Release Notes

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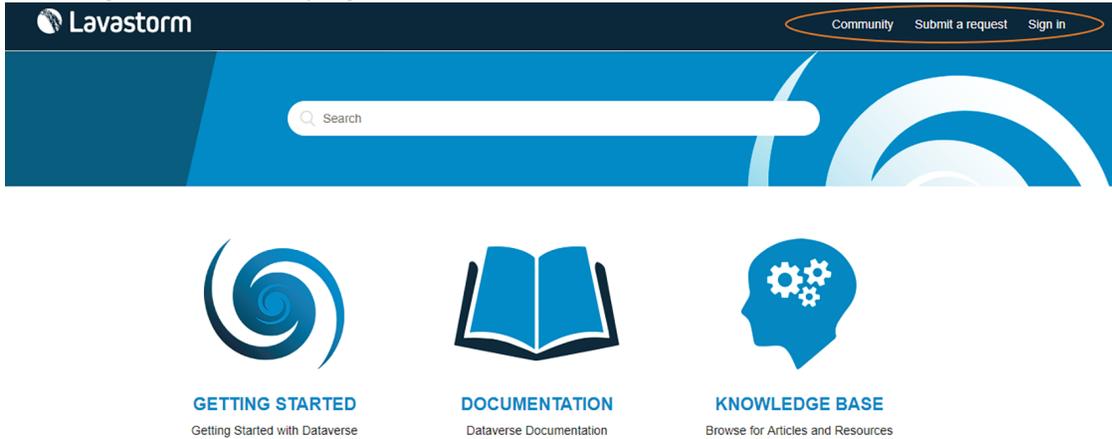
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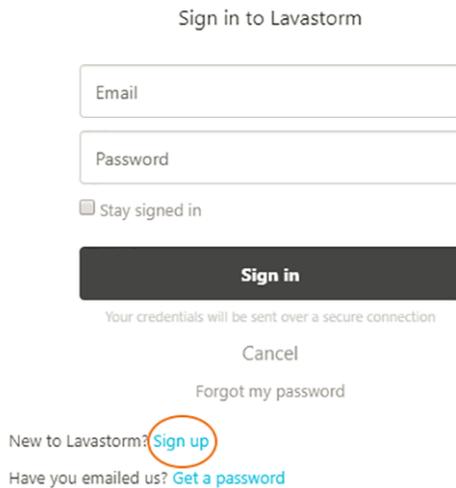
Contact us

If you encounter any technical issues, we recommend that you visit the Dataverse Forums at 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**:

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.
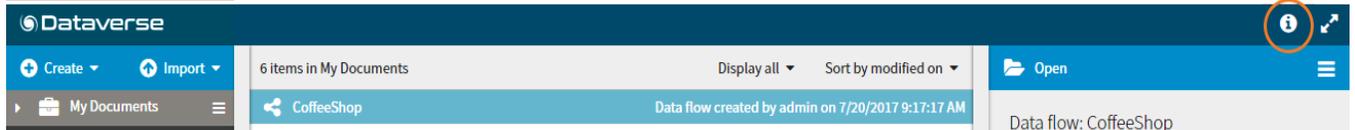
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1. Welcome to Dataverse

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.

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:

1.1 Release overview

Dataverse enables you to acquire data from one or more sources, then analyze, reconcile, and transform the data before publishing to a file, database or external system.

Acquire data

You can import data from sources such as Microsoft Excel or CSV, or from big data platforms such as Hadoop or MongoDB by using one of the Input Connector nodes.

Build data flows to analyze your data

You can create data flows by connecting nodes and configuring their properties to customize the analysis that is performed on the underlying data at each step. Each node performs an operation on the input data and provides output data for subsequent nodes. 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.

At each step through your data flow, you can view the underlying data in the data viewer, allowing you to validate the business logic and to discover patterns in the data which suggest new avenues of inquiry. When viewing large data sets, you can filter and sort the data to display only relevant information.

Data flows are executed interactively using the tools in the Designer user interface. Depending on your license, you can also configure data flows to automatically execute on a scheduled basis.

Simplify and reuse

You can simplify complex data flows by grouping subsets of nodes into a single composite node, and you can create custom library nodes for reuse in multiple data flows.

