



THE POWER TO TRUST

# Data360<sup>®</sup> Analyze

Release Notes

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3.8.1



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# 1. Setup requirements

	Server	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>• 32GB minimum (Web Server - 12GB, Database server - 8GB, Execution Server - 4GB base + 2GB per core)</li><li>• Minimum 4 cores for a server instance</li></ul> <div data-bbox="412 856 899 1142" style="border: 1px solid black; padding: 5px;"><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> <ul style="list-style-type: none"><li>• At least two separate drives or partitions:<ul style="list-style-type: none"><li>◦ One for the Data directory.</li><li>◦ One for temporary execution data.</li></ul></li></ul>	<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>

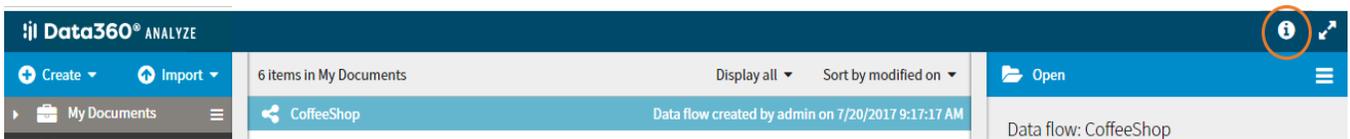
	Server	Desktop
<b>System requirements</b>	<p>For desktop installations and installations on Windows Server, you must install the required Visual C++ Redistributable Packages (choose the x64 variant of the .exe file):</p> <ul style="list-style-type: none"> <li>• <a href="#">Visual C++ Redistributable Packages for Visual Studio 2008</a></li> <li>• <a href="#">Visual C++ Redistributable Packages for Visual Studio 2013</a></li> </ul> <p>For Windows Server installations, you must also install:</p> <ul style="list-style-type: none"> <li>• <a href="#">Visual C++ Redistributable Packages for Visual Studio 2019</a></li> </ul> <div style="border: 1px solid black; 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>	

	Server	Desktop
<b>Supported platforms</b>	<p>The following operating systems are supported on the Data360 Analyze server product:</p> <ul style="list-style-type: none"> <li>• Windows Server Core 2019</li> <li>• Windows Server 2019 (Desktop Experience)</li> <li>• Windows Server 2016 64-bit (Server with Desktop Experience)</li> <li>• RedHat Enterprise 7.X 64-bit</li> <li>• RedHat Enterprise 8.X 64-bit Requires the <code>libnsl-2.28-151.e18.x86_64</code> RPM package or later, and the <code>compat-libgfortran-48</code> package.</li> </ul> <p>The following browsers are supported on both server and desktop:</p> <ul style="list-style-type: none"> <li>• Google Chrome - Latest stable version</li> <li>• Microsoft Edge - New Chromium-based version</li> </ul>	<p>The following operating systems are supported on the Data360 Analyze single-user desktop product:</p> <ul style="list-style-type: none"> <li>• Windows 10 64-bit</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
<b>Single Sign-On (server only)</b>	SAML 2.0	N/A
<b>App servers</b>	Tomcat 9.0.52	

## 2. Latest release - 3.8.1

This document provides release information for all releases of Data360 Analyze from version 3.8.0 onwards. If you require release information for an older version of Data360 Analyze, please contact us at [support.infogix.com](http://support.infogix.com).

For information on installing Data360 Analyze, please see the installation guide. Once you are up and running, you can access the integrated product help by clicking the Help icon in the corner of the screen:



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

### 2.1 What's new

- The version of Jackson used by Data360 Analyze has been upgraded.
- Postgres upgraded to 13.4 for server products.
- A new Cron expression interval option is now available when scheduling a dataflow.
- The Tomcat version has been upgraded to 9.0.52.

### 2.2 Corrected issues

Issue summary	Issue number
Fixed an issue to improve performance when moving folders that had a lot of content in the directory, such as nested folders, or those containing the run state of data flows, with a lot of composite layers.	LAE-24579

Issue summary	Issue number
Fixed an issue where it was possible to copy a folder into itself, leading to infinite recursion. This was possible, if your My Documents workspace was pointing to a location other than the home default.	LAE-25822
Fixed an issue where a schedule that was moved, could not be edited in Schedules.	LAE-25917
Fixed an issue with the canvas, where nudge positioning did not persist, until the grid threshold was met.	LAE-25972
Fixed an issue where you could not select multiple nodes and convert them into a library node.	LAE-26135
Fixed an issue to ensure BRG import is more lenient when handling bendpoints that are defined in the BRG, but which reference connections on non-existent inputs and outputs. The legacy BRE product can now load without error and ignore any such issues. Similar logic is implemented in Data360 Analyze, although a warning will now be logged.	LAE-26236
Fixed an issue where executing data flow nodes that were launched at the same time as a backup, could, in certain rare timing dependent cases, lead to a deadlock.	LAE-26246
Fixed an issue that led to duplicate library nodes in the node palette.	LAE-26358
Fixed an issue concerning unexpected failures during an execution due to, for example, running out of memory. The problem will now be logged and the process will attempt to mark the execution as failed, to avoid a deadlock.	LAE-26367
Fixed an issue where LDAP users could not log in after upgrading from 3.6.3 or earlier, because the LDAP password in Settings > Authentication was corrupted after the upgrade.	LAE-26483
Fixed an issue where certain API end-points were not stopping operations during backup, leading to a deadlock, or inaccurate backup results.	LAE-26519

