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Chapter | Introduction

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1 Introduction

1.1 Purpose

This document provides a definitive description of the Thermo Fisher Scientific EPU application.

1.2 Audience and Scope

These release notes are intended for those managing the configuration of Thermo Scientific EPU installations and users of Thermo Scientific EPU software.

This document describes the content and dependencies of the most recent and historic EPU releases. Installation, licensing and use of the EPU software are not described in this document.

1.3 Hardware Requirements

EPU can be used only on the Microscope PC of supported microscope platforms.
2 Components

2.1 Documentation

The following documents are provided as part of the EPU software release.

<table>
<thead>
<tr>
<th>Generic Title</th>
<th>Filename</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPU Release Notes</td>
<td>EPU release notes.pdf</td>
<td>DVD / ISO</td>
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<tr>
<td></td>
<td></td>
<td>EPU start menu</td>
</tr>
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<td>DVD / ISO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EPU start menu</td>
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</table>

2.2 List of Software Packages

The following software packages are present on the DVD / ISO of this EPU software release.

<table>
<thead>
<tr>
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3 Software Compatibility

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<th>Titan</th>
<th>Talos</th>
<th>Tecnai</th>
<th>Remarks</th>
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<td>1.12.X – 2.2.X</td>
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• Preferred version over EPU 2.3                                         |
| 2.3     | 2.12.x – 2.15.x | 1.12.x – 1.15.x | N/A    | Preferred version over EPU 2.2                                         |
| 2.2     | 2.12.x – 2.14.x | 1.12.x – 1.14.x | N/A    | Preferred version over EPU 2.1                                         |
| 2.1     | 2.12.x – 2.13.x | 1.12.x – 1.13.x | N/A    | Preferred version over EPU 2.0                                         |
| 2.0     | 2.12.x       | 1.12.x       | N/A    | Major upgrade, only for Beta customers.  
Falcon II is no longer supported                                         |
| 1.12    | 2.6.x – 2.12.x | 1.6.x – 1.12.x | 5.6.0 – 5.7.0 |                                                                               |
| 1.11.1  | 2.6.x – 2.11.x | 1.6.x – 1.11.x | 5.6.0 – 5.7.0 | Preferred version over EPU 1.11.0                                         |
| 1.11.0  | 2.6.x – 2.11.x | 1.6.x – 1.11.x | 5.6.0 – 5.7.0 |                                                                               |
| 1.10.1  | 2.6.x – 2.10.x | 1.6.x – 1.10.x | 5.6.0 – 5.7.0 | Preferred version over EPU 1.10.0                                         |
| 1.10.0  | 2.6.x – 2.9.x  | 1.6.x – 1.9.x  | 5.6.0 – 5.7.0 |                                                                               |

*The releases below are no longer described in this Release Notes document.  
To view the release notes for a historic release, refer to the DVD or ISO file for that release.*

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<td>1.1.x – 1.5.0</td>
<td>N/A</td>
<td>Windows XP no longer supported</td>
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</table>

Depending on the system configuration and software version, some functions and improvements may not be available. If so, this will be noted at the affected functions and improvements.
4 Release Notes per Release

The sections below describe the new features and improvements for the most recent releases of the EPU software.
For detailed descriptions and instructions, refer to the EPU User Manual (1025707).

| Note | EPU 2.X does not support the Falcon II camera. EPU 1.12 is the last release that supports the Falcon II camera. |

4.1 EPU 2.5

4.1.1 New features

- Gatan BioQuantum 1967 with K3 camera is now also supported in EPU on systems with Titan 3.2.X or later, or Talos 2.2.X software or later.
- **Preparations > Acquisition and Optics Presets:**
  The most recent acquired preview for each Preset remains available until a new Preview is acquired. On the preview image, the context menu provides navigation options.
- **Preparations > Acquisition and Optics Presets:**
  In the Data Acquisition Preset it is possible to select the C2 Aperture. The other Presets automatically use the same C2 Aperture, except for the Atlas Preset, which will always use the largest available C2 Aperture.
- **Atlas > Screening:**
  For systems with Titan 3.X or Talos 2.X, when a new Screening Session is created, the slot descriptions are imported from the TEM User Interface > Autoloader control panel. The slot descriptions are not synchronized after the Screening Session has been created.
- **Atlas > Acquire Atlas:**
  The Load from Screening function imports the Atlas for the loaded specimen from the Screening task. This way, no new Atlas needs to be acquired. If the specimen has rotated or has otherwise shifted, then it is still possible to acquire a new Atlas.

