

# Release of IET600 Integrated Engineering Tool

Version 5.4 FP1



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Dear Reader,

We are pleased to announce the release of IET600 Version 5.4 FP1.

**IET600 is allowing system engineers and integrators to define and configure the complete substation automation system according to IEC 61850 ensuring data consistency throughout the substations' lifecycles.**

### **IET600 - Introduction**

Integrated Engineering Tool IET600 provides a simple, flexible, and consistent approach to substation automation system engineering. It enables engineers to design and configure the system-wide IEC 61850 communication dataflow between IEDs by featuring powerful graphical interfaces to design the substation topology and the physical communication infrastructure. The complete system is documented in an IEC 61850 standard compliant and reusable SCD file, allowing an efficient and consistent multi-vendor system integration.

IET600's combination of powerful engineering editors and built-in IEC 61850 intelligence allows engineers to easily and effectively integrate protection and control IEDs into a multi-vendor SA system. IET600 performs consistency checks, which reduces the number of errors not only during the initial system engineering, but also subsequently during the integration, testing and commissioning phase.

Combined with the configuration of alarm and event signals for Hitachi Energy's MicroSCADA platform, IET600 ensures data consistency throughout the lifecycle of the substation automation system.

The intuitive user interface allows engineers to effectively navigate through large amounts of data, to find exactly what they need.

### **Ordering and delivery information**

The IET600 can be ordered from Grid Automation Products, Västerås, Sweden.

The delivery includes a case with the software, manual and installation guide on a USB stick and the USB hardware license key.

IET600 Version 5.4 FP1 requires a license key to function during start-up and runtime of the tool.

**This version runs with the same license as IET600 version 5.4, but licenses for versions < 5.4 do not allow to run this release.**

For users of IET600 5.3 an upgrade license to IET600 Version 5.4 is available. For more information, please contact your local Hitachi Energy contact or Hitachi Energy Sweden AB, Grid Automation Products, Västerås, Sweden ([contact-us@hitachienergy.com](mailto:contact-us@hitachienergy.com)).

### **Life cycle statement**

IET600 Version 5.4 FP1 is a standalone product and replaces all former versions.

Bug-fix and feature pack releases of IET600 Version 5.4 FP1 are available via internet download with the built-in "check for updates" function – they run with the same license key.

IET600 automatically migrates engineered projects and data created with earlier versions of IET600, to the latest version and therefore ensures full backwards compatibility.

**Documentation**

Following documentation can be found on the product USB memory stick.

- 1MRK500115-UEN IET600 installation guide
- 1MRK500114-UEN IET600 user manual
- 1MRK500116-GEN IET600 Release Note

**Technical requirements on environment**

The minimum hardware requirements are:

- 300 MB of free hard disk space
- Dual-core processor
- 3 GB RAM and 2.5 GB page file size

