**RELEASE**notes

# 1   Version 8.02

## 1.1   Update information:

These release notes describe changes between Perception (including GEN series firmware) versions

V8.00.20232 and V8.02.20295

## 1.2   Mid- and long-term support roadmap

Starting with Perception V8.00 some legacy features, mainframe and card support are no longer present.
(A Perception V7.6x maintenance version is available for critical bug fix support)

### 1.2.1   Supported on latest Windows versions

Including all updates until July 2020:
- Windows 10 Pro 1607 and higher            (64 bit only)

**Installation requirements:**
- Dot Net Framework V4.8
  (distributed with the install CD and available for download on the internet)
- Microsoft Direct3D® capable graphics card.

### 1.2.2   Downgrade

Perception V8.0x can be downgraded to the following versions.
- Perception V7.6x
- Perception V7.5x

## 1.3   Perception versions

| Version | Description | |
|---|---|---|
| | Perception Standard | Free |
| **1-PERC-AD-0x** | Perception Advanced | Paid |
| **1-PERC-VA-0x** | Perception Viewer Enterprise | Paid |
| **1-PERC-E64-0x** | Perception Enterprise | Paid |

### 1.3.1   Perception supports the following application extensions:

| Version | Description | |
|---|---|---|
| **1-PERC-OP-EDR** | eDrive application (setup, live and efficiency mapping table) | Paid |
| **1-PERC-OP-STL** | Advanced High Voltage/High Power analysis according STL standards | Paid |
| **1-PERC-OP-HIA** | High Voltage Impulse Analysis | Paid |
| **1-PERC-OP-CSI** | CSI Runtime extensions (Customized Software Interfaces) | Paid |

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## 1.4 New Features

| | |
|---|---|
| **Phasor Display improvements** | Display inherits colors and font from linked display. |
| **User Key** | New action that allows to update an RT-FDB scalar. Update can be either hard-coded or taken from a datasource (for example an InfoSheet datasource). |
| **Start-up video** | The ePower Suite now shows a video at startup. This gives an 11 minute introduction into basic operation principles of the ePower suite.<br>Later releases will see updated video content. |
| **GN310b analog Torque/Speed** | The ePower Suite added support for analog torque and speed when using the GN310B card. |
| **Timed Cycles** | The ePower Suite now adds more fine-grained selections when selecting a timespan for timed cycles. Selections can now be made from 1 ms…1 s. |
| **Ext Trigger Out Settings** | The acquisition setup now also supports 'External Trigger Out' settings. |
| **More responsive ePower Suite setup** | During ePower Suite setup, certain selections cause the system to enter a (time-consuming) process of redeploying formulas. This happens now less often. |
| **Efficiency page** | A new sheet is added to the ePower Suite, showing efficiencies. |
| **Scope display improved** | The ePower Suite scope display now is more stable. |
| **Bridge Wizard removed** | The Bridge Wizard is no longer part of Perception. |
| **File size VWB reduced** | Since Perception 8.0 the VWB file size increased due to storing icons. This file size increase has been much improved. For the next Perception release a compressed storage format is planned, reducing typical file size by a factor of 10. |
| **Skip waiting for WOL** | GHS mainframes support Wake On Lan. When connecting to a mainframe that is not 'On' a WOL packet is sent to wake up. This takes 2 minutes. Option is added to skip mainframe/waiting. |

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### 1.5 Improvements

| | |
|---|---|
| **GN1202B/GN8101B** | Default sample rate was changed from 25 MS/s to 20 MS/s. This default also allows Digital IO. |
| **ePOwer Suite** | ePowerSuite Copy button now also works with display scaling other than 100%. |
| **Post-process formulas** | ePowerSuite can generate post-process formulas. In some conditions this caused an exception. |
| **CAN Data output** | - Corrected the endianness of published float values. In some conditions it was flipped the wrong way.<br>- CAN *.DBC file generation contained faulty endianness information. |
| **CAN Acquisition Control** | A saved workbench – containing CAN acquisition control setup – is now properly loaded. |
| **Sensors** | Various improvements on usage of non-linear sensors. Note that some of these improvements might affect (i.e. improved) interpretation of existing recordings.<br>- RTFDB: Timer/Counter signals apply non-linear user scaling for non-linear sensors.<br>- Correct ADC ranges are applied for a sensor with multi point linearization.<br>- TEDS sensors with two-point linearization are mapped on Technical unit scaling.<br>- Fix in applying technical unit scaling<br><br>Improvements on TEDS sensors:<br>- The sense lines are always enabled for TEDS sensors in Bridge mode<br>- Zeroing of a two-point linearization sensor now works always rather than only once - after TEDS detection. |
| **GEN DAQ API** | The command StartRecording is now forwarded to Perception (if connected). This facilitates starting a recording on all connected mainframes. |
| **System** | - Improved diagnostics<br>- In the case of switching RTFDB configuration of many async signals to one async signal could in rare cases result in a memory allocation issue. |
| **EtherCAT** | The fixed Status and Value properties of published data have been renamed to the published data name with an _S suffix for status and and _V suffix for value. |
| **QuantumX** | Fix for scenario where in some sweep based recordings a false positive 'Timebase synchronization lost' marker was inserted. |

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### 1.6 Supported Genesis High Speed platforms:

- GEN2tB
- GEN3i/GEN3iA
- GEN3t
- GEN4tB
- GEN7i/GEN7iA
- GEN7tA
- GEN17tA
- BE3200

### 1.7 Supported QuantumX Modules:

- MX1609KB
- MX1609TB
- MX471B / MX471C
- MX809B
- CX27B as single network access point only, no setup or control of CX27B

Data streaming is available for all other B type or later QuantumX modules.

**Note:** Perception includes and only works with the following QuantumX software components
QuantumX firmware: V4.12.32.0
HBM common API: V4.0.0.56

**Patents no:** 7,868,886

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