

SOYAL

SOYAL 701Server XML

Example

Version 1.01

Date 11 May 2021

Introduction: SOYAL support XML command that be used for the 3rd face recognition system to integrate with SOYAL access control system; it support to send face user data by sending XML command and it also support to trigger **Door Relay of Controller by sending XML command through 701Server**

Application1: Sending face user data of XML format by SOYAL 701Software

It is recommended to add the basic user data of user address, card ID, access time zone, door group, name and department; only the face image data is sent via XML command.

SOYAL 701Server XML Command Format: Send User Data

```
<?xml version="1.0" encoding="utf-8"?>
<ExportToSoyal> // Head //
<Count>1</Count> // Total command number //
<Faceltem_0> // Start packet of Face data //
<Name>Soyal</Name> // User name //
<TagID>12229:10401</TagID> // Card ID //
<UserNum>600</UserNum> // User Address //
<Mode>1</Mode> // Access mode 0: Invalid; 1: Card only//
<Dep>RD</Dep> // Department Name //
<Snapshot>/9j/4QVGR .....</Snapshot>
// User Image format JPG, the image data can be obtained after Base64 encryption, and the
size of each image must be less than 100KB // https://www.base64-image.de
</Faceltem_0> // End packet of Face data //
</ExportToSoyal> // End //
```

Example1:

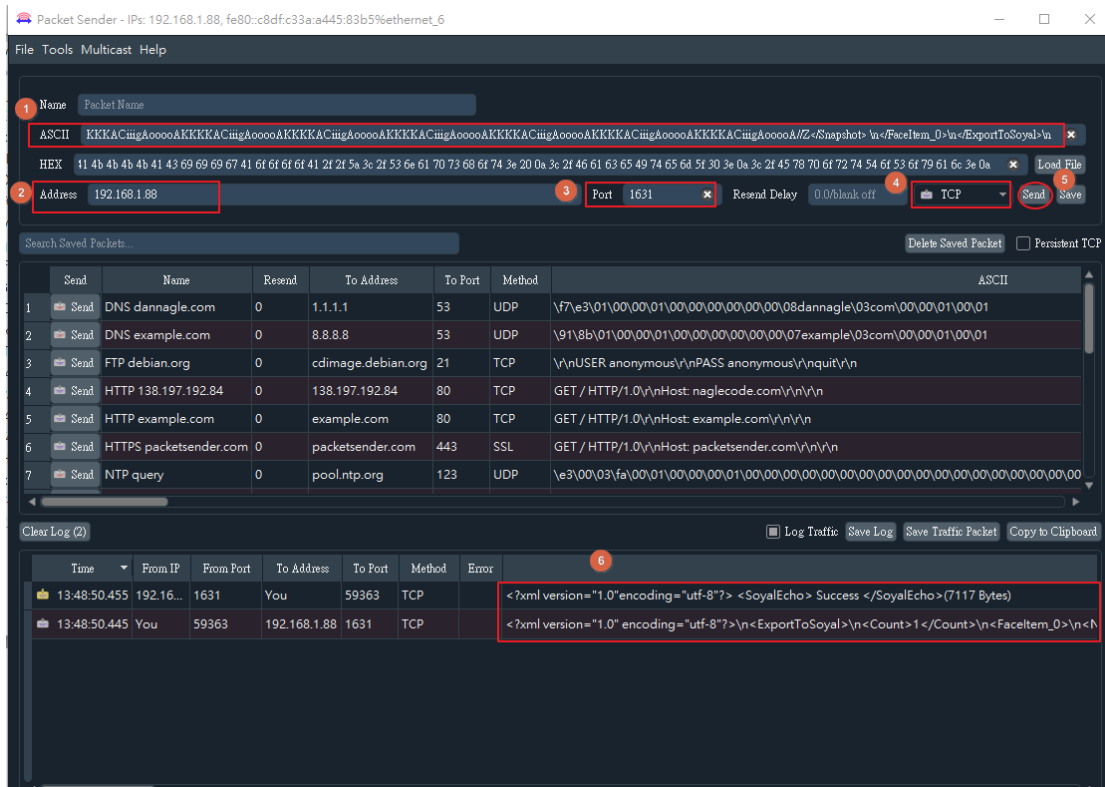
1. Execute 701Server; Select “ TCP/IP Only”, Enter IP Address of the PC and Port Number


