



PRODUCT RELEASE NOTE

RELEASE NOTE for Field Network Manager System v 2.4.6
DATE 8-17-2016

FIRMWARE

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Field Network Manager (FNM) SW - Version 2.4.6

Build Info:

Version: 2.4.6

Build Date: 8/17/2016

Introduction

This document describes Software/Firmware production maintenance release of the Field Network Manager Application (FNM) software . FNM is similar to MDS InSite application and can be used as a Network Diagnostic tool to manage GE MDS legacy radios and SDx devices using DLINK protocol. This tool also allows user to connect to a radio device to read or apply configuration file, as well as saving (export) or loading (import) saved configuration file from a PC. FNM is designed to run in Windows desktop OS platforms with Windows version 7 and above.

Rev 2.4.6 Features

- MDSDM-312 – automate and refactor codes handling SDx and x710 compatible modes switching
- MDSDM-335 – Network Collection improvements, added scheduler to allow user to schedule weekly Collection cycles.
- MDSDM-284 – resolved issue with transNET/x810 Device Manager Serial Data Bits can't change to 7 Data Bits
- MDSDM-367 – Add Manual Refresh feature on History Log page to refresh background Network Collection data.
- MDSDM-368 – Tested installing and running execution on Windows 10
- MDSDM-371 – resolved exported FNM configuration IP Payload and COM1/2 settings mismatches
- MDSDM-369 - make sort options and Page select boxes open-up instead of drop-down
- MDSDM-266 – resolved issue with Changing COM1 Current Mode to Data changed Startup Mode to Data in Web page

Rev 2.3.3 Features

- MDSDM-366 – resolved minor issue with bad Alert when navigated to General Information page without loading an equipment list

Rev 2.3.2 Features

- MDSDM-365 - Resolved issues with Device Manager import and export of configuration files.

Rev 2.3.1 Features

- MDSDM-364 - Prevent user from using Device Manager to connect to the same unit under background collection, so collection cycle does not get interrupted.

Rev 2.3.0 Features

- Includes the following Fixed Bugs and Implemented Improvements;

Issue Type	Key	Summary	Priority	Resolution	Description
Bug	MDSDM-256	Cannot "Switched Carrier (B modems)" to ON	Minor	Fixed	Cannot "Switched Carrier (B modems)" to ON
Bug	MDSDM-255	Cannot change Push-To-Talk Delay to 2 ms – seems to have gotten stuck at 0	Minor	Invalid	Cannot change Push-To-Talk Delay to 2 ms – seems to have gotten stuck at 0
Bug	MDSDM-267	Cannot change COM1 Data Format to any other values	Minor	Won't Fix	Cannot change COM1 Data Format to any other values (stuck in 8 char bits, no parity, 1 stop bit)
Story	MDSDM-123	SUPPORT Vanteon GME-524 - import old TransNET config file in EM/FNM	Major	Fixed	
Bug	MDSDM-221	SDx alarm page not reflecting necessary alarm conditions and status	Major	Done	SDx alarm page not reflecting necessary alarm conditions and status
Bug	MDSDM-218	SDx Alarm Set byClass is not working correctly	Major	Won't Fix	SDx Alarm Set byClass is not working correctly