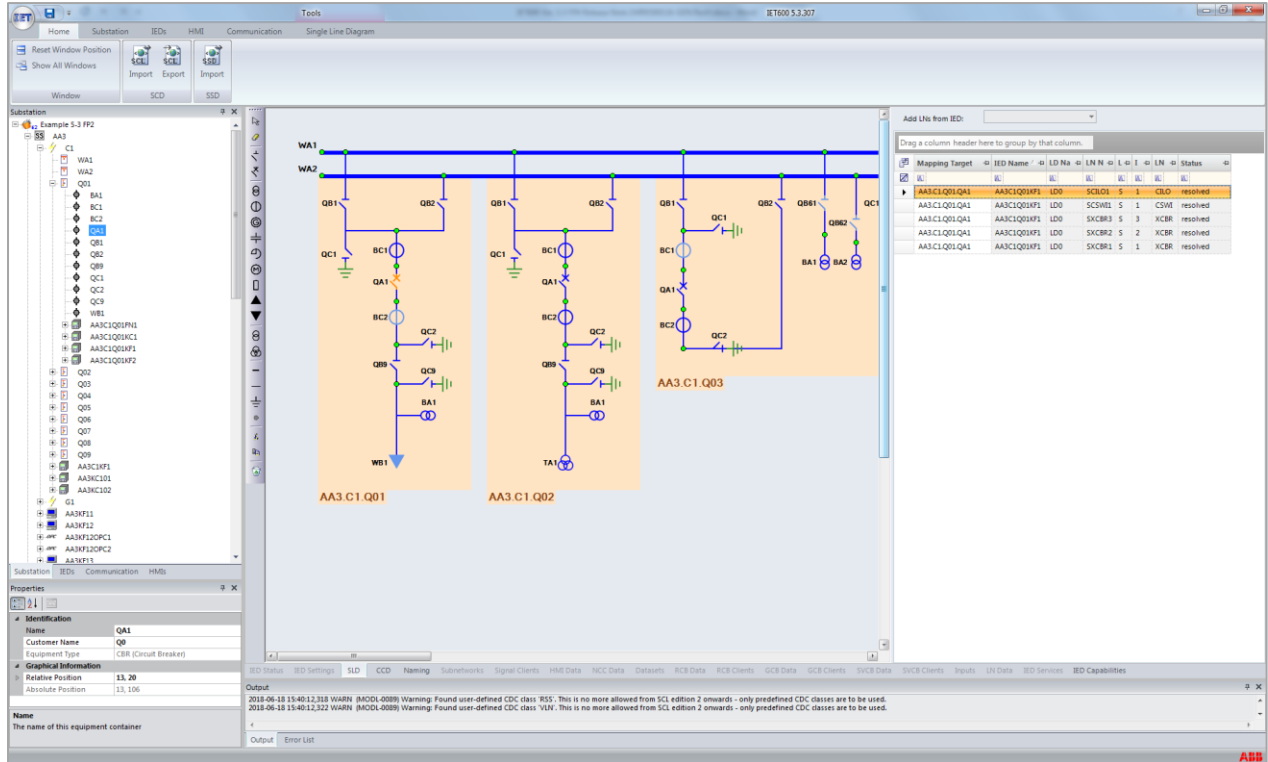
The recommended hardware requirements for medium to big projects are:

- 300 MB of free hard disk space
- 64-bit operating system
- Quad-core processor
- 8 GB RAM
- SSD recommended for system drive

The following operating systems are supported:

- Windows 8.1 (64- and 32bit)
- Windows 10 (64- and 32bit)
- Windows 11 (64bit)
- Windows Server 2012 R2 (64bit)
- Windows Server 2016 (64bit)
- Windows Server 2019 (64bit)

IET600 works best when using 100% text size in the Windows Operating System Display settings.



## Installation

IET600 needs some additional software components, which are contained in the IET Prerequisites package:

- Windows Installer 4.5
- NET Framework 4.8
- SQL Server 2014 Express SP3

The IET600 Prerequisites must be installed once before the first installation of IET600. The installation of IET600 Version 5.4 gets started by running the installation program ("IET600 Setup.exe"). For more details, please read the IET600 installation guide.

Minimal required Prerequisites: 5.2.6 or later

Kind regards

Stefan Meier

Global Product Manager, Grid Automation Products

# 1. All releases and included changes since IET600 Version 5.3 (September 2013)

## 1.1. Feature pack release IET600 Version 5.4 FP1

(5.4.112, May 2022)

This release replaces the former IET600 versions.

### 1.1.1. New and enhanced features

---

Guided IEC61850 Reference creation for IEC 61850 server configuration of MicroSCADA SYS600

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### 1.1.2. Improvements

---

Added Voltage Level optional attributes

---

Set proper SCL version in SCD file name before export

---

Improved Scroll to column option to display only visible columns

---

Show loading indicator on status bar while SSD import

---

Project version is now updated to the latest while opening

---

Correctly update Input section of clients after rename of a source Control block

---

Set Edition 2 IED original version properties while import/export of SCL file

---

Detect duplicate LNODE elements while SSD import

---

Remove all LGOS/LSVS logical nodes after remove of a supervision

---

Display incompatible GCB/SVCB clients imported from SCD file

---

New application installer

---

MicroSCADA SYS600 related items:

