

### NEW FEATURES AND IMPROVEMENTS

FEATURE TYPE	DESCRIPTION
<p><b>NEW FEATURES</b></p>	<ul style="list-style-type: none"> <li>• Document backup/restore process for standalone Linux server</li> <li>• Support single sign-on for single Swarm installation on Linux - AD</li> <li>• Single server installer for Linux</li> <li>• Script to update Swarm license</li> <li>• Document Linux server configuration (k8s single node cluster)</li> <li>• Linux: Log in via single sign-on</li> <li>• Metering of Swarm data processing, e.g. for license limits</li> <li>• Distributed tracer</li> <li>• Distributed logs</li> <li>• Web app shared file library</li> <li>• Implement web app self-healing</li> <li>• Distributed cache for the Swarm webapp</li> <li>• Third-party dependencies deployment</li> <li>• Cluster fault tolerance (health checks, replication, self-healing)</li> <li>• Scalable Internal file library</li> <li>• Scalable Swarm web app</li> </ul>
<p><b>IMPROVEMENTS</b></p>	<ul style="list-style-type: none"> <li>• Metering statistics Max Rows and Max Report Pages changed to display in millions</li> <li>• Add logging for recommendation version</li> </ul>

FEATURE TYPE	DESCRIPTION
<p><b>IMPROVEMENTS</b></p>	<ul style="list-style-type: none"> <li>• Installation and deployment guide improvements</li> <li>• Add information about consumers and analysts on license information tab</li> <li>• Support custom drivers (not embedded) - cluster</li> <li>• Support export/import of workspaces with Report Data Sources and Models</li> <li>• Improved suggestions for data sources with a parent on Linux</li> <li>• Support custom drivers (not embedded) for Linux single-server</li> <li>• Persistence on AWS</li> </ul>

### RESOLVED ISSUES

FEATURE TYPE	DESCRIPTION
<p><b>BUG</b></p>	<ul style="list-style-type: none"> <li>• Unexpected error if trying to edit model in workspace with applied join/append/transformation</li> <li>• Database error is returned if user opens published table with pivot/transpose</li> <li>• Pivot and transpose: only 100 columns are returned in the resulting table</li> <li>• Database error is returned instead of data if fuzzy matching is used for the second join or later in a workspace</li> <li>• Database error is returned if user tries to open the last page of complex tables with many rows</li> </ul>

FEATURE TYPE	DESCRIPTION
<b>BUG</b>	<ul style="list-style-type: none"> <li>• Swarm upgrade for Windows documentation incorrect for shutting down PostgreSQL</li> <li>• Extra message when user saves workspace after changing its permissions</li> <li>• Oracle Data Source: data for some date columns fail to load</li> <li>• An extra error is shown if the user tries to export table to library if they have "View Only" permissions on the table and workspace</li> <li>• Report data not shown if "Adjust All Fields" is clicked multiple times in succession</li> <li>• Curators are removed after renaming folder</li> <li>• Suggestions work incorrectly if user adds a lot of tables to a workspace</li> <li>• Server CPU maxes out if using report verify multiple times on a large PDF</li> <li>• Performance issue with workspace</li> <li>• Folder isn't returned in the if it was shared with group (not Everyone group)</li> <li>• Out of memory error is thrown while Spark job is run</li> <li>• Missing custom database fields on the edit connection page</li> <li>• Storage Folder on S3 doesn't work with Swarm installation on AWS</li> <li>• Add data source: data isn't loaded into cache when adding published and internal data sources</li> <li>• No data displayed when saving a workspace with regex traps</li> <li>• Add/edit form for Google Adwords has cropped input fields (IE 11)</li> <li>• Not all folders are visible when moving objects in the list if there are a lot of them</li> <li>• A separate column is created for each line in a multi-line template if a user uses Auto-Define Fields</li> </ul>

FEATURE TYPE	DESCRIPTION
<p><b>BUG</b></p>	<ul style="list-style-type: none"> <li>• Single sign-on login works only on the second attempt</li> <li>• The difference in length between input field and sample line is incorrect in Internet Explorer</li> <li>• Unexpected behavior if user scrolls through data using the selection area</li> <li>• Horizontal scrolling does not work in Edge when trapping</li> <li>• Database error is returned on the second (or more) Append, Join or Transform if there is Calculated Field in the child table</li> <li>• Grey page is presented if user starts scrolling report data source that has more than 90 lines on the page</li> <li>• Swarm Lists: the previous opened folder is opened when user logs in after the token has expired</li> <li>• Table fails to load if opened during request to load a broken table</li> <li>• "Like" and "Dislike" labels in library are not displayed when mouse hovers like icon (IE11, Edge)</li> <li>• Workspace with attached model is incorrectly from Data Prep Studio to Swarm</li> <li>• Report verify: blank space at the bottom of the page is shown if all fields are adjusted and verify is completed</li> <li>• "Net Suite table" is displayed in Swarm Library Type column instead of "NetSuite table"</li> <li>• Follow icon is incorrectly displayed above Preview and Notifications form</li> <li>• Scrolling doesn't work correctly if Multi-column region is used when trapping using Edge</li> <li>• Icons decrease in size for published tables or schedules with long names</li> </ul>