Note: Only SQL Base Mode of 701 software support XML function and File Base mode doesn't

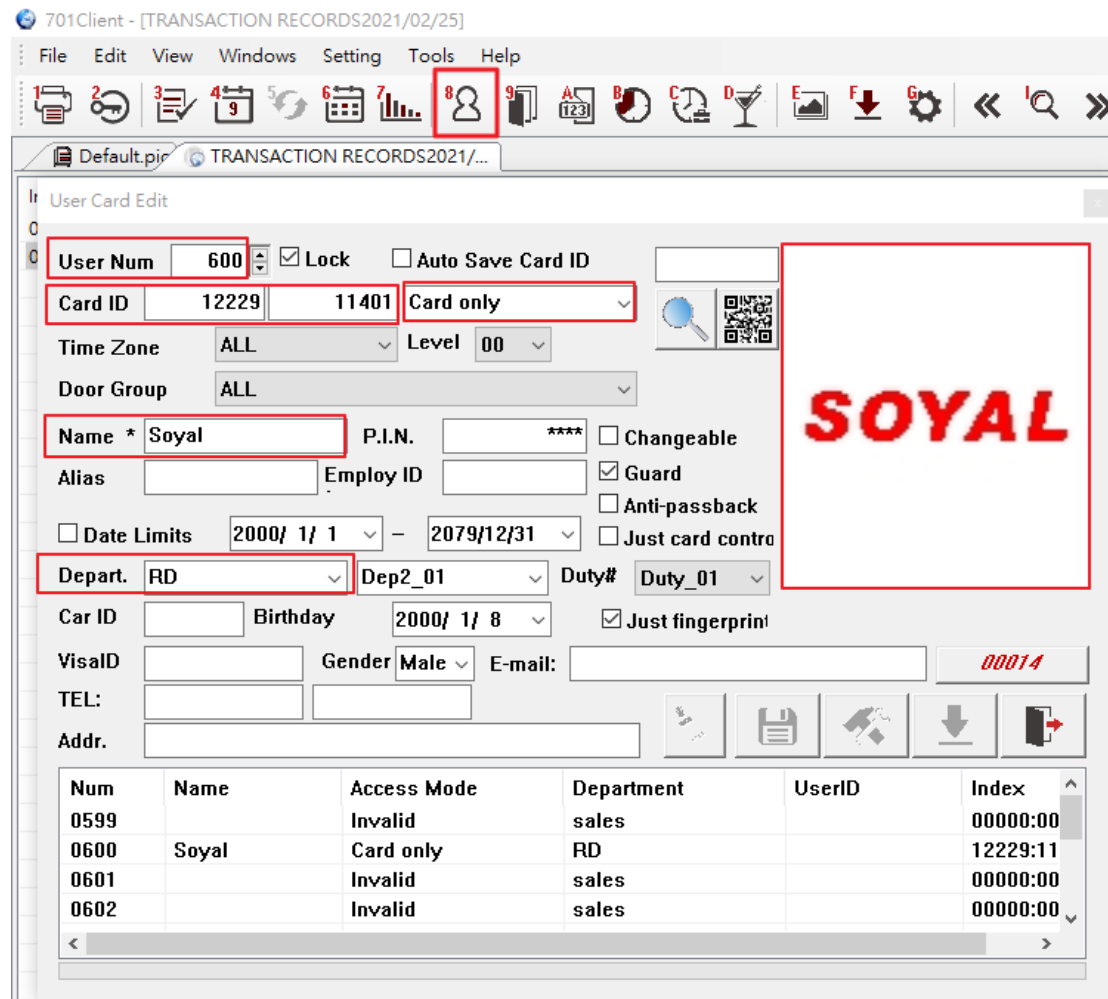
8KeAr7Vvh5pfjDWTl+I9n4o+L/hTwzrXxDI8VHxZ4t0+0+3/wDghV8Jv2vNV+HGftZftW/H39p3x
dB8TtJm8NfBj4TfF/4keK/FXhG5+HF1L4Z8Qx/HA6P4t8S6/qC6t4r1Cxl0P4fXUumeFZbbwVa654
ltG8XeGfid4Z1PSv55v8AgIX+yV8J/wBr7/go/b+FtCi1a/8A2bfhPq3jH47r4d+KieG7rxt4x+E/gTxlP
OnfDfwf420iz8N+JvAXiHVvEOu+Jvh7Y/Frw+LfTfDereEX8f2ug6xZ3jallx/Vt/wWY/bU/wCGOP2
N/Ff/AAiev/2T8bPjj9t+E/wl/s/VfsHiLQ/7WsX/AOE8+JWmf2b4q8L+LdM/4V/4Sluf7C8ZeGv7W
/4RT4p+lvhd/bOmy6Zq0mc+AcwzLMMqfiJxjm2Jnk3AeV1snyrB0cXWdHNcXgaajWzXFP2kY4v
E4h1MPgsO61OcsXilRq1ajnh06vZ9Lfg/gnhDj6P0Nfo3+HmR4bxK+lhx3l3iJ4gcR5nw9l8cy4A4e
4pxv1jLeAMjp/VK9fh3l8oWBzbinOkeXyVdYfh7lQmYYHAYSOFzeccv/n8/4Ldf8Fif2kvHf7XnxK+
HH7LPxb+OHw7+Ef7J2kz+DfHN98HPFvj3wRZ3/ja38V6R4W+JPjfx5deGdL8lazY6TonxG17wz8E
tGxTqviLwuu6Ja634F1aF/irLb6l/SN/wAEiPix8R/jf/wTq/Zs+JHxZ8X6t488e6rpPj/RdX8W6/JFc
67rNn4l+Lfj7wL4dm1rUEiin1jVoPDPPhrR7PUt1NrrXfEN5bTa34h1LVdd1DUdSu/4w/hZ4Z/aG+
G37D/7T/gyX/gnf8Wtd0n9orwl8MvGNj+2J/wrD4tWP/CC/BvwF4s8KfGfVlv7au/B2teCdX+EviS
28G6P4m/tjw9qngKdn/hKPGPiHx9pOheBtO8Hf0jf8G2fj7/hlf2JviV4Gv8Axx/bmrfDv9obxN/Zv
g688R/2nqPgbwJ4t8EeAdY0X7D4emvJ7nwz4S8TeNoPiXqml+RaWWj614ph8c31p9p1aPX5Rze
F3Ema5j4mVMZmuNzCpPivh/NMZPLK/wBfw+CyyF081jWwmCwtLG0qFPFxeS4GgqWJwsKs
VTxc4OvKcMQe5907wT4C4O+g/g+G+AEgeD8Jh/o/eL/AAFw3Q44yp8J5txNx7w/i+AZ5dxDxP
n2N4ZxuaY3h3EcR+JnFOaTx+R57icDVqYnh3D4pZbRw+JyZv4J/wCCjX7Tf7SXjv8A4LN+Cv2TPDv
7Qnxw+B/wjHxD/ZV+BFxY/AP4sePfhpeX+hFfoeBfFPinxhqFrY6/eeGbr4hpP8WNX0jTvED+G/sa