Share and publish results

You can share custom nodes and data flows with other users. Data from any point within the data flow can be exported to an external file for external viewing and sharing.

Finally, you can publish the results of your analysis to a file or another system, for example to Microsoft Excel or to a data visualization tool such as Tableau or Qlik by using one of the Output Connector nodes.

LDAP/AD and SSO integration

In the Dataverse Server product, administrators can import users and groups from an LDAP/AD server. Dataverse can be configured to synchronize with an LDAP/AD server at regular intervals. Subject to licensed features, you can also integrate Dataverse with CA Single Sign-On. In this case, users can either be created on demand or locally in Dataverse, or users can be created from their LDAP/AD account.

1.2 Setup requirements

	Dataverse Server	Dataverse Desktop
Supported platforms	The following operating systems are supported on the Dataverse server product: • Windows Server 2016 64-bit (Server with Desktop Experience) • Windows Server 2012R2 64-bit • RedHat Enterprise 6.X 64-bit • RedHat Enterprise 7.X 64-bit The following browsers are supported on both server and desktop: • Chrome • Internet Explorer 11	The following operating systems are supported on the Dataverse single-user desktop product: • Windows 7 64-bit • Windows 10 64-bit

	Dataverse Server	Dataverse Desktop
System requirements	The minimum hardware specification for the server product is as follows: ● 8GB RAM base + 1GB for Database + 2GB per core. ● Minimum 4 cores for an on-premises server instance. **Note:** 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. For installations on Windows Server, you must install the required Visual C++ Redistributable Packages for Visual Studio 2013. **Note:** 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.	The minimum hardware specification for the desktop product is as follows: ● 8GB RAM. ● Intel Core i5 or 4-core equivalent processor minimum (i7 recommended).
App server databases	Postgres	H2
Authentication servers (server only)	● Active Directory ● OpenLDAP	N/A
Authentication protocols (server only)	● LDAP ● LDAPs	N/A

	Dataverse Server	Dataverse Desktop
Single Sign-On (server only)	CA Single Sign-On 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. 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.	N/A
App servers	Tomcat 8.5.23	
Accessible databases	Within the Designer, you can connect your analytic application to a number of databases. The following accessible databases are supported: • Oracle 11g, 12c • Teradata 14.10 / 15.10 • MySQL • MS SQL Server 2012 • MongoDB 2.4.9 • Spark 1.5.0 • Hadoop 2.6.0	

2. What's new in 3.2.2?

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

★ N^EW [Move conflict management](#)	✔ F^IX [Unresolved node properties](#)
★ N^EW [CSV/Delimited Input node updates](#)	✔ F^IX [In-container node processing](#)
★ N^EW [Import LNA via REST API](#)	✔ F^IX [Editing property values](#)
★ N^EW [Performance improvement](#)	✔ F^IX [Node connections](#)
✔ F^IX [Property sources](#)	✔ F^IX [XML Data and JSON Data nodes](#)
✔ F^IX [Canvas display](#)	✔ F^IX [Custom library nodes](#)
✔ F^IX [Number display in the data viewer](#)	✔ F^IX [Node output pins](#)
✔ F^IX [Correlation nodes](#)	✔ F^IX [Composite inputs](#)
✔ F^IX [S3 List node](#)	✔ F^IX [Deleting data flows](#)
✔ F^IX [Breadcrumb name](#)	✔ F^IX [Grouping nodes](#)

2.1 New features and enhancements

Feature	Description
Move conflict management	When you move documents between folders, if there are any conflicts with existing items you can choose to overwrite the existing document, or change the name or ID of the item that is being moved. For more information, see the "Move conflicts" section in the integrated product help.

Feature	Description
CSV/Delimited Input node updates	The **CSV/Delimited Input** node now offers increased flexibility as you can optionally derive the values for format-related properties from an input field, and you can auto-detect the CSV format and the character set of the input data. There are three new node properties: **HasHeaderLine**, **DetectOnly** and **NumSampleRows**. The **HasHeaderLine** property allows you to specify if the input data contains a header line with field names. The **DetectOnly** property can be set to auto-detect the file character set by sampling the data, and the maximum number of rows used in the detection process can be set by using the **NumSampleRows** property. For more information, see the "CSV/Delimited Input" node help topic in the integrated product help.
Import LNA via REST API	It is now possible to import an LNA file containing nodes or data flows via the Dataverse REST API. For more information, see the "LNA Import" section of the Dataverse API documentation.
Performance improvement	The performance of the application has been improved when navigating the user interface, moving and deleting directory items, and editing property values on data flows that contain a large number of nodes within a single composite. The execution performance has also been improved, particularly in the case of concurrent execution of multiple data flows (by multiple users or schedules), loop execution, and when running nodes processing small amounts of data.

