

## Empower Privileges Pertaining to Versions Empower 3 Service Release 3 through 3.9.0

This technical note is intended to provide granular details on User Type privileges in Waters™ Empower™ Chromatography Data System (CDS) and provides supplemental information to that described in Empower Help.

This document describes the following topics:

- Privileges implicit to the *Administrator* privilege
- Actions available to a user with the *Alter Any Project* privilege
- User Group Administrator Functionality
- Empower Privilege dependencies

### PRIVILEGES IMPLICIT TO THE ADMINISTRATOR PRIVILEGE

Implicit privileges those that are included within the *Administrator* privilege and for which an equivalent explicit privilege does not exist. These privileges cannot be removed from a User Type that includes the *Administrator* privilege. Starting with Empower 3.6.1, some of these privileges are available as explicit privileges and are assignable to non-administrator User Types. The following actions are available to a user who has the *Administrator* privilege:

#### Table 1. Administrator privilege

Archive and remove System Audit Trail

Refer to [Empower Privilege Dependencies](#) section of this document for more information on this privilege.

Manage offline System Audit Trails

Manage View Filters

In Empower 3.7.0 and prior versions, the following capabilities are implicit within the *Administrator* privilege:

- Access private View Filters
- Delete private View Filters
- Copy private View Filters between Projects (Copy to Project menu)

As of Empower 3.8.0, the following privileges control these activities and are assignable to users as appropriate:

- *Access All View Filters*
- *Delete All View Filters*
- The *Copy to Project* is needed in order to copy Public or Private View Filters between Projects. No additional View Filter privileges are required.

In all Empower versions, the View Filter owner can delete their own View Filters, both private and public.

Alter User Info in the About Dialog (Name, Company, Software Support ID)

Access/View All Projects

In Empower 3.6.0 and prior versions, the ability to access all Projects is a capability implicit within the *Administrator* privilege.

In Empower 3.6.1 and later, the *Access All Projects* privilege is available.

Refer to the [Empower Privilege Dependencies](#) section of this document for more information on this privilege.

**Table 1. Administrator privilege – continued**

Manage Nodes without explicit access
In Empower 3.7.0 and prior versions, the ability to manage Nodes (change Owner and other parameters in Node properties) is implicit within the <i>Administrator</i> privilege.
As of Empower 3.8.0, the <i>Access All Nodes</i> privilege is available.
Refer to the <a href="#">Empower Privilege Dependencies</a> section of this document for more information on this privilege.
Manage Systems without explicit access
In Empower 3.7.0 and prior versions, the ability to manage Systems (change Owner and other parameters in System properties) is implicit within the <i>Administrator</i> privilege.
As of Empower 3.8.0, the <i>Access All Systems</i> privilege is available.
Refer to the <a href="#">Empower Privilege Dependencies</a> section of this document for more information on this privilege.
Manage Database Properties
Manage Auto Archive Properties (Empower Personal only)
Backup Database
Cancel Pending SDMS Operation (if SDMS is installed)
Manage Empower Licenses via the Waters Licensing Wizard
In Empower 3.7.0 and prior versions, the ability to log in to, and manage software licenses is implicit within the <i>Administrator</i> privilege.
As of Empower 3.8.0, the <i>Manage Licenses</i> privilege is available.
Reset Passwords for Administrative Users
Receive Failed Login Attempt Popup Messages

## ACTIONS AVAILABLE TO A USER WITH THE ALTER ANY PROJECT PRIVILEGE

A user with only the *Alter Any Project* privilege has the ability to perform the following actions:

**Table 2. Alter Any Project privilege**

Modify any parameters within Project properties with the exception of performing any actions related to Custom Fields
<i>Note: In Empower 3 Feature Release 4 and prior versions, the Alter Any Project privilege included all privileges related to Custom Fields.</i>
<i>Tip: For more granular control of Projects, leverage the following privileges instead of assigning the Alter Any Project privilege (assigns all listed below):</i>
<ul style="list-style-type: none"> <li>▪ <i>Change Project Parent</i></li> <li>▪ <i>Change Project Owner</i></li> <li>▪ <i>Alter Project Type</i></li> <li>▪ <i>Lock Project</i></li> <li>▪ <i>Unlock Project</i></li> </ul>
Rename Project and Modify Project Comments
<i>Note: This capability only works when changing the name or comment of a Project that has no child Project(s), or for a user that does not have access to the child Project(s).</i>
Lock and Unlock Projects
Change Project Auto Archive On/Off (Empower Personal only)
Clone a Project via File > Clone (Clone a Project at the root if the user also has <i>Create Projects at the Root</i> privilege)
<i>Note: Additional privileges are required when cloning Projects. Refer to the <a href="#">Empower Privilege Dependencies</a> section of this document for more information.</i>

## USER GROUP ADMINISTRATOR FUNCTIONALITY

A user defined as the Group Administrator can add and remove members from the User Group using the Group Properties tab. The Group Administrator cannot add or delete users in the Empower database via the Admin Properties tab or change the User Status using the Group Properties tab unless their User Type contains the privileges required to perform the activities.