4.1.2 Improvements and other changes

- **EPU > Template Definition:**
  The Defocus List is simplified, so it is much more user-friendly to create, edit and remove defocus values, and to copy defocus lists to existing Acquisition Areas.
- **EPU > Template Definition:**
  The position of an Acquisition Area relative to the center of a Foil Hole is no longer specified in separate X and Y distances, but as the radial distance.
• **EPU > Setup Session:**
  The selection of values and settings that is supported by the Session Preferences is extended with Hole Selection, Area Selection and Automated Acquisition Settings (incl. Phase Plate settings).

• **EPU > Hole Selection** and **EPU > Automated Acquisition:**
  The accuracy of the Find Holes function is significantly improved.

### 4.2 EPU 2.4

This is the first release that supports:

- Systems with a Windows 10 operating system.
  These are systems with Titan 3.X or Talos 2.X software.

**Note**

Features for the Gatan BioQuantum filter with K3 camera are only available on systems with a TEM Server version that supports an embedded Gatan BioQuantum filter with K3 camera. At the time that this EPU 2.4 version is released, these are only systems with Titan 2.15.2 or Talos 1.15.2 software.

### 4.2.1 New features

- **Atlas > Atlas Acquisition** and **Screening:**
  The **Objective aperture** retracts automatically before the acquisition starts, and returns to its prior position after acquisition ends.

- **Atlas > Screening:**
  The new **Load to Stage** function loads the cartridge from the highlighted slot.

- **EPU > Session Setup > Output settings** section:
  For the Gatan BioQuantum with K3 camera, the **TIFF LZW** image format is added. LZW is a lossless compression technique to decrease the file size of the images.

- **EPU > Session Setup > Save preferences** and **New from preferences:**
  The **Save preferences** function stores an EPU Session Preferences file. In EPU 2.4, this file contains:
  - all Acquisition and Optics Settings presets.
  - the results for the Image Shift calibration, $I_0$ calibration, and the Atlas Optical Alignment.
  - the EPU Session Setup values, except for the session’s name and description, the Storage folder, and the Email settings.
  - the Template Definition for Quantifoil specimens.

The EPU Session Preferences file contains all available information. It is not necessary to define all the above information before an EPU Session Preferences file can be stored. The contents may be extended for future releases.
The **New from preferences** function creates a new EPU Session and loads the values from the selected EPU Session Preferences file. Any existing values are overwritten with the available values. If no value is available in the EPU Session Preferences file for a specific parameter, then the existing value is maintained.

It is not possible to load an EPU Session Preferences file into an existing EPU Session.

- **EPU > Automated Acquisition:**
  When the conditions for the **Faster Acquisition** mode are met, then EPU automatically uses Faster Acquisition mode for Lacey Carbon specimens. For Quantifoil specimens it remains a user setting.

- **EPU > Automated Acquisition:**
  The automated run stops automatically when the column valves are closed, for example due to vacuum or cooling issues. Depending on the Session Setup > Email settings, an email is sent when the run stops.

### 4.2.2 Improvements and other changes

- **Preparation > Acquisition and Optics Presets > Advanced Camera Settings:**
  For Gatan BioQuantum with K3 camera, the Linear mode is replaced by the Counted mode for all presets. The Data Acquisition preset also offers the Counted / Super Resolution mode.

### 4.3 EPU 2.3

#### 4.3.1 New features

- **EPU > Session Setup > Acquisition mode:**
  For Quantifoil specimens, a new **Faster Acquisition** mode is added. The conventional centering method is now named **Accurate Hole Centering**.

  In Faster Acquisition mode, EPU saves time by centering groups of Foil Holes instead of each individual Foil Hole. If the system configuration and optics conditions allow for it, EPU can save even more time by using Image/Beam Shift instead of Stage Shift to visit all Foil Holes in the centered group.

  To use Image/Beam Shift:
  - The system must not have an Image Corrector,
  - Phase Plates must not be used,
  - AFIS (Aberration Free Image Shift) must be calibrated. AFIS is available on systems with TEM 6.15 and later.
• **EPU > Template Definition > Import and Export**
  For Quantifoil specimens, the Foil Hole Template can now be exported to a Template file. The Template file contains all Template Areas, their positions and their settings. When a Template file is imported for a new Quantifoil specimen, EPU scales the Template Area positions depending on the Foil Hole diameter ratio between the source specimen and the target specimen.