Bug	MDSDM-242	TransNET Clock SYNC Address should depends on MODE=Master	Minor	Fixed	TransNET Clock SYNC Address should depends on MODE=Master and should be disabled when MODE is Node - same as in Element Manager!
Bug	MDSDM-258	Changing Bridge Age-out Time while TCP DLINK connected seems problematic. Same issue with changing LAN Filter...	Major	Fixed	Changing Bridge Age-out Time while TCP DLINK connected seems problematic - do we need to disable that via TCP DLINK?
Improvement	MDSDM-213	Is not obvious the Network UI elements are disabled when x810 mode is Remote	Major	Fixed	Is not obvious the Network UI elements are disabled when x810 mode is Remote
Bug	MDSDM-224	sometimes the top right circular image is out of sync with collection status	Minor	Fixed	sometimes the top right circular image is out of sync with collection start/stop status.
Improvement	MDSDM-199	add display gauges/bars showing % in some polling data such as zones	Major	Fixed	add display gauges/bars showing % in some polling data such as zones
Improvement	MDSDM-180	implement Uninstall menu link	Major	Fixed	implement Uninstall menu link
Bug	MDSDM-362	FNM General Info hung with alert dialog	Critical	Fixed	when navigate to General Information page and Alert dialog says; Result of expression 'this.table._parentNode' [null] is not an object.
Bug	MDSDM-251	SAF Network & SAF Link should be hidden when MAC device type is not Access Point	Minor	Fixed	SAF Network & SAF Link should be hidden when MAC device type is not Access Point
Bug	MDSDM-214	cannot change x810 radio Radio Operating Mode under Network	Major	Invalid	cannot change x810 radio Radio Operating Mode under Network
Bug	MDSDM-291	issue changing AT Command Mode in TranNET using Device Manager	Major	Fixed	issue changing AT Command Mode in TranNET using Device Manager
Bug	MDSDM-295	x790 RF Power Out status stuck at 19 dBm	Major	Invalid	x790 RF Power Out status stuck at 19 dBm, EM seems to be the same issue. RF Power Output was changed across the range and could not change the status.
Improvement	MDSDM-283	TransNET Device Manager Identity Hardware Revision should say NOT AVAILABLE	Minor	Fixed	TransNET Device Manager Identity Hardware Revision should say NOT AVAILABLE, currently is blank out.
Improvement	MDSDM-243	TransNET Identity Hardware Revision should state "NOT AVAILABLE"	Minor	Fixed	TransNET Identity Hardware Revision should state "NOT AVAILABLE" similar to Element Manager DLINK connection.
Story	MDSDM-347	Tests Validation/Automation Supports	Major	Fixed	Tests Validation/Automation Supports

Bug	MDSDM-289	Cannot change transNET Network RSSI Sync Qualifier from None	Major	Fixed	Cannot change transNET Network RSSI Sync Qualifier from None
Bug	MDSDM-290	Cannot check Skip Zone 8 in TransNET/x810 using Device Manager	Major	Fixed	Cannot check Skip Zone 8 in TransNET/x810 using Device Manager
Improvement	MDSDM-331	Apply and Refresh for specific tabs instead of for ALL in Device Manager	Major	Fixed	Apply and Refresh for specific tabs instead of for ALL in Device Manager
Bug	MDSDM-305	implement long-term refactor codes for "Apply" and "Refresh" - see MDSDM-247	Major	Fixed	<p>Better long-term codes fix for MDSDM-247 is to refactor codes as described below;</p> <p>Both Apply and Refresh should perform functions of EquipDevice, but they instead perform DevMan functions, (they should work much like Export and Import work). "Apply" isn't the problem, but "Refresh" is. "Refresh" is re-creating the object, and unfortunately "Apply" is tied to it because it calls "Refresh" afterwards. This was unintended, and should be rewritten to be members of EmgrDevice but would take a little bit of an effort to get right. Destroying the object and re-creating the object should be fine as a fix.</p>
Bug	MDSDM-285	crash TransNET RSSI Sync Qualifier left blank and apply all	Major	Fixed	crash TransNET RSSI for Sync left blank and apply all
Improvement	MDSDM-254	Cannot change Rx Time-Out setting from OFF to ON	Minor	Fixed	Cannot change Rx Time-Out setting from OFF to ON when Value is not in range. FNM should add some special handlings.
Improvement	MDSDM-260	In general, should focus on 1st setting when dialog prompts for user inputs	Minor	Fixed	In general, should focus on 1st setting when dialog prompts for user inputs. Currently, the user does not aware he could work around by hitting TAB key to focus on the 1st setting UI, then scroll around the rest by TAB key again...
Bug	MDSDM-288	issue changing transNET Radio Operating Mode	Critical	Fixed	When changing transNET Radio Operating Mode, the mode is changed but the value is not reflected until user clicks Refresh All button.