---

IN attribute now has a correct subnetwork name depending on the access point

---

Added additional information to output message for invalid EH attributes

---

Correctly resolve OX attribute while SCD export divided by a subnetwork

---

Improved consistency check for Bit address

---

### 1.1.3. Fixes

---

Fixed application crash with too long project name

---

Prevented using of disallowed symbols in the project name

---

Resolved editors refresh issue after change of IED version override

---

Corrected inconsistent MAC address validation errors

---

Added NCC Information Object Address Octets validation to all protocols

---

Remove duplicate signals in Signal Clients editor on equipment level

---

Allow to put a Control block name in case-sensitive way

---

Fixed tool crash after closing a second project

---

Resolved a problem with export of numPhases attribute

---

---

Correctly clear VLAN data while copy/paste of a switch

---

Corrected selection synchronization in CCD editors

---

VLAN update indication now appear also when remove Report Control Block

---

Removed incorrect file name limitation during export to Excel

---

Fixed tool crash while IED Delete content after removing of a supervision

---

Minimal required Prerequisites: 5.2.6 or later

## 1.2. Release IET600 Version 5.4

(5.4.26, November 2021)

**This version of IET600 requires a new License. Licenses for versions < 5.4 will not work with this release.**

**This release replaces the former IET600 versions.**

### 1.2.1. New and enhanced features

---

Automatic VLAN Calculation.

---

GOOSE and Sampled Values Dataflow export.

---

Client Driven Engineering - remapping of inputs.

---

Apply downgrade/upgrade rules in Mixed system SCD export dialog.

---

### 1.2.2. Improvements

---

Possibility to remove incompatible clients.

---

Customer Signal List export of Reference instead of Address for IEC61850.

---

Added check for edition compatibility in Dataset Editor.

---

Added possibility to import datasets with empty DOs from SCL file.

---

Added possibility to filter grid on specific warning in HMI Data Editor.

---

Integrated Client LNs with Input Editor.

---

Adapted Subnetwork Dialog for different scenarios.

---

Added capabilities for SAM600-IO device.

---

Enabled modification of specific values in LN Data Editor.

---

LN Data Editor adapted to display data for multiple IEDs.

---

### 1.2.3. Fixes

---

Copy/Paste not working when trying to do it for several lines.

---

Store VallImport value in case no client connection created.

---

Fixed issue with 'Ghost' items in HMI data Tab.

---

Added missing errors in MicroSCADA export.

---

Fixed issue with errors not being cleared after closing a project.

---

Fixed issue with rule variables not being refreshed in Station Text Rule.

---



---

Extended list of FCs to be check during consistency in HMI data.

---

Added address out of range and duplicate warnings in MicroSCADA database export consistency check.

---

Fixed issue with refresh indicator not being shown in NCC Data Editor.

---

Fixed validation and editor mask for IP address and IP-Subnet in Edit Addresses dialog.

---

#### 1.2.4. Known issues

---

Issue: In CCD Editor if to make a connection between IEDs as a straight vertical line, it becomes blocked and is not possible to move it horizontally.

---

Resolution: By executing 'Arrange IEDs' or just move one of IEDs the line becomes unblocked.

---

### 1.3. Bug-fix release IET600 Version 5.3.814.1

(5.3.814.1, July 2021)

#### 1.3.1. General fixes and improvements

---

Fixed wrong Data Object compatibility value in Datasets Editor.

---

Removed incorrect warning while consistency check in HMI Data Editor.

---

Fixed incorrect calculation of total entries in Rule Preview dialog.

---

Fixed redundant update of OPC Server version after a subnetwork change.

---

Fixed crash while closing Dataset Entries dialog.

---

Fixed crash in RCB Clients Editor.

---

Fixed crash while evaluation of HMI synchronization.

---

Corrected error message when try to change buffered to unbuffered RCB.

---

### 1.4. Feature pack release IET600 Version 5.3 FP8

(5.3.814, May 2021)

**This release replaces the former IET600 5.3.x versions.**

#### 1.4.1. New and enhanced features

---

Newly added mixed System Engineering of IEC 61850 systems with Edition 1 and Edition 2 devices, as described in IEC 61850-6 Edition 2.1, Annex I (Figure I.3).

