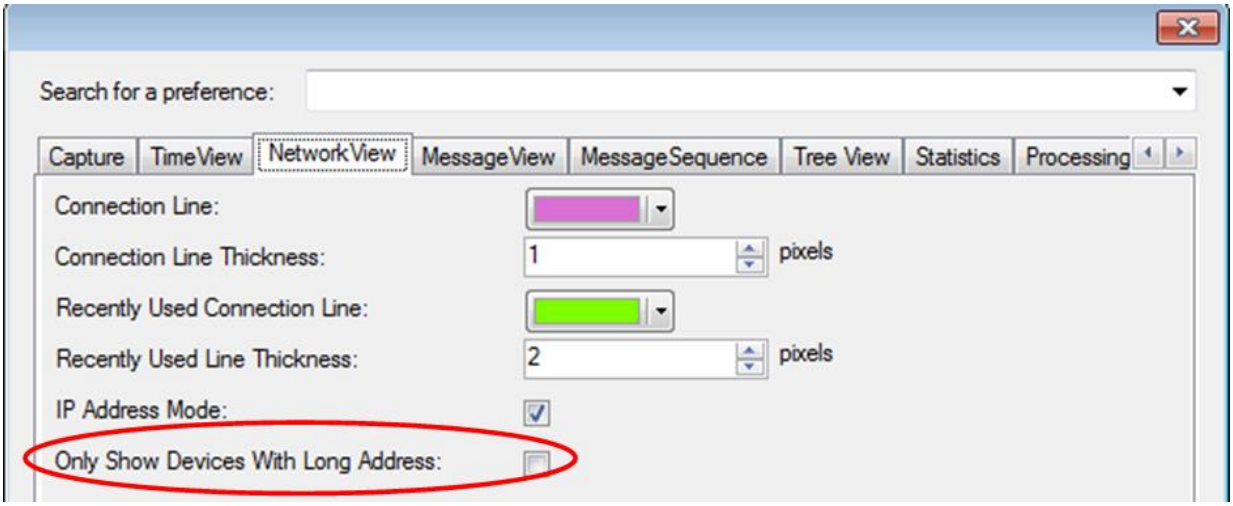
Perytons BLE Release Notes Version 5.5

Version information

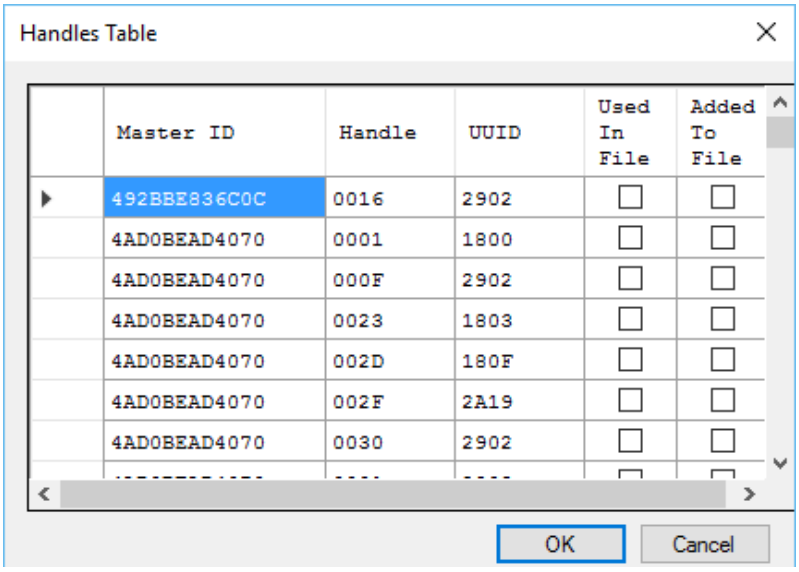
- Current version: 5.5 – build 3202 (rev 10965), including updated SDK (build 129 rev 10963)
- Release date: May 24, 2016
- Recent major version: 5.4 (June 10, 2015, build 3025)