Bug	MDSDM-257	what is Advanced Tuning> Dlink Mode (B modems)	Minor	Fixed	what is Advanced Tuning> Dlink Mode (B modems) - seems to be missing and available from Web UI
Bug	MDSDM-264	Cannot change Multihost Enable to ON	Major	Invalid	Cannot change Multihost Enable to ON
Bug	MDSDM-281	Security Encryption Phrase should be validated and confirmed	Major	Fixed	Security Encryption Phrase should be validated (8-38 chars) and confirmed
Bug	MDSDM-286	Cannot change SD Low Power Mode Holdover time	Major	Fixed	Cannot change SD Low Power Mode Holdover time from 20 to 21
Bug	MDSDM-259	should not allow VLAN config via TCP DLINK since it shuts down comm	Major	Fixed	should not allow VLAN config via TCP DLINK since it shuts down TCP DLINK communication afterward.
Bug	MDSDM-262	Can't change Listen Before Transmit to ON	Major	Fixed	Can't change Listen Before Transmit to ON
Bug	MDSDM-297	cannot turn ON x790 receiver muting nor change its value	Major	Fixed	cannot turn ON x790 receiver muting nor change its value, because value text box is permanently disabled.
Improvement	MDSDM-338	Add Model Number and Firmware version on Network Collection	Medium	Fixed	On Network Collection page, add Model Number and Firmware version to isolate or count how many different models,versions on network
Improvement	MDSDM-229	more ms units should be changed to seconds other than polling/collection	Major	Fixed	more ms units should be changed to seconds other than polling/collection; non-intrusive autodiscover timeout DLINK timeout DLINK delay ...
Improvement	MDSDM-191	add polling % progress bar to help customer guess network link speed	Major	Fixed	add polling % progress bar to help customer guess network link speed so they can tweak.
Story	MDSDM-361	History Log may take a long time to load after overnight run	Normal	Fixed	History Log may take a long time to load after overnight run
Improvement	MDSDM-325	global search and replace Element Manager by Field Network Manager	Trivial	Done	global search and replace Element Manager by Field Network Manager
Bug	MDSDM-345	range validation errors in UI's	Major	Fixed	While debugging FNM, it was found many invalidated XML/XSD are showing many range validation errors in UI's. Those were ported from Element Manager, so need to fix them in Element Manager also.
Improvement	MDSDM-190	Add connection status to system table in Polling page	Major	Fixed	Add connection status to system table in Polling page. tcp address and port info also so customer can see which tcp connection is having issue.

Improvement	MDSDM-332	Add Legend for Alarm Statuses	Major	Fixed	Add Legend for Alarm Statuses
Bug	MDSDM-228	missing x790 standby status in Polling page	Major	Fixed	When radio is x790, InSite polling page shows the following status; Standby is [not] available Active Module [A B] Standby Module [A B]
Bug	MDSDM-261	add columns sorting to data tables	Major	Fixed	add columns sorting to data tables - we know we need to add this improvement soon. DCP is specifically asking for this now!
Improvement	MDSDM-339	application crash running 1000s of nodes	Critical	Fixed	If leaving Network collection on in continuous scan, after a few hours when stopped, the process "crashes" and you lose any New Discovered Units.
Bug	MDSDM-206	missing x790 MS Radio A/B switching function	Major	Fixed	missing x790 MS Radio A/B switching function - customer says is important from last meeting.
Bug	MDSDM-204	debug log is warning some config items	Major	Fixed	Need to handle the followings *** Warning: Can't update UI for DKEY (no data) *** Warning: Can't update UI for INIT (no data) *** Warning: Can't update UI for KEY (no data) *** Warning: Can't update UI for LOG_CLR (no data) *** Warning: Can't update UI for PROGRAM (no data) *** Warning: Can't update UI for RADIOSWITCH (no data) *** Warning: Can't update UI for REBOOT (no data)

