June 2025

WATS Client 6.1 Release Note

Requirements list

- Windows
    - o 8.1 - 32 and 64 bit
    - o 10 – 32 and 64 bit
    - o 11 – 64 bit
- Microsoft .NET Framework 4.7.2 (runtime 4.0)
- Connection to WATS Server, minimum server version: 2021.2

Optional

- **TestStand Add-on**: TestStand version 2012 – 2023Q4
  (WATS add-on for TestStand 2012 supports LabVIEW 8.2.1 or above. TestStand 2013 supports LabVIEW 8.6.1 or above. TestStand 2014 supports LabVIEW 2009 or above. TestStand 2016 and 2017 supports LabVIEW 2013 or above. TestStand 2019 supports LabVIEW 2016 or above. TestStand 2020 and 2021 supports LabVIEW 2017 or above. TestStand 2022 and 2023 supports LabVIEW 2019SP1 or above.)
- **LabVIEW toolkit**: LabVIEW 2013 – 2025

Change history

6.1.134

Release date: 2025-Jun-19
Bugfixes:
- WATS Package Manager prompted that there are files to download when files with OverwriteNever or OverwriteOnNewVersion have been modified.
- WSXF-Importer allowed UUR reports with ReferenceUUT value that is not a GUID.

6.1.133

Release date 2025-Mar-19
- Add support for LabVIEW 2025
Bugfixes:
- WJSF-Importer did not bubble non-passed statues up the sequence hierarchy in Active mode.
- TestStand add-on crashes if the TDM API fails to initialize.

6.1.131

Release date: 2025-Jan-20
Bugfixes:
- ATML Importer used ReportText as a String Value Step.
- TS-Legacy Importer failed to convert if the report had subunit.

6.1.130

Release date: 2024-Dec-02
- Removed "Everyone" permission from WATS Client Service.
- Add option to enable GPS tracking when installing.
- Improved TestStand add-on error logging.
- Enable "Display Preload Progress" when executing a sequence file from a Software Package with WATS_SoftwareModel in TestStand.
- Enable WATS_Asset_Info container type from TestStand add-on to be passed to LabVIEW.
Bugfixes:
- Software API did not update the locally stored package tags for offline use.
- Fixed type conflict with NI_ModelPluginComponentDescription in TestStand add-on.

6.1.122

Release date: 2024-Sep-09
Bugfixes:
- GetPackagesByTag in Software API returned all installed packages when offline.
- Editing PartInfo in an UUTReport loaded from LoadReport sometimes did not save the changes.
- WSJF-Importer used the system culture to parse numbers instead of invariant culture.

6.1.121

Release date: 2024-Aug-06
- Added support for Software Package file attribute ExecuteOncePerVersion.

- LabVIEW toolkit:
  - o Fixed an issue with Asset Reset Calibration and Maintenance date.
  - o Improved Skipped, Terminated and Error status handling in Put UUT.

Bugfixes:
- First time installation sometimes failed to set up the client properly, leading to errors like "The file 'Deploy.xml' could not be found".
- FindStep, GetStep, AllSteps, and FailedSteps in UUTReport failed if the report had a SequenceCall step with no steps in it.
- WJSF-Importer did not set SequenceCall steps status when converter was in Import mode.
- ATML-Importer wrongly assumed StringValue steps with LOG comparison operator was ReportText.

6.1.116

Release date: 2024-May-14
- When installing, the client will attempt to automatically change connection from *.skywats.com to *.wats.com.
- Updated signing certificate.
- Added overload for AssetHandler.Calibration and AssetHandler.Maintenance with DateTime parameter to log when the action happened.
- Added Operator property to MES.Production, which is used to log operator in Unit History.

Bugfixes:
- Configurator crashed if TestStand Deploy info file did not exist.

6.1.109

Release date: 2024-Apr-02
Bugfixes:
- TestStand add-on failed to create UUT when using a measurement step as adapter to call a subsequence and this step is also looped.

