



## Release Notes

## Legal notice

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**Tip:** We recommend that you check our website for the latest documentation as minor updates or improvements may be made to the Help between releases.



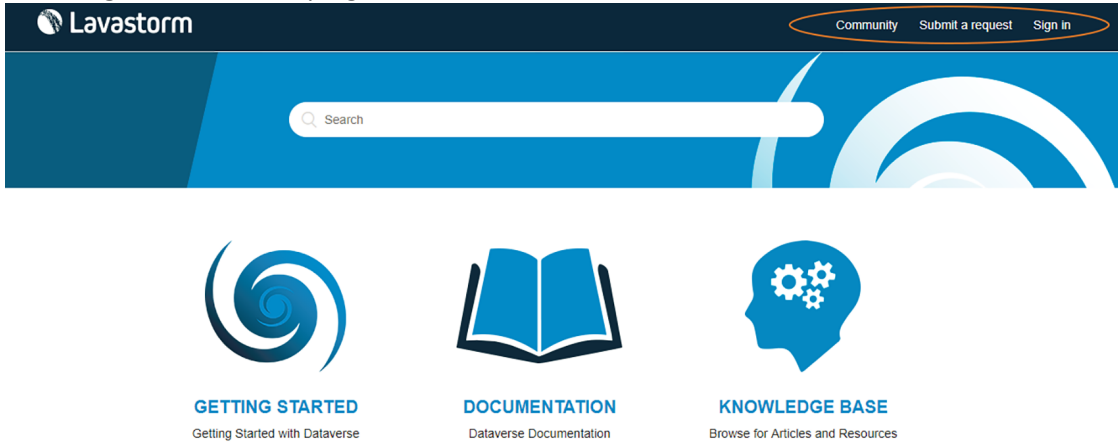
**Note:** The images in this help are used purely for illustrative purposes and may display license-dependent functionality.

## Contact us

If you encounter any technical issues, we recommend that you visit the Dataverse Forums at [help.lavastorm.com](http://help.lavastorm.com). If your query has not been discussed previously in the forums, you can create a new topic and receive answers from our Dataverse experts.

Alternatively, you can log a support ticket:

1. Select **Sign in** from the top right corner of the screen:



If you are not already a registered Support Portal user, click **Sign up**:

The image shows the sign-in and sign-up form on the Lavastorm website. It starts with the text "Sign in to Lavastorm". There are two input fields for "Email" and "Password". Below these is a checkbox labeled "Stay signed in". A large dark button labeled "Sign in" is present, with a note below it stating "Your credentials will be sent over a secure connection". Below the "Sign in" button are links for "Cancel" and "Forgot my password". At the bottom, there is a link "New to Lavastorm? Sign up" where "Sign up" is circled in orange, and another link "Have you emailed us? Get a password".

2. Once you have registered and signed in, select **Submit a request** from the top right corner of the screen.
3. Complete all fields, then click **Submit** at the bottom of the screen.

## Download

Lavastorm recommends that you use the latest version of the product. To download Dataverse, please go to <http://www.lavastorm.com/product-downloads/>.

Our product is constantly evolving and input from you is highly valued. If you have any suggestions, please contact the product team at [product@lavastorm.com](mailto:product@lavastorm.com).

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# 1. Welcome to Dataverse

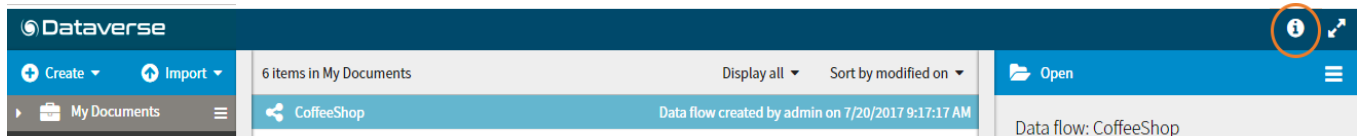
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Dataverse is a web application that provides a comprehensive solution for agile data management and analysis, allowing you to build analytic applications that can be shared across teams with other Dataverse users. For more information about our Dataverse server and desktop product options, please visit <http://www.yourdataverse.com/product/#features>.