---

Client Driven Engineering for GOOS and Sampled Values, using inputs definitions of the receiving IEDs, is now supported.

---

Possibility added to engineer routable GOOSE and Sampled Values.

---

#### 1.4.2. Improvements

---

Added warning message is now generated when trying to export not supported SCL files.

---

New IEC6150 Edition 2.1 services have been added to IED Services tab.

---

---

By default, IET600 strips not-required parts from SCL file when exporting, to limit file sizes. Users can now choose to write all attributes to improve interoperability with some 3<sup>rd</sup> party tools.

---

Users can now choose whether to automatically show IEC61850 mapping dialog, when working in the HMI data editor.

---

The value of the Val element is now shown in the in IED Services tab.

---

To support mixing of IEC 61850 Editions, the Edition information has been added to the IEC 61850 client/OPC server.

---

### 1.4.3. Fixes

---

MicroSCADA UN is now correctly updated when changing IEC 61850 server mapping

---

Now IEC61850 Server is re-generated correctly without warnings

---

Fixed freeze of IET while drag/drop NCC to Subnetwork

---

Fixed incorrect work when close application during saving project process

---

Project version now is correctly set depending on SCL file version

---

Now datasets are shown for hierarchical Logical Devices

---

Show correct Access Point names in Dataset and Inputs editors

---

Fixed incorrect validation for SvID

---

Removed redundant warnings for Address in Signal Client editor

---

Removed incorrect error while copy/paste multiple cells

---

Fixed issue with storing valimport value needed to create LGOS/LSVS supervision. (valimport value is lost for previously created LGOS/LSVS instances)

---

## 1.5. Feature pack release IET600 Version 5.3 FP7

(5.3.709, November 2020)

**This release replaces the former IET600 5.3.x versions.**

### 1.5.1. New and enhanced features

---

Minimum requirements according to IEC 62351 (read signed SCL files)

---

IEC 61869-9 engineering support.

---

Layer 2 security for GOOSE and Sampled Values in terms of IEC61869 engineering

---

Signal List is extended to support import/export of multiple HMIs/GWs.

---

Mapping of Input Source at DO and SDO level is now possible depending on user settings

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### 1.5.2. Improvements

---

Switch model updated according to latest IEC/TR 61850-90-4

---

Added default value for LGOS/LSVS Supervision capability

---

Added new capability for Service MCSecurity override

---

Added HMIs synchronization under Hot-Standby

---

Now it is possible to import/export Signal Texts not only in IET Library mode

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---

Now LN Mapping Editor is visible at Substation level

---

Now colon separator can be used for MAC address with automatic conversion

---

In User Manual provided some references for internal signals generated in MicroSCADA and sent to NCC via IEC61850 Server

---

Added warning for address duplications for mirrored signals

---

Added error on import SCD file in case of duplicated SVid in Subnetwork

---

Now OSI parameters are cleaned up correctly

---

Added error on import SCD file if there are duplicate default MAC Addresses in SVCB Editor

---

Added possibility to change Subnetwork Description

---

Now Command Type list depends on Process Object Type

---

### 1.5.3. Fixes

---

Corrected GOOSE MAC address range

---

Fixed crash when try to create Printer without protocol

---

Fixed IET crash after copy/paste of a bay from reference to active project

---

Context menu functionality fixes in Signal Clients and NCC Editor

---

Create default SVCB address in case it is missing

---

Now IET works correctly while export of Signal Texts for translation

---

Now Consistency Check considers issues only for selected HMI under Hot-Standby

---

Fixed problem which causes IET crash while import of HMI signals on Substation level

---

Fixed crash when try to remove not accessible project

---

Fixed issue with freezing of IED after NCC rename

---

Resolved UI update problems after rename of a Substation and Equipment

---

IET Main form UI improvements

---

## 1.6. Feature pack release IET600 Version 5.3 FP6

(5.3.611, April 2020)

**This release replaces the former IET600 5.3.x versions.**

### 1.6.1. New and enhanced features

---

8-MMS Protocol is now available as new NCC protocol (requires MicroScada 10.1)

---

Configuration of GOOSE and Sampled Values Supervision (LGOS, LSVS)

---

Update to Prerequisites 5.2.4, including Microsoft SQL Server 2014 SP3

---

### 1.6.2. General fixes and improvements

---

Now addresses of NCC signals can be presented in structured and unstructured format for protocols IEC 101, IEC 104 and DNP 3.0

---

Redundancy for Time Server can now be configured.

