

Western DataCom MobileCom™ 104

Application Note

Activation on the Verizon Network

Reference: MBCOM_US5A25_VZW
Revision: A.3
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1 Overview

This document describes in detail all steps required to activate a MobileCom™ CDMA modem on the Verizon network. The procedures described below assume that the modem has already been properly provisioned for the Verizon network.

2 Accessing MobileCom via Telnet

To access the MobileCom™ using Telnet from the MAR console port perform the following steps:

2.1 Enter configuration Mode

```
Router# config t
```

Enter configuration commands, one per line. End with CNTL^Z.

2.2 Configure Serial Interface

```
Router(config-if)# interface serial 1/2
```

```
Router(config-if)# physical-layer async
```

```
Router(config-if)# no ip address
```

```
Router(config-if)# encapsulation ppp
```

```
Router(config-if)# dialer in-band
```

```
Router(config-if)# async mode interactive
```

2.3 Configure the line

```
Router(config-if)# line 3
```

```
Router(config-line)# exec-timeout 0 5
```

```
Router(config-line)# modem inout
```

```
Router(config-line)# no exec
```

```
Router(config-line)# transport preferred all
```

```
Router(config-line)# transport input all
```

```
Router(config-line)# transport output all
```

```
Router(config-line)# stopbits 1
```

```
Router(config-line)# speed 115200
```

```
Router(config-line)# flowcontrol hardware
```

2.4 Create loopback address

```
Router(config)# interface loopback 0
```

```
Router(config-int)# ip address 10.10.1.5 255.255.255.255
```

```
Router(config0int)# end
```

```
Router# copy run start
```

2.5 Initiating the telnet session

With a console cable connected to the MAR and a Hyperterminal or equivalent session started enter the following commands to access the MobileCom™

```
Router# telnet 10.10.1.5 2003  
Trying 10.10.1.5, 2003 ... Open
```

```
AT <cr> (depending on configuration this may not be echoed back to screen)  
OK
```

```
ATE1 <cr> (Turns local echo on)  
OK
```

```
AT+GSN <cr> (queries MobileCom for ESN; electronic serial number)  
+GSN: F60C4E48
```

```
AT+CSQ <cr> (check signal strength 0-31 with 31 being strongest)  
112, 12, 99
```

With access to the MobileCom™ established follow the necessary steps for activation.

3 Activation on the Verizon Network

To activate the MobileCom™ on the Verizon network, follow the steps described below:

3.1 Obtain Activation Parameters

In order to setup an account you will need the ESN (Electronic Serial Number) of the MobileCom. The ESN is visible on the outside of the MobileCom on a white label with black text or via modem query using the AT+GSN command from HyperTerminal.

Once you have the ESN you will need to set up an account with Verizon.

You can visit your local Verizon store or

For a business account, you can do this online by going to this site:

https://www22.verizon.com/foryourbusiness/order/new_connect_welcome/welcome.asp

Or you can call customer care and do it over the phone. You can find the local phone number for your area by going to this site-

<http://www22.verizon.com/ForYourBusiness/common/utilities/contactUsPhone.asp>

For a residential account, you can do this online by going to this site:

<https://www22.verizon.com/ForYourHome/NewConnect/OrderWelcome.asp>

You can find the local phone number to set up a residential account by going to the following site:

http://www22.verizon.com/foryourhome/ContactUs/Contactus_phone.asp

3.2 Activation by AT command

Follow the procedure described below:

1. Connect to the modem using the Telnet access explained above.
2. Use the command **ATD*22899;** (include the semi-colon ";" after the dial string, otherwise you will make a circuit data call). This will start your OTASP (Over-The-Air, Service Provisioning) session.
3. The following messages are displayed:
 - + WOT1: "Programming in Progress"
 - + WOTS: "SPL unlocked"
 - + WOTP: "PRL download OK"
 - +WOTM: "MDM download OK"
 - +WOTC: "Commit successful"
 - +WOT2: "Programming Successful"

3.3 Activation Test

In order to ensure activation a data call can be established with the Verizon Network. To test use the existing Telnet session to dial the call, type ATD#777 this will initiate the call. After entering the command you should receive a CONNECT followed by garbage streaming to the screen. This garbage is the PPP negotiation traffic from the Verizon network indicating your modem is active and ready for use.

Western DataCom Technical Support is available to support you in your activation efforts with the various carriers as well as configuration of the Cisco Mobile Access Router. Our office hours are Monday through Friday 9:00 AM to 6:00PM EST and we can be reached at:

Toll Free: 800-262-3311
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