**Note:** This document provides release information for all releases of Dataverse from version 3.2.0 onwards. If you require release information for a previous release of Dataverse, please contact us at [help.lavastorm.com](http://help.lavastorm.com).

For information on installing Dataverse, please see the installation guide. Once you are up and running, you can access the Getting Started guide in the integrated product help by clicking the Help icon in the corner of the screen:



## Build data flows

- To help beginner and intermediate users get started, you can filter the number of nodes that are displayed to show only a curated set of commonly used nodes. If you are looking for our more advanced nodes, you can easily switch to display all available nodes, or search to find a specific node.
- Using one of the Input Connector nodes, you can import data from sources such as Microsoft Excel or CSV, or from big data platforms such as Hadoop or MongoDB.
- You can then build out your data flow by connecting nodes and configuring their properties to customize the analysis that is performed on the underlying data at each step through your data flow.
- You can quickly access commonly used tools for working with your data flow, including: Running and re-running a data flow, save, cut, copy and paste, undo and redo.
- Using one of the Output Connector nodes, you can publish the results to a file or another system, for example to Excel or to a data visualization tool such as Tableau or Qlik.
- Depending on your license, you can also configure data flows to automatically execute on a scheduled basis.

## Simplify, re-use and share

- You can simplify complex data flows by grouping subsets of your application into a single composite node.
- You can create your own custom library nodes for reuse in multiple data flows.
- You can share your data flows and custom nodes with other Dataverse users.

## Analyze data

- You can view the underlying data at each step through your data flow.
- When viewing large data sets, you can filter and sort the data to display only relevant information.
- Data from any point within the data flow can be exported to an external file for external viewing and sharing.

## 1.1 Setup requirements

|                            | Dataverse Server  | Dataverse Desktop  |
|----------------------------|---|--|
| <b>Supported platforms</b> | <p>The following operating systems are supported on the Dataverse server product:</p> <ul style="list-style-type: none"> <li>• Windows Server 2016 64-bit (Server with Desktop Experience)</li> <li>• Windows Server 2012R2 64-bit</li> <li>• RedHat Enterprise 6.X 64-bit</li> <li>• RedHat Enterprise 7.X 64-bit</li> </ul> | <p>The following operating systems are supported on the Dataverse single-user desktop product:</p> <ul style="list-style-type: none"> <li>• Windows 7 64-bit</li> <li>• Windows 10 64-bit</li> </ul> |
|                            | <p>The following browsers are supported on both server and desktop:</p> <ul style="list-style-type: none"> <li>• Chrome</li> <li>• Internet Explorer 11</li> </ul>  |  |

|   | Dataverse Server  | Dataverse Desktop   |
|---|---|---|
| <b>System requirements</b>                    | <p>The minimum hardware specification for the server product is as follows:</p> <ul style="list-style-type: none"> <li>• 8GB RAM base + 1GB for Database + 2GB per core.</li> <li>• Minimum 4 cores for an on-premises server instance.</li> </ul> <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> As the number of users and/or the number of scheduled jobs increases, you should look to increase the number of cores and thus memory.</p> </div> <p>For installations on Windows Server, you must install the required <a href="#">Visual C++ Redistributable Packages for Visual Studio 2013</a>.</p> <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> The Power R node and the nodes in the Statistical and Predictive Node Pack process data in-memory. Additional RAM will be required when processing data sets with a large volume of data. Similarly, if the R node is used, the machine hosting the R environment must have sufficient available RAM to process the data.</p> </div> | <p>The minimum hardware specification for the desktop product is as follows:</p> <ul style="list-style-type: none"> <li>• 8GB RAM.</li> <li>• Intel Core i5 or 4-core equivalent processor minimum (i7 recommended).</li> </ul> |
| <b>App server databases</b>                   | Postgres  | H2  |
| <b>Authentication servers (server only)</b>   | <ul style="list-style-type: none"> <li>• Active Directory</li> <li>• OpenLDAP</li> </ul>  | N/A   |
| <b>Authentication protocols (server only)</b> | <ul style="list-style-type: none"> <li>• LDAP</li> <li>• LDAPs</li> </ul>   | N/A   |