2.2 Corrected issues

Issue summary	Issue number
Property sources	
Resolved an issue with nodes that have source based properties, where changing the property source was not recognized for example, changing the variant of the **Input** property on the **CSV/Delimited Input** node from **Data (from Filename)** to **Data (from Filename Field)**.	LAE-9828
It is now possible to enter a custom value in a choice type property that has multiple property sources. For example, on a choice type property that has a **(from Field)** variant, if you typed "3" into the property field, but the dropdown choices were 1 or 2, the value would revert to one of the choice options, preventing you from saving the custom value "3". This issue has now been resolved.	LAE-10364
Canvas display	
The canvas screen now responds more quickly to display underlying nodes when the left or right side panels are resized.	LAE-10080
Number display in the data viewer	
Resolved an issue where in some cases numbers were displayed in the data viewer with a loss of precision.	LAE-10141

Issue summary	Issue number
Correlation nodes	
If you have applied a pattern to exclude input fields from the output, you cannot rename the fields by pattern. If an exclude pattern is applied to a set of input fields with an existing rename pattern, the rename pattern is cleared.	LAE-9683
Resolved an issue where editing the **Advanced** tab of the **ConfigureFields** property caused the Lookup node to become unusable.	LAE-10144
The Lookup node now correctly validates field types and reports an error if there is a type mismatch for non-advanced use cases.	LAE-10145
Resolved an issue when using field accessors (for example `fields ["fieldname"]`) with the Lookup and Merge nodes.	LAE-10146
Resolved an issue where editing the **Match Keys Grid** on the Join, Lookup or Merge nodes was not correctly updating the node logic if you had previously entered script on the **Advanced** tab.	LAE-9810
Resolved an issue where in some cases the default output pin property value was unset on the Lookup, Join and Merge nodes.	LAE-9914
Resolved an issue that occurred when the input pins of a selected Lookup node were connected to nodes which had already run.	LAE-10336
S3 List node	
Resolved an issue where the S3 List node would give incorrect results for any directory that contained more than 1000 files.	LAE-10150
Breadcrumb name	
Resolved an issue where the canvas breadcrumb link was not updated when the **Save As** option was used to save a data flow with a new name.	LAE-10090
Unresolved node properties	
Resolved an issue where a deleted node property would remain in the **Unresolved Properties** list despite a new property with the same name being defined.	LAE-10131

Issue summary	Issue number
In-container node processing Resolved an issue caused by temporary files not being created in the correct directory and then not being cleaned up when using in-container node execution.	LAE-10194 LAE-10195
In some cases, nodes that should have been run as part of their own process were run as part of the in-container node process, causing potential performance issues and excessive memory usage on the container. This issue has now been resolved.	LAE-10196
Editing property values Resolved a performance issue where the process of updating a property value was taking longer than expected and you could not edit another property during this time.	LAE-10057
When configuring a node property by inserting a property reference, the referenced value was always inserted at the end of any existing property value, rather than at the selected point. This issue has now been resolved and property references can be inserted at a selected point.	LAE-9058
Node connections Resolved an issue where the gray connection between nodes was not visible immediately after being drawn.	LAE-10072
XML Data and JSON Data nodes Resolved an error that was encountered when importing XML or JSON data that contained field names which conflicted with internally generated fields.	LAE-10147
Resolved an error with the JSON Data node that was encountered when importing multiple JSON files with different file structures. As part of this fix, the performance of the JSON Data node when processing a large number of output fields has been greatly improved.	LAE-10372
Custom library nodes Resolved an issue where custom library nodes with different names were incorrectly displaying in the **Nodes** panel with the same name.	LAE-10140

