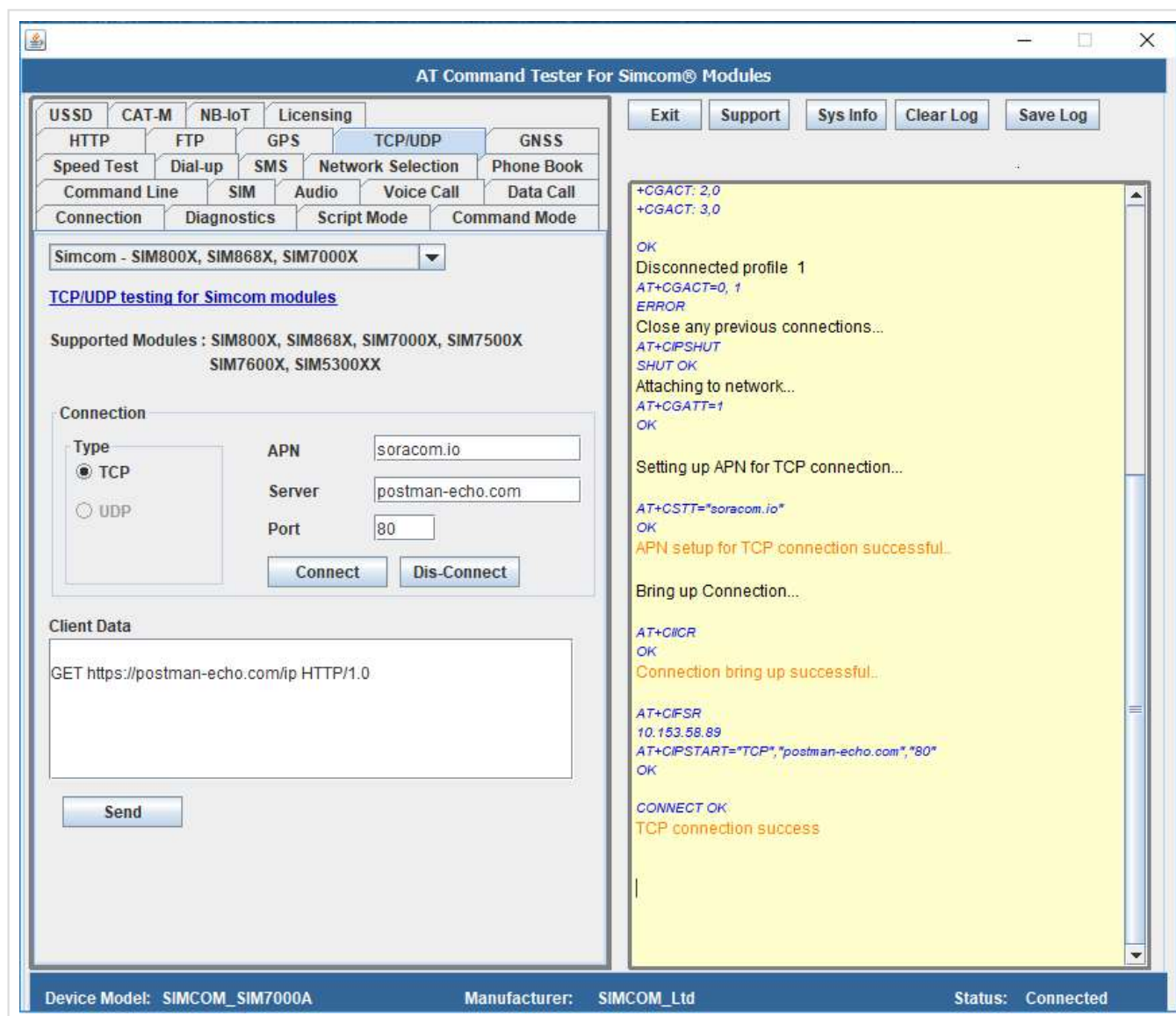


TCP/IP testing with Simcom SIM7000, SIM800 and SIM53XX Modules

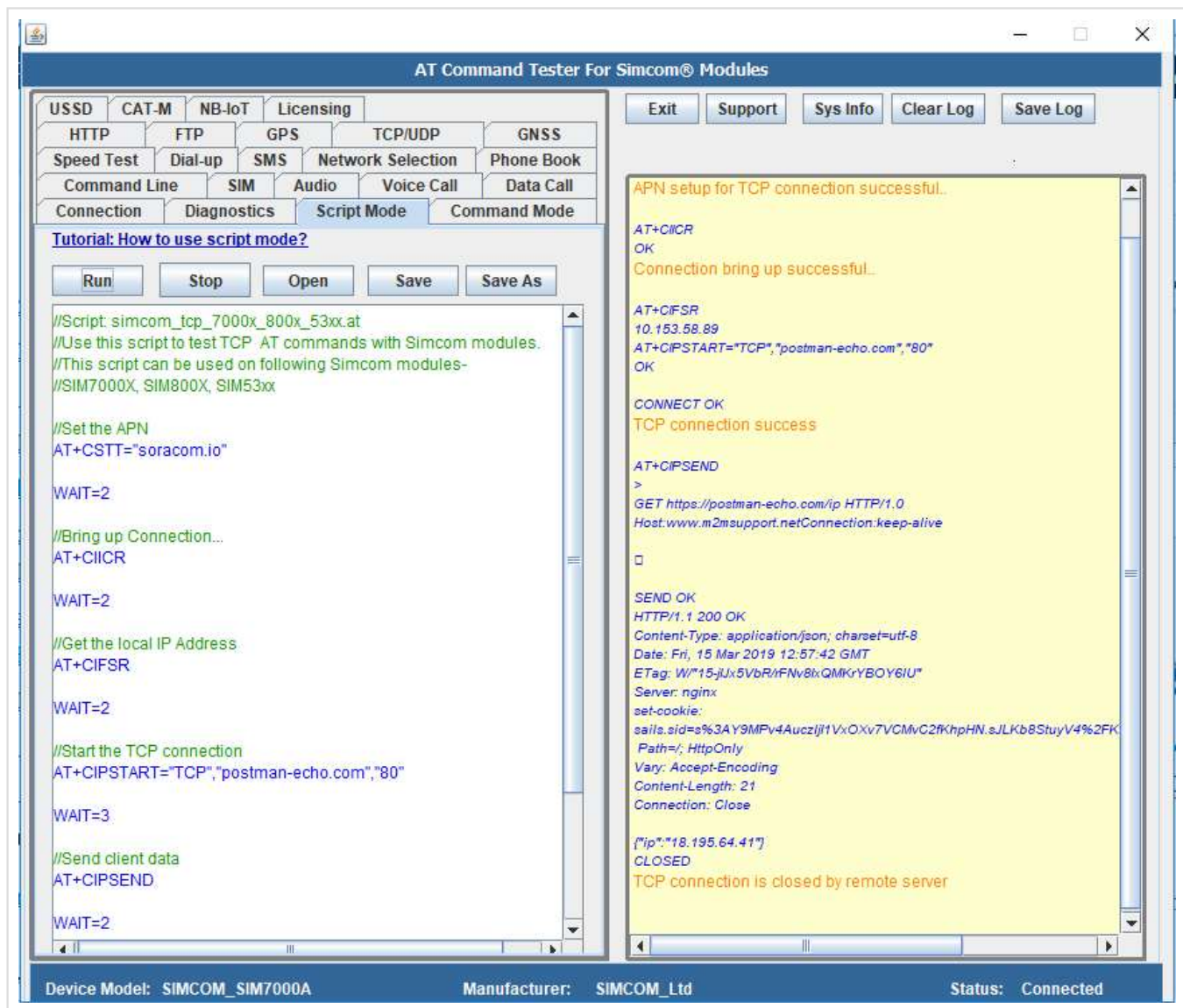
Steps to test TCP/IP with SIM7000, SIM800 and SIM53XX Modules

- Verify that the device is registered with the network provider
- Set up the APN using the AT+CSTT command
- Get the local IP address with AT+CIFSR command
- Bring up the wireless connection using the AT+CIICR command
- Start the TCP connection with AT+CIPSTART command
- Once TCP connection has been successfully established, send data using the AT+CIPSEND command.

[AT Command Tester](#) Tool provides an interface to test the TCP connection with the Simcom modules. Enter the APN information. Use the default server/port or enter the server you want to connect.



TCP function can also be tested with script mode in the [AT Command Tester](#) tool.



Try the script in [AT Command Tester](#) tool.

```
//Script: simcom_tcp_7000x_800x_53xx.at
//Use this script to test TCP AT commands with Simcom modules.
//This script can be used on following Simcom modules-
//SIM7000X, SIM800X, SIM53xx

//Set the APN
AT+CSTT="soracom.io"

WAIT=2

//Bring up Connection...
AT+CIICR

WAIT=2
```

