INGICS

iGS01S Remote Control Server Design

Mar, 2018
rev. 1

Application

iGS01S

iGS01S

iGS01S

HTTP/MQTT

Data/Application Server

Administration

Admin Server (RCHOST)

Admin Client (PC)

TCP Port 5000

TCP Port 5001
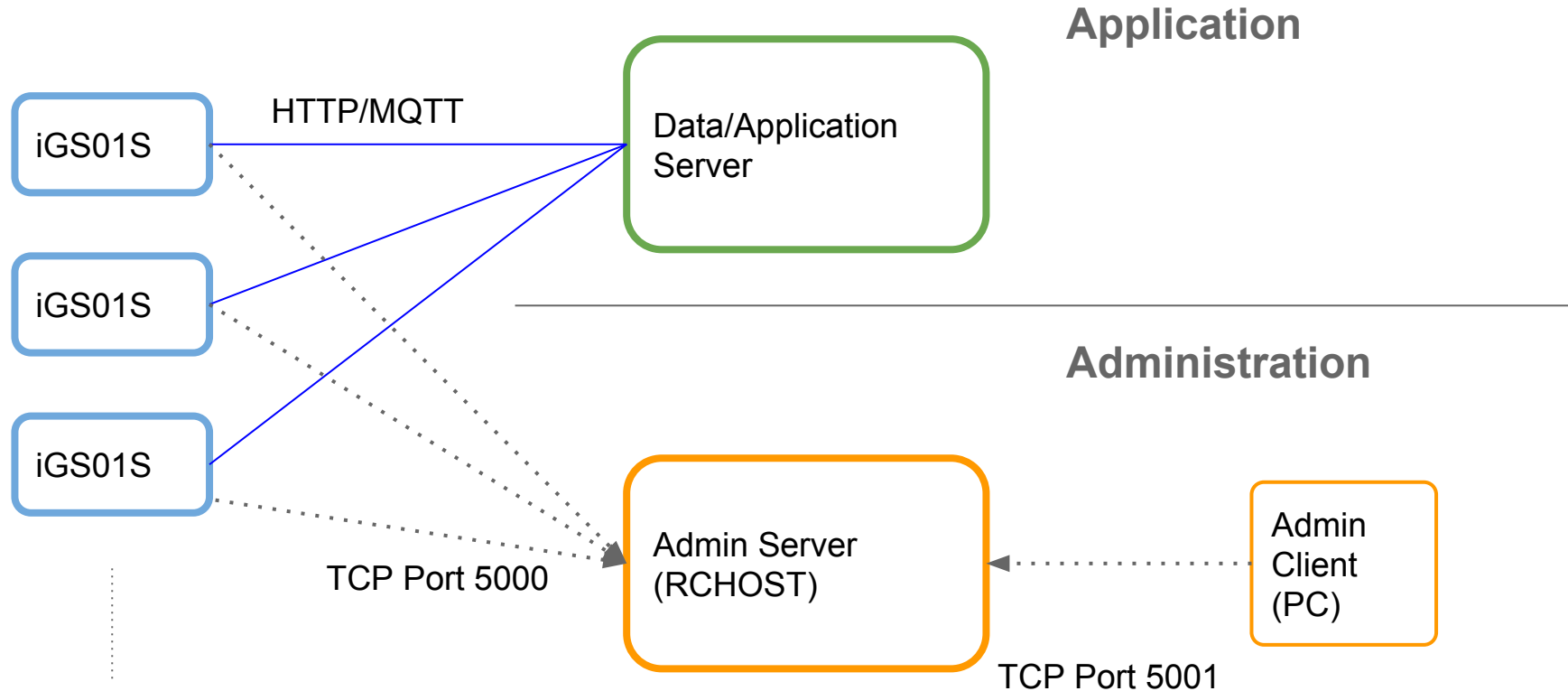
- iGS01S connect to assigned Admin Server

- List connection from iGS01S
- Issue command to iGS01S

- iGS01S can be configured to connect to assigned administration server through TCP connection with RCHOST RCPORT setting

- The Administration Server should accept connection from iGS01S and decide its own authentication policy if required

- The Administration Server can issue command to iGS01S through created connection

- An example Administration Server implementation is provided as reference purpose

```
→ @itrs-ideapad  ~  nc 192.168.1.20 5001
[2018-02-28T23:41:15+08:00][ADMIN CONN] ::ffff:192.168.1.11
ls
[2018-02-28T23:41:17+08:00][ADMIN] ls
[2018-02-28T23:41:17+08:00][SESS][1142][442C058065F2] 5 days, 09:00:50 trace: 1 0 0 0 0 0 0x00 (0 days, 0:00:03)        IGS02E-v0.5.0  --
::ffff:220.133.186.239
[2018-02-28T23:41:17+08:00][SESS][1143][B0382942D317] 5 days, 09:00:40 trace: 1 0 0 0 0 0 0x00 (0 days, 0:00:00)        IGS01S-v0.9.0  --
::ffff:220.133.186.239
[2018-02-28T23:41:17+08:00][SESS][1159][B0382942D312] 1 days, 14:24:59 trace: 9 0 0 0 0 0 0x00 (18 days, 16:45:48)      IGS01S-v0.9.0  --
::ffff:220.133.186.239
[2018-02-28T23:41:17+08:00][SESS][1168][B0382942D273] 0 days, 06:16:20 trace: 27 0 0 0 0 0 0x00 (26 days, 2:27:58)      IGS01S-v0.9.0  --
::ffff:220.133.186.239
[2018-02-28T23:41:17+08:00][SESS][1169][B0382942D311] 0 days, 00:51:05 trace: 4 0 0 0 0 0 0x00 (5 days, 8:07:17)        IGS01S-v0.9.0  --
::ffff:220.133.186.239
[2018-02-28T23:41:17+08:00][SESS][1170][B0382942D201] 0 days, 00:47:15 trace: 5 0 0 0 0 0 0x00 (5 days, 8:08:55)        IGS01S-v0.9.0  --
::ffff:220.133.186.239
CMD 1142 SYS
[2018-02-28T23:41:46+08:00][ADMIN] CMD 1142 SYS
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] FIRMWARE_VERSION=IGS02E-v0.5.0
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] SDK_VERSION=Wiced_006.000.001.0005
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] WLAN_VERSION=wl0: Oct 23 2017 03:55:41 version 7.45.98.38 (r674442 CY) FWID 01-66
08a59b
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] WIFI_MAC=44:2C:05:80:65:F2
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] BLE_MAC=442C058065F3
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] IP=192.168.1.100 255.255.255.0 192.168.1.1
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2]
[2018-02-28T23:41:46+08:00][MGS LINE][1142][442C058065F2] RESULT:0

CMDALL SYS
[2018-02-28T23:41:57+08:00][ADMIN] CMDALL SYS
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] FIRMWARE_VERSION=IGS02E-v0.5.0
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] SDK_VERSION=Wiced_006.000.001.0005
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] WLAN_VERSION=wl0: Oct 23 2017 03:55:41 version 7.45.98.38 (r674442 CY) FWID 01-66
08a59b
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] WIFI_MAC=44:2C:05:80:65:F2
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] BLE_MAC=442C058065F3
[2018-02-28T23:41:57+08:00][MGS LINE][1142][442C058065F2] IP=192.168.1.100 255.255.255.0 192.168.1.1
```

VER	DATE	CHANGES	NOTE
1	Mar, 2018	Initial release	