

Software note**Biacore™ T200 Software version
3.2.1**

This document describes

- Biacore T200 Control Software version 3.2.1
- Biacore T200 Evaluation Software version 3.2.1
- Biacore T200 Kinetic Summary version 3.2.1
- Biacore T200 GxP Software version 3.2.1

in terms of functionality, fixed and known software issues.

The software note is also accessible on web (cytiva.com/biacore) create an account and log-in to enable download of software and related documents. Please check the web version for the latest information.

Operating systems

Biacore T200 Software version 3.2.1 is compatible with the following operating systems:

- Microsoft™ Windows™ 10 Professional, 64-bit
- Microsoft™ Windows™ 10 Enterprise, 64-bit

Functionality

The Biacore T200 Software version 3.2.1 contain improvements and defect corrections based on customer requests in the areas of protein characterization and quality control as well as general updates.

The functionality is described in detail in the Biacore T200 Software Handbook that can be downloaded on web using the product key.

Design Engineering for Cyber Security

The product has been developed using the Cytiva process for Design Engineering Privacy and Security (DEPS). This process incorporates security controls from the Cytiva controls catalog, based on NIST 800-53, into our product specifications, to meet privacy and security. The process includes the following key elements:

Analysis of inherent risks based on an asset analysis

Privacy impact assessment to minimize collection, use, and disclosure of identifiable personal data and ensure adequate controls application

Security risk assessment based on analysis of security threats and potential security related failure modes

This product was tested according to Cytiva Privacy and Security Catalog, version 6.

The Privacy and Security Manual for this product is an important document that describes Privacy and Security considerations of the product – specifically the expected intended use, the Privacy and Security capabilities included, and how they are configured and used appropriately.

Biacore T200 Control Software version 3.2.1:

New or changed functionality compared to version 3.2

- The software is now Cytiva branded
- The default activation solution for immobilization with aldehyde coupling has been changed from "Hydrazine" to "Carbohydrazide" to align with our current recommendations for sensor chips C1, CM5 and Custom.
- Biacore T200 Control Software version 3.2.1 has been verified with Windows 10 Professional edition (64-bit) and Windows 10 Enterprise edition (64-bit). Support for Windows 7 has ended.

Resolved issues

#	Description
1	In some cases, a third-party component (Matlab) used by Biacore T200 Software came in conflict with antivirus software, causing Biacore T200 Software to crash. This component is now replaced.

Known issues / limitations

#	Description
1	Method builder: A problem occurs when the Sample command is in a command sequence within an If...Then command. Such a method does not generate keywords for the Sample command as intended. When such files are opened in Evaluation Software several error messages appear when the Keyword Table is opened and some evaluations will fail since required information is missing. A similar problem occurs when a General command is in such a command sequence. Keywords for the General command will not be generated. Workaround: Do not use Sample or General commands within an If...Then command.
2	Fast user switching: It is not supported to run the Control Software while using the "Fast user switching" functionality in Windows.
3	Concentration Analysis wizard: The order of the Assay Steps becomes incorrect if the repetition settings on Calibration curves are turned on while it is turned off for Control samples. In this case the Control samples are run before the first calibration curve. Work around: Use the same repetition settings for both Control samples cycles and calibration cycles.
4	Regeneration scouting wizard: when using, the regeneration scouting wizard with capture. The plot generated shows the sample baseline instead of the capture baseline.
5	Tools: In rare situations this error message can appear after a tool (like Desorb) is completed, or when one step in the tool is completed: System.NullReferenceException: Object reference not set to an instance of an object. at BWToolDriver.WizMain.OnRunReady After closing this message, it may reoccur frequently until the instrument and PC have been restarted. Workaround: If this error occurs, restart the instrument and PC and rerun the tool.

Biacore T200 Evaluation Software version 3.2.1

New functionality compared to version 3.2

- The software is now Cytiva branded
- Biacore T200 Evaluation Software version 3.2.1 has been verified with Windows 10 Professional edition (64-bit) and Windows 10 Enterprise edition (64-bit). Support for Windows 7 has ended.