### 4.3.2 Improvements and other changes

- **EPU > Session Setup > Use Phase Plate:**
  The **Use Phase Plate** checkbox is moved from the Automated Acquisition task to the Session Setup task.

- **EPU > Template Definition:**
  It is no longer possible to schedule multiple acquisitions per Acquisition Area. The Defocus List is still available with the same functionality as before.

<table>
<thead>
<tr>
<th>Note</th>
<th>Known issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The default Defocus List for a new Acquisition Area is not copied from a selected Acquisition Area. Instead EPU applies the most recently added/edited Defocus List.</td>
</tr>
<tr>
<td></td>
<td>This issue is solved in EPU 2.4.</td>
</tr>
</tbody>
</table>

- **Image Display:**
  Zoom functionality is simplified. The slider has been removed. Also the [+] and [−] keys can no longer be used for zooming in and out. The scroll wheel of the mouse is the only remaining zoom control.

- Various performance improvements and bugfixes.

### 4.4 EPU 2.2

#### 4.4.1 New features

- Accelerated Phase Plate activation function to support the new generation of slow activating phase plates.

#### 4.4.2 Improvements and other changes

- Dose Measurement and Dose Fractions functionalities for Falcon 3EC are improved.
- Various performance improvements and bugfixes.
4.5 EPU 2.1

Note  EPU 2.X does not support systems with TEM 6.11.X or older.
      EPU 2.1 is only available on Titan 2.12 and later, and Talos 1.12 and later.

4.5.1 New features
- None.
  This release restores functionalities that were omitted in EPU 2.0, and solves performance issues reported by EPU 2.0 Beta customers.

4.5.2 Improvements and other changes
- Improved responsiveness of the User Interface.
- Improved image quality of the Image Display.
- Increased throughput rate.
- The EPU User Manual is reworked from a high-level guide towards stepwise instructions, similar to the Cryo-EM SPA Workflow app.

4.6 EPU 2.0

Note  EPU 2.0 is only available on Titan 2.12 and Talos 1.12.
Note  EPU 2.0 is only released to a selection of Beta customers.
      Regular customers should install EPU 1.12 or wait for EPU 2.1.

4.6.1 New features
- Preparations – Acquisition and Optics Settings: Thon Ring preset is added
- Atlas: Screening task is added
- Auto Functions:
  - Autocoma (licensed functionality) is added.
  - Autostigmate (licensed functionality) is added.

4.6.2 Improvements and other changes
- Rebranding is completed:
  - User interface is fully redesigned.
  - File locations have been aligned with the Thermo Scientific brand (see details below)
- Results Viewer is dropped. Install the Thermo Scientific Imaging Codec Pack to view images with built-in Windows image viewers.
• Falcon 3EC Dose Fractions mode is simplified. The detailed Fraction Advisor is dropped.
• The temporary ‘Trial license’ is no longer available.

The new file locations after completing the rebranding are:

• Session files:
  C:\Users\<user account>\AppData\Roaming\Thermo Scientific EPU\Sessions\n• Parameters and setting files:
  C:\Users\<user account>\AppData\Roaming\Thermo Scientific EPU\Parameters\n  The Parameters folder replaces the 'EPUShell' directory that was used in EPU 1.X versions. When installing EPU 2.X for the first time, the contents of the EPUShell directory are migrated to the Parameters folder.
• Omp.config file:
  C:\ProgramData\Thermo Scientific EPU\Configuration
• Application and Installation log files:
  C:\ProgramData\Thermo Scientific EPU\Log\n  C:\ProgramData\Thermo Scientific EPU\Log\Installation\

4.7 EPU 1.12.0

Note  This is the last EPU release that supports the Falcon II camera.

4.7.1 New features
• None, this is a compatibility release.

4.7.2 Improvements and other changes
• Bugfixes

4.8 EPU 1.11.1

4.8.1 New features
There are no new features relative to EPU 1.11.0.

4.8.2 Improvements and other changes
• Several Atlas issues are resolved.
• Falcon 3EC fractions were not always saved.
• Dark foil holes can now be handled correctly.
• The Autoloader buffer cycle no longer interferes with automated acquisition routines.
• Auto-focus with stage Z is repaired.
4.9 EPU 1.11.0

4.9.1 New features

Phase Plate Position Logging:
The Phase Plate positions that are used for each acquisition are logged in the XML files that are associated with the acquired image. This logging facilitates Phase Plate mapping in the postprocessing pipeline at customers, where the measured phase shift from the CTF estimation can be correlated with the used Phase Plate positions. The Phase Plate position logging itself does not qualify the used positions as 'good' or 'bad'.

