

Product: DataScout 1G**Version:** 5.05.07**Release Date:** 10/8/15

Release Details:

Product Family:	DataScout
Model:	DataScout 1G
Software Version:	5.05.07
Availability:	General Release

Quick Reference:

1. [Component Versions](#)
2. [Features and Enhancements](#)
3. [Issues Addressed](#)
4. [Known Issues](#)
5. [Software Update Instructions](#)

Contact Information:

If you have questions or encounter issues while applying this software update please contact Greenlee Communications Technical Support using any of the methods below:

Phone:

Phone: 800- 642-2155

Email:

communicationtechsupport@greenlee.textron.com

Mail:

Greenlee Communications
1390 Aspen Way
Vista, CA 92081

Product: DataScout 1G

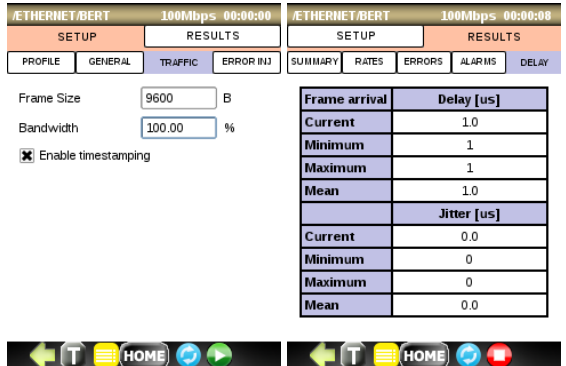
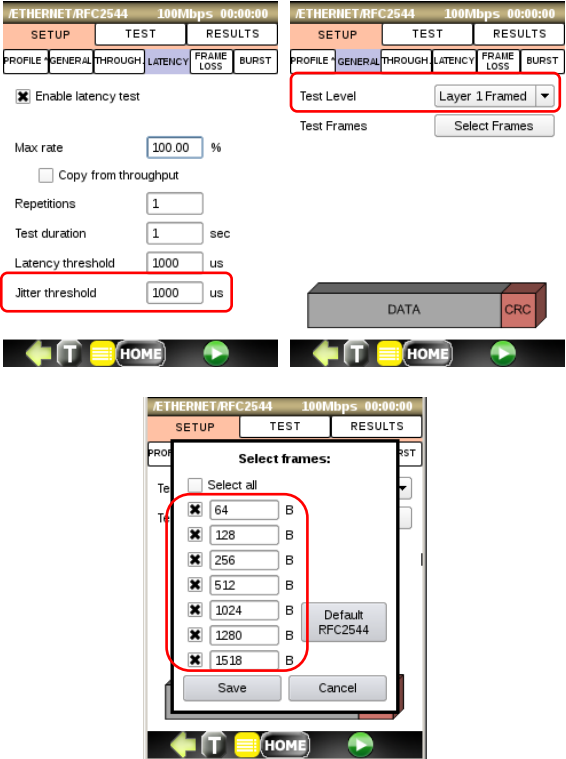
Version: 5.05.07

Release Date: 10/8/15

Component Versions:

Version	Component File Name
5.05.07	5.05.07

New Features:

Description	
Ethernet: BERT Added measurement for Jitter and Delay in results screen. The user must enable time stamping for the delay tab to be displayed.	
Ethernet: RFC-2544 - Added jitter measurement to Latency test. - Added support for L1 testing. - Added ability for user to define custom frame sizes	

Product: DataScout 1G

Version: 5.05.07

Release Date: 10/8/15

Description

Ethernet: Traffic Generator (Requires DS1G-SW-ADV)

Added support frame size as low as 48 bytes.
Previously limit was 64 bytes.

Added setup parameter for Layer 1 testing.

Added support for Traffic Shape settings for Burst and Ramp with the Ethernet Traffic Generator. User will now find a new Traffic Shape pull down combo box to configure the Traffic Shape as Constant, Burst or Ramp.



IPTV STB Emulation (Requires DS1G-SW-IPTV)

Added support for multi program transport stream (MPTS). Supports bandwidth up to at least 40Mbps.

Added results parameter for Max Jitter.

IPTV STB Emulation (Requires DS1G-SW-IPTV)

Added metrics for Description and Resolution (pixels) under Stream Info Basic tab

- Added metrics for IGMP join time, GOP current length and number of B frames.
- Scrambled, GOP Length (min, max) and MOS (current, min, max).