```
//Get the local IP Address
AT+CIFSR

WAIT=2

//Start the TCP connection
AT+CIPSTART="TCP","postman-echo.com","80"

WAIT=3

//Send client data
AT+CIPSEND

WAIT=2

//Send the HTTP formatted data
<cr><lf>GET https://postman-echo.com/ip HTTP/1.0<cr><lf>Host:www.m2msupport.netConnection:keep-alive<cr>

//Send the CTRL+Z character
^z
```

Output of the script in the [AT Command Tester](#) tool.

```
AT+CSTT="soracom.io"
OK
APN setup for TCP connection successful..

AT+CIICR
OK
Connection bring up successful..

AT+CIFSR
10.153.58.89
AT+CIPSTART="TCP","postman-echo.com","80"
OK

CONNECT OK
TCP connection success

AT+CIPSEND
>
GET https://postman-echo.com/ip HTTP/1.0
Host:www.m2msupport.netConnection:keep-alive
```

SEND OK
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
Date: Fri, 15 Mar 2019 12:57:42 GMT
ETag: W/"15-jlJx5VbR/rFNv8IxQMKrYBOY6IU"
Server: nginx
set-cookie: sails.sid=s%3AY9MPv4AuczJl1VxOXv7VCMvC2fKhpHN.sJLKb8StuyV4%2FKfr2utFlvTfIFtMdAgM3anC
Vary: Accept-Encoding
Content-Length: 21
Connection: Close

{"ip":"18.195.64.41"}
CLOSED
TCP connection is closed by remote server

SIM7000A - Set up TCP/IP Conenction



Keywords: Module , M2M , GPRS , 3G , through AT commands,