

BuildIT 2016 SP3 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

2016 SP3

Enhancements

- BITS-3256 Added an option to the contextual menu for analyses to clear the current analysis.
- BITS-3291 Modified the analysis command automation to load associated points automatically if the point list is empty.
- BITS-3236 Modified the CATIA V4 importer so a top-level group is always created to hold geometry.

Problem Fixes

- BITS-3312 Fixed an issue in the Best-Fit alignment where the report wouldn't match the selection if all objects of a single type (point, vector, surface) were unchecked.
- BITS-3257 Fixed an issue with the GD&T inspection report with large pattern features spanning multiple pages.
- BITS-3304 Fixed an issue when importing IMW files where the measurements would be split into the wrong devices.

2016 SP2

Enhancements

- BITS-3100 Modified the surface highlighting during inspection to preserve all other rendering settings (mode, transparency...).
- BITS-3098 Added the ability to set the threshold for the geometry identification at import (Simplify Quadrics).

Problem Fixes

- BITS-3011 Fixed an issue in Inspect Geometry where successive surface measurements were not properly associated.
- BITS-3044 Fixed an issue in automated measurement commands, where closing using ESC would not continue the process.
- BITS-3034 Fixed an issue in the broker DROs where in Relative mode, the offset wasn't applied using the active CS.
- BITS-3094 Fixed an issue in Inspect 2D Hole when using one-click circle where the center point was not properly associated.
- BITS-3110 Fixed a crash when attempting to inspect an illegal geometry in Inspect 2D Hole in a process.
- BITS-3135 Fixed an issue in curve deviation analyses where the maximum deviation value wasn't shown in the histogram.

2016 SP1

Enhancements

- BITS-2461 Modified the model import where GD&T Features will not be imported if their associated geometries are not imported
- BITS-2919 Improved the object picking in Wireframe mode
- BITS-2856 Modified the Point Inspection Annotation command to reference the associated Actual Point if no Nominal is found
- BITS-2944 Added Show Details option for elements of pattern features in the new entity-based reporting scheme

Problem Fixes

BITS-2813	Fixed a crash when deleting an annotations group in the report panel
BITS-2864	Fixed a crash that would occur in some cases when opening a file containing an analysis
BITS-2915	Fixed a crash that would occur in rare cases when opening a file containing Actual geometries associated to a DRF
BITS-2928	Fixed a crash when using Curve Deviation Analysis with specific parameters
BITS-2834	Fixed a crash when opening a new file after rectangle-selecting with the Construct Freeform Curve Fit command
BITS-2890	Fixed an issue where in certain circumstances measurements could not be taken after Quick Relocate
BITS-2876	Fixed a display issue of color scale for analysis commands
BITS-2886	Fixed an issue where a wrong value could be reported when evaluating the distance between a point and a mesh
BITS-2689	Fixed an issue in the 3D view's contextual menu where some options that should be disabled were not greyed-out
BITS-2726	Fixed an issue where some contextual menu items were mistakenly shown
BITS-2883	Fixed an issue where the Leica 930-960's displayed Measurement Profiles did not match actual settings
BITS-2879	Fixed an issue where the maximum deviation value for Curve Deviation Analysis was not shown in the Message Bar
BITS-2792	Fixed an issue in the entity-based reporting where adding a feature to the report did not add its tolerances
BITS-2775	Fixed an issue for demo licenses running on VPN
BITS-2845	Fixed an issue in Point Inspection Annotation where the name was not recorded in the process
BITS-2870	Fixed an issue in Datum-Based Alignment where the preview did not display measurements correctly when one or more datum was pre-fitted
BITS-2782	Fixed an issue where rectangle select did not select curves that were too small or too far away
BITS-2842	Fixed an issue where Datum-Based alignment results were flipped
BITS-2800	Fixed an issue where the Load Recent Process in Editor did not open the most recent version of the saved process
BITS-2768	Fixed an issue where Save Current View option was not available when right-clicking on an empty View section
BITS-2807	Fixed an issue where the persistence of the noise value of the mouse probe was lost
BITS-2831	Fixed an issue where the shortcut Shift + Alt to move distance annotations was partly broken
BITS-2902	Fixed an issue where alignments were not applied correctly if DRF contains a point, sphere or circle, and a datum modifier
BITS-2793	Fixed an issue where the entity-based reporting properties were not initialized when opening a new file
BITS-2875	Fixed an issue where Distance Between Geometry annotations were not being anchored correctly after opening a file saved in a previous version
BITS-2972	Fixed an issue where the coordinate panels were missing in CS - Rotate and CS - Translate commands
BITS-2859	Fixed a minor issue about right-click for polygon selection in Extract Surface from Cloud command
BITS-2938	Fixed some minor issues about Distance Between Points Report during process playback