IPTV/STB 00:01:37			
Channels		Live	
PID info		Transport	
Basic		Advanced	
Multicast		225.1.1.1	
Description		ITU-T Rec H.262 ISO/	
Resolution		0 x 0	
PID Number		69	
Bitrate		1499 kb/s	
Scrambled		No	
MOS		current	min max
		3.75	1.00 4.00
GOP Length		19	19 19
GOP Type		IPPP	

Description

IPTV VoD (Requires DS1G-SW-IPTV)

Added new metrics under new tabs PID Info and Transport:

Transport

- Packet Loss and Packet Loss Ratio (%)
- Packet Received and Packet Received Ratio (%)
- Packets Out of Sequence and Packets Out of Sequence Ratio (%)
- Packet Duplicated and Packets Duplicated Ratio (%)

Stream Info – Advanced

- IP Source and Destination
- RTSP Source and Destination (if RTSP)
- Encapsulation

IPTV/STB 00:04:02	
Channels	Live
PID info	Transport
Packets	TR10129 P1 TR10129 P2
Packet size [B]	1358
Packet Loss	2740
Packet Out of Sequence	354
Packet Duplicated	0
Packet Received	246405
Packet Loss [%]	1.10
Packet Out of Sequence [%]	0.14
Packet Duplicated [%]	0.00
Packet Received [%]	98.90

IPTV/STB 00:03:56	
Channels	Live
PID info	Transport
Basic	Advanced
IP Src Address:	10.249.46.112
IP Dst Address:	225.1.1.1
UDP Src Port:	64090
UDP Dst Port:	1234
Encapsulation:	UDP/RTSP/MPEG-2TS
IGMP Join time:	202
TTL	1
DSCP	0
ECN	0

IPTV Results (Requires DS1G-SW-IPTV)

Added Results for IPTV STB and Channel Scan functions. Results accessed via yellow results icon at the bottom screen like other applications.

IPTV / Results		
Started	Stopped	Test
2015-11-19 21:41:56	2015-11-19 21:42:19	SCAN
2015-11-19 21:41:32	2015-11-19 21:41:49	MONITOR
2015-11-19 21:40:10	2015-11-19 21:41:11	SCAN
2015-11-19 21:39:03	2015-11-19 21:39:51	SCAN
2015-11-19 21:38:34	2015-11-19 21:38:50	SCAN
2015-11-19 21:17:00	2015-11-19 21:31:54	STB
2015-11-19 21:16:24	2015-11-19 21:16:35	STB
Export Delete Select All		

IPTV Monitor (Requires DS1G-SW-IPTV)

Added IPTV Passive Monitoring option enable/disable check box to Setup. STB Emulation will not see passive streams or multicast streams when the option is unchecked, it will only seek streams joined.

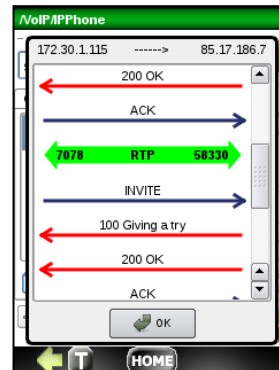
If the option is checked, STB emulation will see all streams and the Channel Scan will test up to 100Mbps of passive streams.



Description

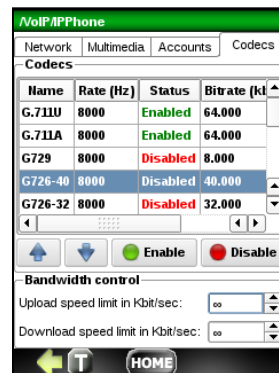
VoIP (Requires DS1G-SW-VOIP)

Added SIP Flow diagram. To see the SIP Flow diagram, click on the Call Log tab and select a call, highlight a call and press the SIP Arrows icon.



VoIP (Requires DS1G-SW-VOIP)

Added CODECS for G.729, G.726 (16.24/32/40 kbps).

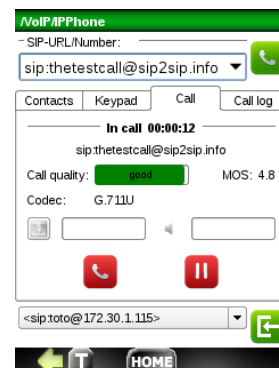


Name	Rate (Hz)	Status	Bitrate (kbps)
G.711U	8000	Enabled	64.000
G.711A	8000	Enabled	64.000
G.729	8000	Disabled	8.000
G.726-40	8000	Disabled	40.000
G.726-32	8000	Disabled	32.000

Bandwidth control
 Upload speed limit in Kbit/sec:
 Download speed limit in Kbit/sec:

VoIP (Requires DS1G-SW-VOIP)

Added MOS score to the Call tab.