6.1.108

Release date: 2024-Mar-11
Bugfixes:
- WSJF-Importer failed with error "JObject instance expected" for most valid reports.

6.1.106

Release date: 2024-Feb-23
Bugfixes:
- Looped steps did not loop properly, so they were not shown as loop in Step Details.
- TestStand add-on only included error code and message when it was used to log an error, not a when error was used to log a warning.

6.1.105

Release date: 2024-Jan-29
- Added support for LabVIEW 2024.
- Added support for UUR reports to WSJF-Importer.
- Added warning when registering a WATS Client with the same name as an existing client.

- Disallow empty custom identifier.
- Refresh converter state after Apply.

Bugfixes:

- TestStand add-on created invalid report when report status was unknown.
- Package Manager had connection problems after disconnecting and re-connecting in WATS Client Configurator.
- Package Manager with empty filter matched no packages.
- Package Manager did not clear "Available to update" when changing filter.
- Pending reports could get stuck because retrying failed pending reports fails.
- Error from SubmitOffline method could make an incomplete, invalid report file.

6.1.101

Release date: 2023-Nov-10

- Added support for TestStand 2023Q4.

6.1.97

Release date: 2023-Oct-31
Bugfixes:

- TestStand add-on fails to create UUT when measurement does not have Comp property.

6.1.95

Release date: 2023-Sep-28

- LabVIEW toolkit: Added "Update Asset" VI and "GetTakenSerialNumbers" VI.

Bugfixes:

- WSJF-Importer ignored Asset usage.

6.1.94

Release date: 2023-Aug-28

- Added overloads of Production API that takes unit serial number and part number, in addition to the methods that take just unit serial number.
- Added GetUnitHistory to Production API.
- Added GetTakenSerialNumber to SerialNumberHandler.
- Added SourceFilter and SourcePostProcessingAction to ConversionSource.
- Added encryption of client pass code.

Bugfixes:

- SerialNumberHandler did not work when using proxy.

6.1.91

Release date: 2023-May-02

- Added support for Unit Verification API to LabVIEW toolkit (only supported with WATS Server 2023.1 or newer).

6.1.88

Release date: 2023-May-09

- Added support for LabVIEW 2023.
- Added API for Unit Verification (only supported with WATS Server 2023.1 or newer).
- Added Level and Product Group restriction info to Common User Settings.

Bugfixes:

- WSTF Converter threw error when next step after a SequenceCall step has same step name as the sequence call.
- In some cases, decimal values lose precision, i.e. changes from 2.4 to 2.3999999999999999.

6.1.81

Release date: 2023-Feb-27

Bugfixes:

- TestStand add-on did not support Sequence Calls without ResultList property.
- In WSTF, if the last step in a SequenceCall and the first step in the next SequenceCall had the same name, they were assumed to be two measurements on the same test step.

6.1.79

Release date: 2023-Feb-09

Bugfixes:

- Legacy-TSImporter had wrong folder by default.
- When the Input Path folder to a converter did not exist, the client failed update all converter statuses in System Manager.
- TestStand add-on only allowed standard CompOp
- TestStand XY Graph step only set default ChartType value when another property had been edited by the Edit popup.

6.1.76

Release date: 2023-Jan-23

- Reintroduce legacy "TSImporter" converter for backwards compatibility.

Bugfixes:

- Teststand unnecessarily fetched processes from WATS server for each submitted report instead of using local cache.
- ATML Converter failed if ATML file did not contain part number (no Definition element).

6.1.75

Release date: 2023-Jan-06

- Added support for Software Package file attributes OverwriteNever and OverwriteOnNewPackageVersion.

Bugfixes:

- Fixed support for empty step in ResultList in TestStand.

6.1.74

Release date: 2022-Dec-14

Bugfixes:

- TestStand skipped misc info that did not set a value to Description, Data_String, and Data_Numeric. Now only Description must be non-blank.