|                                     | Dataverse Server  | Dataverse Desktop |
|-------------------------------------|---|-------------------|
| <b>Single Sign-On (server only)</b> | <p>CA Single Sign-On</p> <p>Dataverse is tested against CA Single Sign-On v12.6 where it is integrated via the SiteMinder Access Gateway component. Other versions of CA Single Sign-On which support the SiteMinder Access Gateway may also work.</p> <p>Integrating with previous versions of CA Single Sign-On, where the SiteMinder Access Gateway is not available, may also work where those versions support the SiteMinder Secure Proxy Server component.</p> | N/A               |
| <b>App servers</b>                  | Tomcat 8.5.23   |                   |
| <b>Accessible databases</b>         | <p>Within the Designer, you can connect your analytic application to a number of databases. The following accessible databases are supported:</p> <ul style="list-style-type: none"> <li>• Oracle 11g, 12c</li> <li>• Teradata 14.10 / 15.10</li> <li>• MySQL</li> <li>• MS SQL Server 2012</li> <li>• MongoDB 2.4.9</li> <li>• Spark 1.5.0</li> <li>• Hadoop 2.6.0</li> </ul>  |                   |



## 2. What's new in 3.2.1?

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The availability of the following new features, enhancements and corrected issues is dependent on the installed Dataverse edition and licensed features:

- |       |  |       |   |
|-------|--|-------|---|
| ★ NEW | <a href="#">Performance improvement</a>                | ✓ FIX | <a href="#">User interface responsiveness</a>     |
| ★ NEW | <a href="#">Python version upgrade</a>                 | ✓ FIX | <a href="#">Excel File node</a>                   |
| ★ NEW | <a href="#">JSON Data node fragment support</a>        | ✓ FIX | <a href="#">Statistics node</a>                   |
| ★ NEW | <a href="#">Show hidden properties</a>                 | ✓ FIX | <a href="#">Library paths</a>                     |
| ★ NEW | <a href="#">About Dataverse</a>                        | ✓ FIX | <a href="#">Re-run button</a>                     |
| ✓ FIX | <a href="#">Decryption of password property values</a> | ✓ FIX | <a href="#">Transpose node</a>                    |
| ✓ FIX | <a href="#">Import legacy data flow</a>                | ✓ FIX | <a href="#">Unresolved properties</a>             |
| ✓ FIX | <a href="#">Schedules</a>                              | ✓ FIX | <a href="#">Run property textual substitution</a> |
| ✓ FIX | <a href="#">Multiple imports of a data flow</a>        | ✓ FIX | <a href="#">Concurrent editing</a>                |
| ✓ FIX | <a href="#">Directory</a>                              | ✓ FIX | <a href="#">Node connection display</a>           |
| ✓ FIX | <a href="#">Web application startup</a>                |       |   |