SIP-URL/Number: sip:thetestcall@sip2sip.info

Contacts Keypad Call Call log

In call 00:00:12

sip:thetestcall@sip2sip.info

Call quality: good MOS: 4.8

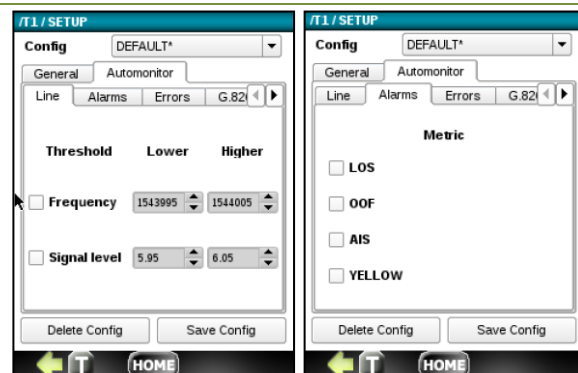
Codec: G.711U

<sip:toto@172.30.1.115>

T1 & E1 (Requires DS1G-HW-PDH1 or PDH2)

Added Auto Monitor threshold for T1 and E1 via Setup – Auto Monitor tab.

Thresholds are disabled by default. When these thresholds are enabled, the Auto Monitor application will display OK/Failed based on these thresholds.



T1 / SETUP

Config DEFAULT*

General Automonitor

Line Alarms Errors G.821

Threshold Lower Higher

☐ Frequency 1543995 1544005

☐ Signal level 5.95 6.05

Delete Config Save Config

T1 / SETUP

Config DEFAULT*

General Automonitor

Line Alarms Errors G.821

Metric

☐ LOS

☐ OOF

☐ AIS

☐ YELLOW

Delete Config Save Config

Product: DataScout 1G

Version: 5.05.07

Release Date: 10/8/15

Description

T1 & E1 (Requires DS1G-HW-PDH1 or PDH2)

Improved the way History LEDs work. Now they are Gray (OK) and Red for (not OK)

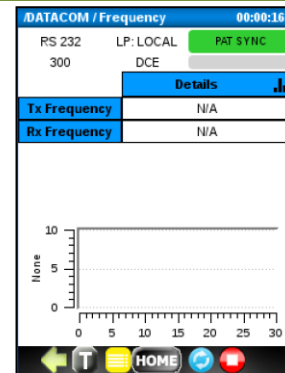


T1 & E1 (Requires DS1G-HW-PDH1 or PDH2)

Improved short alarm (less than 1s) detection for T1/E1

DATAKOM (Requires DS1G-HW-PDH1 or PDH2 and DS1G-SW-DCOM)

Added additional results screen to DATAKOM-BERT that displays the Tx and Rx frequency in real-time and histogram. This screen is available by clicking on the right green arrow at the bottom of the DATAKOM BERT screen. The Tx and Rx frequencies report "N/A" when Local Loopback or Internal Clock is selected.

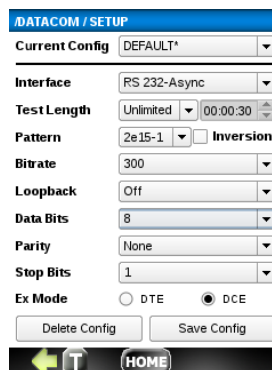


Added a checkbox to Datacom Setup to enable/disable pattern inversion.

Datacom-Setup now hides the clock selection settings when selecting Local Loopback or Remote Loopback.

DATAKOM (Requires DS1G-HW-PDH1 or PDH2 and DS1G-SW-DCOM)

Add ability with Async Datacom to support 1, 1.5 or 2 received stop bits, independent of the configuration for the Tx stop bits.



Description

DATAKOM (Requires DS1G-HW-PDH1 or PDH2 and DS1G-SW-DCOM)

DCOM – Added detect and count Parity errors.

DCOM – Added Parity insertion function

Datacom Bitrate – added 64000 to pull down for all interfaces

DATAKOM/ BERT				00:00:36
RS 232	LP: LOCAL	PAT SYNC		
300	DCE			
2e15-1		Errors	Rate	
LGC	1		9.27e-05	
ES	1		2.86 %	
Pat LOSS	0		100.00 %	
Handshakes - Rx		Handshakes - Tx		
RTS = 0	DTR = 0	CTS = 0	DSR = 0	
		DCD = 0		
Error Insert		Clock Setup:		
SINGLE		Transmit: INTERNAL		
LGC		Receive: INTERNAL		

Test Results

Added support for exporting results via FTP and EMAIL to Export screen.

