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- Archive of documentation for Logi Symphony v24

Logi Symphony 24

Symphony 24 Reference Information



Reference Information

This applies to: *Visual Data Discovery*

The following topics provide reference material useful for managing and using Symphony.

- [Symphony Data Discovery Microservice Name Reference](#)
- [Symphony Microservice Startup Order](#)
- [Symphony Metadata Stores](#)
- [Symphony Log Files Reference](#)
- [Default Port Reference](#)
- [Application Configuration Object](#)
- [Query Configuration Object](#)
- [Data Connector Reference](#)
- [Visual Type Configuration Properties](#)
- [ComposerSymphony Data Discovery Visual Metrics And Attributes Reference](#)
- [Supplied Color Palettes](#)
- [Operators](#)
- [State Name Reference](#)
- [Country Name Reference](#)
- [Preset Time Ranges](#)



- Archive of documentation for Logi Symphony v24

- [Errors And Exceptions](#)
- [Events Created By Client](#)
- [Cautionary Note About Internal APIs](#)



The Symphony Main Menu

The main navigation menus are located to the left of many of the work areas you use in Symphony. Menu options available vary based on your application privileges and licensed features.

Home Page

The main menu is expandable and collapsible. Select the expand () and collapse () arrows or menu icon () to expand and collapse the menu.

This menu gives you access to:

Menu Option	Select this option to...
Home	Return to the home page .
Users	Review, edit, and remove users. You can search for a user, or create a new user as needed. Available to users with administrative privileges.
Groups	Open the Groups work area to create and update groups.
Tenants	Open the Tenants work area to create and edit tenants.
Licenses	Access license information for each module: overview details about all licenses, or filter only the license types you want to see. Select Actions , then License details to open a work area specific to that module's licenses to manage as needed.
My Tenants	Select a different tenant to work in, if multi-tenancy is deployed in your environment and you belong to multiple tenants.
Profile	View the login information you've used to connect to Symphony. Select Log out to log out to end your session or to log out to and then log in as a different user.

Visual Data Discovery Work Area

When you access in Visual Data Discovery, the main menu gives you access to:

Menu Option	Select this option to...
Home	Return to the home page .
All Content	Return to the Visual Data Discovery work area.
Connections	Review and manage the connection definitions used by Data Discovery connectors.



Menu Option	Select this option to...
	See Manage Data Discovery Data Store Connections .
Data Sources	Review and manage Data Discovery data source configurations. See Manage Visual Data Discovery Data Sources .
Visual Gallery	Review and manage shared Data Discovery visuals. See Use the Visual Gallery .
Library	Review and manage Data Discovery dashboards and self service reports in the library. See Use the Dashboard Library and Use the Reports Library .
Users and Groups	Manage Data Discovery users and groups and to assign users to groups. See Manage Users in Symphony and Manage User Groups in Visual Data Discovery .
Tools	Several options are available in the Visual Data Discovery tenant to Administrators Group members: ▪ Custom Charts: Manage custom Data Discovery visuals from the UI. See Manage Custom Charts. ▪ Console: Review the Console of Refreshing Jobs. See Review Refresh Jobs. ▪ Actions: Review and manage Data Discovery action templates. See Integrate Visual Data Into Your Applications. ▪ System Users: Manage users as needed in Symphony Visual Data Discovery. Adjust Info, Tenant(s), or Regional Settings. ▪ Multi-Tenancy: View tenants in Data Discovery; select a tenant to disable if needed. ▪ Customize UI: Customize the user interface of the Visual Data Discovery Module. See Customize the Composer Visual Data Discovery User Interface. ▪ Security: Enable or disable a security authentication service in Data Discovery. See Enable or Disable a Security Service. ▪ Connectors: Manage the connectors in Data Discovery. See Connect ComposerVisual Data Discovery to Data Stores. ▪ Advanced: Review Symphony server-level variables. We suggest you change these only at the request of Technical Support. See Server-Level Variables.



Menu Option	Select this option to...
	▪ License: Specify a new Symphony license key. See Request and Apply a New License Key. ▪ Configuration: Configure Visual Data Discovery services.
My Tenants	Select a different tenant to work in, if multi-tenancy is deployed in your environment and you belong to multiple tenants.
Help Center	▪ Help: Opens documentation for Symphony. ▪ Support: Access Technical Support. ▪ About: View the About dialog that identifies the version of Symphony you are using and provides a link to the terms of service. See About Dialog.
Profile	View the login information you've used to connect. Select Log out to log out to end your session or to log out to and then log in as a different user.

Logi AI Work Area (Beta)

When you access Logi AI as a system admin, the main menu gives you access to:

Menu Option	Select this option to...
Home	Return to the home page .
Chatflows	Open the chatflows work area . Search for chatflows by name and category, select and open your existing chatflows, or add new chatflows.
Marketplaces	Open connected marketplaces for AI chatflows and tools. Find several ready made chatflows for Symphony, and search for tools in your preferred frameworks to build into your environment.
Tools	Open the tools list. Select and edit existing tools, and load or create new tools to use in your chatflows. For more information, see https://docs.flowiseai.com/integrations/langchain/tools .
Assistants	Open the OpenAI assistants list. Select and edit existing assistants, and load or add new assistants to use in your environment.
Credentials	Open the Credentials list. Search for existing stored credentials, edit existing credentials, and add or delete credentials to work with your tools, chatflows, and assistants in your environment.
Variables	Open the variables list. Search for variables, edit, delete, or add new variables. Use variables in the custom tool function using a \$ (dollar sign) prefix. For more information, see https://docs.flowiseai.com/using-flowise/variables .



Menu Option	Select this option to...
API Keys	Open the API keys list. Search for a key by name, or scroll through the list to find the key you need. Copy, edit, or delete keys as needed. Create new keys to use in your environment. For more information, see https://docs.flowiseai.com/configuration/authorization/chatflow-level .
Settings	Select to see the latest version information for your software and linked AI vendors.

Managed Dashboards and Managed Reports Work Areas

When you access Managed Dashboards and Managed Reports, the main menu gives you access to:

Menu Option	Select this option to...
Expand/Collapse	Expand or collapse the main menu.
Home	Return to the home page .
All Content	Open the All Content work area that includes any views that are a part of the current project. ■ Use the Search bar to find dashboards, reports, scorecards, small multiples, slideshows, and more that are part of the current project. ■ Select the project name to switch between projects if you have more than one available to you. ■ Expand the Quick Actions menu to explore your data, create new objects such as dashboards and data cubes, or open the Administration work area, if applicable.
Projects	Expand the Projects menu. Search your projects, create a new project, or switch between existing projects.
Views	Open a Views work area. Select and view in your current project: Dashboard, Report, Scorecard, Small Multiple, or Slideshow. Navigate through the folders of your content to find what you need, or use the Search and Filters features to narrow down returned results. Select Create to open a work area to create new content for that view type.
Data	Open a Data work area. Select and view in your current project: Data Cube or Data Connector. Navigate through the folders of your content to find what you need, or use the Search feature to narrow down returned results. Select Create to open a work area to create new data cubes or data connectors.
Business	Open the Business work area.



