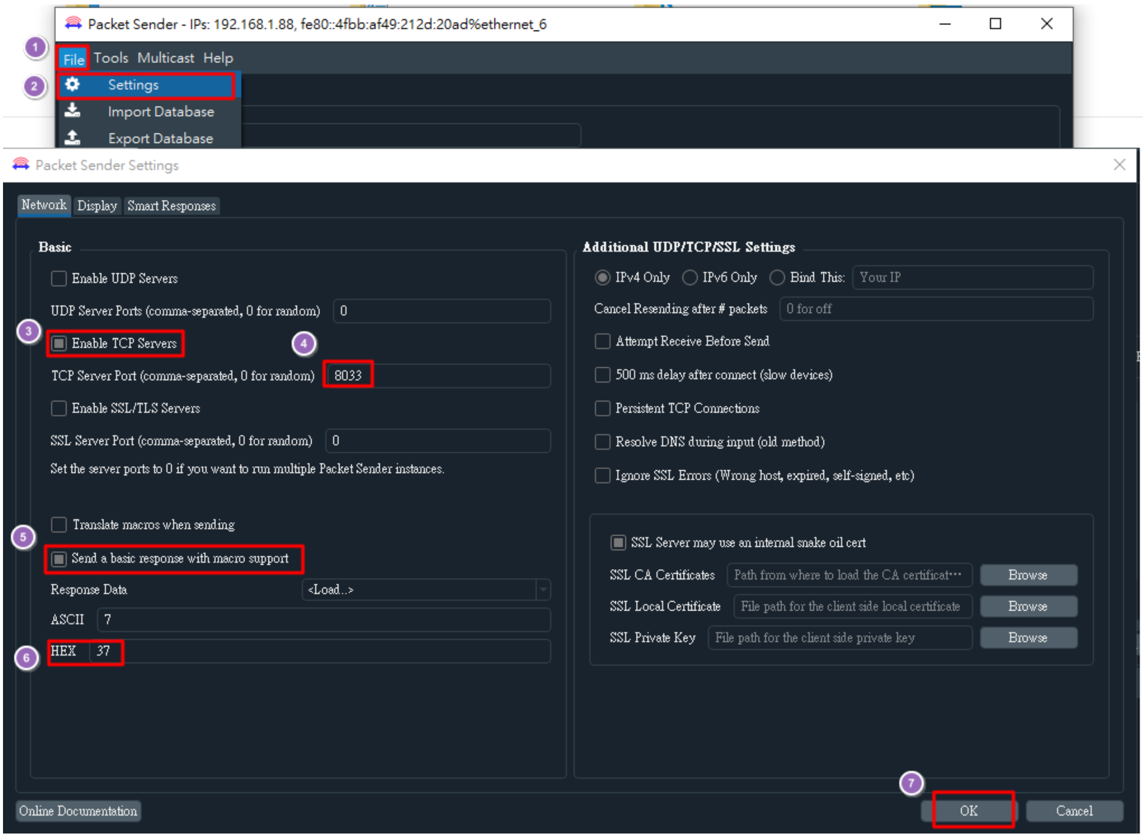
   4-3 點選 Enable TCP Servers

   4-4 輸入 Port 8033

   4-5 點選 Send a basic response

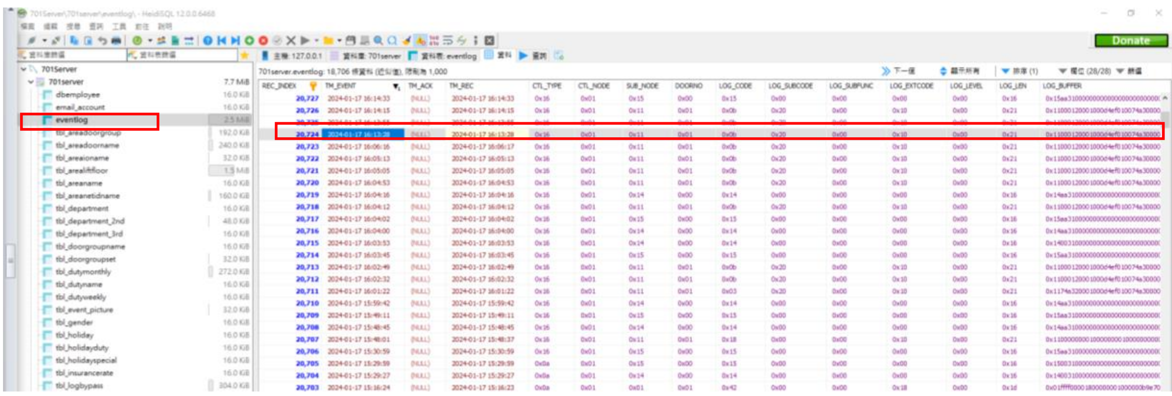
   4-6 輸入回應指令 Hex: 37

   4-7 點擊 Ok 完成設定

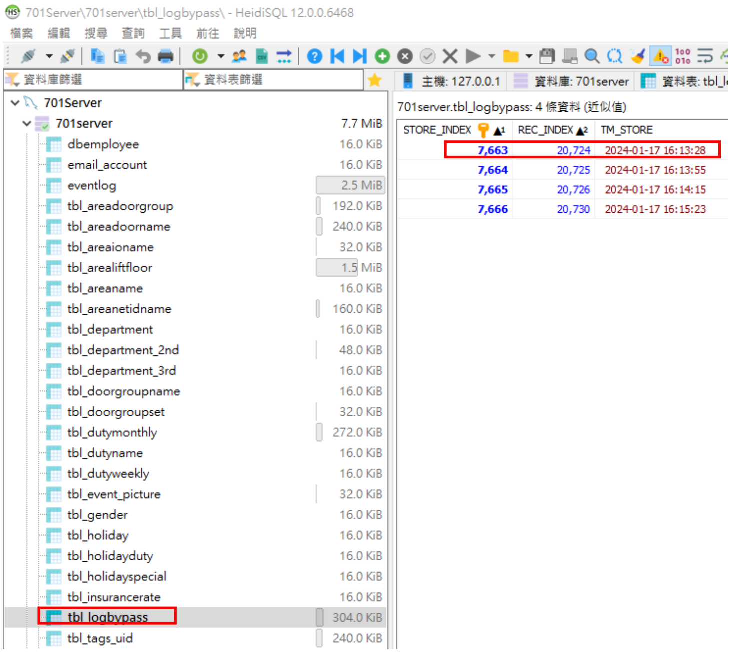


5. 當刷卡的時候, 701Server 軟體會收到此訊息存在資料庫, 顯示在 701Client; 同時會轉傳到指定的第二 server, 我們得到如下的一筆資料訊息, 格式 Hex:

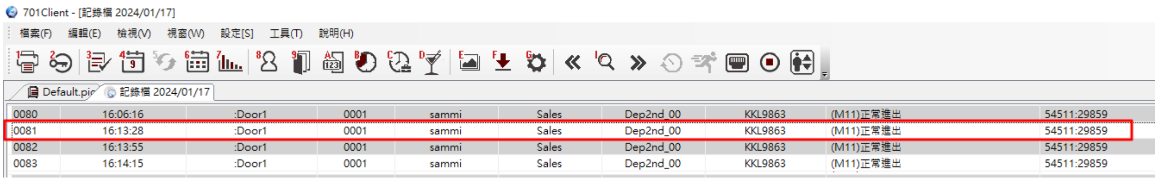
   5.1 刷卡記錄檔存在資料庫的 Eventlog , 如下圖



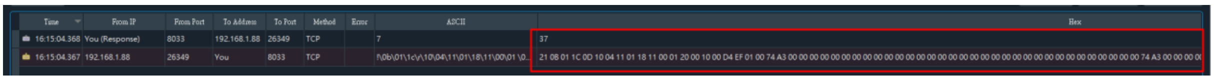
   5.2 同時先存在 LogBypass 做緩衝, 如下圖



5.3 顯示在 701Client 記錄檔



5.4 開啟設定的第二 Server 路徑收到 Log 後需要下指令 0X37 做回應確認，才能繼續收下一筆記錄 （如果 Server 突然關閉，有新 Log 產生，會先暫存在資料庫 LogBypass 裡；等 Server 再次開啟，資料庫 LogBypass 緩衝的 Log 就會傳送到 Server）



一筆訊息檔包括 100 bytes：

21 0B 01 1C 0D 10 04 11 01 18 11 00 01 20 00 10 00 D4 EF 01 00 74 A3 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 74 A3 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 FF 72 71 01 64 01 16

