

## BuildIT 2015.5 SP1 Releases Notes

### Installation Notes

In order to install all the associated drivers properly, right-click on the setup file and select “Run as administrator”.

This installation does not overwrite installations of previous versions. You may continue to use any previous version alongside this one.

Contact us if you have any questions regarding versions and licensing.

### System requirements

	Minimum	Recommended
Processor	Intel Pentium 4 or equivalent	Intel Core i7 or equivalent
Operating system	Windows 7	Windows 7, 64-bit
Memory (RAM)	512MB	16GB
Disk space	1GB free for program files	250GB or more
Graphics card *	512MB OpenGL 2.0 (released in 2005)	nVIDIAQuadro (preferred) or AMD FirePro

We recommend updating the video driver to the most recent released version from the manufacturer website.

### Windows XP and Vista

**This release of BuildIT does not support Windows XP or Windows Vista** as an operating platform. This is in line with Microsoft's decision to discontinue support for the platform starting April 2014.

You may use BuildIT 2014 SP3 on XP and BuildIT 2014.5 SP4 on Vista for as long as you like and support will be provided, as per your support contract and compatible service packs (SP) may be released to address specific issues, but there will be no version upgrades to support this platform.

## Enhancements and Problem Fixes

### 2015.5 SP1

#### Enhancements

BITS-1952	Added new event synchronization methods for automated processes to allow integration with external applications
BITS-2038	Added the ability to manually specify the degrees-of-freedom locked by a surface feature used in a DRF
BITS-2156	Extended the FIND method in process automation to allow searching for entities belonging to a group
BITS-1936	Added the ability to evaluate Distance tolerances where some of the features were partially-measured planes
BITS-2138	Added the ability to select existing devices as the reference CS when importing points
BITS-2114	Added the ability to evaluate an Angularity tolerance with 2 datums where the second datum is only partially measured
BITS-2082	Added the ability to name surface and curve deviation analyses at creation time
BITS-2153	Fixed an issue in Import: DML where a warning was missing when importing point features as lines and the search for the nominal entity failed
BITS-2020	Improved the naming of surface deviation analyses created by the evaluation of Surface profile tolerances

#### Problem Fixes

BITS-2134	Fixed Leica AT930/960 broker crashes when connecting while tracker was still warming up
BITS-2166	Reverse offset direction not working properly with On plane + Measure plane option in Record Circle
BITS-2132	Fixed an issue in GD&T Analysis where a manual alignment would be incorrectly re-computed anyway
BITS-2127	Fixed an issue in File: Import: Points where a file could not be imported if its path contained accented characters
BITS-2116	Fixed an issue in Edit: Cloud: Delete points in cloud when the deleted points were used in annotations
BITS-2092	Fixed a crash in File: Import: Model when opening any BuildIT after cancelling a partial import
BITS-2083	Fixed a crash in Inspect Geometry during process playback if the referenced geometry did not exist
BITS-2043	Fixed a crash when copying a cloud used in an analysis
BITS-1909	Fixed an issue in File: Export: Model: CATIA V5 where the surface normals were incorrectly reversed
BITS-2133	Fixed an issue in GD&T Analysis where the automatic alignment of DRFs in the form of A B(M) C were not evaluated
BITS-2034	Fixed an issue in process playback where the execution pop-up was missing the command name in some cases

### 2015.5

#### Enhancements

BITS-1853	Enabled evaluation of Distance tolerances on partially-measured cylinders/circles/lines.
BITS-400	Added ability to define Datums using two-letter labels (e.g. AB, AF...)