Improvement	MDSDM-212	keep Polling when user clicks history log	Major	Fixed	keep continuous Polling when user clicks history log. Overall, the polling continuous start and stop needs to behave more like Network Collection process so navigating to other page will keep it running in the background until is stopped.
Improvement	MDSDM-233	Add History Logs Header to files	Minor	Fixed	Add History Logs Header to files
Improvement	MDSDM-192	make sure text box is long enough, ex: dialog description	Minor	Fixed	make sure all text boxes are long enough, ex: dialog description
Improvement	MDSDM-195	Allow user to [de]select All row entries	Major	Fixed	Allow user to [de]select All row entries
Bug	MDSDM-246	crash when loading another equipment list while background collection is running	Critical	Fixed	the FNM crashes when loading another equipment list or click new to start new equipment list while background collection is running
Improvement	MDSDM-194	DLINK options needs to be easier to access from Polling or Collection page	Major	Fixed	DLINK options needs to be easier to access from Polling or Collection page - currently is only available from Application->Settings page.
Improvement	MDSDM-227	user likes to change the polling device selection and starts back from last device	Major	Fixed	user likes to change the polling device selection and starts back from last device, and not starting from beginning again. Better - user likes to be able to add selection while it is being run.
Improvement	MDSDM-337	strange behaviors, model disappears & many more radios responds with 4710 system type	Medium	Fixed	<ul style="list-style-type: none"> • Changed system type from 4710 to SDx and it appeared to worked better. Switched back to 4710 as test and not as many radios appeared to be responding but it was not limiting to just 4710 radios, strange behavior. • When doing Network Collection, Model disappears on selected system.
Bug	MDSDM-223	user input validation not handled correctly	Major	Fixed	need to clean up validation errors of GeMdsPoll.xsd and its associated xml files. Not cleaning it up will make maintenance and future features addition so much harder and unreliable.
Bug	MDSDM-263	Missing Conn Timeout and Persistent Conn when Term Serv Mode is TCP S/C Socket	Major	Fixed	Missing Connection Timeout and Persistent Connection when Term Serv Mode is TCP Sserver/Client Socket.

Bug	MDSDM-222	Device Manager client config validation are not working	Major	Duplicate	Device Manager client config validation are not working - seems like is not ported from Element Manager. That means customer can easily apply some nasty problematic settings to radio and break the radio link or crash the radio.
Bug	MDSDM-241	Owner's Message label is RED when replied no string	Major	Cannot Reproduce	When using FNM connected to a remote TransNET node via Device Manager Intrusive DLINK, Owner's Message label is RED when unit replied no string. In Element Manager seems like same issue when first reading from local unit via serial DLINK, but then a refresh will clear it. However, in FNM, the RED label stayed RED even clicking Refresh All button. Port fix from FNM when is fixed there!
Bug	MDSDM-340	Descriptions should be looking at Owner's Name and/or Owner's Message	Major	Cannot Reproduce	Known issue - Descriptions should be looking at Owner's Name and/or Owner's Message. Network Polling - Fix Description (see comments above in regards to known issue).
Bug	MDSDM-321	missing DTYPE options in x790	Major	Fixed	missing DTYPE options in x790. ex: repeater, peers, etc
Bug	MDSDM-319	extended period running and Polling does not refresh screen correctly	Major	Cannot Reproduce	Customer noticed when FNM is left running for an extended period of time, the Polling page status does not refresh the screen right away as in normal case. Customer reported that restarting FNM fixes the issue.
Bug	MDSDM-357	when TCP connection is interrupted, Network Collection just not updating and hangs a while	Minor	Cannot Reproduce	when system interface server TCP connection is interrupted (simulated or pulling ethernet cable!). Network Collection just not updating 1000 units and seems hung. After waiting for a long time, it finally stops by itself. But all units showed unresponsive (while) and system interface connection status should indicate connection problem and but shown 'idle'.
Story	MDSDM-346	Tests Validation Supports	Major	Fixed	