Deleting users is affected by the *Enforce Unique User Account Names* System Policy. With this System Policy enabled, Users cannot be deleted. Instead, when a Group Administrator selects *Delete User*, the User is removed (deleted) from the User Group but remains in the Empower system with the User Status set to Removed.

Assigning a Group Administrator is optional.

## EMPOWER PRIVILEGE DEPENDENCIES

The following intricacies should be understood when providing users the appropriate access within Empower Software.

**Table 3. Empower privilege dependencies**

Privilege or action	Privileges dependencies
Clone a Project, including built-in and user-created Custom Fields Path: File > Clone <i>Empower 3 Versions: Feature Release 4 Service Release 3, Feature Release 5, Feature Release 5 Service Release 4</i>	To successfully clone a Project or create a new Project, the user must have the following privileges: <ul style="list-style-type: none"> <li>• <i>Create Projects</i></li> <li>• <i>Alter Any Project</i></li> <li>• <i>Create Custom Field</i></li> <li>• <i>Create Projects at the Root</i> (if user needs to create or clone at the root)</li> </ul>
Clone a Project, including built-in and user-created Custom Fields Path: File > Clone <i>Empower 3 Versions: Feature Release 5 Service Release 5 and later</i>	To successfully clone a Project or create a new Project, the user must have the following privileges: <ul style="list-style-type: none"> <li>• <i>Create Projects</i></li> <li>• <i>Alter Any Project</i></li> <li>• <i>Create Projects at the Root</i> (if user needs to clone at the root)</li> </ul> Per CRI-289, the <i>Create Custom Field</i> privilege is no longer needed for this action in version Empower 3 Feature Release 5 Service Release 5 and later.
Define Project Type during Project creation <i>Project Type (Standard, Validation Working, Validation Template) is applicable only when the Method Validation Manager (MVM) option is enabled</i>	To define a Project Type when creating a new Project, the user must have the following privileges: <ul style="list-style-type: none"> <li>• <i>Create Projects</i></li> </ul> <b>(and either)</b> <ul style="list-style-type: none"> <li>• <i>Alter Any Project</i></li> </ul> <b>(or)</b> <ul style="list-style-type: none"> <li>• <i>Alter Project Type</i></li> </ul>

Table 3. Empower privilege dependencies – continued

Privilege or action	Privileges dependencies
Copy Custom Fields between Projects from the Project window	<p>To copy Custom Fields between Projects from the Project Window, the user must have the following privileges:</p> <ul style="list-style-type: none"> <li>▪ <i>Copy to Projects</i></li> <li>▪ <i>Alter Custom Field</i> (only if modifying an existing custom field in destination project)</li> <li>▪ Due to minor differences between versions, you may need the <i>Create Custom Field</i> privilege when copying Custom Fields between Projects if you are copying a Custom Field that does not exist in the destination Project.</li> </ul>
Copy or drag and drop data and methods between Projects	<p>Dragging and dropping objects between Projects is considered a copy action. As such, in order to drag and drop objects between Projects, the user must have the following privilege:</p> <ul style="list-style-type: none"> <li>▪ <i>Copy to Project</i></li> </ul> <p>This privilege is also required in order to drag and drop data Channels into the Review window.</p> <p>This privilege is intended to assist with Project seeding and allows users to copy (and drag and drop) objects such as raw data, Results, Methods, View Filters, and so on between Projects.</p> <p>A user needs access to both the source and destination Projects to copy objects between Projects. Users do not need a corresponding privilege such as <i>Save Method</i> to perform a copy action.</p> <p><i>Note: Refer to the <a href="#">Implications of Project Group and World Access (logged-on user type vs. Project context user type)</a> section of this document for more information.</i></p>
Access All Projects <i>Versions Empower 3.6.1 and later</i>	<p>This privilege allows a user to access a Project or Projects regardless of the allowed access defined in the Project properties. A user with this privilege can open and view all existing Projects. To alter Project properties, perform Project-based tasks (such as clone, backup, or create), and manage data in such a Project, the user must have the appropriate user privilege(s) in addition to the <i>Access All Projects</i> privilege.</p> <p>When a user has this privilege, their User Type within a Project does not change based on the Group User Type or World User Type access setting for the Project and remains as the logged-on User Type.</p>
Access All Nodes <i>Version Empower 3.8.0 and later</i>	<p>This privilege allows a user to view and access all existing Nodes configured in Empower Software, regardless of the <i>Allowed Access</i> defined in the Node Properties. In order to perform actions on a Node, the User Type of this user must have the appropriate privileges, such as <i>Alter Node</i> and <i>Delete Node</i>.</p> <p>In all Empower Software versions, the Node Owner can manage and delete their own Nodes.</p>
Access All Systems <i>Version Empower 3.8.0 and later</i>	<p>This privilege allows a user to view and access all existing chromatographic Systems configured in Empower Software, regardless of the <i>Allowed Access</i> defined in the System Properties. To perform actions on the System, the User Type assigned to the user must additionally have the appropriate privileges, such as <i>Alter System</i> and <i>Delete System</i>.</p> <p>In all Empower versions, the System Owner can manage and delete their own Systems.</p>