### 2.1 New features and enhancements

| Feature   | Description  |
|---|--|
| <a href="#">Performance improvement</a>         | The performance of the application has been greatly improved when working with large data flows. For example, you may notice performance improvements when you first open a data flow after importing it, or when you navigate in and out of composites. |
| <a href="#">Python version upgrade</a>          | The Python node has been upgraded to work with the 2.7.15 release of Python, benefiting from the latest security updates.  |
| <a href="#">JSON Data node fragment support</a> | The JSON Data node provides improved data handling, allowing you to import JSON fragments. Previously, the JSON Data node could only import JSON data that was formatted as a single object.   |

| Feature                                | Description   |
|--|---|
| <a href="#">Show hidden properties</a> | <p>There are a number of node properties which are ordinarily hidden from the default view. If you need to view or edit these properties, for example when working with support, there is now an option to show hidden node properties and override the default values.</p> <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> In most cases, you will not need to view or edit these properties. Caution should be exercised when editing the values of hidden node properties.</p> </div> |
| <a href="#">About Dataverse</a>        | <p>The About Dataverse screen now includes the option to copy license and server details which can be useful when working with support.</p> <p>Additionally, the Dataverse version is now added to server logs on startup.</p>  |

## 2.2 Corrected issues

| Issue summary   | Issue number                                      |
|---|---|
| <p><a href="#">Decryption of password property values</a></p> <p>Resolved issue where password property values were corrupted during decryption when running concurrent schedules of a data flow.</p>   | <p>LAE-10134</p>                                  |
| <p><a href="#">Import legacy data flow</a></p> <p>Resolved an issue that prevented the import of a legacy data flow which contained errors.</p>   | <p>LAE-10128</p>                                  |
| <p><a href="#">Schedules</a></p> <p>Resolved an issue where in some cases, a scheduled data flow would fail to run, and opening the data flow showed a previous state.</p> <p>If a user who does not have the required license attempts to create a schedule, a message is now displayed to explain why the option is unavailable to them.</p> <p>Resolved an issue where opening a scheduled run while it was in progress, showed a static state, rather than showing the data flow running to completion.</p> | <p>LAE-10114</p> <p>LAE-10052</p> <p>LAE-9866</p> |

| Issue summary   | Issue number                      |
|---|-----------------------------------|
| <p><b>Multiple imports of a data flow</b></p> <p>Previously, if you imported the same data flow more than once, saving the different imports in different folders, in some cases the run state of the second instance of the data flow was corrupted by deleting or moving the first data flow. This issue has now been resolved.</p> | <p>LAE-10095</p> <p>LAE-10094</p> |
| <p><b>Directory</b></p> <p>Resolved an issue in displaying the document list when returning to the Directory from an open data flow.</p> <p>Resolved an issue where double-clicking to drill into a folder in the Directory disabled the multi-select function.</p>   | <p>LAE-10100</p> <p>LAE-10043</p> |
| <p><b>Web application startup</b></p> <p>Resolved an issue where the web application would in some cases hang on startup.</p>   | <p>LAE-10092</p>                  |
| <p><b>User interface responsiveness</b></p> <p>Resolved an issue that caused the user interface to become slow or unresponsive when working with multiple Join, Merge or Lookup nodes in a data flow.</p>   | <p>LAE-10089</p>                  |
| <p><b>Excel File node</b></p> <p>The Excel File node now treats whitespace only metadata in the same way as empty header cells. You can control this behavior by using the <b>NullHeaderCellAction</b> property.</p>  | <p>LAE-10085</p>                  |
| <p><b>Statistics node</b></p> <p>Resolved an error that was encountered when using the Statistics node with a field that contained Null values.</p>   | <p>LAE-10084</p>                  |
| <p><b>Library paths</b></p> <p>Resolved an issue where library paths were not being correctly displayed after a save action until the page was refreshed.</p>   | <p>LAE-9903</p>                   |
| <p><b>Re-run button</b></p> <p>When a run is already in progress, the Re-run button is disabled to prevent an error which was previously seen on clicking the Re-run button more than once.</p>   | <p>LAE-9407</p>                   |