Bug	MDSDM-356	new fix for MDSDM-339 throws a dialog when missing reply from unit	Normal	Fixed	is possible to miss reply from a busy DLINK network like UDP, so we cannot alert with a dialog. Just log the message in debug log for developer user only.
Bug	MDSDM-360	colors status legend messed up with extra white box	Normal	Fixed	colors status legend messed up with extra white box - seems be incorrectly introduced since version 2.0.x.
Improvement	MDSDM-330	Qualify performance and settings needed to support 1000s of DLINK radios	Major	Fixed	<p>From our customer;</p> <p>Steven R. Page Anadarko Petroleum Corporation Field Automation Administrator I Delaware Basin Kermit, TX (432) 853-6292 – Cell (432) 248-3739 – Office</p> <p>Below is list of performance issue that we need to research and analyze. Perhaps is just as simple as adjusting settings according or scaling to their large network topology... May need to build a simple simulated 1000s nodes network that responds to Network Collection messages so we can evaluate and characterize performance/limitation and understand the equations for settings (ex: collection timeout) to support scaling to larger networks.</p> <p>Some of the questions directly from customer;</p> <ul style="list-style-type: none"> * Why are not all active radios coming in when doing a network collection? We have roughly 1000 MDS radios active in the field and after a week of consistent Network Collection we are up to just under 700 found. * Intrusive Auto Discovery on the Equipment List does not work, Non-Intrusive Auto Discovery works but is rather redundant and does not work as cleanly IMO as in Network Collection. * Network Collection – Why does all of the data not come in from each unit at the same time, only part of it trickles in? * Database optimization – The larger my Equipment List has grown, takes quite a bit longer to stop a Network Collection.
Bug	MDSDM-309	SDx DLINK does not allow user to switch device mode	Major	Invalid	SDx DLINK does not allow user to switch device mode

Improvement	MDSDM-315	Dlink #'s <1000 require the # to be entered without the first 0	Minor	Fixed	Dlink #'s <1000 require the # to be entered without the first 0, for example if you type in 0290, the field network manager saves it as 0002. However if you type in 290 the program saves it as 0290.
Improvement	MDSDM-211	have a user action to change between C or F temperature degrees	Minor	Fixed	have a user action to change between C or F temperature degrees
Bug	MDSDM-354	New Equipment List removes list of serial ports when opened after loading an equipment list (GME-563)	Medium	Fixed	<p>Steps to reproduction:</p> <ol style="list-style-type: none"> 1.) Load equipment list. 2.) Start new equipment list. 3.) Hit "Add" under Systems. 4.) The list of serial ports is empty. <p>This issue is not present when immediately starting a new system when the program loads up, and it's not present when editing a system. I suspect it to be a YUI issue, since the entire select element gets deleted except the head tag just like a few other places.</p>
Improvement	MDSDM-336	Analyze customer's report that all radios are found on the TX side, none on the RX side.	Medium	Cannot Reproduce	Analyze why all radios are found on the TX repeater side, none but the master radio are found on the RX repeater side.
Bug	MDSDM-176	When new equipment list is loaded, app seems to continue to poll old equipments	Minor	Duplicate	When new equipment list is loaded, app seems to continue to poll old equipments. Currently, need to work around it by Starting with a New one before loading new equipment list. This seems to happen when collection process is polling in the background.