6F4e8lWGo6PqT6TdXGpf2H1/Ah+w/wDtTfszaP8A8FcvIT+2z8Yvidq3wW+EcnxD/ac+MfghNf8
Ah54n8Za74lvPjJqHi/w74b8B61p3w1TxdP4V1a18M/E7VPFWpazDH4i0KK88GzeG47qR9dsNX
g/sP/Zp/wCCj/7GH7YHjvVvhp+zp8Zf+FieNtD8JX/jnVNF/wCFefFbwI9l8LaZrGg6Bfap/aXjnwN4
Z0mfyNW8TaHafYbe/m1GT7b58NpJbW13Nb/YeEvE2WZhjOLswx/EOXrMOI+Lsd/ZGT4nOML
UxqyzDuUsDHB4SpiY4iVKX1mtRowhgqEpww3trThUhyfzh+0K8EON+D+G/o7cHcKeDnGD4P8A
Bf6PHCz8RvEbJPDjPcJwvLjrOIUKHFNBiLiDCZLWyinmFJ5JImY5hicRxLmIDDDYjO/7O9pHsRg8QsR
9wUUUV+8n+TQV+Y3jn/gjT/wAEzPiH4p1Txjr/AOyj4S0/VtY+xfa7TwN4u+J/wv8AC0P9n6daaX
B/Zfgb4aeOPCXgnQ/MtrKGW+/sXw9p/wDaeovd6xqX2vVtQv765/TmivMzPjcmzqFKlnOU5Zm
1KhOVSjTzPAYXHwozkuWU6UMVSqxpzlh3ZSgk2tG7H3HBHib4k+GWLx2P8N/EHjjw+x2Z4enh
MyxnBHFmfcJ4vMMJRqe2pYbHYjlcfgK2Lw9Ks3Vp0cROpThU9+MVLU8m+Cvwl+Df7OfgWw+
GnwM+G3hL4X+CdP8Assv9i+E9Jg0/+1NRtNH0rQP+Eh8S6liTvVfvi290nQ9ItNZ8Y+KL/WPFOv
2fbT63rGoXKecfJf2lv2Ff2SP2wP7Jm/aL+B3hL4iatof2CLS/FXm634S8d2unaZ/bz2Ph7/hYHgbVv
DPjafwIbc+Jtc1L/hDrjX5vC0msXv9tTaPjQ1taXtv9Z0VdbKcqxGBWV4jLMvr5YoRprLq2Cw1XAqE
PggsJOILDqEPsxVO0eiRz5b4hcfZNxXPjvKOOOMmq44qYivi6nGWW8S51geK6mKxKticTPiLC42l
m8sRiE2q9aWMdSqn+8ll+H/2df8Agm3+w/8AsoeKbjxz8CP2evCXhLxtN5P2TxjrGp+LPiH4p8P+
Xp2uaPP/AMId4h+JfiHxhq3gj+1dJ8R6xpfiH/hD7vQ/+EI065isfEH9p21IYRWv3BRRVZflmW5Th1
g8qq/A5ZhFOdRYXL8JQwWHVsbTnNUMNTp0lObSc5KPNJpXbOfi/jfjTxBzmfEfHvF/FHG/ENXD0
MJUz7i/P824lzmphcLFwwuGnmcc4vG46eHw0JSjQoyrunRi3GnGKbR8bfsx/wDBPv8AY8/Y413
xP4p/Zx+Cmk/D3xN4x0mz0DXvEU3iTx4212XQR08OojRdN1f4g+KPFfoaBpN9qC2l9rWm6Bca
ZZ+ILzSdAutdh1Gfw7oT6dkftL8E4P2MP2wPHek/Ev9ov4Nf8ACxPG2h+ErDwNpetf8LD+K3hL7