FEATURE TYPE	DESCRIPTION
<p><b>BUG</b></p>	<ul style="list-style-type: none"> <li>• Export to Access/Excel: selected macros isn't inserted into Table Name</li> <li>• Case where object permission is incorrectly updated when changing permissions for folder</li> <li>• Wildcard option for model incorrectly considering uniqueness during save</li> <li>• Data Source isn't saved on changing connection from Database to File Library</li> <li>• "Edit Data Source Settings" hint is shifted on the Publish form, pencil for editing published data source name is small, script error appears if hover the pencil icon by mouse</li> <li>• Sharing: it is possible to share (set curator) objects to disabled users</li> <li>• Unexpected error after fresh install of Swarm</li> <li>• Add Data Tab: Drop screen isn't opened when tab opens</li> <li>• Swarm Library: Default folder is opened instead of previously opened after creating workspace/going to other tab/refreshing</li> <li>• Incorrect error is thrown when user tries to log in with wrong credentials in Edge</li> <li>• Table Panel: sub-table menu is displayed under opened sections in "Workspace Overview" tab and "Drop files" form</li> <li>• "Processing...." spinner appears instead of "No Data" label in empty workspace</li> <li>• Incorrect handling of the case when Machine Learning loses connection to database</li> <li>• Full/Inner Negative Join: DB Error on using New Column as key in Join</li> <li>• IE doesn't work in development mode</li> <li>• Option for moving columns is displayed on Pivot form for Groups columns</li> </ul>

FEATURE TYPE	DESCRIPTION
<b>BUG</b>	<ul style="list-style-type: none"> <li>• Unexpected error and Data Source is not created in case when user uploads not supported file and changes on valid format</li> <li>• Connection to SQL database fails for some machines</li> <li>• Some recommendations and ratings are not returned</li> <li>• "Share" button is disabled on sharing folder dialog in case if "Request Curation" checkbox is selected and user was not set in "Curator" text field</li> <li>• Calculated Field: RedactStrikeoutDigits: digit is skipped and result is %text% without digit instead of Null</li> <li>• Export to Library: broken internal data source is created if export to Library fails</li> <li>• Calculated Fields: Apply button is still disabled when validate request doesn't fail</li> <li>• Export to Library (Cassandra) fails (On prem environment)</li> <li>• Connections: No warning message on UI about already existing connection</li> <li>• Calculated Field: RegexExtract returns "Null" instead of blank if extract part doesn't exist in the original string</li> <li>• Calculated Field: inconsistent result after Splits functions for Null value</li> <li>• No "Counting the Rows...%bytes already uploaded%" spinner on Drop screen</li> <li>• Chrome auto-fill enters application user name and password for connections</li> <li>• Incorrect behavior for input field if In/Not In operator is selected for filter</li> <li>• Edit data source form closes when user clicks "Cache Statistics Now" button</li> <li>• Incorrect search results are displayed in library after moving an object</li> <li>• Recent updates widget displays icon of creator instead of the correct user</li> </ul>

FEATURE TYPE	DESCRIPTION
<b>BUG</b>	<ul style="list-style-type: none"> <li>• License Information counts disabled users as enabled</li> <li>• Disable Account toggle is displayed on add new user form</li> <li>• Option to move columns is displayed on extract rows form</li> <li>• Unexpected delay when entering a value in the RegEx mode</li> <li>• Changes in replacing connection should be applied only for JSON, XML, Report data sources</li> <li>• Info and Statistics tab is opened when user uses buttons from grid navigation panel</li> <li>• Logout works incorrectly in specific cases</li> <li>• Apply button is enabled for joins in case where necessary information is missing</li> <li>• Incorrect data after split into fiscal parts if there are Format and Filter changes from Data Prep Studio prior to the split</li> <li>• Incorrect formatting for date in group and pivot for &amp;[fdayofyear]</li> <li>• Connection to IBM Cognos doesn't work on Linux</li> <li>• "Select duplicates" and "deselect duplicates" don't work in join</li> <li>• Specific case where users are unable to rename a folder</li> <li>• Incorrect default path in location field for Salesforce data sources in workspace</li> <li>• Snapshot of Cassandra isn't created if it was installed with default settings</li> <li>• When two users save a workspace concurrently the second users workspace does not open</li> <li>• Long names are not correctly displayed on Activities feed widget</li> <li>• Database error when column used to group as a name that contain \ or "</li> </ul>

FEATURE TYPE	DESCRIPTION
<b>BUG</b>	<ul style="list-style-type: none"> <li>• There are more columns than the specified column limit (+1) in data grid</li> <li>• Filter saved as enabled on saving a workspace with an incorrect filter expression</li> <li>• Pivots with long resulting column names not working</li> <li>• When performing a group transform search field in "columns to include" is missing</li> <li>• Search text field in transform tables is case sensitive</li> <li>• Append radio button options disabled when 'Auto' switch is off</li> <li>• Database error if there are more than 59 characters in any cell in the first column with a transpose</li> <li>• Connection error for certain type of data source created through a web link</li> <li>• Column for fuzzy matching result is not published in Swarm when imported from Data Prep Studio</li> <li>• Named range tables aren't opened for imported .xlsx and .xls files from Data Prep Studio</li> <li>• Incorrect description for some changes in Change History</li> </ul>