| Issue summary   | Issue number |
|---|--------------|
| <p><b>Transpose node</b></p> <p>The Transpose node now treats empty string and whitespace fields in the same way as Null values.</p>  | LAE-9403     |
| <p><b>Unresolved properties</b></p> <p>Resolved an issue where a run property with the same name as a deleted data flow property was picking up the data flow level property value, rather than the correct run property value. The deleted data flow property is now shown in the <b>Unresolved Properties</b> list, and from here it can be deleted to prevent the incorrect property value being used.</p> | LAE-9811     |
| <p><b>Run property textual substitution</b></p> <p>When a node property contains textual substitution referencing a run property, it is now correctly shown as an evaluated value in the <b>Review</b> tab.</p>   | LAE-8673     |
| <p><b>Concurrent editing</b></p> <p>A <b>Locked for Editing</b> message is now displayed if two users attempt to concurrently edit a shared data flow.</p>  | LAE-10059    |
| <p><b>Node connection display</b></p> <p>Resolved an issue where in some cases the connection between two nodes that had successfully completed running was not displayed with the usual green color.</p>   | LAE-10096    |

## 3. What's new in 3.2.0?

The availability of the following new features, enhancements and corrected issues is dependent on the installed Dataverse edition and licensed features:



- ★ **NEW** [Improved import process](#)
- ★ **NEW** [Notification of missing library nodes](#)
- ★ **NEW** [MongoDB nodes](#)
- ★ **NEW** [Enhanced library node information](#)
- ★ **NEW** [Salesforce node assignment rules](#)
- ★ **NEW** [Password properties](#)
- ★ **NEW** [Performance improvement](#)
- ★ **NEW** [UI enhancements](#)
- ★ **NEW** [JDBC drivers](#)
- ✓ **FIX** [Excel File node](#)
- ✓ **FIX** [Data Converter node](#)
- ✓ **FIX** [Lookup node](#)
- ✓ **FIX** [Output Tableau node](#)
- ✓ **FIX** [JDBC nodes](#)
- ✓ **FIX** [Launch Dataverse Desktop](#)
- ✓ **FIX** [Open data flows](#)
- ✓ **FIX** [Directory refresh](#)
- ✓ **FIX** [Node logs](#)
- ✓ **FIX** [Rewire composite input](#)
- ✓ **FIX** [Field menu button](#)
- ✓ **FIX** [Timeout](#)
- ✓ **FIX** [Node execution](#)
- ✓ **FIX** [LAE server connection](#)
- ✓ **FIX** [Property "default" value](#)
- ✓ **FIX** [Schedule a data flow](#)
- ✓ **FIX** [Save changes](#)
- ✓ **FIX** [Node connections](#)
- ✓ **FIX** [Re-run nodes](#)
- ✓ **FIX** [Users and groups](#)



**Note:** The v2 version of the published APIs have been deprecated in this release. We recommend that you upgrade to use v3 of the published APIs.

### 3.1 New features and enhancements

| Feature                 | Description   |
|-------------------------|---|
| Improved import process | When you import a document, you are now able to choose a target folder, and if there are any import conflicts, you can decide whether to overwrite the existing document or import to a different location. |