L4W0zWNe1+x0v8As3wN458M6TP5GreJtcu/t1xYTajJ9t8ia7ktra0ht/uCiuN8OcPPLY5M8hyV5
 RGp7aOVpK8C8tjVc5VHVjgXQ+qqp7SUqnOqSlzylK/M2z6SHjT4x0+NK3iRT8WfEyn4iYjBrLq/Hs
 OO+KYcaV8vjhqWDWBrcUxvZV5UwawlCjhVhp46VBjYajSoKHsqclrzX/hP8OPEvwn1r4F6j4QO
 m2+Eev8Aw81L4T33gLQl5fCmhQfDjVfDc3g+68laLF4WI0efw1pMXhmd9G02Pw7PpUuj2awrp
 Eti9tbvF4f+y7+w1+y1+xf/AMJz/wAM0/C7/hW3/Cyf+EZ/4TX/AIrb4i+Mf7a/4Q7/AISD/hHP+R+
 8XeKf7O/s7/hKde/5BP2D7Z9v/wBP+1fZbP7P9Z0V1zyrLkMmWmYVMuWfTH5fTqUcBjp4PDyx
 mCpVYSpVaWExMqbrYanUpTnTqQozhGcJyhJOMmn8/huPeOcfw5xDwfg+NOLMJwlxdjMjMpF
 fC2G4izihw5xPmGAXVDHYHhcQ5JSxkMszrGYPG4bDYzCYnMsLia+HxWHOYijOFWITnH8mf+HG
 n/BLT/o17/zNn7RP/wA9uVp39mP/AIJ9/sefsca74n8U/s4/BTSfh74m8Y6TZ6Br3iKbxJ448ba7LoV
 neHURoum6v8QfFHivUNA0m+1BbS+1rTdAuNMs/EF5pOgXWuw6jP4d0J9O+yaK8zB8IcJ5dia
 WNy/hfh3A4yg3KHi8HkuW4XE0ZSjKEpUq9DDQq03KEpQbhOLcZSi9G0/t+JPpFfSC4yyTH8M8X
 +OvjHxVw3mtOnRzTh/iTxO42zzJMyUa9LFUqWPyrNM7xWAXlOliaFDEU4YjD1lwr0aVaKVSnC
 SKKKK+iPwxKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKK
 ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z</Snapshot>
 </Faceltem_0>
 </ExportToSoyal>

