

Software Release Note

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Perception Workflow Designer

v2.4.8 - Feb 2025

Key content

No Changes.

v2.4.7 - Sep 2024

Key content

• No Changes.

v2.4.6 - June 2024

Key content

No Changes.

v2.4.5 - Mar 2024

Key content

No Changes.

v2.4.4 - Nov 2023

Key content

No Changes.

v2.4.3 - Mar 2023

Key new features

Enhanced Kelman DGA 900 PLUS support

For Kelman DGA 900 PLUS monitors with bushing monitoring support for 9 bushing configurations has been implemented.

When a Kelman DGA 900 PLUS is monitoring 9 bushings the data for the 3^{rd} set of bushings will be analysed along with the 1^{st} and 2^{nd} bushing sets using the "Bushing Standard" workflow.

v2.4.2 - Dec 2022

Key content

• No Changes.

v2.4.1 - June 2021

Key content

No Changes.

v2.4.0 - March 2021

Key content

• No Changes.

v2.2.2

Key content

• No Changes.

v2.2.1

Key new features Support of GE's Kelman DGA 900 PLUS

Support has been added for the new Kelman DGA 900 PLUS device.

DGA Standard and Simplified DGA workflow now supports the DGA 900 PLUS.

Support of GE's 869 Motor Protection Relay

Support has been added for GE's 869 motor protection relay running firmware version 2.00 or later.

To enable 869 motor protection relay support please contact your GE sales representative.

Motor Assets

A new motor asset is now available which can be used as the parent of the 869 motor protection relay in the asset explorer.

An 869 Motor Ranking workflow has been created to analyse data received from the 869 relay and provide a risk index for a motor asset.

v2.2.0

Key new features

Support of MS3000 onboard Risk Indexing

Support has been added for the download of the onboard Risk Index results from MS 3000 monitoring devices running master template 3.6.4.22p0_ 3.2.2.13p0_4.5p0 or later.

Perception now downloads and visualises the Risk Index results along with the other data stored on the MS 3000. The Risk Index results are calculated directly on the MS 3000 monitor running master template 3.6.4.22p0_ 3.2.2.13p0_4.5p0 or later.

Perception can be configured to use and display only the Risk Indexes downloaded from the MS 3000, or only the Risk Index calculated in Perception or a combination of both. When both Risk Index options are configured Perception automatically selects and displays in the most critical Risk Index result and information regardless of its origin.

Risk Index data downloaded from the MS 3000 can be exported and imported via the existing mechanism in Perception.

v2.0.2

Key content

• No Changes.

v2.0.1

Key content

• No Changes.

v2.0.0

Key new features Support of GE CB Watch 3 monitor

CB Watch 3 support is available for the Perception Workflow Risk Indexing and Ranking mechanism. A new algorithm called CB Watch has been created under the Workflows drop down list within the Circuit Breaker properties. When selected Perception uses the Risk Index results received from the CB Watch 3 to present a Risk Index overview and rank position within the asset ranking table.

V1.22.3

Key content

No changes

V1.22.2

Key content

No changes

V1.22.1

Key content

No changes

V1.22.0

Key new features

Support of MS 3000

Extended support has been added for the MS 3000 device including fleet ranking workflows based on downloaded data for DGA and Bushing data.

V1.20.1

Key new features

Support of Kelman DGA 900

DGA Standard and Simplified DGA workflow support is also available for the DGA 900

V1.20.0

Key new features

DGA 500

Added support of ranking workflows. export/import.

V1.18.3

Key new features

Support of DGA 500

Support has been added for the new DGA 500 device. The following worksheets are available Properties, Data Table, Trend Chart, Status, TDCG and Duval's (Classic and LTC Triangles).

V1.18.2

Key new features

Support of Intellix BMT 330

Support has been added for the new Intellix BMT 330 device.

Transformer Bank (Phase Association, Annotations, Workflow Association)

A new Transformer Bank asset has been added to the Perception application. The Transformer Bank asset has been created to facilitate the addition of single phase transformers and subsequent monitoring in Perception. The Transformer Bank properties worksheet allows the user to configure phase and tank associations. Each phase and tank configuration will automatically create an annotation at the association date in the Data Table and Trend Chart worksheets. Users can associate the BMT Standard workflow to their Transformer Bank and the Transformer Bank will appear in the Ranking Tab, its condition will be based on the combined risk indexes and conditions of its children and the Intellix BMT 330. For more information please see the Perception Desktop user manual

V1.18.1

Key content

No changes

V1.18.0

Key content

No changes

V1.16.0

Key new features

Fleet Ranking Enhancements

We have improved our transformer risk and fleet ranking analysis by building on our existing workflow algorithms as well as introducing new workflows.

OLTC analysis via TapTrans.

A DGA Standard OLTC workflow has been created to perform analysis on OLTC data captured by the TapTrans monitor using expert knowledge along with technics taken from the IEEE C57.104 standard.

New Simplified DGA and Simplified DGA OLTC Workflows

A new Simplified DGA workflow has been added. The data analysis in the Simplified DGA algorithm is based solely on the Caution and Alarm status of the monitors.

MiniTrans, HydranM2 & Hydran201Ti Support

The DGA Standard workflow now also supports the following monitoring devices MiniTrans, HydranM2 and Hydran201Ti.

DGA Standard Moisture Analysis Enhancements.

The DGA Standard workflow has been updated with improvements to H2O levels in Oil and Gas Sensitivity.

BMT Standard Workflow

The BMT standard workflow has been updated to support the latest BMT 300 FW Version 1.2

Workflow Sensitivity

Each workflow association now has its own sensitivity value which can be used to adjust the sensitivity of the parameters during data analysis.

Enhanced Transformer Criticality

A new Criticality Details section in Transformer Properties worksheet has been added. The Criticality Details are used in Fleet Ranking algorithms to give a more accurate assessment of the risk condition of the transformer based on the unique critical factors of each transformer

V1.14.0

Key new features

Fleet Ranking

A new level of interpretation of the health of the transformer fleet has been added to Perception Server. It uses established IEEE/CIGRE/IEC standards to create algorithms to properly rank assets according to their risk of failure, based on key performance indicators acquired through DGA and bushing/PD monitoring. The ranked order of assets is displayed in Perception as a list, with the most critical asset listed at the top.

Perception also allows the algorithms to be modified, or new algorithms created using a new workflow designer. The workflow designer allows a user with appropriate privileges to edit existing, and design new algorithms using a drag and drop integrated design environment (IDE). The IDE presents existing algorithms and data points as selectable objects. Finally, the designer allows the user to compile and deploy the algorithms to Perception Server.

Dashboard screens have also been added to enhance the understanding of the user by collating key information about the fleet into a single screen. Further detail can be gleaned by using the previously available diagnostics.

V1.12.0

Key content

No changes

V1.10.0

Key content

No changes

Operating System Support

The Perception Applications are now supported on the following Operating Systems:

- Windows Server 2008 & R2 x64 & x86
- Windows Server 2012 x64 & x86
- Windows 7 x64 & x86
- Windows 8 x64 & x86

Third Party Application Support

Microsoft SQL Server 2008 R2 Standard, Enterprise or Express and Microsoft SQL Server 2012 Standard, Enterprise or Express is supported as the database host for Perception Server.

For questions or further product support, please contact the GE support team 24/7 using:

Region	E-mail	Telephone
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