Issue summary	Issue number
Node output pins Resolved an issue where additional node output pins would appear when a node was dragged onto the canvas from the **Nodes** panel.	LAE-10051
Composite inputs Resolved an issue where additional composite inputs would appear on the canvas when drilling in and out of composite nodes.	LAE-10356
Deleting data flows Resolved an issue where in some cases the application was not able to correctly delete data flows when multiple items were selected to delete, and the data flows selected for delete had associated run information. The application would incorrectly report that the data flow could not be deleted as it had running executions.	LAE-10301
Grouping nodes Resolved an error that occurred when grouping nodes that were connected to other nodes in the data flow which had already been executed.	LAE-10376

3. What's new in 3.2.1?

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

★ NEW	[Performance improvement](#)	✓ FIX	[Web application startup](#)
★ NEW	[Python version upgrade](#)	✓ FIX	[User interface responsiveness](#)
★ NEW	[JSON Data node fragment support](#)	✓ FIX	[Excel File node](#)
★ NEW	[Show hidden properties](#)	✓ FIX	[Statistics node](#)
★ NEW	[About Dataverse](#)	✓ FIX	[Library paths](#)
✓ FIX	[Decryption of password property values](#)	✓ FIX	[Transpose node](#)
✓ FIX	[Import legacy data flow](#)	✓ FIX	[Unresolved properties](#)
✓ FIX	[Schedules](#)	✓ FIX	[Run property textual substitution](#)
✓ FIX	[Multiple imports of a data flow](#)	✓ FIX	[Concurrent editing](#)
✓ FIX	[Directory](#)	✓ FIX	[Node connection display](#)

3.1 New features and enhancements

Feature	Description
Performance improvement	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.
Python version upgrade	The Python node has been upgraded to work with the 2.7.15 release of Python, benefiting from the latest security updates.
JSON Data node fragment support	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
Show hidden properties	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. **Note:** 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.
About Dataverse	The About Dataverse screen now includes the option to copy license and server details which can be useful when working with support. Additionally, the Dataverse version is now added to server logs on startup.

3.2 Corrected issues

Issue summary	Issue number
Decryption of password property values Resolved issue where password property values were corrupted during decryption when running concurrent schedules of a data flow.	LAE-10134
Import legacy data flow Resolved an issue that prevented the import of a legacy data flow which contained errors.	LAE-10128
Schedules Resolved an issue where in some cases, a scheduled data flow would fail to run, and opening the data flow showed a previous state.	LAE-10114
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.	LAE-10052
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.	LAE-9866

Issue summary	Issue number
Multiple imports of a data flow 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.	LAE-10095 LAE-10094
Directory Resolved an issue in displaying the document list when returning to the Directory from an open data flow.	LAE-10100
Resolved an issue where double-clicking to drill into a folder in the Directory disabled the multi-select function.	LAE-10043
Web application startup Resolved an issue where the web application would in some cases hang on startup.	LAE-10092
User interface responsiveness 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.	LAE-10089
Excel File node 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 **NullHeaderCellAction** property.	LAE-10085
Statistics node Resolved an error that was encountered when using the Statistics node with a field that contained Null values.	LAE-10084
Library paths Resolved an issue where library paths were not being correctly displayed after a save action until the page was refreshed.	LAE-9903
Transpose node The Transpose node now treats empty string and whitespace fields in the same way as Null values.	LAE-9403

Issue summary	Issue number
Unresolved properties 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 **Unresolved Properties** list, and from here it can be deleted to prevent the incorrect property value being used.	LAE-9811
Run property textual substitution When a node property contains textual substitution referencing a run property, it is now correctly shown as an evaluated value in the **Review** tab.	LAE-8673
Concurrent editing A **Locked for Editing** message is now displayed if two users attempt to concurrently edit a shared data flow.	LAE-10059
Node connection display 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.	LAE-10096

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

> **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.

4.1 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	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 **Library Node Conflicts** dialog where you can investigate which nodes are missing and resolve the issue.
MongoDB nodes	The MongoDB nodes have been rewritten and now use the 3.6.3 version of the MongoDB driver. **Note:** This is a breaking change. You will need to reconfigure any data flows that contain one of the MongoDB nodes. For more information, please see the MongoDB documentation, for example: https://docs.mongodb.com/ecosystem/drivers/driver-compatibility-reference/
Enhanced library node information	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.
Salesforce node assignment rules	The Dataverse Update for Salesforce node has a new **UseActiveAssignmentRules** 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: https://developer.salesforce.com/docs/atlas.en-us.api_rest.meta/api_rest/headers_autoassign.htm
Password properties	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. `{{^otherproperty^}}`, 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. **Note:** For security, it is therefore recommended that you only substitute password properties into other password properties.
Performance improvement	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.