---

Allow to display hierarchical Logical Devices in a tree view.

---

Possibility to show signals of selected equipment.

---

---

Display IED lock icon in client editors in case IED is protected.

---

Consistency check enhancement - detect Datasets which are not used by any client.

---

Allow to set destination MAC Address outside recommended range.

---

Possibility to configure Access Point Clock/Router SCL attributes.

---

Progress bar visualization improvement.

---

### 1.6.3. IEC 61850 related fixes and improvements

---

Fixed exception while creating a new LCB.

---

Now LD name is correct while export of IEC61850 Signal List.

---

### 1.6.4. MicroSCADA SYS600 related fixes and improvements

---

Adding an indication signal to NCC group was not working.

---

## 1.7. Feature pack release IET600 Version 5.3 FP5

(5.3.505, July 2019)

**This release replaces the former IET600 5.3.x versions.**

### 1.7.1. New and enhanced features

---

Creation of new HMI signals from imported Signal List

---

Improved the IEC61850 excel signal list to show dataflow configuration

---

Compare MicroSCADA configuration files against IET project (HMI signals)

---

### 1.7.2. General fixes and improvements

---

Record comments on project changes

---

Allow to remove the revision history on project

---

Allow changing OPC SCL model and don't update it automatically

---

Show the AP inside the RCB Data editor, if RCB is connected to a client

---

Analyze the SCL files before import/export and provide user with a choice how to proceed

---

Update Time Server settings to support selection of multiple Protocols

---

Add option to display/filter only possible GCB Clients

---

Add configurable variables like LN Rule, OI Rule, etc.

---

Provide check for duplicated MAC addresses on GCBs

---

Provide dummy attribute for extra information which will be included inside the Signal List

---

Grid column width is stored for all editors

---

Bug fix for a null reference exception when copy/paste of bay

---

Bug fix for SNMP signals with different protocol type in the Signal List

---

Performance improvements in IED Status Tab (specifically when big projects are loaded)

---

**1.7.3. IEC 61850 related fixes and improvements**


---

Support for multiple LPHDs within one LD

---

**1.7.4. MicroSCADA SYS600 related fixes and improvements**


---

Bug fix with reverting Status Text (Customer)

---

Add MicroSCADA attributes to Signal Client editor column chooser

---

OA & OB addresses are calculated also for database points with SS=3

---

**1.8. Feature pack release IET600 Version 5.3 FP4**

(5.3.406, June 2018)

**This release replaces the former IET600 5.3.x versions.**

**1.8.1. New and enhanced features**


---

A new Analyzer for User guidance to resolve engineering issues

---

An RTU560 device can be configured to include the IED Role

---

Customer Signal Texts can contain Rules to calculate the resulting text

---

**1.8.2. General fixes and improvements**


---

Corrected various small bugs

---

Performance improvements

---

**1.8.3. IEC 61850 related fixes and improvements**


---

Correct a bug causing increment of the Control Block "confRev" for unchanged Datasets after an update of IED SCL model

---

Corrected various small bugs

---

**1.8.4. MicroSCADA SYS600 related fixes and improvements**


---

Corrected a bug inside the Copy procedure of NCC configuration (Signal Clients and NCC Data editors) for Group signals

---

**1.9. Bug-fix release IET600 Version 5.3.307.4**

(January 2018)

**1.9.1. General fixes and improvements**


---

Update of the Gemalto HASP driver to version 7.60 due to cyber security vulnerabilities found in previous versions.

---

Corrected a bug in the ABB SNMP OPC Servers and Clients initialization.

---

Extended ABB SNMP OPC signals to support more OID configurations.

---

---

General SNMP related improvements and fixes.