| Feature                               | Description   |
|---------------------------------------|---|
| Notification of missing library nodes | <p>When you open a document (data flow or library node), the library paths defined for that document are used to locate all dependencies so that the document can be reconstructed. If there are library nodes used by the document which cannot be found, then your document will not be able to reconstruct itself. In this case, you will see the <b>Library Node Conflicts</b> dialog where you can investigate which nodes are missing and resolve the issue.</p>  |
| MongoDB nodes                         | <p>The MongoDB nodes have been rewritten and now use the 3.6.3 version of the MongoDB driver.</p> <div data-bbox="440 596 1442 688" style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin: 10px 0;"> <p> <b>Note:</b> This is a breaking change. You will need to reconfigure any data flows that contain one of the MongoDB nodes.</p> </div> <p>For more information, please see the MongoDB documentation, for example: <a href="https://docs.mongodb.com/ecosystem/drivers/driver-compatibility-reference/">https://docs.mongodb.com/ecosystem/drivers/driver-compatibility-reference/</a></p>  |
| Enhanced library node information     | <p>If you have a data flow that contains a missing ("unspecified") library node, the error messaging has been improved to include the node's last known name and location. This can help you to identify whether the node is located at a library path that is not referenced by the data flow, or if it has been deleted.</p>  |
| Salesforce node assignment rules      | <p>The Dataverse Update for Salesforce node has a new <b>UseActiveAssignmentRules</b> property which allows you to override the default Assignment Rule behavior if you do not want to apply the active assignment rules. For more information see the Salesforce documentation, for example: <a href="https://developer.salesforce.com/docs/atlas.en-us.api_rest.meta/api_rest/headers_autoassign.htm">https://developer.salesforce.com/docs/atlas.en-us.api_rest.meta/api_rest/headers_autoassign.htm</a></p>   |
| Password properties                   | <p>In general, password property values are encrypted. However, to increase the portability of data flows between systems, if a password property contains textual substitution (e.g. <code>{{^otherproperty^}}</code>), the substitution expression is now treated as a string value and is not encrypted. This does not pose a security risk given that the substitution expression is not itself sensitive but rather, is referring to a sensitive value stored elsewhere.</p> <div data-bbox="440 1503 1442 1596" style="border: 1px solid #0070c0; border-radius: 10px; padding: 10px; margin: 10px 0;"> <p> <b>Note:</b> For security, it is therefore recommended that you only substitute password properties into other password properties.</p> </div> |
| Performance improvement               | <p>The performance of nodes when processing a moderate number of records has been greatly increased due to a new in-container execution process, whereby nodes are processed in a "container" to reduce the latency in initializing node execution.</p>   |

| Feature         | Description  |
|-----------------|--|
| UI enhancements | The width of dialog boxes has been rationalized to ensure consistency when multiple dialogs are shown in a flow. |
| JDBC drivers    | The Amazon Redshift and SQL Server drivers that are shipped with Dataverse have been upgraded.                   |



**Note:** All superseded nodes are now hidden from the **Nodes** panel by default. These nodes are still available for backwards compatibility and can be displayed by choosing **Show Superseded Nodes** from the **Nodes** panel menu, however, it is recommended that you begin using the new Python-based nodes where possible.

## 3.2 Corrected issues

| Issue summary   | Issue number |
|---|--------------|
| <p><b>Excel File node</b></p> <p>When importing data from an Excel file that contains a broken formula, the error messaging has been improved to help you to identify which cell contains the invalid data.</p> | LAE-9824     |
| <p><b>Data Converter node</b></p> <p>The Data Converter node has been fixed so that it will not erroneously convert Unicode type fields into string type fields.</p>  | LAE-8372     |
| <p><b>Lookup node</b></p> <p>The Lookup node error messaging has been improved in cases where there are duplicate keys on the lookup input.</p>   | LAE-9957     |
| <p><b>Output Tableau node</b></p> <p>The error messaging has been improved on the Output Tableau node when the specified project does not exist.</p>  | LAE-9877     |

| Issue summary  | Issue number                              |
|--|---|
| <p><b>JDBC nodes</b></p> <p>Resolved an error that was encountered when working with the JDBC Store node to load data into Teradata tables with the <b>LoadMethod</b> property set to <b>optimized</b>, where some non-string fields contained both null and non-null values. This fix ensures that for the Teradata driver, when storing non-null non-string data, the data to store is set on the driver using the JDBC type of the column against which it is to be bound (if the type is known).</p> | LAE-10012                                 |
| <p><b>Launch Dataverse Desktop</b></p> <p>Resolved an issue where Chrome users were not being automatically directed to the Dataverse login page after launching the Desktop application.</p>  | LAE-9925                                  |
| <p><b>Open data flows</b></p> <p>Resolved an issue that prevented you from opening LNAs which were identified as having issues during import.</p> <p>Resolved an error that was seen after viewing a scheduled run then attempting to open a data flow from a different folder in the Directory.</p> <p>Resolved an error that was seen after a restart when attempting to open an existing data flow before creating a new data flow.</p>   | LAE-9906<br><br>LAE-9891<br><br>LAE-10003 |
| <p><b>Directory refresh</b></p> <p>The Directory screen will now automatically update to display the latest information after a document is imported and when multiple folders are selected for delete.</p>  | LAE-9869<br>LAE-9598                      |
| <p><b>Node logs</b></p> <p>Resolved an issue where the node log was becoming corrupted when the Delimited File node imported invalid encoded values into a string field. This fix ensures that the node log will no longer become corrupted in this situation.</p> <p>Resolved an issue where node logs could be erroneously deleted during node execution.</p>  | LAE-9722<br><br>LAE-9953                  |