Menu Option	Select this option to...
	Select and view in your current project: Metric Set , Time Dimension , or Hierarchy . Navigate through the folders of your content to find what you need, or use the Search and Filters features to narrow down returned results. Select Create to open a work area to create new content for that view type.
Help	Opens help in a new browser window.
Profile	Several options are available, depending on your access level: ▪ Profile: View your profile information in the My Profile work area. ▪ Switch Tenant: Switch between tenants if you are a member of multiple tenants. ▪ Administration: Navigate to the administrative work area for Managed Dashboards and Managed Reports. ▪ Log out: End your session or to log out to log in as a different user.

The Symphony Supervisor Menu

This applies to: *Visual Data Discovery*



Note: The default **supervisor** user is no longer installed; the supplied [admin user](#) and other system administrators can now perform all tasks supervisors could previously perform.



Symphony Data Discovery Microservice Name Reference

This applies to: *Visual Data Discovery*

The following table lists the Symphony microservices. The order in which microservices should be started is described in [Symphony Microservice Startup Order](#).

Microservice Name	Description
zoomdata	The primary microservice for the Symphony server.
zoomdata-admin-server	The Service Monitor microservice.
zoomdata-config-server	The configuration microservice.
zoomdata-consul	The Service Discovery microservice.
zoomdata-data-writer-postgresql	The Data Writer microservice.
zoomdata-edc-apache-solr	The Apache Solr connector microservice.
zoomdata-edc-bigquery	The BigQuery connector microservice.
zoomdata-edc-cloudera-search	The Cloudera Search connector microservice.
zoomdata-edc-dremio	The Dremio connector microservice.
zoomdata-edc-drill	The Apache Drill connector microservice.
zoomdata-edc-elasticsearch-7.0	The Elasticsearch 7.0 connector microservice.
zoomdata-edc-elasticsearch-8-0	The Elasticsearch 8.0 connector microservice.
zoomdata-edc-hdfs	The HDFS connector microservice.
zoomdata-edc-hive	The Hive connector microservice.
zoomdata-edc-impala	The Cloudera Impala connector microservice.
zoomdata-edc-memsql	The MemSQL connector microservice.
zoomdata-edc-mongo	The MongoDB connector microservice.
zoomdata-edc-mssql	The Microsoft SQL Server connector microservice.
zoomdata-edc-mysql	The MySQL connector microservice.
zoomdata-edc-oracle	The Oracle connector microservice.
zoomdata-edc-phoenix-4.7	The Apache Phoenix 4.7 connector microservice.
zoomdata-edc-phoenix-4.7-queryserver	The Apache Phoenix Query Server 4.7 connector microservice.
zoomdata-edc-postgresql	The PostgreSQL connector microservice.
zoomdata-edc-redshift	The Amazon Redshift connector microservice.



Microservice Name	Description
zoomdata-edc-rtss	The Real-Time Sales connector microservice.
zoomdata-edc-s3	The Amazon S3 connector microservice.
zoomdata-edc-saphana	The SAP Hana connector microservice.
zoomdata-edc-saphanacloud	The SAP S/4HANA connector microservice.
zoomdata-edc-sapiq	The SAP IQ connector microservice.
zoomdata-edc-snowflake	The Snowflake connector microservice.
zoomdata-edc-sparksql	The Spark SQL connector microservice.
zoomdata-edc-teradata	The Teradata connector microservice.
zoomdata-edc-tibcodv	The TIBCO DV connector microservice.
zoomdata-edc-trino	The Trino connector microservice.
zoomdata-edc-vertica	The Vertica connector microservice.
zoomdata-postgres	The metadata repository .
zoomdata-query-engine	The query engine microservice.
zoomdata-screenshot-service	The Screenshot microservice.



Symphony Microservice Startup Order

This applies to: *Visual Data Discovery*

The only microservices that must be started first are the Postgres and Service Discovery microservices. The other microservices are more tolerant and can be started in any order.

Symphony recommends starting microservices in the following order. You can start microservices using CentOS or Ubuntu commands or using the CLI. See [Start ComposerSymphony Microservices](#) and [Manage ComposerSymphony Microservices Using The Command Line Utility](#). A full list of Symphony microservices can be found in [Symphony Data Discovery Microservice Name Reference](#).

1. The Postgres microservice (`postgresql-<version>`) used for metadata storage (where `<version>` is the version of Postgres you have installed).
2. The Service Discovery microservice (`zoomdata-consul`) used for microservice discovery.
3. The connector microservices (in the format `zoomdata-edc-<connector_name>`) used to connect to different data stores. The following CentOS example starts all available connector microservices, rather than starting them individually:

```
sudo systemctl start $(systemctl list-unit-files | grep zoomdata-edc | awk '{print $1}')
```

4. The query engine microservice (`zoomdata-query-engine`) used for query engine processing.
5. The `zoomdata-data-writer-postgresql` microservice.
6. The following optional microservices, if they are installed.
 - i. `zoomdata-admin-server`
 - ii. `zoomdata-screenshot-service`
7. The main Symphony microservice (`zoomdata`).



Symphony Metadata Stores

This applies to: *Visual Data Discovery*

Symphony uses the following metadata stores:

Store Name	Description
zoomdata	Stores Symphony metadata. This is the primary metadata store for Symphony.
zoomdata-config	Stores metadata associated with the Symphony configuration microservice . This store name is also configurable.
zoomdata-keyset	Stores keyset data.
zoomdata-upload	Stores flat files that have been uploaded using the flat file connector .



Symphony Log Files Reference

This applies to: *Visual Data Discovery*

Symphony uses the following log files. You can configure Symphony to write these logs to the console in addition to or instead of the service files. See [Configure ComposerSymphony Logs](#).

Log File	Contains
edc-<connector>.log	Specific data connector service log file.
edc-<connector>-errors.log	Specific data connector service log file, filtered to ERROR level log messages.
query-engine.log	Operational information about the query engine microservice.
query-engine-access.log	Standard web server access log for the query engine microservice.
query-engine-activity.log	Audit-related information for the query engine microservice.
Security_service.log	Information related to enabling or disabling a security service in the supervisor UI.
stream-writer.log	Upload service information.
zoomdata.log	A wide variety of errors and information. This is the best place to start with troubleshooting.
zoomdata-access.log	Standard web server access log for the Symphony microservice.
zoomdata-consul-{unixTimestamp}.log	Information on service discovery and registration.
zoomdata-errors.log	Symphony log information with a log level of ERROR.
zoomdata-installer.<date/time>.log	Information related to the installation. Installation errors typically appear here.
zoomdata-upgrade.log	Information related to upgrades. Errors with an upgrade will typically show up here.
zoomdata-websocket.log	Information sent and received over a WebSocket from the browser.