---

## 1.10. Bug-fix release IET600 Version 5.3.307.2

(September 2017)

### 1.10.1. General fixes and improvements

---

Signal Handling options for COM500 engineering have been updated according to the MicroSCADA 9.4 FP2

---

Improvements in MicroSCADA SNMP OPC Server handling.

Limitation: Only one SNMP OPC Server per HMI can be configured and the SNMP Server can be connected to only one Subnetwork.

---

Empty IED Primary Role handled correctly during MIET export file creation

---

Improved DNP3.0 protocol handling for MicroSCADA Gateway engineering (e.g. same Addresses for different data types are allowed)

---

## 1.11. Bug-fix release IET600 Version 5.3.307.1

(June 2017)

### 1.11.1. General fixes and improvements

---

Values entered Inside the NCC Data editor were not saved in the project.

---

Editor cannot handle properly undo of string values inside non string columns

---

Moving OPC Connected Access Point from one Subnetwork to another freezes the Communication tree.

---

Update IED(s) Dialog cannot select any IED for update, if multiple IEDs are loader from SCD or CID file.

---

Signal Handling Editor inside NCC Data editor presents wrong options for NCC Commands.

---

Sorting of Rows inside the Editor grids is lost after context change inside the navigation trees.

---

## 1.12. Feature pack release IET600 Version 5.3 FP3

(5.3.307, May 2017)

**This release replaces the former IET600 5.3.x versions.**

### 1.12.1. New and enhanced features

---

User defined setting profiles can now be stored and loaded for each grid based editor (e.g. HMI Data Editor) in the tool.

---

Database upgrade to SQL Server 2014 SP2 aligned with PCM600.

---

Support of IEC61850 external references (ExtRefs) for GOOSE and Sampled Values.

---

Technology and driver updates for full support of Windows 10.

---

CID / IID files export for multiple IEDs on Project, Voltage or Substation level.

---

### 1.12.2. General fixes and improvements

---

#### General fixes and improvements

---

Performance improvements of IET600 editors for better handling of large scale projects.

---

IET600 checks now for new available software updates during program start and informs the user accordingly.

---

Several improvements in Customer Signal List export for handling of large scale projects.

---

The consistency check of GCBs and SVCBs did not exclude the deleted CBs -> fixed.

---

NV attribute could not be edited inside the HMI Data editor -> fixed.

---

Back indications on commands did show the group address in signal list export -> fixed.

---

Command counter for MicroScada commands were always 0 during sasmsc export -> fixed.

---

### 1.12.3. IEC 61850 related fixes and improvements

---

#### IEC 61850 related fixes and improvements

---

Update to latest tissues for IEC61850 Ed2.1 compliance (Tissue 1444 and 1445)

---

Added new rules for function and sub-functions (SFN\_x, SFN\_C\_x, EQSFN\_x, EQSFN\_C\_x) used inside the rule based MicroScada. attributes (LN, OI, IN, ON)

---

Validation of maximum frame length for GOOSE Datasets which can be handled by communication stack in IEDs.

---

### 1.12.4. MicroSCADA SYS600 related fixes and improvements

---

#### MicroSCADA SYS600 related fixes and improvements

---

Added support for configuration of MicroScada SNMP OPC Gateway in IET600 (available with next MicroSCADA Hotfix)

---

## 1.13. Bug-fix release IET600 Version 5.3.209.2

(June 2016)

### 1.13.1. General fixes

---

Engineering efficiency improvements in Customer Signal List export for supporting large scale SA projects.

---

Exception occurred in IET600 Project Manager when deleting an IET600 project in case the corresponding file folder was already deleted on the PC

---

Width and Height were swapped when resizing a Rectangle in CCD editor

---

### 1.13.2. IEC 61850 related fixes

---

Dynamic attributes were showing default values inside the LN data editor

---

Improved user guidance and small improvement in SCD export dialog

---

ExtRefs with "@" IEDName were not handled correctly by IET600 Input Editor

---

### 1.13.3. MicroSCADA SYS600 related fixes

---

Offset calculation in NCC Data Editor took too long for large scale engineering projects

---

---

All command group members were under one outlining in Customer Signal list export, even if they belong to different bays

---

HMI mapping could not be removed for certain signals in signal client editor

---

Change of Subnetwork Name was not properly propagated to LN attribute in HMI editor

---

UN attribute for pure SNMP devices is now calculated correctly from the AP's UN

---

## 1.14. Feature pack release IET600 Version 5.3 FP2

(5.3.209, February 2016)

**This release replaces the former IET600 5.3.x versions.**

### 1.14.1. New and enhanced features

---

This version of IET600 has been conformance tested by an independent UCA certified IEC 61850 conformance test laboratory.