2016

Enhancements

BITS-1506	Added support for translation/rotation limits for composite positional tolerances
BITS-2494	Added a histogram to analysis legends
BITS-2441	Added an option to have the Actual geometry created when evaluating GD&T tolerances
BITS-2181	Added Views and their related management to the object manager

BITS-2111	Added the ability to export/import settings and persistence (user profiles)
BITS-1821	Added mesh compatibility to Annotations, Inspect Geometry and Best-fit alignment
BITS-1138	Added support for 3D sections in views
BITS-1133	Added support for the circular run-out and total run-out tolerances
BITS-181	Added a perspective projection visualization method
BITS-133	Added settings to configure the view manipulation using the mouse
BITS-9	Added a new entity-based reporting scheme to BuildIT
BITS-1766	Added support for expression evaluation as command parameters in automated processes
BITS-932	Added real-time deviations to the Inspect Targets command
BITS-354	Added a new Simulated Device using the Mouse
BITS-306	Added support for the circularity tolerance
BITS-2523	Modified the vector panel for all commands to save the X, Y, Z vectors following the active CS rather than converted to the World Axes
BITS-2298	Added settings to customize the default annotation titles
BITS-2105	Renamed Design/Constructed geometry classes to Nominal/Actual
BITS-1765	Added the ability to break out of a looping operation on error
BITS-1665	Extended Search to allow filtering on various criteria in addition to name
BITS-1637	Simplified measurement process for Hidden Points (removed Accept for near and far points)
BITS-1431	Added the ability to manually enter the actual value for diameter tolerance
BITS-1206	Improved the Show/NoShow states of imported models, better using the group rather than individual visibility
BITS-2641	Improved the algorithm for local diameter evaluations when "Check local section only" is selected
BITS-2570	Modified GD&T evaluation to allow Surface Profile evaluation on partially-measured planes
BITS-2490	Modified the Quick Connect/Relocate command to prevent connecting if the SHIFT key is pressed
BITS-2473	Modified the Construct Fit commands to use the probe offset of the last selected points by default
BITS-2438	Modified the Merge Cloud command to hide the original clouds after merging
BITS-2070	Added the ability to aim on a point of a curve or surface
BITS-2026	Added automation to the File: Export model command
BITS-1693	Added a shortcut for Select All (CTRL + A)
BITS-1682	Added the ability to delete a point in the Auto-alignment panel
BITS-1602	Added the ability to reorder variables in Process Editor
BITS-1550	Added support for ValueList, Color and Boolean variable types in processes
BITS-564	Added automation for setting the number of stationary samples
BITS-346	Added BuildIT file details in Windows Explorer
BITS-623	Improved Inspect 2D Hole compatibility with GD&T circles
BITS-302	Added support for pattern features and composite tolerances in DML import/export
BITS-264	Added support for process icons in the Automate menu
BITS-2609	Added double-click support to set Analyses, CS, Devices and Alignments active

Problem Fixes

BITS-2360	Fixed a crash when recording a circle on measured plane in a process
BITS-2271	Fixed a crash when editing annotations and using middle-click to accept
BITS-2247	Fixed a crash in process playback when referencing an uninitialized variable
BITS-2629	Fixed an issue with pattern features of lines where the vector was not normalized
BITS-2584	Fixed an issue where the point names in analysis reports would be incorrect after saving and opening a file
BITS-2574	Fixed an issue with incorrect distance tolerance annotations extension lines when using "Distance along vector"
BITS-2408	Fixed an issue with Circle deviation analyses where the active alignment was incorrectly applied
BITS-2373	Fixed an issue in Inspect Geometry where pressing ESC would clear the deviation values
BITS-2359	Fixed an issue where the wrong index was displayed when a pattern feature tolerance failed
BITS-2284	Fixed an issue in the spreadsheet where the Temperature and Pressure units did not listen to the settings
BITS-2160	Fixed the offset points saved in the Record Circle comment so they have the proper probe offset defined
BITS-2502	Fixed an issue with a missing warning of lost measurements when using keyboard shortcuts
BITS-2215	Fixed an issue where the distance between a partially-measured cylinder and a line could not be evaluated
BITS-990	Fixed an issue where the extension lines of some imported distance tolerances were not in-plane
BITS-2621	Fixed an issue where the DRO output was not correctly updated in relative mode when changing units
BITS-2550	Fixed an issue when extending a cone where the normal was always set outwards
BITS-2161	Fixed an issue with pattern features of circles where the orientation (Hole vs Pin) was incorrectly saved