Issue summary	Issue number
Fixed an issue that led to lower performance levels, when navigating around a canvas with multiple nodes in a run state.	LAE-26749
Fixed an issue where Undo was not working correctly within a composite node in a data flow.	LAE-26766
Fixed a BRG import issue, so that imports will now succeed, despite invalid connectable references.	LAE-26823
Fixed an issue so that BRG imports can proceed successfully, when X/Y coordinates in the BRG have negative values.	LAE-26824
Fixed an issue where a data flow and library node import could spawn a large number of threads, when there were errors or warnings on the items being imported. When using Linux, this could result in the import failing with <code>OutOfMemory</code> errors.	LAE-26825
Fixed an issue to ensure that while documents can be moved out of the "Data360 Samples" folders, you cannot move items into them, as these are maintained by Data360 Analyze.	LAE-26844
Fixed an issue that meant a new connectable was created, but not the connection itself, when connecting to a ghost pin in a composite library node.	LAE-26878
Fixed an issue that meant a node did not snap to the grid when dropped onto the canvas.	LAE-26879
Fixed an issue where the canvas was frozen after displaying the server connection error dialog.	LAE-26881
Fixed an issue where the server connection dialog was not displayed.	LAE-26887
Fixed an issue where the third party license page was not available on a server installation.	LAE-26896
Fixed an issue that meant the browser tab did not show the data flow name.	LAE-26897
Fixed an issue where you couldn't edit a scheduled data flow, after installing Data360 Analyze 3.8.0	LAE-26909

Issue summary	Issue number
Fixed an issue where the Convert to Library Node option was disabled, when multiple nodes were selected on the canvas.	LAE-26910
Fixed an issue where upgrading a system to 3.8.0 would fail, if it had caches larger than 2GB.	LAE-26922
Fixed an issue where a library node could be duplicated in the node palette, if you had duplicate entries in your "library path" settings for the data flow.	LAE-26932
Fixed an issue that caused problems with saving a data flow, after updating the search paths.	LAE-26938
Fixed an issue that meant upgrading from 3.6.7 to 3.8.0 would not work successfully.	LAE-26943
Fixed an issue so that if an execution is interrupted by a system backup, it will now resume when the backup is finished.	LAE-26959
Fixed an issue where dragging from a ghost pin to make a connection did not work.	LAE-26970
Fixed an issue where the Unbundle dialog was not showing, when connecting from a bundle connection point to a composite output.	LAE-26971
Fixed an issue that generated an <code>elementNotFound</code> exception, when attempting to undo inside a Composite node.	LAE-26972
Fixed an issue where an error dialog would occasionally appear after navigating within a data flow following the insertion of a connection point.	LAE-26999
Fixed an issue where an <code>ObjectNotFound</code> exception was sometimes displayed, when opening a data flow.	LAE-27017
Fixed an issue where the ERP nodes on a Windows Server would fail to run, due to library path issues.	LAE-27045

## 3. New in 3.8.0

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

### 3.1 What's new

#### Performance improvements

Overall, the user experience with Data360 Analyze 3.8.0 has been considerably enhanced, especially with regard to designing and building data flows.

In particular, the performance of the application when navigating and making changes to large data flows, where the number of nodes could be in excess of 3000+, has been significantly improved, ensuring a far more expeditious experience when building them.

There have also been further performance improvements across Data360 Analyze, but in particular:

- When applying autofixes against a large data flow.
- Loading the canvas, and the response to various UI operations, such as connecting nodes and similar, due to improvements in compilation performance.
- Improved responsiveness for the first data flow modification operation that is done after the data flow is saved.

#### Node enhancements

##### CSV/Delimited Input node

- The `DuplicateFieldNameBehavior` property has been added, which allows an incoming data set to be managed if it contains fields that appear multiple times in the metadata. Duplicate field names are suffixed with "`_occurrenceNumber>`".
- New `MissingFieldBehavior` and `AdditionalFieldBehavior` properties are now available, which allow you to decide what to do if a record is missing field values, or contains additional field values.

- A new `MissingFieldNameBehavior` property is available, which allows you to decide what to do if the header is missing a fieldname.
- You can now specify multiple characters for the field delimiter.
- The Record Delimiter can now be specified within the node, which can be a maximum of 2 characters in length.
- A new `SubstituteInvalidChars` property is available, which allows you to process files when fieldnames include an invalid character.
- A new `HeaderMode` property has been added, which allows you to easily specify whether a file contains a header, and if the header includes type information. `HasHeader` and `TypedHeader` properties have been deprecated.
- New `dateFormat`, `timeFormat` and `datetimeFormat` properties have been added, which can be used to specify what format the relevant type is on the incoming dataset, when the `headerMode` property is set to "Typed".
- A new `NullMode` property has been added, which determines what should be interpreted as a NULL value, when reading the input data.
- New `MaxCharsPerColumn` and `MaxColumns` properties are now available, which allow you to overwrite the defaults when processing either very large data within one or more individual fields, or a very substantial data set.
- A new `CommentCharacter` property is now available, which allows you to change what character indicates that a line in a CSV file is a comment, and so should be ignored.