Bug	MDSDM-355	Changing IP address in Device Manager for SDx would crash the application.	Normal	Fixed	<p>1.) Open Device Manager on SDx.</p> <p>2.) Change IP address under IP Config and save.</p> <p>3.) Application errors out. This is because the value being passed to the DLINK generating function is a string, not an array. So, instead of sending ['10.11.20.240', '255.255.0.0', '10.11.1.1'], it was sending '10.11.20.240,255.255.0.0,10.11.1.1'; this caused the string split to think the arguments were really ['1', '0', '.].</p> <p>I added a check to see if the values being gotten are part of the IPCONFIG_IDs, and if so, to split the value string by "," before trying to cycle through them.</p>
Bug	MDSDM-324	Investigate - Network collection cannot save unresponsive discovered devices	Major	Fixed	Network collection cannot save unresponsive discovered devices, seems to only save the discovered ones when is responsive.
Bug	MDSDM-308	Terminal Mode is problematic via TCP DLINK	Major	Fixed	Terminal Mode is problematic via TCP DLINK, works much better via serial DLINK connection.
Bug	MDSDM-238	issue when loading another equipment list while collection is running	Major	Fixed	issue when loading another equipment list while collection is running - make sure no collection is running before loading another equipment list. Or hit new button first to clear the equipment list before loading another equipment list
Improvement	MDSDM-314	Equipment list files need to manually assign an extension	Major	Fixed	Equipment list files need to manually assign an extension, if you just type in a filename the program doesn't automatically assign an extension and the program will not properly save the radios.
Bug	MDSDM-252	not able to apply SDx device Owner's Name change	Major	Fixed	Changing Device->"Owner's Name" from "David Leung" to "David L" - did not change!!
Technical task	MDSDM-344	MDSDM-336 work with customer to identify root cause	Major	Cannot Reproduce	suspect customer not configuring master stations Tx & Rx only

Technical task	MDSDM-341	MDSDM-330 create test validation and simulate up to 1000's nodes network to recreate crash	Critical	Fixed	create test validation and simulate up to 1000's nodes network to recreate crash
Technical task	MDSDM-343	MDSDM-330 Fix customer experienced issues	Critical	Fixed	* Fix issues not related to performance * Fix performance related issues per simulated test results

Key	Summary	Issue Type	Priority
MDSDM-252	not able to apply SDx device Owner's Name change	Bug	Major
MDSDM-354	New Equipment List removes list of serial ports when opened after loading an equipment list (GME-563)	Bug	Medium
MDSDM-211	have a user action to change between C or F temperature degrees	Improvement	Minor
MDSDM-315	Dlink #'s <1000 require the # to be entered without the first 0	Improvement	Minor
MDSDM-309	SDx DLINK does not allow user to switch device mode	Bug	Major
MDSDM-308	Terminal Mode is problematic via TCP DLINK	Bug	Major
MDSDM-324	Investigate - Network collection cannot save unresponsive discovered devices	Bug	Major
MDSDM-176	When new equipment list is loaded, app seems to continue to poll old equipments	Bug	Minor
MDSDM-336	Analyze customer's report that all radios are found on the TX side, none on the RX side.	Improvement	Medium
MDSDM-314	Equipment list files need to manually assign an extension	Improvement	Major
MDSDM-238	issue when loading another equipment list while collection is running	Bug	Major
MDSDM-330	Qualify performance and settings needed to support 1000s of DLINK radios	Improvement	Major
MDSDM-355	Changing IP address in Device Manager for SDx would crash the application.	Bug	Normal
MDSDM-223	user input validation not handled correctly	Bug	Major
MDSDM-337	strange behaviors, model disappears & many more radios responds with 4710 system type	Improvement	Medium
MDSDM-227	user likes to change the polling device selection and starts back from last device	Improvement	Major
MDSDM-194	DLINK options needs to be easier to access from Polling or Collection page	Improvement	Major
MDSDM-246	crash when loading another equipment list while background collection is running	Bug	Critical
MDSDM-195	Allow user to [de]select All row entries	Improvement	Major