4.9.2 Improvements and other changes

The application is rebranded to comply with the Thermo Scientific / Thermo Fisher Scientific brand and legacy.

The rebranding affects the following:

- Application icon
- Application name
- Shortcuts on start menu
- Installation folder
- Look of the installation tool
- Company logo on the license activation tool

4.10 EPU 1.10.1

Note: As of EPU 1.10.1, backward compatibility is limited to only the 4 most recent TEM Server releases preceding the release date of this EPU version.

4.10.1 Faster Atlas acquisition

The time needed to perform Atlas acquisition is reduced as a result of parallelizing the execution of several activities.

4.10.2 Falcon optimized dose protector

Only available from Titan 2.10.x and Talos 1.10.x onwards.

Falcon handling is improved. There is no need to retract the camera any more when switching between HM and LM magnifications. This is because in the latest TEM server versions, the dose protector does not make use of the post-specimen shutter any more (this could lead to image shifts on some systems).
4.10.3 Target selection task: Auto-eucentric height method changed

In the target selection task the method for setting auto eucentric height is changed to adjusting z based on measuring defocus at foil hole magnification. This is more robust.

4.10.4 Improvements in application start-up checks

Improved feedback that the application gives to the user during startup:

- Only one error is shown to the user at a time.
- Warnings are shown only when no errors are present.

4.11 EPU 1.10.0

4.11.1 Finalized integration with GMS3.x

Only available from Titan 2.9.x and Talos 1.9.x onwards.

- Improvement in throughput of BioQuantum camera with 10-25%, depending on the use case.
- OneView camera is supported.

4.11.2 Improvements in installation

EPU does not require re-installation after an upgrade of TEM server version.

A check for version compatibility is performed when application is started, which will prevent the application from starting in case of incompatibility with the server. It will also provide a message to the user about what action should be taken to solve the problem.

4.11.3 Bug fixes - general

- A number of bugs fixed that improve the application stability, such as preventing some undesired behavior experienced while removing, loading or renaming sessions.
- Several bugs fixed that improve the use of the application.
4.11.4 Bug fixes – Falcon 3EC measured dose

Available on systems with a Falcon 3EC camera

The application usage showed that a good value for measured dose in the fraction advisor should be between 0.4 and 1.0 el/px/s, which used to be between 0.8 and 1.0 el/px/s.

4.11.5 Bug fixes – Falcon 3EC fractionation schema

Available on systems with a Falcon 3EC camera

Every time the exposure time is changed, the user is notified that the fractionation schema is not valid anymore. A new equidistant fractionation schema for the new exposure time is generated automatically.
5 Known Issues

The table below only contains the Known Issues for the most recent released version that is described in these Release Notes document.

<table>
<thead>
<tr>
<th>ID</th>
<th>Description and Work-around</th>
</tr>
</thead>
<tbody>
<tr>
<td>TT121858</td>
<td>If the Atlas session folder is moved or renamed, then it is not possible to manually load an Atlas. A critical error appears in the EPU User Interface, stating that the Atlas.dm file may be corrupt. Workaround: Close EPU, restore the Atlas session folder path, start EPU, and try again.</td>
</tr>
<tr>
<td>TT115829</td>
<td>Throughput issue when using K2 on BioQuantum. Calls to the energy filter can add significant delays. These can happen when switching between data acquisition and foil hole acquisition or between data acquisitions, depending on which function creates the problem. Significant improvements in have been made already in these functions, so the chance of occurrence is extremely low. Workaround: Reset the camera and GMS. If that does not help, reboot the Gatan PC.</td>
</tr>
<tr>
<td>6334</td>
<td>After executing the template in the Template Execution view there is no way to inspect the acquired images The acquired images are shown while the template is executed, but an acquired image is removed from the display as soon as a new image is acquired. Workaround: Not available</td>
</tr>
<tr>
<td>TT44759</td>
<td>If the user does not have administrator privileges, then the Auto Functions calibrations cannot be stored. Workaround: Run those calibrations on an account with administrator rights.</td>
</tr>
</tbody>
</table>
# Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
<th>Date</th>
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<tbody>
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<td>1.0</td>
<td>Initial release notes for EPU v1.0.</td>
<td>7 August 2011</td>
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<td>1.2</td>
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<td>23 May 2012</td>
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