Table 3. Empower privilege dependencies – continued

Privilege or action	Privileges dependencies
Allow Interactive Sys Changes	<p>This privilege allows interactive changes to any instrument parameter via the Run Samples instrument Control Panels in the Run Samples window. Users with this privilege also need the <i>Acquire Samples</i> privilege. A user not assigned this privilege cannot change these instrument parameter settings in Run Samples with the exception of the Stop Flow capability (for safety reasons). When data is not being acquired, these instrument parameters can be changed by users both with and without this privilege.</p> <p><b>Restriction:</b> This privilege pertains only to Waters and Agilent instruments that are natively controlled by Empower Software using no external instrument driver. Waters instruments that use instrument control software (ICS) and Agilent LC and GC instruments using legacy ICS drivers or ICF Support Layer drivers ignore this privilege and allow all users to make interactive changes only when data is not being acquired. During acquisition, no interactive system changes using the Run Samples instrument control panels are allowed.</p> <p><b>Exception:</b> When using the Thermo SII v1.1 driver and the Allow Interactive Sys Changes <i>Allow Interactive Sys Changes</i> privilege is disabled, the user can make interactive changes during acquisition. This issue is corrected in Thermo SII v1.2 (CRI-2595).</p>
View Quantitation Peak Fields in Review	<p>This privilege allows the user to view the following fields in the Review window Peaks Table:</p> <ul style="list-style-type: none"> <li>▪ Area</li> <li>▪ % Area</li> <li>▪ Height</li> <li>▪ % Height</li> <li>▪ Amount</li> <li>▪ % Amount</li> <li>▪ Response</li> <li>▪ Concentration</li> </ul> <p>In versions Empower 3 Feature Release 4 Service Release 3 and later, the <i>View Numerical and Textual Results in Review</i> privilege is also required in order for users to view these quantitation fields.</p> <p>To remove the ability to view certain Peak and/or Result fields, remove one of the following privileges from the appropriate User Type:</p> <ul style="list-style-type: none"> <li>▪ <i>View Quantitation Peak Fields in Review</i></li> </ul> <p><b>(or)</b></p> <ul style="list-style-type: none"> <li>▪ <i>View Numerical and Textual Results in Review</i></li> </ul>

Table 3. Empower privilege dependencies – continued

Privilege or action	Privileges dependencies
	<p>As of Empower 3.8.1, this privilege provides the same functionality as described above, in addition to the following:</p> <p>Allows the user to view the following fields in the Peaks tab of the Review window:</p> <ul style="list-style-type: none"> <li>▪ Time Corr. Area (when CE/CIA is enabled)</li> <li>▪ % Time Corr. Area (when CE/CIA option enabled)</li> <li>▪ Relative Response</li> <li>▪ Impurity Response</li> <li>▪ % Adjusted Area</li> <li>▪ Corrected Area~</li> <li>▪ Dissolved Amount (when Dissolution option enabled)</li> <li>▪ Dissolved Percent (when Dissolution option enabled)</li> <li>▪ All Peak Type Custom Fields</li> </ul> <p>Allows the user to view the following fields in the Results window of the Review window:</p> <ul style="list-style-type: none"> <li>▪ Adjusted Total Area</li> <li>▪ Maximum Impurity Response</li> <li>▪ All Result Type Custom Fields</li> </ul> <p><i>Note: Users not assigned this privilege cannot view these fields nor will they be visible in the properties of the peak or Results table Peak or Results Tables. Additionally, users not assigned this privilege cannot add these fields as Labels or Legends in the plots in the Review window..</i></p>
<p>Logging into Empower in Citrix environment.</p> <p><i>Empower 3 Versions Feature Release 4 Service Release 3 and later</i></p>	<p>In Empower 3 Feature Release 4 Service Release 3 through 3.7.0, the <i>Create Node</i> privilege is required to log in to Empower Software for the first time from any new Empower Node within a Citrix environment. This privilege is not required when logging in to existing Empower Nodes.</p> <p>As of Empower 3.8.0, the <i>Create Node</i> privilege is not required in order to log into a Node within your Empower Software Citrix environment.</p>
<p>Archive and Remove System Audit Trail</p>	<p>In Empower 3.7.0 and prior versions, two users with the <i>Administrator</i> privilege <b>OR</b> two users with the <i>Archive System Audit Trails</i> privilege are required in order to <b>Archive</b> the System Audit Trail. Additionally, two users with the <i>Administrator</i> privilege are required to <b>Archive and Remove</b> the System Audit Trail.</p> <p>As of Empower 3.8.0, <b>Archiving</b> the System Audit Trail requires two users with the <i>Administrator</i> privilege users <b>OR</b> two users each with the following privileges:</p> <ul style="list-style-type: none"> <li>▪ <i>View System Audit Trails</i></li> <li>▪ <i>Archive System Audit Trails</i></li> </ul> <p>Additionally, <b>Archiving and Removing</b> the System Audit Trail requires two users with the <i>Administrator</i> privilege <b>OR</b> two users each with the following privileges:</p> <ul style="list-style-type: none"> <li>▪ <i>View System Audit Trails</i></li> <li>▪ <i>Archive System Audit Trails</i></li> <li>▪ <i>Delete System Audit Trails</i></li> </ul>