MDSDM -192	make sure text box is long enough, ex: dialog description	Improvement	Minor
MDSDM -212	keep Polling when user clicks history log	Improvement	Major
MDSDM -233	Add History Logs Header to files	Improvement	Minor
MDSDM -204	debug log is warning some config items	Bug	Major
MDSDM -206	missing x790 MS Radio A/B switching function	Bug	Major
MDSDM -228	missing x790 standby status in Polling page	Bug	Major
MDSDM -339	application crash running 1000s of nodes	Improvement	Critical
MDSDM -261	add columns sorting to data tables	Bug	Major
MDSDM -332	Add Legend for Alarm Statuses	Improvement	Major
MDSDM -345	range validation errors in UI's	Bug	Major
MDSDM -190	Add connection status to system table in Polling page	Improvement	Major

Rev 1.0.9 Features

- Resolved COM2 Data Port unavailable issue.
- Revised End User License Agreement User Dialog.

Rev 1.0.8 Features

- Overview->General Information
 - Monitors health statistics of Network as when Network Collection is started in continuous mode in the background.
- Configuration->Equipment List
 - Create and Edit new Equipment List in the same format as in MDS InSite 6.
 - Import or Export Equipment List.
 - Intrusive Auto Discovery (similar to FNM)
 - Non-Intrusive Auto Discovery – use similar Network Collection trending DLINK commands to discover units on the network without interrupting any payload data transfers.
- Configuration->Device Manager
 - Manage device configuration. Load all configuration and Apply configuration changes to device.
 - Export device configuration for offline use.
 - Import offline saved configuration file and apply changes to device.
 - Note that SD devices is in beta and not fully functional.
- Configuration->Network Broadcast
 - Broadcast configuration setting(s) to networked devices
- Maintenance and Status->Network Collection
 - Similar to InSite 6 Network-Wide Diagnostics Collection
- Maintenance and Status->Network Polling
 - Similar to InSite 6 Network-Wide Diagnostics Polling
- Utilities->History Log
 - Diagnostics data captured from Network Polling and Network Collection

- Utilities->Terminal Mode
 - Connects to root system device entry of equipment list and may then be used as a dumb terminal to exchange DLINK or Command-Line commands and responses.
 - Not fully functional with SDx.
- Application->Settings
 - Manage application global settings to all pages
- Application->Check Updates
 - Check if any new FNM application updates is available from server site

Known Limitations/Errata

The following are known issues that exist in this release of the software.

- When operating with SD devices, FNM is offered in an as-is beta ready condition. Some minor features related to Device Manager SDx Configuration may not operate correctly at this time. SD Master station is not fully supported yet but most functionalities are expected to work.
 - There are also some SDx DLINK registers limitation
 - Terminal Mode does not support full terminal emulation (ex: Escape sequences to move cursor working with device terminal menu).
 - When in Device Manager, do not leave TransNET RSSI Sync Qualifier text box blank when None radio button next to it is not checked. This may lead to application waiting forever.
 - Cannot check radio button of Skip Zone 9 in TransNET/x810 using Device Manager page.
 - When operating with busy network and especially sleep remotes, the DLINK timeout, DLINK retries, DLINK delay options must be carefully adjusted for minimal DLINK communication related errors.
 - X710, x810, x790 Alarm Sense is reversed according to radio hardware, compared to description in Manuals.
 - X710 DLINK Receive Audio Output Level register level value from -1 to -20 dBm will report error due to unresolved x710 radio firmware issue.
 - X790 Receiver Muting Level value does not has value available from DLINK.
 - When connected to a x710 radio unit via DLINK, changing any values in the RTU simulator page may clear the Serial Port Settings -> RX Data Buffer Delay Time to 0 ms (default value).
 - Under some rare use case conditions, application service may not properly closes and requires starting Windows taskmgr to kill the server associated javaw.exe or javaw.exe *32 processes.
-