如下解釋主要 Byte 意義，完全訊息檔意義請參考 Protocol 文件關於“訊息檔案的資料結構 Data format of event log”的介紹：

0B ： 0B (Dex)=11(Dec)，表示 M11 : Normal Access 正常進出

01： 站號 Node ID 001

1C 0D 10 04 11 01 18:

1C(Hex)=28(Dec)，0D (Hex)=13(Dec)，10(Hex)=16 (Dec)，04(Hex)=04(Dec)，11(Hex)=17(Dec)，01(Hex)=01(Dec)，18(Hex)=24(Dec)；

表示 28 秒/13 分/16 時/星期三/17 日/1 月/2024 年

00 01：表示用戶位置 User Address 000001， 此範例卡片註冊在用戶位置 1

D4 EF： D4 EF(Hex)=54511 (Dec) 表示卡片組碼 Side Code 54511

74 A3： 74 A3(Hex)=29859 (Dec) 表示卡片卡碼 Card Code 29859

00：傳送的 100 個 Byte 的 TxBfx[92]就是區域 Area Code（一共 16 個區域，範圍為 Area00~Area15）

此範例 00 表示區域 Area00

4. Data format of event log

4.1 Date fields

	Value	Description	
Head	??	Leading Code could be standard format or extended format	
Length	21	Data length can be one or two bytes depend on protocol format.	
Node ID	00	Echo to host	
Function code	27	Event function code. Please reference to “3.2 Function code define table”	
Data 0	??	The source node ID of data package come from (Who send)	
Data 1	??	Second	
Data 2	??	Minute	
Data 3	??	Hour	
Data 4	??	Weekday	
Data 5	??	Day	
Data 6	??	Month	
Data 7	??	Year (Range 00~99, that is mean 2000~2099)	
Data 8	??	Port Number. 17:Main port, 18:Port WG1. 19: Port WG2	
Data 9	??	User address bit 15~08 of normal access. (Tag ID bit 15~08 of invalid card))	
Data 10	??	User address bit 07~00 of normal access. (Tag ID bit 07~00 of invalid card)	
Data 11	Sub Code	Sub message code	
Data 12	Sub Func.	Set bit 7 for force open in alarm event.(function code: 17)	
Data 13	Ext Code	Option byte of event port for normal access.	
Data 14	User level	Bit 5~0 are user level. Set bit 6 for free access event. Set bit7 for multi door controller or set for WG port event at single door controller.	
Data 15	Tag ID	Tag ID bit 31~24 of normal access.	
Data 16	Tag ID	Tag ID bit 23~16 of normal access.	
Data 17	Door Num.	The door number of event port.	
Data 18	??		
Data 19	Tag ID	Tag ID bit 15~08 of normal access.	
Data 20	Tag ID	Tag ID bit 07~00 of normal access.	
Data 21	Value/Tag ID	SOR: Tag deduction amount.	Bit 47~40 of 8 Byte UID

		(Bit 15~08 of deduction access)	
Data 22	Value/Tag ID	SOR: Tag deduction amount. (Bit 07~00 of deduction access)	Bit 39~32 of 8 Byte UID
Data 23	Balance/ Tag ID	SOR: Tag balance. (Bit 15~08 of deduction access)	Bit 63~56 of 8 Byte UID
Data 24	Balance/ Tag ID	SOR: Tag balance. (Bit 07~00 of deduction access)	Bit 48~55 of 8 Byte UID
Data 25	??	User Inputted Code (Bit 31~24) Note1, (Only valid for event code 0x01)	
Data 26	??	User Inputted Code (Bit 23~16) Note1 , (Only valid for event code 0x01)	
Data 27	??	User Inputted Code (Bit 15~8) Note1 , (Only valid for event code 0x01)	
Data 28	??	User Inputted Code (Bit 0~7) Note1 , (Only valid for event code 0x01)	
XOR		XOR	
SUM		SUM	

Note 1: For PIN access event or user press user code before flash tag here will be user input code.For function code 1 , 8, 10, 28, 33 this bytes is user input password value.

Note 2: If the function code is 59(0x3B) or 11(0x0B) and ((Data25<<8)|Data26) is between 0xDDE and 0xF8C and ((Data25<<8)|Data26) = ~((Data27<<8)|Data28) then ((Data25<<8)|Data26) is body temperature.

0xDDE is 35.5 and 0xF8C is 39.8