Table 3. Empower privilege dependencies – continued

Privilege or action	Privileges dependencies
Granting Privileges to User Types	Users cannot grant a privilege to a User Type that their own User Types does not have.
View Sample History	This activity (Alter Sample > Edit > View Sample History or Right-click > View Sample History) requires the following privilege: <ul style="list-style-type: none"> <li>▪ <i>Edit Sample Sets</i></li> </ul>
Lock Methods / Unlock Methods	In order to Lock or Unlock a Method, the “Save” privilege for that particular Method Type is also required.
Alter a Running Sample Set Initiated by the User	This activity requires the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Alter Running Sample Sets</i></li> <li>▪ <i>Alter My Queue</i></li> </ul> <p>If there are Sample Sets in the queue initiated by another user, this user requires the <i>Alter Any Queue</i> privilege in addition to or instead of the <i>Alter My Queue</i> privilege.</p>
Alter a Running Sample Set Initiated by another User	This activity requires the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Alter Running Sample Sets</i></li> <li>▪ <i>Alter Any Queue</i></li> </ul>
Abort a Sample Set Initiated by the User	This activity requires the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Alter Running Sample Sets</i></li> <li>▪ <i>Alter My Queue</i></li> </ul> <p>This is true, even if there are Sample Sets in the queue by another user.</p>
Abort a Sample Set Initiated by another User	This activity requires the following privilege: <ul style="list-style-type: none"> <li>▪ <i>Alter Any Queue</i></li> </ul>
Save Results and Calibrations via manual processing in the Review window (as opposed to batch processing)	This activity requires the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Save Results</i></li> <li>▪ <i>Save Calibration Curves</i></li> <li>▪ <i>Save Results and Calibrations in Review</i></li> </ul>
Save Calibration Curves in the Review Window	This activity requires the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Save Calibration Curves</i></li> <li>▪ <i>Save Results and Calibration in Review Privilege</i></li> </ul>
Manually integrate and quantify unknown samples against the calibration curve associated with the processing method and save these Results BUT NOT modify and save a calibration curve generated in the Review window.	Users with the following privileges: <ul style="list-style-type: none"> <li>▪ <i>Save Results</i></li> <li>▪ <i>Save Results and Calibration in Review</i></li> </ul>
Disabling the Save Calibration Curves privilege can be used as an effective approach to prevent manual changes to a calibration curve.	AND NOT <ul style="list-style-type: none"> <li>▪ <i>Save Calibration Curves</i></li> </ul>

## IMPLICATIONS OF PROJECT GROUP ACCESS AND GROUP AND WORLD ACCESS (LOGGED-ON USER TYPE VS. PROJECT CONTEXT USER TYPE)

When a user has access to a Project, the user may gain that access as a User Type alternate to that of their logged-on User Type due to the Group or World User Type access setting in the Project Properties. This alternate User Type - called Project context User Type - and privileges therein then apply to that project. Actions that involve other projects or other objects such as those within Configuration Manager are still governed by this users' logged-on User Type.

This means:

- An action such as copying to a Project, which involves another Project as the copy destination can be performed only if the logged-on User Type has the *Copy to Project* privilege.
- Any action involving Custom Fields, is effectively done within Configuration Manager and is outside of Project context. Custom Field activities can be performed only if the logged-on User Type has the appropriate Custom Field privilege.
- Acquiring a Sample Set involves objects (Node and System) outside of a Project. Because acquisition occurs within a given Project it is governed by the privileges of the Project context User Type. However, the user must also have access to the appropriate System to acquire data. Additionally, if it is necessary to bring the System online, the user's logged-on User Type must have the privilege to do so.
- The *Alter My Queue* privilege is governed by the Project context User Type.
- The *Alter Any Queue* privilege is governed by the logged-on User Type.

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