- 2-2 Enter "TCP/IP Address"
- 2-3 Enter Port Number
- 2-4 Select "TCP"
- 2-5 Click "Send"
- 2-6 Check Echo and Success means the command is sent successfully



3. Execute **701Client**, click icon  to enter user card setting window, find User Num600, we will find Card ID ,Access Mode, Name, Dept1 and image has been successfully sent to 701Client from the 3rd party system.



Application2: Trigger Door Relay of Controller by sending XML command through 701Server

SOYAL 701Server XML Command Format:: Set Controller Output State:

```
<?xml version="1.0" encoding="utf-8"?> //fixed value of XLM head format//
<SoyalXML> // Head //
<Count>1</Count> // Total command number//
<Command_0> // Command set number //
<CmdCode >1004</CmdCode > // Command Code (Please Reference JSON Command) //
<Area>0</Area> // Area Code //
<StartNode>1</StartNode> // Controller Node ID of this Area //
```

```
<StartPp>256</StartPp> // Controller IO Mapping Table //  
<State>1</State> // 0: For Off 開啟 1: ForOn //  
<Value>1</Value> // 0: For Latch(default) 1:For Pulse //  
</Command_0 > // The last packet data no //  
</SoyalXML> // End //
```

**Example2: Test Trigger Door Relay Pulse on of 837-E Node ID 001;
We use Packet Send to test the command**

1-1 Enter the command on ASCII Filed or load command by Load File

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<SoyalXML>
```

```
<Count>1</Count>
```

```
<Command_0>
```

```
<CmdCode >1004</CmdCode >
```

```
<Area>0</Area>
```

```
<StartNode>1</StartNode>
```

```
<StartPp>256</StartPp>
```

```
<State>1</State>
```

```
<Value>1</Value>
```

```
</Command_0 >
```

```
</SoyalXML>
```

1-2 Enter "TCP/IP Address"

1-3 Enter Port Number

1-4 Select "TCP"

1-5 Click "Send"

1-6 Check Echo and Success means the command is sent successfully