6.1.72

Release date: 2022-Dec-07

- Added setting for automatically collecting GPS location coordinates, independent of Windows Location settings. Both must be enabled for GPS coordinates to update automatically.

Bugfixes:
- Setting Location or Purpose to empty in System Manager in WATS caused the WATS Client to go Offline initially when starting up.
- In TestStand, the Loop Initialization step for a MessagePopup loop did not have ButtonIndex and Response set.
- In TestStand, the Loop Initialization step for a CallExe loop did not have ExitCode set.
- TestStand threw error when there were non-looped steps after a loop.
- TestStand threw error a step with the Sequence adapter was also looped.

6.1.67

Release date: 2022-Nov-18
- Updated .NET Framework requirement from 4.6.2 to 4.7.2.
- Add support for empty step in ResultList in TestStand.

Bugfixes:
- TestStand threw error when step status was a number (instead of setting Unknown).
- Teststand threw error instead of skipping empty misc info.
- WSJF Converter ignored startUTC.

6.1.64

Release date: 2022-Nov-07
- Added support for TestStand 2022.
- Added expand as parameter to TDM.FindReportHeaders, and added more properties that can be filtered on and returned. These properties and the expand parameter only works with WATS 2022.2 or newer.
- ATML converter supports TestStand Additional Data in header, batch serial number, and test socket index.
- Added Software.GetRootPath to Software API.

Bugfixes:
- API documentation was not shown in tooltips in Visual Studio.
- Applications built with WATS Client 5.x did not work with WATS Client 6.1.

6.1.56

Release date: 2022-Sep-21
- General
  - Added option to set custom client identifier from Setup page in WATS Client Configurator.
  - Connection test tests that WATS Client Service can submit reports.
- API (.NET)
  - New UUT report header data: Asset.
  - UUT steps with status Skipped will remove measurement data, including sub-steps if a SequenceCall is Skipped.
  - Charts have plot limit of 50 plots (configurable in settings.json). Adding more plots than the limit will either throw or be truncated depending on ValidationMode.

- o New UUR report methods for attaching files: UURReport.AttachFile, UURReport.AttachByteArray, Failure.AttachFile, and Failure.AttachByteArray.
- o TDM.FindReports is replaced by TDM.FindReportHeaders, which uses the same property names as the GET api/report/query/header rest API and supports the same options. TDM.FindReports still exists for backwards compatibility, but is marked obsolete.
- o Many UUT report number properties has a complimentary -Format property. Number format supports C printf style numeric formatting and is used to display numbers in WATS UUT report.
- o New MES.Software.SetRootFolderPath method to edit Software Root Folder dynamically.
- o Serial number handler no longer requires special access token (GUID) to initialize or cancel.
- o The siteName parameter in SerialNumberHandler.Initialize is deprecated and does nothing.
- o AssetHandler Calibration and Maintenance API no longer require Admin credentials.
- o AssetHandler Calibration and Maintenance has new optional comment parameter.
- o AssetHandler has new ResetRunningCount API.
- o Proxy setting Default uses the system's proxy settings.
- o When connecting the WATS Client to WATS causes a conflict, the error message explains why.
- o New built-in converter, WATS Standard Json Format.
- TestStand
  - o New execution entry point "Test UUTs with Software Distribution" (TS 2020 and above)
  - o New UUT misc header data: Assets. (TS 2019 and above)
  - o All WATS test steps now uses .NET in edit GUI with new features.
  - o Support numeric formatting (WATS UUT reports will use the TS numeric formatting when displaying numbers).
  - o Save UUT reports to WATS now uses the API directly (not using the "TSImporter" converter).
  - o Edit GUI for WATS_XYGraphNumericLimit has a limit of 50 plots.
  - o Support NI_PropertyLoader step type.
- LabView
  - o Asset
    - Added support (sub VIs) for Reset Calibration, Maintenance and RunningCount.
    - Add support for asset hierarchy depth (select NumberOfLevels) in GetSubAssets
  - o RepairUUR – Attach file to UUR header
  - o Fixed some typo text in the toolkit (Note; this changed some CTL files)

Bugfixes:
- The WATS Client Service could crash if wats.log file was locked by another program.
- Converters with post processing action Zip did not work with some language settings.