For more information, see the "CSV/Delimited Input" topic in the help.

## XML and JSON Data nodes

- The ability to exclude field paths from XML and JSON Data nodes, using the `ExcludeFieldPaths` property has been added.
- The `MissingExcludeFieldBehavior` property has also been added to specify behavior when any of the fields referenced in the `ExcludeFieldPaths` property, do not exist.

For more information, see the "JSON Data" and "XML Data" topics in the help.

## DeepSQL node

The DeepSQL node now supports lineage generation for Google BigQuery data.

## Other changes

- The Apache POI has been upgraded to version 5.0.0.
- When nodes are running, you can now see the current execution run duration, on the properties panel.
- The QVD File node has been deprecated.
- Data360 Analyze no longer supports Windows Server 2012R2 64-bit.
- Data360 Analyze no longer supports SUSE Linux Enterprise Server.

## 3.2 Corrected issues

Issue summary	Issue number
<p>Fixed an issue that meant if a field was always null or empty, it would never appear in the output of the XML or JSON nodes. An <code>OutputAllNullFields</code> property has been introduced on the nodes, to determine whether or not such fields should be produced. The default is to output the fields.</p> <p>For backwards compatibility and to maintain the previous behavior, set a server property in your <code>cust.prop</code> file. For XML Data nodes, add the line: <code>ls.brain.node.structuredData.xml.outputAllNullFields=false</code></p> <p>For backwards compatibility on the JSON Data node, add the line: <code>ls.brain.node.structuredData.json.outputAllNullFields=false</code></p>	LAE-9988
<p>Fixed an issue where data was sometimes not getting produced correctly in the JSON data node.</p>	LAE-24352
<p>Fixed an issue where data was sometimes not getting produced correctly in the XML data node.</p>	LAE-24911
<p>Fixed an issue where logs were sometimes created in the system, but no longer referenced anywhere, and never removed.</p>	LAE-25185
<p>Fixed an issue that meant changing the monthly schedule settings did not pick up the correct number of months.</p>	LAE-25911
<p>Fixed an issue where The JSON Data node was incorrectly trimming the content of attributes.</p>	LAE-26026

Issue summary	Issue number
Fixed an issue where multiple nodes couldn't be selected and converted into a library node .	LAE-26135
Fixed an issue where the User Search Filter was not being applied while authenticating AD users, when using the <code>sAMAccountName</code> username attribute.	LAE-26382
Fixed an issue where inserting a field reference from a context menu was not working correctly.	LAE-26404
Fixed an issue where you could not log in properly, if your username contained a backslash.	LAE-26632
Fixed an issue where it was not possible to edit disabled schedules, after upgrading from 3.6.3.	LAE-26810
Fixed an issue where <code>NullPointerException</code> s could be thrown when attempting to compile data flows, while navigating around the data flow. This happened especially when using the Node log dialog > Error panel > View data link and the pop out data viewer.	LAE-26826
Fixed an issue where non admin. users could not move or delete run property sets to which they had access.	LAE-26860
Fixed a series of concurrency issues, which could lead to inconsistent results and potentially error dialogs in the UI, especially during save, edit and node state retrieval operations.	LAE-26861

## 4. 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 by visiting the [forum](#). If your query has not been discussed previously in the forums, you can create a new topic and receive answers from our Data360 Analyze experts.

### 4.1 Third parties

The following table lists third party known issues and limitations:

Feature	Description
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 Data360 Analyze nodes, these fields will need to be converted to string data types.</p>
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 Data360 Analyze known issues and limitations:

Feature	Description
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>

## 5. Contact us

If you encounter any technical issues, we recommend that you visit the support portal at [support.infogix.com](https://support.infogix.com).

If your query has not been discussed previously, you can create a new topic and receive answers from our product experts.

Alternatively, you can log a support ticket:

1. Select **Sign in** from the top right corner of the screen.
2. If you have already registered, enter your **Email** and **Password**, then click the **Sign in** button. Or, if you are not a registered support portal user, click **Sign up**:

Sign in to Infogix

Email

Password

Stay signed in

**Sign in**

[I am an Agent](#)

[Forgot my password](#)

**New to Infogix? Sign up**

Have you emailed us? [Get a password](#)

If you've communicated with our support staff through email previously, you're already registered. You probably don't have a password yet, though.

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

## Download

Infogix recommends that you use the latest version of the product. To download Data360 Analyze, please go to <https://www.infogix.com/data3sixty/analyze/analyze-download/>.

Our product is constantly evolving and input from you is highly valued. If you have any suggestions, please contact the product team by submitting a feature request on the [Community](#).

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Document ID: AYZ-RN-3.8.1

Date of issue: Tuesday, September 14, 2021