---

In mixed IEC 61850 Ed.1/Ed.2 Systems, partial SCD files containing only IEC 61850 Ed.1 or Ed.2 IEDs can be exported.

---

IEC 61850 Log Control Block (LCB) configuration is available.

---

### 1.14.2. General fixes and improvements

---

Navigation Trees show icons consistent with IED role (missing IED role is indicated as question mark).

---

The last export/import path is now saved for different types of files.

---

Power transformer could not always be connected inside SLD.

---

Tool performance has been optimized when opening certain editors.

---

### 1.14.3. IEC 61850 related fixes and improvements

---

Trigger Option GI is now visible in RCB Editor.

---

IEC 61850 flags for Router and Clock will be set for an IED with a corresponding role.

---

Handling of IEDs with versions different than the project (or wrong versions according to IEC 61850) was improved, a user is warned on import and can take corrective action.

---

IEC 61850 consistency check includes check for missing OSI addresses (should be provided by IED, but is often missing).

---

Transformers are accepted on Station Level also, to be IEC 61850 compliant.

---

Several errors regarding Array handling in IEC 61850 corrected (Dataset Configuration).

---

### 1.14.4. MicroSCADA SYS600 related fixes

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MicroSCADA HL and LD attributes are implemented as bit masks in HMI data editor.

---

COM500 Event Channel handling was incorrect when e.g. importing LOF files.

---

Translated signal texts are imported to the correct customer language instead of the current language.

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## 1.15. Bug-fix release IET600 Version 5.3.112.2

(November 2015)

### 1.15.1. IEC 61850 related fixes

---

Import of ICD files with just small differences in Data Type Templates could lead to exceptions or incomplete import

---

Default RTU560 IEC 61850 IED capabilities allowed the engineering of non-functional configuration

---

Datasets could not be created on LNs other than LLN0.

---

RCB clients could be mapped with "Configure Empty" from "RCB Clients" in spite of Client LN protection (e.g for foreign IEDs in SED Transfer)

---

Exception in Single Line Diagram Editor when importing an IEC 61850 SCD file with user-defined equipment

---

Updating an IED removed the GCB and SVCB client mapping to access point under some conditions

---

### 1.15.2. MicroSCADA SYS600 related fixes

---

HMI Rules throw exception if an "&" character is used

---

It was not possible to add a signal of a stand-alone IED to an existing indication group

---

Incorrect behavior of Radio Buttons to select direct and mirroring signals in certain situations

---

## 1.16. Bug-fix release IET600 Version 5.3.112.1

(July 2015)

### 1.16.1. IEC 61850 related fixes

---

Deleted GCBs and SVCBs were not removed correctly which could lead to dangling addresses in the communication section.

---

Duplicate or dangling GCB address in communication section are not cleaned up when importing an SCD file containing such addresses

---

On IEDs with ServerAt Access Points, sometimes GCB Clients were configured on the wrong Access Point.

---

When deleting GCBs or removing Datasets from GCBs, Clients are not removed

---

When using 4 XCBRs to model a circuit breaker, the numbering was not adapted to existing mappings which could lead to wrong "Mapped To" attributes

---

### 1.16.2. MicroSCADA SYS600 related fixes

---

LOF export did not export anything when no errors and warnings were detected

---

RX attribute can exceed 63 characters when automatically calculated which causes truncation and warning on MIET import in MicroSCADA

---

When importing XREF files, the COM500 Event Channels were created on the wrong level (IED instead of HMI/Gateway)

---

The formula for OI/Station-dependent text for BNCCx\_GRP\_AS is not the same as for BNCCx\_GRP

---

NCC Command Group Creation fails when CSWI indexes >9 exist

---

---

Missing Enums for OPC Servers in SCD file after export

---

Integer/Float HMI attributes >10'000'000 are exported as exponential value 1E+07 in LOF file which creates an error on import into MicroSCADA

---

when importing translated signal texts, they were imported not into the language defined in the file, but into the current project language

---

### 1.16.3. Improvements

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IED Capabilities for RTU5xx Client and Server added.

