

CONNECTED-IO SCRIPT USAGE GUIDE

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Script Usage Guide

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1. "at.sh" – sends at command to the modem and returns a response.

Usage:

```
# ./at.sh <AT command>
```

Note: please set executable permissions to “at.sh”

Example:

```
# chmod 755 at.sh
```

2. StartDataCAT1.sh – starts a data connection on the modem and configures local system network (IP, route, arp).

Usage:

```
# ./StartDataCAT1.sh
```

Note: please set executable permissions to “StartDataCAT1.sh”

Example:

```
# chmod 755 StartDataCAT1.sh
```

3. StartDataCAT1.sh script overview:

NOTE: Do not copy and paste the code below as it's not guaranteed to function correctly. Instead use the actual sh script that is provided in the folder with this guide.

```
# Check which module is in use

LE910NA1=`./at.sh at+cgmm | grep 'LE910-NA1`
LE910SV1=`./at.sh at+cgmm | grep 'LE910-SV1`

if [ -n "$LE910NA1" ]; then
    echo "NA1 module Detected"
    # use Profile 1 if NA1 module is detected

PDP='1'

elif [ -n "$LE910SV1" ]; then
    echo "SV1(Verizon) module Detected"
    # use Profile 3 if SV1(Verizon) module is detected

PDP='3'

else
```

```
    echo "No module Detected"

fi

# Activate NCM driver

./at.sh "at#ncm=1,$PDP"

# sleep 1 second giving the modem time to response

sleep 1

# Activate PDP context

./at.sh "at+cgact=1,$PDP"

sleep 1

# Activate data connection

./at.sh "at+cgdata=\"M-Raw_IP\",$PDP"

sleep 1

# Assign IP address received from the modem to a variable

IPAddr=`./at.sh at+cgpaddr=$PDP | grep '+CGPADDR:' | cut -d" " -f2 | cut -d\" -f2`

# Assign Default Gateway received from the modem to a variable

GW=`./at.sh at+cgcontrdp=$PDP | grep '+CGCONTRDP:' | cut -d" " -f2 | cut -d, -f5 | cut -d\" -f2`

# Assign DNS received from the modem to a variable

DNS=`./at.sh at+cgcontrdp=$PDP | grep '+CGCONTRDP:' | cut -d" " -f2 | cut -d, -f6 | cut -d\" -f2`

# Configure modem's network interface with the IP address

sudo ifconfig usb0 $IPAddr

# Run "dmesg" command to identify the name of the modem's network interface on the system
and insert in place of "usb0" in the previous line, if needed.

sleep 2

# Configure default Gateway

sudo route add default gw $GW

sleep 2

# Configure ARP

sudo arp -s $GW 00:00:11:12:13:14
```