Symphony Log Unification

This applies to: *Visual Data Discovery*

Symphony has unified logback configuration throughout Symphony microservices. You can configure Symphony to write these logs to the console in addition to or instead of the service files. See [Configure ComposerSymphony Logs](#) and [Symphony Log Files Reference](#).

Log Configuration Properties

Adjust these properties to set up logging for your environment.

Name	Default Value	Description
install.dir	.	Use to evaluate the value of <code>logs.dir</code> .
logs.dir	<code>\${install.dir}/logs</code>	The location of the log file and error log file.
spring.application.name	zoomdata-service	Use to evaluate the default values of <code>logs.file-name</code> .
logs.file-name	<code>\${spring.application.name}</code>	Name of log file. Log file suffix: <code>.log</code> . Error log file suffix: <code>error.log</code> .
log.console.level	ALL	The maximum level of logs to print to <code>stdout</code> . See Log File Values .
log.file.level	ALL	The maximum level of logs to print to the log file. See Log File Values .
log.password.regex	<code>(?i) PASSWORD=[a-zA-Z0-9!@#\\\$%\\^*\\& ;]*</code>	Regular expression used to detect passwords in log output. Replaces with <code>PASSWORD=****</code> .
log.url-password.regex	<code>(?&lt;=://) [^:]+:[^@]+@</code>	Regular expression used to detect and remove credential in URLs and remove the credentials.
log.sanitization.enabled	true	The default, <code>true</code> , is specified in <code>logging.properties</code> . Toggles sanitization of log message via <code>org.apache.commons.text.StringEscapeUtils.escapeJava</code> .
log.file.size	20	The maximum size of the log file in MB. When that size is reached, the file is renamed using this pattern: <code>{log.file-name}.log.%i</code> .
log.file.count	5	Maximum number of log files.
log.error.file.size	5	The maximum size of the error log file in MB. When that size is reached, the file is renamed using this pattern: <code>{log.file-name}-error.log.%i</code> .
log.error.file.count	5	Maximum number of error log files.
syslog.log.level	OFF	Syslog log level. See Log File Values .
syslog.host	127.0.0.1	Syslog host name.

Name	Default Value	Description
syslog.port	514	Syslog port number.
syslog.suffix	\${spring.application.name}	Syslog suffix. Used to distinguish applications.
trace.requests	false	Adds the MDC value of <code>requestId</code> to log output. Propagate value using <code>X-REQUEST-ID</code> http header.

Log File Values

Value	Description
OFF	Disables logging.
FATAL	Only error messages (the same as <code>ERROR</code> for logback).
ERROR	Application error messages that may affect processes.
WARN	Unexpected application issues that may not affect processes.
INFO	Expected activities.
DEBUG	Triggers capture of <code>WARN</code> , <code>INFO</code> , and <code>ERROR</code> information.
TRACE	Capture of <code>DEBUG</code> level of information, and low importance informational messages.
ALL	All available log information (the same as <code>TRACE</code> for logback).

Other Configuration Properties

Both Zoomdata-Web and Query Engine have properties you can adjust to suit your needs as well.

Zoomdata-Web

Name	Default Value	Description
activity.log.file.count	1	Maximum number of activity log files .
activity.log.file.size	10	The maximum size of the activity log file in MB. When that size is reached, the file is renamed using this pattern: <code>{log.file-name}-activity.log.%i</code> .
activity.logs.dir	n/a	The location of the activity log file. If no location is specified, <code>{logs.dir}</code> is used.
websocket.log.file.size	10	The maximum size of the websocket log file in MB. When that size is reached, the file is renamed using this pattern: <code>{log.file-name}-websocket.log.%i</code> .

Name	Default Value	Description
websocket.log.file.count	5	Maximum number of websocket log files.
websocket.log.level	OFF	Overall maximum log level of websocket logs.
websocket.file.level	OFF	Maximum log level of websocket logs in the file.
websocket.console.level	OFF	Maximum log level of websocket logs in the console.
access.log.file.size	10	The maximum size of the access log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-access.log.%i.
license.log.file.size	10	The maximum size of the license log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-sessions.log.%i.

Query Engine

Name	Default Value	Description
websocket.log.level	OFF	Overall maximum log level of websocket logs.
websocket.file.level	OFF	Maximum log level of websocket logs in the file.
websocket.console.level	OFF	Maximum log level of websocket logs in the console.
websocket.log.file.size	10	The maximum size of the websocket log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-websocket.log.%i.
websocket.log.file.count	1	Maximum number of websocket log files.
access.log.file.size	10	The maximum size of the access log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-access.log.%i.
slow-request.file.level	INFO	Maximum log level of slow request logs in the file.
slow-request.console.level	OFF	Maximum log level of slow request logs in the console.
slow-request.log.file.size	10	The maximum size of the slow requests log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-slow-requests.log.%i.
slow-request.log.file.count	5	Maximum number of slow requests log files.
slow-expression-parsing.file.level	INFO	Maximum log level of slow expression parsing logs in the file.
slow-expression-parsing.console.level	OFF	Maximum log level of slow expression parsing logs in the console.
slow-expression-parsing.log.file.size	10	The maximum size of the slow expression parsing log file in MB. When that size is reached, the file is renamed using this pattern: {log.file-name}-slow-expression-parsing.log.%i

Name	Default Value	Description
slow-expression-parsing.log.file.count	5	Maximum number of slow expression parsing log files.

Set Logging Levels

Every logging level can be changed using a [standard spring boot approach](#). Specify the corresponding property, as shown below.

Note: The logback.zoomdata property, previously used to control the log level of some loggers, has been removed. Use a standard spring boot approach to specify appropriate properties.

```
# Enable debug logs for 'com.zoomdata' logger and it's children
logging.level.com.zoomdata=DEBUG
# Set log level to error for root logger (parent of all loggers) and it's children
logging.level.root=ERROR
```

Default Log File Names

Symphony's microservices each have a series of default log files where you can find captured events.

Name	Microservice	Description
zoomdata.log	Zoomdata-web	Common logs.
zoomdata-errors.log	Zoomdata-web	Only server error logs.
zoomdata-access.log	Zoomdata-web	Access logs.
zoomdata-activity.log	Zoomdata-web	Activity audit logs.
zoomdata-websocket.log	Zoomdata-web	Websocket logs.
zoomdata-sessions.log	Zoomdata-web	Licensing related logs.
query-engine.log	Query Engine	Common logs.
query-engine-errors.log	Query Engine	Only server error logs.
query-engine-access.log	Query Engine	Access logs.
query-engine-websocket.log	Query Engine	Websocket logs.
query-engine-slow-expression-parsing.log	Query Engine	
query-engine-slow-requests.log	Query Engine	
admin-server.log	Admin Service	Common logs.