| Issue summary  | Issue number         |
|--|----------------------|
| <p><a href="#">Rewire composite input</a></p> <p>Resolved an issue where in certain situations, rewiring the input of a composite caused errors when the node was executed.</p>  | LAE-9962             |
| <p><a href="#">Field menu button</a></p> <p>Resolved an issue where the field menu button was in some cases incorrectly displayed against a white background.</p>  | LAE-9671             |
| <p><a href="#">Timeout</a></p> <p>Resolved an issue where in some cases, after a period of inactivity, an error message was displayed rather than the timeout screen, preventing continued use of the application.</p>   | LAE-9151             |
| <p><a href="#">Node execution</a></p> <p>Resolved an issue where a data flow may continue to appear to be running despite the execution having failed to complete successfully.</p>  | LAE-9937             |
| <p><a href="#">LAE server connection</a></p> <p>Users can now access the web application if the LAE server is down. Additionally, the error handling has been improved when the LAE server is down and a user attempts to execute a node.</p>  | LAE-9872<br>LAE-9871 |
| <p><a href="#">Property "default" value</a></p> <p>The <b>default</b> option has been removed from the property drop-down menu to resolve an issue where it was being set incorrectly. You can use the <b>Restore Default Value</b> to return the property value to its default.</p> | LAE-9890             |
| <p><a href="#">Schedule a data flow</a></p> <p>Resolved an error that was seen when attempting to select a data flow in the <b>Schedule a Data Flow</b> dialog.</p>  | LAE-9907             |
| <p><a href="#">Save changes</a></p> <p>Resolved an error that was sometimes encountered when saving immediately after making changes to your data flow.</p>  | LAE-9984             |

| Issue summary  | Issue number         |
|--|----------------------|
| <b>Node connections</b>  |                      |
| Resolved an issue where making a connection from an output pin to an optional input pin caused the application to freeze.  | LAE-9986             |
| Resolved an issue where inserting a new node while adding a connection caused the application to freeze.   | LAE-9813             |
| <b>Re-run nodes</b>  |                      |
| Resolved an issue where the re-run functionality would not complete successfully when attempting to re-run a set of Create Data nodes that had been edited after an initial run. | LAE-9408             |
| <b>Users and groups</b>  |                      |
| When multiple items are selected in the Directory, and one of the items is an imported user or group, the delete user/group menu option is no longer available.                  | LAE-9923             |
| Resolved an issue that caused the delete action to fail if there were missing user preferences.  | LAE-9919<br>LAE-9920 |
| The error messaging has been improved on application startup if there are missing user preferences.  | LAE-10010            |
| Resolved an issue that caused LDAP/AD updates to fail when a member was missing from a group.  | LAE-9935             |
| Resolved an issue that prevented the editing of user groups.   | LAE-9909             |
| Resolved an issue that prevented users from being able to log in when one of the user groups within Dataverse was missing a specified member.                                    | LAE-9870             |
| The groups list is now automatically refreshed after any change is made to a group from the <b>Edit Group</b> dialog.  | LAE-9737<br>LAE-9735 |
| Resolved an issue that prevented the creation of a new user with the same name as another user, even if the existing user had been renamed.                                      | LAE-9940             |

## 4. Known issues and limitations

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We would like to make you aware of the following list of issues and limitations.