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## 1.17. Feature pack release IET600 Version 5.3 FP1

(5.3.112, March 2015)

**This release replaced the former IET600 5.3.x versions.**

### 1.17.1. New interface for increased MicroSCADA SYS600/C engineering efficiency

---

New single exchange format containing all relevant information and data for configuration and update of a MicroSCADA database

---

Disturbance settings are now fully handled in IET600 (replacement of CET functionality)

---

Revised Customer Signal List (Excel export)

---

Allows customization of exported data and representation to accommodate customer's requirements

---

Extensive filtering, grouping and sorting features for to control export of data

---

Customized templates can be stored and re-used in other projects

---

Re-export of data without losing the customized formatting supported

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### 1.17.2. IEC 61850 related fixes and improvements

---

SSD file import support for selected sections of a Substation Specification Description file

---

Extensions for recursive Sub-function and Sub-equipment handling

---

IED Services are now shown in a new system wide overview

---

MicroSCADA SYS600/C Mirroring improvements for better handling of internal and grouped signals

---

Loosen naming restrictions in IEC 61850 substation section (support for 800xA system integration)

---

Improvements for end customer support

---

License keys and relevant system information can be provided to support line Improved logging operations

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### 1.17.3. IEC 61850 engineering

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Handling of ConfDataset.MaxAttributes for Ed.1 IEDs is resolved: for ABB Ed.1 IEDs Attributes will be counted, in all other cases, entries will be counted

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### 1.17.4. General

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Improved usability - it is now possible to change to another tab from a context menu of the tabs rather than using the arrows on the right side to scroll

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## 1.18. Bug-fix release IET600 Version 5.3.22.1

(August 2014)

### 1.18.1. IEC 61850 engineering

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Importing an SCD file did sometimes not set the project version correctly

Importing an ICD/IID file with an incorrect namespace version could cause the project version to be set to this illegal version as well. This caused a later SCD export to fail without error message -> new error message guides the user what needs to be done.

When creating default clients in the RCB Client editor automatically, an RTU5xx was still be configured as its own default client; this was not visible in the editor, and RCB clients were not generated, but it caused strange indexes for the default clients

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### 1.18.2. MicroSCADA SYS600 engineering

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Copy/Paste of a bay with HMI and NCC client data duplicated uplink signals

Station-dependent Names and LNs did not update from formula in certain situations (e.g. copying Bays in certain situations, importing ICD files in certain situations)

Command signals send to HMI cannot be mirrored

NCC commands did not convert to Single or Double Binary commands after changing the corresponding flag in Signal Handling Type

after migration of and old project, drag'n'dropping an HMI to the "Gateways" node did not always work

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### 1.18.3. General

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Filter in some editors did not work anymore

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## 1.19. Bug-fix release IET600 Version 5.3.22

(February 2014)

### 1.19.1. Communication

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SNMP was missing as a choice for Subnetwork protocols

Provide Plug Type "Other" for unspecified plug types

IEC 61850 engineering

Some vendors do not model GCB clients but use additional ExtRef information -> added this information in all cases to improve interoperability

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### 1.19.2. MicroSCADA SYS600 engineering

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consistency check for UN = 0 did create unnecessary warnings in some situations

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### 1.19.3. IEC 61850 engineering related

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In some situations, the DynAssociation.Max service was not correctly evaluated, which could lead to RptEnabled.Max set to a value lower than the number of RCB Clients

Modifying a Dataset did sometimes not increase the configRev value of its Control Block

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SCD import did not merge private sections on SCL root element

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Certain DOIs and DAIs were removed on SCD re-export

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**1.19.4. MicroSCADA SYS600 specific**

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Number of OPC servers per MicroSCADA was limited to 4 instead of 8

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