Name	Microservice	Description
admin-server-errors.log	Admin Service	Only server error logs.
config-server.log	Config Server	Common logs.
config-server-errors.log	Config Server	Only server error logs.
stream-writer-postgresql.log	Data-Writer	Postgresql: Common logs.
stream-writer-postgresql-errors.log	Data-Writer	Postgresql: Only server error logs.
stream-writer-mssql.log	Data-Writer	MSSQL: Common logs.
stream-writer-mssql-errors.log	Data-Writer	MSSQL: Only server error logs.
screenshot-service.log	Screenshot Service	Common logs.
screenshot-service-errors.log	Screenshot Service	Only server error logs.
\${connector.name}.log	EDC	Common logs.
\${connector.name}-errors.log	EDC	Only server error logs.



Log File Migration Reference

This applies to: *Visual Data Discovery*

With the introduction of unified log properties and unified logback configurations, a number of log files have new names. When you upgrade your Symphony environment from an earlier version, you may need to rename properties overwritten by external configurations.

Zoomdata-web

Current Name	Deprecated Name
log.file.size	zoomdata.log.file.size
log.file.count	zoomdata.log.rolling.maxIndex
log.error.file.size	zoomdata.error.log.file.size
access.log.file.size	zoomdata.access.log.file.size
license.log.file.size	zoomdata.license.log.file.size
activity.log.file.count	zoomdata.activity.log.file.max.index
activity.log.file.size	zoomdata.activity.log.file.size
activity.logs.dir	zoomdata.activity.logs.dir
websocket.log.file.size	zoomdata.websocket.log.file.size
websocket.log.file.count	zoomdata.websocket.log.rolling.maxIndex

Query Engine

Current Name	Deprecated Name
log.file.size	qe.log.file.size
log.file.count	qe.log.rolling.maxIndex
log.error.file.size	qe.error.log.file.size
websocket.log.file.count	qe.websocket.log.rolling.maxIndex
websocket.log.level	qe.websocket.log.level
websocket.log.file.size	qe.websocket.log.file.size
access.log.file.size	qe.access.log.file.size



EDC

Current Name	Deprecated Name
logs.file-name	log.file.base.name

Admin Service, Config Server, Data Writer, and Screenshot Service

Current Name	Deprecated Name
log.file.count	log.rolling.maxIndex
log.error.file.size	error.log.file.size
log.error.file.count	error.log.rolling.maxIndex

Default Port Reference

This applies to: *Visual Data Discovery*

The following table lists the default ports used by Symphony, sorted by port number.

Port	Microservice	Description
443	zoomdata	Symphony server web communication. For HTTPS requests, configure your firewall to map port 443 to either port 8443 or port 8080.
5432	zoomdata-postgres	Symphony metadata repository .
5580	zoomdata-query-engine	Symphony query engine microservice.
8050	zoomdata-admin-server	Service Monitor .
8080	zoomdata	Symphony server.
8081	zoomdata-data-writer	Symphony Data Writer microservice.
8083	zoomdata-screenshot-service	Symphony Screenshot microservice.
8093	zoomdata-edc-bigquery	BigQuery connector.
8095	zoomdata-edc-drill	Apache Drill connector.
8098	zoomdata-edc-impala	Cloudera Impala connector.
8099	zoomdata-edc-memsql	MemSQL connector.
8100	zoomdata-edc-mssql	Microsoft SQL Server connector.
8101	zoomdata-edc-mysql	MySQL connector.
8102	zoomdata-edc-oracle	Oracle connector.
8105	zoomdata-edc-postgresql	PostgreSQL connector, Flat File and API uploads for processing.
8108	zoomdata-edc-rtts	Real Time Sales connector.
8109	zoomdata-edc-saphana	SAP Hana connector.
8111	zoomdata-edc-teradata	Teradata connector.
8112	zoomdata-edc-vertica	Vertica connector.
8115	zoomdata-edc-apache-solr	Apache Solr connector.
8116	zoomdata-edc-sparksql	Spark SQL connector.
8121	zoomdata-edc-sapiq	SAP IQ connector.
8123	zoomdata-edc-mongo	MongoDB connector.
8124	zoomdata-edc-phoenix-4.7	Apache Phoenix connector.



Port	Microservice	Description
8125	zoomdata-edc-phoenix-4.7-queryserver	Apache Phoenix Query Server (QS) connector.
8126	zoomdata-edc-hdfs	HDFS connector.
8129	zoomdata-edc-s3	Amazon S3 connector.
8131	zoomdata-edc-snowflake	Snowflake connector.
8132	zoomdata-edc-hive	Hive connector.
8138	zoomdata-edc-couchbase	Couchbase connector.
8139	zoomdata-edc-elasticsearch-7.0	Elasticsearch 7.0 connector.
8140	zoomdata-edc-tibcodv	TIBCO DV connector.
8142	zoomdata-edc-dremio	Dremio connector.
8147	zoomdata-edc-elasticsearch-8-0	Elasticsearch 8.0 connector.
8148	zoomdata-edc-trino	Trino connector.
8201	zoomdata-edc-cloudera-search	Cloudera Search connector.
8202	zoomdata-edc-redshift	Amazon Redshift connector.
8205	zoomdata-edc-saphanacloud	SAP S/4HANA connector.
8300	zoomdata-consul	Internal port used by the Consul for inter-node communication in a distributed environment.
8301	zoomdata-consul	Internal port used by the Consul for inter-node communication in a distributed environment.
8302	zoomdata-consul	Internal port used by the Consul for inter-node communication in a distributed environment.
8443	zoomdata	Symphony HTTPS requests.
8500	zoomdata-consul	Consul.
8888	zoomdata-config-server	Symphony configuration microservice.

Application Configuration Object

This applies to: *Visual Data Discovery*

The application configuration object contains the parameters that your client needs to identify a Symphony server.

Example

```
var applicationConfig = {  
  secure: true,  
  host: 'www.yourcompanysite.com',  
  port: 8443,  
  path: '/zoomdata'  
};
```

The values for each key should be as follows:

- **secure:** true to use HTTPS (secure) protocol, otherwise `false`
- **host:** the base URL where your Symphony server is hosted
- **port:** the port that your Symphony uses to communicate; by default, this is `8443`
- **path:** the path from your base URL for your Symphonys server; by default, this is `'/zoomdata'`

Query Configuration Object

This applies to: *Visual Data Discovery*

The query configuration is contained in a JSON object including specific key:value pairs. You do not need to include unused keys. The exceptions are:

- the `time` key, which must specify a `timeField` value if a `player` is to be used by the query
- you must use one and only one of the following keys: `fields`, `groups`, and `dimensions`. Using none or more than one of these keys results in an error.