Resolved issues

#	Description
1	Plot & Sensorgram: Selected cycles change when closing and reopening drop down list
2	CFCA evaluation: when blank subtraction is used, it is possible to change the cycle used for blank subtraction. After such a change the software does not always use correct curve type for subtraction. For example, the software may use the curve from the reference flow cell for blank subtraction instead of the reference subtracted curve, and this will result in incorrect evaluation. Workaround: The problem does not occur with the blank cycles suggested by default in CFCA evaluations. If the cycle used for blank subtraction needs to be changed the user can exclude unwanted blank cycles in a Sensorgram item before creating the CFCA evaluation, since that will ensure correct curve from the blank cycle is used in CFCA.

Known issues / limitations

#	Description
1	Performance handling larger data sets: When performing affinity and kinetic screen evaluations with many samples 1Hz data is recommended as 10 Hz data might cause out of memory exceptions. The Result plot is designed to cope with up to 5000 single concentrations samples while the screen items are designed to handle up to 200 concentration series. Higher number of samples is not supported, especially opening and saving of files will take more time and the software might exhibit erroneous behavior.
2	Kinetics/Affinity: If using multiple R-max and then deleting the last multiple R-max the settings for the only remaining R-max will be reset to default values.
3	Kinetics/Affinity: If an adjustment of the injection start event is performed after sensorgram data has been cut, the position from where the data has been cut is also adjusted. Workaround: Always perform adjustment of the injection start event before any cut of sensorgram data.
4	Export curves: Fitted curves have a limit in the number of data points that can be exported using right click menu on a chart. Exported fitted curves are truncated at 32767 points, which corresponds to about 55 minutes in 10 Hz.
5	Plot: axes unit when looking at molecular weight adjusted slope. Displayed unit is 100*RU /Da and should be 100*RU/sDa.
6	Ligand levels: When using user-defined report points in combination with capture corrections in result plot the ligand level value will be incorrect if the user-defined report point name begins with "baseline" or "capture".
7	Backward compatibility: Evaluation files or evaluation methods created before version 3.0 will not be fully compatible if they contain plot items. Plot items from earlier evaluation files will be displayed as QC-plots.

Software note

#	Description
8	Concentration analysis: The displayed result from a concentration analysis evaluation from the same result file can differ when performing the evaluation in Biacore T200 Evaluation software as compared to Biacore T100 Evaluation software when using multiple calibration points with the same concentration. All results returned by the algorithm are correct i.e. within the error range of the method.
9	Calibration-Free Concentration Analysis: When using Tooltip in the trend plot, the File number is sometimes shown as number 0 instead of number 1
10	Sensorgram comparison: When a comment is copied from one row to another in the result summary table the data is pasted in an adjacent cell. Workaround: Write a new comment and don't use copy/paste.
11	Sensorgram comparison: When the % deviation algorithm is used the result, plot is not immediately synchronized with the result table. Workaround: Click on a row in the result table to synchronize the plot data.
12	Sensorgram comparison: a display error can occur using multiple injection files with a Dual injection. Workaround: To avoid this error a non-zero dissociation time must be set in the Dual injection.
13	Sensorgram comparison: When using comma as decimal symbol it is not possible to create new sensorgram comparison items, or to open evaluations containing sensorgram comparison items. Workaround: Use dot as decimal symbol when working with sensorgram comparison items.

Biacore T200 Kinetic Summary version 3.2.1

New functionality compared to version 3.2

- The software is now Cytiva branded
- Biacore T200 Kinetic Summary version 3.2.1 has been verified with Windows 10 Professional edition (64-bit) and Windows 10 Enterprise edition (64-bit). Support for Windows 7 has ended.

Resolved issues

N/A

Known issues / limitations

N/A

Biacore T200 GxP Software version 3.2.1

New functionality compared to version 3.2

- The software is now Cytiva branded
- Biacore T200 GxP Software version 3.2.1 has been verified with Windows 10 Professional edition (64-bit) and Windows 10 Enterprise edition (64-bit). Support for Windows 7 has ended.

Resolved issues

#	Description
1	The access rights to the following folders were changed in some specific situations so all users get full access rights (read, write & delete): <ul style="list-style-type: none">• C:\BIA Users\• C:\BIA Users\Methods and Templates\• C:\BIA Users\Published Procedures\ This issue is now resolved.

Known issues / limitations

N/A