- BITS-1660 Added a new Record Cloud: Radial Cross-Sections command
- BITS-1494 Added cylindrical and polar coordinate information for points in the Spreadsheet.
- BITS-1590 Added automation to Feature, DRF and Tolerance creation commands.
- BITS-36 Added the ability to use curves and points as nominals in Edit: Point Cloud: Auto-split and Associate.
- BITS-189 Added support for the evaluation of angularity tolerances.
- BITS-680 Added a new mode to the Bundling Registration command to find measurements pairs without associations.
- BITS-1578 Added support for automatic evaluation of DRFs that are under-constrained (1 or 2 datums).
- BITS-1514 Added support for the Kreon Baces Arm
- BITS-929 Added a Quick Connect button to connect/relocate a default device without opening the device manager.
- BITS-1137 Added a new curvature-sensitive point cloud reduction method in Edit: Point Cloud: Reduce.
- BITS-444 Added conditions and commands for improved error handling in automated processes.
- BITS-1250 Translated the whole BuildIT application in French - Traduction complète de l'application en français.
- BITS-1320 Added a new command to fill holes in Meshes.
- BITS-1411 Added the ability to resize the Process Editor window.
- BITS-985 Added support for automatic alignment to DRFs using partially-measured cylinders.
- BITS-349 Improved Edit: Cloud: Cross-Sections command to create parallel cross-sections without an underlying line.
- BITS-97 Added support for automatic evaluation of DRFs containing MMC/LMC modifiers
- BITS-981 Added a new File: Import: Mesh command.
- BITS-814 Added ability to search for entities in the Object Manager.
- BITS-1403 Added Laser Probe settings for Faro arm in Probe tab.
- BITS-1110 Added a tab for cones in the Spreadsheet.
- BITS-320 Modified the Extract Surface command to more easily focus operations on part of a cloud.
- BITS-43 Modified the display of deviation analyses in the tree to show the whole analysis rather than individual plots.
- BITS-1645 Added the ability to position the arc of angle annotations independently from the call-out.
- BITS-1805 Modified the File import to create a group per file when importing multiple files at once.
- BITS-5 Added audio feedback when there is a measurement error.
- BITS-937 Added an option in Bundling Registration to align the resulting network to the nominal points.
- BITS-1564 Improved geometry identification at import by using the CAD file's reported accuracy rather than a fixed threshold.
- BITS-854 Improved determination of the initial state for the Nearest/Select option.
- BITS-166 Added support for various representations (dotted, axis, dash) for curves.
- BITS-1427 Added parameter groups for command in the process editor to simplify editing.
- BITS-220 Added an uncertainty definition window in the device manager to customize the device definition.
- BITS-1021 Added ability to Discard (long-press Red) and toggle trigger mode (long-press Green) using Faro arm buttons

- BITS-1361 Added keyboard shortcuts for switching between trigger modes (SHIFT-F9 and CTRL-SHIFT-F9).
- BITS-1251 Added support for the evaluation of perpendicularity/parallelism for partially measured cylinders/lines.
- BITS-1193 Added support for the evaluation of circle features using one point.
- BITS-1125 Added ability to export IJK and RGB components in Export Points.
- BITS-963 Added ability to customize the annotation background for GD&T features.
- BITS-1405 Improved the Restore Autosave file location to automatically show after an unplanned stop.
- BITS-1131 Modified the process playback to use a standard command form for variables, including filters.
- BITS-1627 Modified Excel reports to use the XLSX extension by default.

## Problem Fixes

- BITS-1422 Fixed an issue in File: Export: Mesh to use the active units.
- BITS-1683 Fixed an issue with "Select all passed annotations" where only the first Surface Inspection would be selected.
- BITS-1437 Fixed a crash when trying to auto-align to Constructed points.
- BITS-1655 Problems when Auto-measure when stable is ON
- BITS-1768 Fixed an issue with Split cloud where surface deviation annotations on the cloud were not correctly maintained.
- BITS-1769 Fixed a crash when pressing the File New button while BuildIT was still launching.
- BITS-1524 Fixed an issue with the Display Message process command which wouldn't pause when at the end of a process.
- BITS-1561 Fixed a crash when attempting to save a process to a read-only file.
- BITS-1190 Fixed an issue where canceling a command would undo other actions made since the command was open.
- BITS-1812 Fixed an issue in File: Import: Points where the import would fail if the file was currently open in Excel.
- BITS-999 Fixed an issue in brokers where pressing ESC would close the broker.
- BITS-1071 Fixed an issue where importing a model using File Content would close open brokers.
- BITS-1576 Fixed an issue where annotations extension lines changed color when changing font color of a new annotation.
- BITS-1729 Fixed an issue with distance annotations where the leader lines weren't updated when changing entities.
- BITS-1449 Fixed an issue where picking a grouped entity with Group Picking enabled would use the wrong entity.
- BITS-1603 Fixed an issue in Inspect Geometry where the counter wouldn't go past 30000 points.
- BITS-1881 Fixed an issue for API Omnitrac 2 broker where the I-Vision button was incorrectly disabled.
- BITS-994 Fixed an issue in the Faro tracker broker where the Front & Back option for stationary points was not persistent.
- BITS-53 Fixed an issue where double-clicking on a process wrongly asked to save the current model.
- BITS-394 Fixed an incorrect warning when offsetting a curve with an analysis.
- BITS-1854 Fixed a crash when attempting to create a group using the CTRL+G shortcut while another command

was open.