Additionally, if you use the query configuration object to create a query that is then used to supply data to an embedded visual, it must have the following keys:

- `filters`, though it can be defined as `[]` if you do not want to apply any filter
- `metrics`, without which the visual will not have data to present

Example

```
var yourConfigObject = {
  // time zone
  tz: 'UTC',

  // field used for time
  // start and finish times/dates
  // format: {+/-}YYYY-MM-DD HH:mm:ss.SSS
  // + means inclusive, - means exclusive
  time: {
    timeField: '_ts',
    from: '+2016-10-23 22:30:15.500',
    to: '-2016-11-23 22:30:15.500'
  },

  // rate of querying, in seconds
  // timeWindowScale: 'ROLLING' means that start time advances with end time
  // timeWindowScale: 'PINNED' means that start time does not advance with end time
  player: {
    speed: 1,
    pauseAfterRead: false,
    timeWindowScale: 'ROLLING'
  },
}
```

```

filters: [
  { path: 'usersentiment', operation: 'BETWEEN', value: [-0.5, 0.5] },
  { path: 'color', operation: 'IN', value: ['red', 'green', 'blue'] },
  { path: 'age', operation: 'LT', value: 21 },
  { path: 'color', operation: 'NOTIN', value: ['red', 'green', 'blue'] }
],

// count does not take a metric function. Other metrics require one.
// func can be 'sum', 'avg', 'min', 'max', 'count', 'countd'
metrics: [
  { name: 'price', func: 'avg' },
  { name: 'count' }
],

// metricFunc is used to sort by metric values. It is required if you sort by a metric other than count. It accepts the
same options as metric's func key.
groups: [
  { name: 'usercity', limit: 200, sort: { dir: 'asc', name: 'usercity' } },
  { name: 'department', limit: 10, sort: { dir: 'asc', name: 'count' } },
  { name: 'color', limit: 5, sort: { dir: 'asc', name: 'usersentiment', metricFunc: 'avg' } }
],

// Your query must have groups or fields, but may not have both groups and fields.
fields: [
  { name: 'price', limit: 50 },
  { name: 'usercity', limit: 50 }
],

};

```

Each possible parameter is described below.

tz: ''

Sets the timezone used by the web app. Use ISO standard abbreviations. The value defaults to the Symphony server time.

time: {}

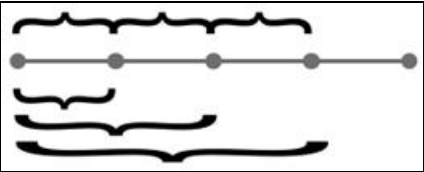
A time object, which specifies the time range to be included in the query. Essentially, this parameter filters the query based on time using the time field, from, and to elements.

Key	Usage	Notes	Examples
timeField	String. Sets the field to be used as the time measurement.	This field refers to the data source columns containing the time measurement, rather than any label that appears in the user interface.	
from	String. Sets the earliest time from which data should be included in the query.	Use the format [-/+]YYYY-MM-DD HH:mm:ss.SSS (preceded by a + or - to include or exclude the specified time).	+2024-10-23 10:30:15.500 to start at 23 October 2024 10:30:15.5, inclusive
to	String. Sets the latest time to which data should be included in the query.	Use the format [-/+]YYYY-MM-DD HH:mm:ss.SSS (preceded by a + or - to include or exclude the specified time).	-2025-01-10 10:30:15.500 to start at 10 January 2025 10:30:15.5, exclusive.

player: {}

A player object, which specifies parameters for retrieving data from a source. It consists of the speed, pauseAfterRead, and timeWindowScale elements. If you include a player object in the query, you must also include a time object that includes at least the timeField element.

Key	Usage	Notes	Examples
speed	Integer. Sets the interval at which data should be retrieved, in seconds.	Accepted values are: 1 (every second), 60 (every minute), 3600 (every hour), and 86400 (daily).	60
pauseAfterRead	Boolean. Sets whether the data stream, if applicable, should be paused after initial retrieval.	data set empty message may result when pauseAfterRead is set to false with a non-live data source.	true
timeWindowScale	String. 'ROLLING' or 'PINNED'. Sets whether the time interval of retrieved data “rolls” or stays “pinned” to its original starting point (the from element of the time object).	The retrieval of a rolling time window starts at the point where the last retrieval finished. The retrieval of a pinned time window always starts at the same point, which is provided by the from element. The image below shows rolling time windows above the timeline, and	'ROLLING' 'PINNED'

Key	Usage	Notes	Examples
		 pinned windows beneath it.	

filters: [{}, {}]

Array of filter objects. Filter objects are applied to the data query using logical-and operations so that data is passed from the data query only if it satisfies all applied filters. Each filter consists of a path, an operation, and a value.

Key	Usage	Notes	Examples																
path	String. The name of the group or metric on which the filter operates.	This name is that of the data source column containing the group or metric of the filter, rather than the label that appears in the user interface.	customer_gender customer_age user_occupation																
operation	String. The logical operator used by the filter.	Valid options include the following: <table><thead><tr><th>logical operation</th><th>key value</th></tr></thead><tbody><tr><td><</td><td>'LT'</td></tr><tr><td><=</td><td>'LE'</td></tr><tr><td>==</td><td>'EQUALS' (case sensitive)</td></tr><tr><td>==</td><td>'EQUALSI' (case insensitive)</td></tr><tr><td>>=</td><td>'GE'</td></tr><tr><td>></td><td>'GT'</td></tr><tr><td>in a set</td><td>'IN'</td></tr></tbody></table>	logical operation	key value	<	'LT'	<=	'LE'	==	'EQUALS' (case sensitive)	==	'EQUALSI' (case insensitive)	>=	'GE'	>	'GT'	in a set	'IN'	'EQUALSI' 'BETWEEN' 'NOTIN'
logical operation	key value																		
<	'LT'																		
<=	'LE'																		
==	'EQUALS' (case sensitive)																		
==	'EQUALSI' (case insensitive)																		
>=	'GE'																		
>	'GT'																		
in a set	'IN'																		

Key	Usage	Notes		Examples
		not in a set	'NOTIN'	
		between two values	'BETWEEN'	
		!=	'NOTEQUALS'	
		text search	'TEXT_SEARCH'	
		filter-level AND	'AND'	
		filter-level OR	'OR'	
value	Single value or array of values. The value(s) considered by the logical operation.	If two or more values are needed, such as for a logical set or for a 'BETWEEN' operation, they should be provided in an array. Single values, such as required for an 'EQUALS' or 'LT' operation, should be provided as simple values.		'female' [21,65] ['teacher','lawyer','plumber']

groups: [{}, {}]

Array of group objects. Group objects specify which data is returned by a query and how it is grouped. Each group object has a name, limit, and a sort object.