New features

- **User Interface and tools**
  - Cancel the option of starting a capture in Off-Line mode – Users with an SDK project that includes handling this action may cause a compatibility issue and it suggested contacting Perytons (support@perytons.com) for assistance on how to resolve this.
  - Add 'Active Devices time-limited display' option to Network View - during real-time capture or playback from an off-line file (simulation), the user can select whether to display all devices or only such that have been active in a predefined time window (active in the last 10 secs, 1 minute, 10 minutes, 30 minutes, 1 hour, 12 hours or 1 day).
  - Add Organization Unique Identifier (OUI) information data based on the device MAC address as assigned to vendors by the IEEE organization (Devices View, messages and devices tooltips, etc.)
  - Add a user definable preference parameter that allows to display devices in Network View only if their long address is known



- Add ‘Message Type’ grouping option in Time View – this makes easy recognition of several Bluetooth Smart message types including iBeacon type messages
- Add iBeacon parsing
- Add an option to choose if the slave address to follow in case of Nordic front-end is random address or public address
- When using a Nordic front-end as capture device – can now choose the advertisement channels it will listen to.
- Add Type sorting to time view (all protocols)
- Add Tools/Handles Table – For Setting/Showing the handle-UUID relations



Bug fixes

- Fixed a bug when deciphering second Master-Slave secured session after pairing parameters have been exchanged
- Fixed some bugs related to correctly handling the Nordic front-end as capture devices. Still there are Nordic reported known limitation using these type front-ends
- Fix a problem when capturing a Bluetooth Smart session that hops on a single channel with a time-slot smaller than 50msec
- Fixed a bug when converting the "AccessAddress" and "Address" from a device file to an AddressField
- Fixed a problem with Nordic TG - when timing is not as captured

Master – Slave Channel Parameters Encrypted Messages - limitation

- When having an encrypted Bluetooth Smart session, there are some situations where a Connection Update Request is sent in encrypted form. The current standard front-end dongles used by Peryton-Smart and Peryton-Smart 3 as receivers, are not able to decode such a message hence will lose the remaining part of the connection. Hence in such scenario, the Perytons analyzer will not capture and analyze the remaining session of the connection.

Perytons BLE Release Notes Version 5.4

Version information

- Current version: 5.4 – build 3025 (rev 10178)
- Release date: July 22, 2015
- Recent major version: 5.3 build 2806 October 5, 2014)

Backward compatibility

- SDK projects and scripts may need to be recompiled and new reference namespaces used. Please contact Perytons support for help with updating your script and SDK projects.

New features

- **Data capture**
  - Add support for BlueGiga BLED112 for time-sync of advertisement messages when not slave advertisement transmission is present in the Peryton-Smart3 model
  - Add support for Nordic Semiconductor nRF51822 (EK module and dongle) for the Peryton-Smart model
  - Release of Peryton-Anywhere that allows remote capture over TCP/IP connection using the Peryton-Gateway (utilizing the Nordic Semiconductor nRF51822 USB dongle as a front-end) – note that in the first time the analyzer will run with this feature enabled, a security warning may be generated by the firewall
- **User Interface and tools**
  - Add setting of User Defined layouts - -allowing setting arranged windows of the analyzer UI environment for special test scenarios, etc
  - Allow selecting a BLE session capture based on the Master/Slave address (when using TICC2540 or Nordic Semiconductor nRF51822 front-end respectively)
  - Improve analyzer processing efficiency
- **Scripts**
  - Allow to build attribute value parser in script

Bug fixes

- Fixed a bug causing crash in some message hide conditions

- Fixed a bug causing crash on long captures due to time view y-axis sorting
- Fixed some capture to database issues
- BLE - fix the bug with BLE security counters

- BLE Mesh – known limitations (Bluetooth Smart Mesh Simulator Add-On – AKA Peryton-Bluetooth Smart TG Add-On)
  Currently transmission of messages from a file can be accomplished only as defined in the timing information of each message in the selected file and transmitting messages with user defined timing is not supported (not 'As Captured').
  Transmitting messages based on user defined timings can be accomplished by setting the relevant time data on the relevant messages in the selected file to transmit.