

# Release Note for Netgear Router Debugging Tool: Thin Client

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# Contents

1 Revision History .....	3
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# 1 Revision History

## 1.1 Release 1.0-alpha

### 1.1.1 Features

1. Simple Telnet Client.
2. Open source component: telnetenable
3. Script Parser: class CSHScript
4. Netgear DUT Scanner: class CNetgearDUT
5. GUI
6. Can Run system and advance script, wan port debugging script will be perfected.

### 1.1.2 Known issues

1. What content the “/debuginfo.htm” page will contain?
2. telnetenable source code has some problem:
3. File: telnetenable.c, Line 112
4. File: telnetenable.c, Line 123 and 124
5. telnetenable argument issue: What format of the MAC address, \*\*-\*\_\*\_\*\_\*\_\*\_\*\_\*\_\* or \*\*:\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*?\*
6. When the router received the telnetenable command, does it send back a confirm package to client?
7. The data returned from server is not processed.

## 1.2 Release 1.0-beta

### 1.2.1 Features

1. Simple Telnet Client
2. Open source component: Telnet Enable
3. Script Parser: class CSHScript
4. Netgear DUT Scanner: class CNetgearDUT, search the router and get its address
5. GUI
6. TFTP Server and Client
7. System Debugging: OK
8. Advanced Debugging: OK
9. WAN Porting Debugging: Ready but Not test

### 1.2.2 Known issues

1. the command “tcpdump” and “wan\_debug” not implement in the router

### 1.2.3 Note:

1. Thin Client search the Router, and get its IP and Mac address. And then get the net page “/debuginfo.htm”, parses it to gain the router woke mode and product name for format the log save path. Most important, we send a TCP packet to router’s telnet server on port 23 to enable the telnet.
2. After all of these works done, user could click the “Start” to run the script debugging.
3. Thin Client could generate some running status log in directory “./Logs”(exist when the directory exist).

### 1.3 Release 1.0

#### 1.3.1 Features

1. Simple Telnet Client
2. Open source component: Telnet Enable
3. Script Parser: class CSHScript
4. Netgear DUT Scanner: class CNetgearDUT, search the router and get its address
5. GUI
6. TFTP Server and Client
7. System Debugging: OK
8. Advanced Debugging: OK
9. WAN Porting Debugging: OK
10. Raw Data(WAN Porting debugging Data) Translator: OK

#### 1.3.2 Note

1. When system has more than one interface (not include the loopback interface), and the interface which the router attached to not gains its address by DHCP, the Tool will not get the DNS correctly. So we must let the interface the router attached to gains its address by DHCP, or disable other interfaces.
2. In the WAN Porting Debugging Mode, when user click the “Stop” button, we will call a program released by this tool to translate the raw package data(saved use a suffix “.org”) to Ethereal libpcap file format(use a suffix “.cap”).

### 1.4 Release 1.1

#### 1.4.1 Features

1. Simple Telnet Client
2. Open source component: Telnet Enable
3. Script Parser: class CSHScript
4. Netgear DUT Scanner: class CNetgearDUT, search the router and get its address
5. GUI
6. TFTP Server and Client
7. System Debugging: OK
8. Advanced Debugging: OK
9. WAN Porting Debugging: OK
10. Raw Data(WAN Porting debugging Data) Translator: OK

#### 1.4.2 Fixed Bugs

1. When we run debugging on any mode and user remove the router from the network, the Tool will stop automatically after a prompt.
2. [Vista system]Start to run the Tool, and you will see a prompt always pop up, therefore we can't work.

## 1.5 Release 1.2

### 1.5.1 Features

1. Simple Telnet Client
2. Open source component: Telnet Enable
3. Script Parser: class CSHScript
4. Netgear DUT Scanner: class CNetgearDUT, search the router and get its address
5. GUI
6. TFTP Server and Client(Client doesn't work)
7. System Debugging: OK
8. Advanced Debugging: OK
9. WAN Porting Debugging: OK
10. Raw Data(WAN Porting debugging Data) Translator: OK

### 1.5.2 Fixed Bugs

1. GUI display abnormal when setup the system DPI to other, eg. 120 DPI, default is 96.
2. Add only one instance control, that is, if user has opened a Thin Client Tool instance, user is not allowed to open another instance any more.