Note: If `groups` is defined, `fields` and `dimensions` must be omitted.

Key	Usage	Notes	Examples
name	String. The name of the attribute to be used for grouping data.	This name is the name of the data source column containing the attribute, rather than the label that appears in the user interface.	'home_state'
limit	The maximum number of distinct items to be included in the data set.	If the limit is set lower than the total number of items in a group, not all members of the group will be included in the returned data set. For example, if the limit is set to 25, then the group <code>us_state</code> could not return data from all fifty US states.	50
sort	A sort object. See below.		{dir: 'desc', name: 'home_state'}

sort: {}

A sort object. Sort objects describe the way in which a group is ordered. Each sort object consists of the name of the group or metric for the sorting and the direction in which the group's data is sorted.

Key	Usage	Notes	Examples
name	String. The name of the group or metric on which the filter operates.	This name is that of the data source column containing the group or metric by which groups are to be sorted, rather than the label that appears in the user interface.	'home_state'
dir	String. The direction of the sorting.	Valid options are 'asc' and 'desc' for ascending and descending sorts, respectively.	'asc'
metricFunc	String. Required to sort by a metric value. Not permitted if you sort by count or by a group.	Valid options include the following: 'min', 'max', 'avg', 'sum', 'calc', 'distinct_count', 'last_value', 'percentiles'	'sum'

Array of group objects. Group objects specify which data is returned by a query and how it is grouped. Each group object has a name, limit, and a sort object.

fields: [{} , {}]

Array of field objects. A field object is used to take a whole column of data without grouping it by the items found in the column. Each field object consists of the name of a column.

Note: If `fields` is defined, `groups` and `dimensions` must be omitted.

Key	Usage	Notes	Examples
name	String.	This name is that of the data source column containing the field.	'home_state'
limit	Integer.	The maximum number of records to report.	50

metrics: [{} , {}]

Array of metric objects. Each metric object indicates a column to be returned and used by the data query as a metric. Each metric object can have a name and function.



Key	Usage	Notes	Examples
name	String. The name of the metric.	This name is that of the data source column containing the metric, rather than the label that appears in the user interface.	'user_age'
function	String. Determines the function applied to the metric.	Valid options include the following: 'min', 'max', 'avg', 'sum', 'calc', 'distinct_count', 'last_value', 'percentiles'	'avg'

Data Discovery Security Configuration Object

This applies to: *Visual Data Discovery*

The security configuration object contains the required access token you generate for your client to access Symphony.



Note: insightsoftware recommends using [Trusted Access](#) for all embed-related workflows.

Example

```
var credentialsConfig = {  
  access_token: TRUSTED_ACCESS_TOKEN,  
};
```

The security configuration object should contain the required trusted access token you generate.

- **access_token:** Trusted access token for accessing the Symphony server. See [Generate A User's Access Token](#). The client created should have credentials matching those used to create the trusted access token.

Supplied Color Palettes

This applies to: *Visual Data Discovery*

Symphony comes with a number of color palettes. You can add a color palette to your environment using themes. See [Manage UI Themes](#).

The following table lists the supplied color palettes that are available for use in visuals. If a palette name has `-accessible` appended to its name, it is colorblind friendly.

Palette Name	Hex Color Values
Accent	['#7fc97f', '#beaed4', '#fdc086', '#ffff99', '#386cb0', '#f0027f', '#bf5b17', '#666666']
Blues-accessible	['#f7fbff', '#deebf7', '#c6dbef', '#9ecae1', '#6baed6', '#4292c6', '#2171b5', '#08519c', '#08306b']
BrBG-accessible	['#543005', '#8c510a', '#bf812d', '#dfc27d', '#f6e8c3', '#f5f5f5', '#c7eae5', '#80cdc1', '#35978f', '#01665e', '#003c30']
BuGn-accessible	['#f7fcfd', '#e5f5f9', '#ccece6', '#99d8c9', '#66c2a4', '#41ae76', '#238b45', '#006d2c', '#00441b']
BuPu-accessible	['#f7fcfd', '#e0ecf4', '#bfd3e6', '#9ebcda', '#8c96c6', '#8c6bb1', '#88419d', '#810f7c', '#4d004b']
Dark2-accessible	['#1b9e77', '#d95f02', '#7570b3', '#e7298a', '#66a61e', '#e6ab02', '#a6761d', '#666666']
GnBu-accessible	['#f7fcf0', '#e0f3db', '#ccebc5', '#a8ddb5', '#7bcc4', '#4eb3d3', '#2b8cbe', '#0868ac', '#084081']
Greens-accessible	['#f7fcf5', '#e5f5e0', '#c7e9c0', '#a1d99b', '#74c476', '#41ab5d', '#238b45', '#006d2c', '#00441b']
Greys-accessible	['#ffffff', '#f0f0f0', '#d9d9d9', '#bdbdbd', '#969696', '#737373', '#525252', '#252525', '#000000']
Oranges-accessible	['#fff5eb', '#fee6ce', '#fdd0a2', '#fdae6b', '#fd8d3c', '#f16913', '#d94801', '#a63603', '#7f2704']
OrRd-accessible	['#fff7ec', '#fee8c8', '#fdd49e', '#fdbb84', '#fc8d59', '#ef6548', '#d7301f', '#b30000', '#7f0000']
Paired-accessible	['#a6cee3', '#1f78b4', '#b2df8a', '#33a02c', '#fb9a99', '#e31a1c', '#fdbf6f', '#ff7f00', '#cab2d6', '#6a3d9a', '#ffff99', '#b15928']
Pastel1	['#fbb4ae', '#b3cde3', '#ccebc5', '#decbe4', '#fed9a6', '#ffffcc', '#e5d8bd', '#fddaec', '#f2f2f2']
Pastel2	['#b3e2cd', '#fddac', '#cbd5e8', '#f4cae4', '#e6f5c9', '#fff2ae', '#f1e2cc', '#cccccc']
PiYG-accessible	['#8e0152', '#c51b7d', '#de77ae', '#f1b6da', '#fde0ef', '#f7f7f7', '#e6f5d0', '#b8e186', '#7fbc41', '#4d9221', '#276419']
PRGn-accessible	['#40004b', '#762a83', '#9970ab', '#c2a5cf', '#e7d4e8', '#f7f7f7', '#d9f0d3', '#a6dba0', '#5aae61', '#1b7837', '#00441b']
PuBu-accessible	['#fff7fb', '#ece7f2', '#d0d1e6', '#a6bddb', '#74a9cf', '#3690c0', '#0570b0', '#045a8d', '#023858']
PuBuGn-accessible	['#fff7fb', '#ece2f0', '#d0d1e6', '#a6bddb', '#67a9cf', '#3690c0', '#02818a', '#016c59', '#014636']
PuOr-accessible	['#7f3b08', '#b35806', '#e08214', '#fdb863', '#fee0b6', '#f7f7f7', '#d8daeb', '#b2abd2', '#8073ac', '#542788', '#2d004b']
PuRd-accessible	['#f7f4f9', '#e7e1ef', '#d4b9da', '#c994c7', '#df65b0', '#e7298a', '#ce1256', '#980043', '#67001f']
Purples-accessible	['#fcfbfd', '#efedf5', '#dadaeb', '#bcbddc', '#9e9ac8', '#807dba', '#6a51a3', '#54278f', '#3f007d']
RdBu-accessible	['#67001f', '#b2182b', '#d6604d', '#f4a582', '#fddbc7', '#f7f7f7', '#d1e5f0', '#92c5de', '#4393c3', '#2166ac', '#053061']