If you encounter any other technical issues, please get in touch with us. We recommend that you visit the [Dataverse Forum](#). If your query has not been discussed previously in the forums, you can create a new topic and receive answers from our Dataverse experts. Alternatively, you can log a ticket by emailing support at [help@lavastorm.com](mailto:help@lavastorm.com).

### 4.1 Third parties

The following table lists third party known issues and limitations:

| Feature | Description   |
|---------|---|
| Apache  | <p>The Spark SQL Query node has highlighted some Apache issues in the following scenarios:</p> <ul style="list-style-type: none"> <li>Selecting a field with binary type fails with the exception "UnresolvedUnionException: Not in union ["bytes", "null"]". This is already raised on Apache JIRA: <a href="https://issues.apache.org/jira/browse/AVRO-1401">https://issues.apache.org/jira/browse/AVRO-1401</a></li> <li>Describe operation returns 3 fields (col_name, col_type, comment) however the comment field is handled as not "nullable" but returns a NULL value.</li> </ul> <p>The Spark SQL Query node processes against Hive tables. When Hive tables are processed by the cluster, the minimum memory requirement is higher compared to the memory required to run other Spark nodes that do not access Hive. The DriverMemory and ExecutorMemory both have a minimum 5G threshold. We recommend that you increase this for larger environments.</p> |
| Avro    | <p>The Avro 1.7.7 specification lists some supported metadata constraints. Specifically, it places restrictions on the names of fields, as follows:</p> <ul style="list-style-type: none"> <li>The field names must start with [A-Za-z_]</li> <li>The field names must only contain [A-Za-z0-9_]</li> </ul> <p>Avro 1.7.7 does not support date, time and datetime data types. As a result, if you want to upload data and use the Dataverse nodes, these fields will need to be converted to string data types.</p>  |

| Feature             | Description   |
|---------------------|---|
| Hadoop Hive Cluster | <p>When downloading files from the Hadoop Hive Cluster, the WebHDFS API automatically encodes files to base64 format. As a result, it is not always possible to view the contents of the download in the fields on the output.</p> <p>For example, if the <b>DataOutputMode</b> property is set to <b>Field</b>, due to the automatic base64 encoding, the encoded result will be visible instead of the contents.</p> <p>To view the contents, set the <b>DataOutputFieldEncoding</b> property to <b>None</b>. However, this is not always possible due to invalid characters in the original file; in this case, the workaround is to set the <b>DataOutputMode</b> to <b>File</b> and then import the data using one of the input connector nodes.</p> |

## 4.2 Web application

The following table lists Dataverse known issues and limitations:

| Feature  | Description  |
|--|--|
| Data viewer  | <p>A sample of up to the first 1000 records of node data can be displayed in the data viewer.</p> <p>The data viewer only shows the first line of multi-line values. You can hover over the cell to show the full multi-line value in a tooltip. Selected records can also be copied from the data viewer to another application (e.g. Notepad).</p>   |
| Composite library nodes created in previous versions | <p>When importing or running a data flow that was created in an older version of the product, you may see error messages if the data flow contains composite library nodes that have been upgraded since the data flow was first created. If the data flow did not previously show these errors, you can resolve the issues as follows:</p> <ol style="list-style-type: none"> <li>1. Open the data flow and select all nodes.</li> <li>2. Choose <b>Apply Auto-Fixes</b>.</li> <li>3. Save the data flow, then return to the Directory before reopening the data flow.</li> </ol> |
| Links from tooltips to help                          | <p>Although it is not currently possible to open the integrated help from the links in node property tooltips, you can manually navigate to the help by pressing <b>F1</b> then searching for the relevant topic.</p>  |
| Logistic Regression node                             | <p>The Logistic Regression node does not support Unicode for categorical data.</p>   |



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