- Serial Number Handler did not cancel reservations when client was disconnected from the WATS Client Configurator.
- Serial Number Handler could fail to cancel reservations and give error, but then continue to use the reserved serial numbers.
- The WATS Client Configurator did not list 32-bit and 64-bit LabVIEW version if they were both installed.

WATS Client 6.0 change history

6.0.263

Release date: 2022-08-15
Bugfixes:
- TestStand add-on did not work with TestStand 2021 (only 2021 SP1).
- WATS Client Service failed to restart after converter configuration.

6.0.262

Release date: 2022-08-03
- Added support for LabVIEW 2022 Q3.

6.0.261

Release date: 2022-08-03
- Added support for TestStand 2021 SP1.

6.0.260

Release date: 2022-06-24
- Added a setting for configuring the delay between uploading reports from the offline buffer.

Bugfixes:
- Software packages without any tags failed to download.
- ATML converter did not set measurement status, including on multiple measurement steps, only step status.
- ATML converter set wrong step name on SequenceCall steps.
- Setting step status on a step with single test should also set the test status, but did not work when the step variable was of type Step (as opposed to NumericLimitStep, etc).

6.0.257

Release date: 2022-04-04
- In WATS standard text format, if high limit is not set when it is not required the limit will not be NaN (not a number).

Bugfixes:
- When registering the WATS client directly in the API fails, the actual error was sometimes hidden and a null reference exception was thrown instead.
- The WATS Client did not periodically download changes to processes (test or repair operations).
- LabVIEW toolkit had a memory leak.
- If SW Debug test operation is disabled, Test Connection did not work.

6.0.247

Release date: 2022-01-18
Bugfixes:
- Setting step status on a step with single test to Done, Error, or Terminated did not work.

6.0.242

Release date: 2021-11-25
Bugfixes:

- In LabVIEW 2021, TDM object reference did not close properly.

6.0.240

Release date: 2021-11-17

- Added support for TestStand 2021 and LabVIEW 2021.
- Setting step status on a step with single test will also set the test status, which should remove issues with step and test having differing statuses in Import mode.
- Added installer property LAUNCHMODE, which can be set by unattended installation scripts to never or always open the WATS Client Configurator window after install. See the article 'Unattended install of WATS Client' on the Help Center.

Bugfixes:

- Reports were marked as .InvalidReport because of temporary file access issues.
- WSTF Importer did not use the fileEncoding parameter.
- WSTF Importer did not allow thousand separator.

6.0.235

Release date: 2021-09-14

- Shows converter state in Converters tab in Configurator, to show if a new installed converter starts running or fails.
- Added option for how many levels of assets to get with GetSubAssets in AssetHandler.
- Added error logging to catch Configurator startup problems.
- Switched to a FIPS compliant algorithm for storing proxy info.

Bugfixes:

- Converters failed on clients not registered to a WATS.
- WSXF Importer did not handle time zone offset in Start.
- TestStand Identify Product included inactive processes.
- CreateUUTReport in TDM failed silently when passing null as serial number, part number, or revision (continued with a report that is missing header data).
- MES API did not log errors caused by network errors.
- WATS Client NuGet package crashed on machines that have never had the WATS Client installed.

6.0.216

Release date: 2021-06-02

- Added Suspend, Resume, Cancel, AddUnit, and RemoveUnit to Workflow API.

Bugfixes:

- Renewed code-signing certificate.
- ATML Importer uses Import mode (uses Status in report instead of calculating it).
- LoadReport properly loads MiscInfo and Failures for UUR reports.

6.0.210

Release date: 2021-05-18
Bugfixes:

- Upgrading to 6.0.209 did not install standard converters.