Palette Name	Hex Color Values
RdGy	['#67001f', '#b2182b', '#d6604d', '#f4a582', '#fddbc7', '#ffffff', '#e0e0e0', '#bababa', '#878787', '#4d4d4d', '#1a1a1a']
RdOrYl-accessible	['#eea8b6', '#de536f', '#bd2525', '#772b28', '#e44838', '#ee5502', '#ffb1f', '#ffdc85']
RdPu-accessible	['#fff7f3', '#fde0dd', '#fcc5c0', '#fa9fb5', '#f768a1', '#dd3497', '#ae017e', '#7a0177', '#49006a']
RdYlBu-accessible	['#a50026', '#d73027', '#f46d43', '#fdae61', '#fee090', '#ffffbf', '#e0f3f8', '#abd9e9', '#74add1', '#4575b4', '#313695']
RdYlGn	['#a50026', '#d73027', '#f46d43', '#fdae61', '#fee08b', '#ffffbf', '#d9ef8b', '#a6d96a', '#66bd63', '#1a9850', '#006837']
Reds-accessible	['#fff5f0', '#fee0d2', '#fcbba1', '#fc9272', '#fb6a4a', '#ef3b2c', '#cb181d', '#a50f15', '#67000d']
Set2-accessible	['#66c2a5', '#fc8d62', '#8da0cb', '#e78ac3', '#a6d854', '#ffd92f', '#e5c494', '#b3b3b3']
Set1	['#e41a1c', '#377eb8', '#4daf4a', '#984ea3', '#ff7f00', '#ffff33', '#a65628', '#f781bf', '#999999']
Set3	['#8dd3c7', '#ffffb3', '#bebada', '#fb8072', '#80b1d3', '#fdb462', '#b3de69', '#fccde5', '#d9d9d9', '#bc80bd', '#ccebc5', '#ffed6f']
Spectral	['#9e0142', '#d53e4f', '#f46d43', '#fdae61', '#fee08b', '#ffffbf', '#e6f598', '#abdda4', '#66c2a5', '#3288bd', '#5e4fa2']
YlGn-accessible	['#ffffe5', '#f7fc9', '#d9f0a3', '#addd8e', '#78c679', '#41ab5d', '#238443', '#006837', '#004529']
YlGnBu-accessible	['#ffffd9', '#edf8b1', '#c7e9b4', '#7fcdbb', '#41b6c4', '#1d91c0', '#225ea8', '#253494', '#081d58']
YlOrBr-accessible	['#ffffe5', '#fff7bc', '#fee391', '#fec44f', '#fe9929', '#ec7014', '#cc4c02', '#993404', '#662506']
YlOrRd-accessible	['#ffffcc', '#ffeda0', '#fed976', '#feb24c', '#fd8d3c', '#fc4e2a', '#e31a1c', '#bd0026', '#800026']
DefaultQualitative	['#0095b7', '#a0b774', '#f4c658', '#fe8b3e', '#cf2f23', '#756c56', '#007896', '#47a694']
DefaultSequential-accessible	['#ffdc9c', '#ffc65f', '#efc15e', '#9eb778', '#7eb184', '#43a79b', '#008db6', '#097bb1']

Operators

This applies to: *Visual Data Discovery*

Valid operators used in Symphony are described below.

Operator	Applies to	Determines whether the data in the field you select...
Begins With	strings	Begins with the string you have specified.
Between	numbers	Falls numerically between the two numbers you specified.
Contains	strings	Contains the string you have specified.
Does Not Begin With	strings	Does not begin with the string you have specified.
Does Not Contain	strings	Does not contain the string you have specified.
Does Not End With	strings	Does not end with the string you have specified.
Ends With	strings	Ends with the string you have specified.
Equal	numbers	Is equal to the number you specified.
Exclude	numbers & strings	Includes the number or string you specify. If it does, the data is excluded from the output.
Greater Than	numbers	Is greater than the number you specified.
Greater Than or Equal	numbers	Is greater than or equal to the number you specified.
Include	numbers & strings	Includes the number or string you specify. If it does, the data is included in the output.
Less Than	numbers	Is less than the number you specified.
Less Than or Equal	numbers	Is less than or equal to the number you specified.
Not Between	numbers	Does not fall numerically between the two numbers you specified.
Not Equal	numbers	Is not equal to the number you specified.

State Name Reference

This applies to: *Visual Data Discovery*

State names must be spelled out with the first letter capitalized. For example, **California** is an accepted format, not **CA**. The following state name formats are accepted for US Region maps.

State Name
Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut
Delaware
District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota

State Name
Mississippi
Missouri
Montana
Nebraska
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Carolina
North Dakota
Ohio
Oklahoma
Oregon
Pennsylvania
Puerto Rico
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Vermont
Virginia
Washington
West Virginia
Wisconsin
Wyoming

Country Name Reference

This applies to: *Visual Data Discovery*

Country names must be spelled out with the first letter capitalized. The following country name formats are accepted for world maps.