DATABASE / Results / Export	
USB	FTP Email
Server	
Folder	
☐ Anonymous	
User	
Password	
Export	
☒ TotalResults (PDF)	
☒ TotalResults (RAW)	
☐ Metrics	
Export	

Toolbar: IP Manager

IP Manager has been streamlined and improved for easier management interface configuration

When entering the IPTV or VoIP tests, the unit will automatically forward the user to this screen if a network connection is not detected.

Added support for PPPoE for remote management interface.

This interface is used for VoIP and IPTV tests as well, thus PPPoE connection is supported for these tests too.

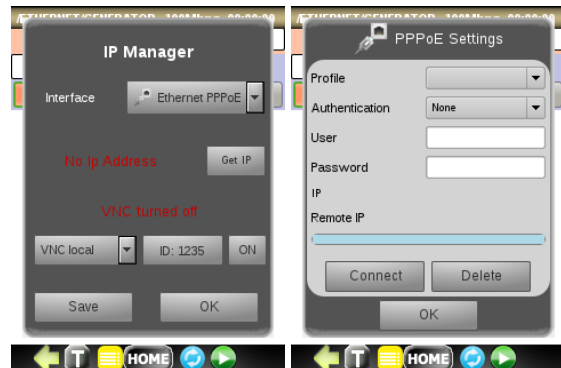
MAIN MENU	
IP Manager	
Interface	Ethernet
eth0 IP: 10.248.46.143	Get IP
VNC turned off	
VNC local	ID: 1235 ON
Save	OK

Description

Toolbar: IP Manager PPPoE

Added support for PPPoE for remote management interface.

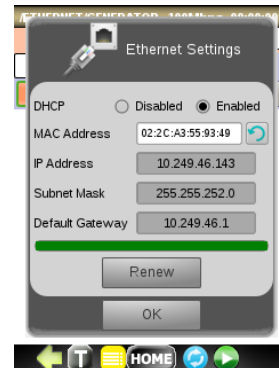
This interface is used for VoIP and IPTV tests as well, thus PPPoE connection is supported for these tests too.



Toolbar: IP Manager Ethernet Settings

Added support for DHCP and user-defined MAC for remote management interface.

This interface is used for VoIP and IPTV tests as well, thus these functions are supported for these tests too.



Toolbar: Settings

Settings has been streamlined and improved for easier configuration of:

- Language
- Screen brightness
- Touchscreen Calibration
- Erase tester data (factory default)
- Hardware self test (factory use only)



Toolbar: Settings

Added language support for:

- German
- Portuguese
- French
- Spanish
- Russian



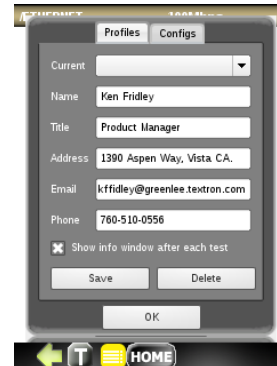
Description

Toolbar: Profiles

Users are now able to enter their contact information into a profile. This information will automatically be added to the test result files when the test completes.

Multiple user profiles can be created

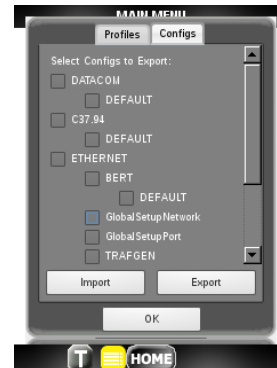
This can be disabled by un-checking “Show info window after each test” box at bottom of this screen



Toolbar: Profiles

Users are now able to import and export one or multiple test configuration profiles but selecting the “Configs” tab and selecting the profiles desired.

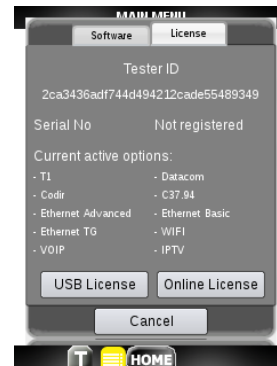
To import the user will press the “Import” button and then select profile to import from the USB drive



Toolbar: Test Option License Manager

Test option license managers now displays current active options enabled.

Users also have the ability to register and communicate with Greenlee’s centralized license server via the Ethernet management port to download new option licenses when new options are purchased.



Product: DataScout 1G**Version:** 5.05.07**Release Date:** 10/8/15

Issues Addressed:

Issue ID	Description
	IPTV Monitor – fixed a problem whereby sometimes channels weren't detected and Monitor would be stuck searching.
	WiFi Connect – fixed a problem whereby you couldn't connect to a network if there was a space in the SSID or Password.