6.0.209

Release date: 2021-04-16

- In Test Connection window, Submit Advanced UUT uses client's Location and Purpose.
- Changed the behaviour of the status banner popup in the WATS Add-On to use the standard TestStand popup instead if the WATS Option SequentialStatusTimeout = 0 (GeneralOptions.config). Only for TestStand 2019 and newer.

Bugfixes:

- Yield Monitor did not work with blank part number.
- TestStand XYGraph step used previous chart values if an error occurred.
- ATML Importer ignored tests with Comparison type Log.
- WATS.log showed wrong Windows version number.
- Having many Error reports in Reports folder caused new reports to never be sent.

6.0.205

Release date: 2021-02-23

- Added support for TestStand 2020.
- Added YieldMonitor API to TDM.
- WATS Package Manager will start in background on startup.

Bugfixes:

- Pending reports were counted twice.
- Default filter in WATS Package Manager was an invalid filter. Now it is station name.
- Fixed 'Send advanced UUT' in 'Test Connection'.
- Fixed issue where client thinks it is registered, but it isn't.

6.0.192

Release date: 2020-11-19

- Removed support for using PDF in converters. This will affect some custom converters; they will need to be updated.
- Fixed AddTest and AddMultipleTest so the API will not allow creating invalid reports.
- Added About text to Client Monitor.

Bugfixes:

- Location and purpose with non-ASCII characters became corrupted.
- Converters that had never started were not logged to server.
- Converters would fail on start-up if they had zero parameters.

6.0.180

Release date: 2020-10-12

- Deprecated Production.UpdateAttributes and replaced with UnitInfo.SetTag.
- Added UUTReport.GetStepCausedUUTFail.
- Added option to use custom identifier instead of machine MAC address to authenticate with WATS.

Bugfixes:

- LabView could not load WATS-Core.dll
- Loading an existing report in LabView when StartUTC was not set caused a crash.
- ATML Converter did not support EQT comparison or Infinity values.
- LabView did not use TLS 1.2 by default.

- TestStand add-ons for TestStand 2014 or older were not uninstalled properly in some cases.
- Using ConversionSource.ConversionSourceRoot caused a crash.

6.0.168

Release date: 2020-09-03

- FindSteps is case insensitive and stepPath does not require slashes.

Bugfixes:

- ATML Importer crashed when encountering additional data.
- Configurator crashed when you configure an address that isn't HTTP or HTTPS.
- Loading an existing report and changing the status of a test caused a crash.
- Converter error count was reported wrong to WATS.

6.0.164

Release date: 2020-08-18

Features

General

- Updated to Microsoft .NET Framework 4.6.2 (runtime 4.0)
- WATS Package Manager is installed alongside the WATS Client and can be opened from the tray icon menu.
- Client monitor has button to generate support log.
- Client monitor has button to enabled verbose logging for 24 hours.
- Added Serial Number Handler to Client Configurator.
- MES Utilities LabView toolkit gets installed along with TDM LabView toolkit.
- Upgrading the WATS Client will no longer undo custom TestStand configuration (change process model).
- Location and Purpose can only be set before connecting to a WATS server, afterwards it must be edited from the WATS server Control Panel*.
- Error reporting is now uploading the wats.log every hour instead of "pinging" the server for every error.
- GPS coordinates will no longer be set manually from the WATS Client. New Station Map uses Levels to pinpoint locations on the map*.
- Converter status, version, and parameters, as well as installed WATS addons for TestStand and LabView, are now reported to the server*.
- The MAC address in use for authentication is displayed in the Client Configurator.
- Converter parameters support illegal XML characters, such as Regular Expressions.

Features in preview

- Location Service in Windows 10 is used to automatically collect the GPS coordinates.
- Auto update the WATS Client from the server side*.

API

- Subunits requires serial number.
- Software API supports offline mode.
- Asset API supports creating asset types.
- New report property, StartDateTimeOffset, where start date and time can be specified with timezone.

Bugfixes

- TestStand add-ons were not uninstalled properly in some cases.

* Only supported in WATS 2020.2

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