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.

4.2 Corrected issues

Issue summary	Issue number
Excel File node 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.	LAE-9824
Data Converter node The Data Converter node has been fixed so that it will not erroneously convert Unicode type fields into string type fields.	LAE-8372
Lookup node The Lookup node error messaging has been improved in cases where there are duplicate keys on the lookup input.	LAE-9957
Output Tableau node The error messaging has been improved on the Output Tableau node when the specified project does not exist.	LAE-9877

Issue summary	Issue number
JDBC nodes Resolved an error that was encountered when working with the JDBC Store node to load data into Teradata tables with the **LoadMethod** property set to **optimized**, 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).	LAE-10012
Launch Dataverse Desktop Resolved an issue where Chrome users were not being automatically directed to the Dataverse login page after launching the Desktop application.	LAE-9925
Open data flows Resolved an issue that prevented you from opening LNAs which were identified as having issues during import.	LAE-9906
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.	LAE-9891
Resolved an error that was seen after a restart when attempting to open an existing data flow before creating a new data flow.	LAE-10003
Directory refresh 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.	LAE-9869 LAE-9598
Node logs 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.	LAE-9722
Resolved an issue where node logs could be erroneously deleted during node execution.	LAE-9953

Issue summary	Issue number
Rewire composite input Resolved an issue where in certain situations, rewiring the input of a composite caused errors when the node was executed.	LAE-9962
Field menu button Resolved an issue where the field menu button was in some cases incorrectly displayed against a white background.	LAE-9671
Timeout 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.	LAE-9151
Node execution Resolved an issue where a data flow may continue to appear to be running despite the execution having failed to complete successfully.	LAE-9937
LAE server connection 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.	LAE-9872 LAE-9871
Property "default" value The **default** option has been removed from the property drop-down menu to resolve an issue where it was being set incorrectly. You can use the **Restore Default Value** to return the property value to its default.	LAE-9890
Schedule a data flow Resolved an error that was seen when attempting to select a data flow in the **Schedule a Data Flow** dialog.	LAE-9907
Save changes Resolved an error that was sometimes encountered when saving immediately after making changes to your data flow.	LAE-9984

Issue summary	Issue number
Node connections	
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
Re-run nodes	
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
Users and groups	
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 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 **Edit Group** dialog.	LAE-9737 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

5. Known issues and limitations

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.

5.1 Third parties

The following table lists third party known issues and limitations:

Feature	Description
Apache	The Spark SQL Query node has highlighted some Apache issues in the following scenarios: • Selecting a field with binary type fails with the exception "UnresolvedUnionException: Not in union ["bytes","null"]". This is already raised on Apache JIRA: https://issues.apache.org/jira/browse/AVRO-1401 • Describe operation returns 3 fields (col_name, col_type, comment) however the comment field is handled as not "nullable" but returns a NULL value. 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.
Avro	The Avro 1.7.7 specification lists some supported metadata constraints. Specifically, it places restrictions on the names of fields, as follows: • The field names must start with [A-Za-z_] • The field names must only contain [A-Za-z0-9_] 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.

Feature	Description
Hadoop Hive Cluster	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. For example, if the **DataOutputMode** property is set to **Field**, due to the automatic base64 encoding, the encoded result will be visible instead of the contents. To view the contents, set the **DataOutputFieldEncoding** property to **None**. However, this is not always possible due to invalid characters in the original file; in this case, the workaround is to set the **DataOutputMode** to **File** and then import the data using one of the input connector nodes.

5.2 Web application

The following table lists Dataverse known issues and limitations:

Feature	Description
Data viewer	A sample of up to the first 1000 records of node data can be displayed in the data viewer. 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).
Composite library nodes created in previous versions	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: 1. Open the data flow and select all nodes. 2. Choose **Apply Auto-Fixes**. 3. Save the data flow, then return to the Directory before reopening the data flow.
Links from tooltips to help	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 **F1** then searching for the relevant topic.
Logistic Regression node	The Logistic Regression node does not support Unicode for categorical data.

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