Known Issues:

Issue ID	Description
	None – Please report any issues you encounter.

Product: DataScout 1G

Version: 5.05.07

Release Date: 10/8/15

Software Update Instructions:

Example	Instruction
	1. Plug the charger into A/C power and connect to the DataScout. 2. Power on the DataScout 1G by pressing and releasing the power button.
	3. Wait for unit to display MAIN MENU.
	4. Copy the new software version to a USB drive.
	5. Insert the micro to regular USB adapter into the DataScout USB port. 6. Insert the USB drive with new software into the adapter.

Product: DataScout 1G

Version: 5.05.07

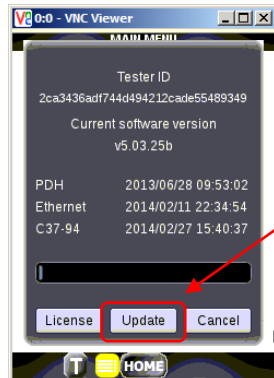
Release Date: 10/8/15



7. Press the “T” toolbar icon.



8. Press the “Life Preserver” icon.

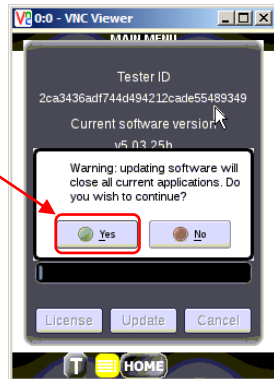


9. Press the Update button.

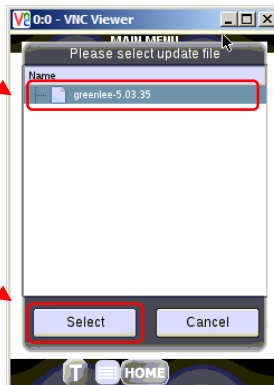
Product: DataScout 1G

Version: 5.05.07

Release Date: 10/8/15



10. Press the “Yes” button on the warning message.



11. A drop down menu will appear.
12. Tap on the file name that corresponds to the new software version you copied to the USB drive (5.05.07 for this release).
13. Tap on the “Select” button.



14. The software update program will begin and extract the new files from the USB drive.
15. Press the OK button to confirm acknowledgment to not disturb or shut down the DataScout during the update. The program is completely automated.

Product: DataScout 1G

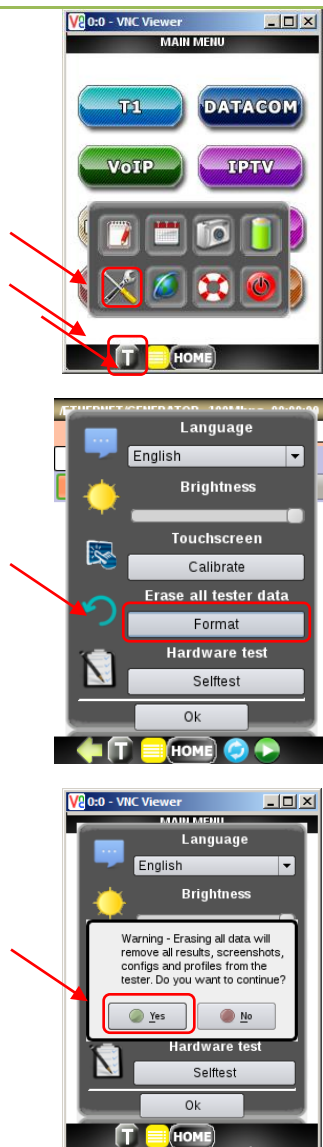
Version: 5.05.07

Release Date: 10/8/15



16. The DataScout will reboot automatically when the software update is completed and return to the main menu.

17. Software update is now complete, you can remove the USB adapter and disconnect from power.



IMPORTANT! For this software release you must erase all previously stored test profiles and test results or erroneous operation may occur.

You will need to export any test results or test profiles currently stored on your meter prior to performing this procedure.

Perform the following to format your meter:

18. Press the "T" toolbar icon
19. Press the crossed wrench/screwdriver icon
20. Press the "Format" button
21. Answer "Yes" to the warning
22. The unit will delete all test profiles and test results and return to the factory default condition.

Product: DataScout 1G

Version: 5.05.07

Release Date: 10/8/15



23. If these installation steps fail or you do not have access to an internet connection, please contact Greenlee Communications technical support using one of the options at the top of this document and we will explain alternate methods of updating your software.