Country Name	Country Name	Country Name	Country Name
Afghanistan	Egypt	Liberia	Saudi Arabia
Albania	El Salvador	Libya	Senegal
Algeria	Equatorial Guinea	Lithuania	Serbia
Angola	Eritrea	Luxembourg	Sierra Leone
Argentina	Estonia	Macedonia	Slovakia
Armenia	Ethiopia	Madagascar	Slovenia
Australia	Falkland Islands	Malawi	Solomon Islands
Austria	Fiji	Malaysia	Somalia
Azerbaijan	Finland	Mali	Somaliland
Bahamas	France	Mauritania	South Africa
Bangladesh	French Southern and Antarctic Lands	Mexico	South Sudan
Belarus	Gabon	Moldova	Spain
Belgium	Georgia	Mongolia	Sri Lanka
Belize	Germany	Montenegro	Sudan
Benin	Ghana	Morocco	Suriname
Bhutan	Greece	Mozambique	Swaziland
Bolivia	Greenland	Myanmar	Sweden
Bosnia and Herzegovina	Guatemala	Namibia	Switzerland
Botswana	Guinea	Nepal	Syria
Brazil	Guinea-Bissau	Netherlands	Taiwan
Brunei Darussalam	Guyana	New Caledonia	Tajikistan
Bulgaria	Haiti	New Zealand	Tanzania
Burkina Faso	Honduras	Nicaragua	Thailand
Burundi	Hungary	Niger	The Gambia
Cambodia	Iceland	Nigeria	Timor-Leste

Country Name	Country Name	Country Name	Country Name
Cameroon	India	Northern Cyprus	Togo
Canada	Indonesia	Norway	Trinidad and Tobago
Central African Republic	Iran	Oman	Tunisia
Chad	Iraq	Pakistan	Turkey
Chile	Ireland	Palestine	Turkmenistan
China	Israel	Panama	Uganda
Colombia	Italy	Papua New Guinea	Ukraine
Costa Rica	Jamaica	Paraguay	United Arab Emirates
Côte d'Ivoire	Japan	Peru	United Kingdom
Croatia	Jordan	Philippines	United States
Cuba	Kazakhstan	Poland	Uruguay
Cyprus	Kenya	Portugal	Uzbekistan
Czech Republic	Kosovo	Puerto Rico	Vanuatu
Dem. Rep. Korea	Kuwait	Qatar	Venezuela
Democratic Republic of the Congo	Kyrgyzstan	Republic of Congo	Vietnam
Denmark	Lao PDR	Republic of Korea	Western Sahara
Djibouti	Latvia	Romania	Yemen
Dominican Republic	Lebanon	Russian Federation	Zambia
Ecuador	Lesotho	Rwanda	Zimbabwe

Preset Time Ranges

This applies to: *Visual Data Discovery*

The following table describes all the preset time ranges available in Symphony.



Note: If you are using a field that has time zone information disabled (select **Not Specified**), only the time-related information is shown in the user interface and exported with your data. Time zone labels are not included.

Preset type	Data Cached?	Start date	End date
Current Hour	No	Beginning of the current hour	Current time
Current Minute	No	Beginning of the current minute	Current time
Current Month	No	First day of the current month (for example 08/01/2024 12:00:00 AM)	Last day of the current month (for example 08/31/2024 11:59:59 PM)
Current Month-to-Date	No	First day of the current month (for example 08/01/2024 12:00:00 AM)	Current date and time
Current Quarter	No	First day of the current quarter (for example, 07/01/2024 12:00:00 AM)	Last day of the current quarter (for example 09/30/2024 11:59:59 PM)
Current Quarter-to-Date	No	First day of the current quarter (for example 07/01/2024 12:00:00 AM)	Current date and time
Current Week	No	Sunday of the week with current day (for example Sunday, 08/11/2024 12:00:00 AM)	Saturday of the week with current day (for example 08/17/2024 11:59:59 PM)
Current Week-to-Date	No	Sunday of the week with current day (for example Sunday, 08/11/2024 12:00:00 AM)	Current date and time
Current Year	No	First day of the current year (for example 01/01/2024 12:00:00 AM)	Last day of the current year (for example 12/31/2024 11:59:59 PM)
Current Year-to-Date	No	First day of the current year (for example 01/01/2024 12:00:00 AM)	Current date and time
Max Available Range	No	Minimum time value in the data set known to Symphony	Maximum time value in the data set known to Symphony
Previous Hour	No	Beginning of the previous hour (for example Aug 20 2024 12:00:00 PM)	End of the previous hour (for example Aug 20 2024 12:59:59 PM)
Previous Minute	No	Beginning of the previous minute	End of the previous minute
Previous Month	Yes	First day of the previous month (for example	Last day of the previous month (for example

Preset type	Data Cached?	Start date	End date
		07/01/2024 12:00:00 AM)	07/31/2024 11:59:59 PM)
Previous Month-to-Date	No	First day of the previous month (for example 07/01/2024 12:00:00 AM)	The current date. For example, if today is 08/05/2024 12:00:00 AM, the information returned is from 07/01/2024 12:00:00 AM through 08/05/2024 12:00:00 AM.
Previous Quarter	Yes	First day of the previous quarter (for example 04/01/2024 12:00:00 AM)	Last day of the previous quarter (for example, 06/30/2024 11:59:59 PM)
Previous Quarter-to-Date	No	First day of the previous quarter (for example 04/01/2024 12:00:00 AM)	The current date. For example, if today is 08/05/2024 12:00:00 AM, the information returned is from 04/01/2024 12:00:00 AM through 08/05/2024 12:00:00 AM.
Previous Week	Yes	Sunday of the previous week (for example, 08/04/2024 12:00:00 AM)	Saturday of the previous week (for example 08/10/2024 11:59:59 PM)
Previous Week-to-Date	No	Sunday or Monday of the previous week, depending on locale (for example 07/27/2024 12:00:00 AM)	The current date. For example, if today is 08/02/2024 12:00:00 AM, the information returned is from 07/25/2024 12:00:00 AM through 08/02/2024 12:00:00 AM.
Previous Year	Yes	First day of the previous year (for example 01/01/2023 12:00:00 AM)	Last day of the previous year (for example, 12/31/2023 11:59:59 PM)
Previous Year-to-Date	No	First day of the previous year (for example 01/01/2023 12:00:00 AM)	The current date. For example, if today is 08/05/2024 12:00:00 AM, the information returned is from 01/01/2023 12:00:00 AM through 08/05/2024 12:00:00 AM.
Rolling 7 days	No	7 days before the current date and time	Current date and time
Rolling 24 hours	No	24 hours before the current date and time	Current date and time
Rolling 30 days	No	30 days before the current date and time	Current date and time
Rolling 90 days	No	90 days before the current date and time	Current date and time
Rolling 365 days	No	365 days before the current date and time	Current date and time
Rolling Hour	No	60 minutes before the current date and time	Current date and time
Rolling Minute	No	One minute before the current date and time	Current date and time
Today	No	Start of the current day (for example, 08/20/2024 12:00:00 AM)	Current date and time



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Preset type	Data Cached?	Start date	End date
Yesterday	Yes	Beginning of the previous day (for example, 08/19/2024 12:00:00 AM)	End of the previous day (08/19/2024 11:59:59 PM)

Errors and Exceptions

This applies to: *Visual Data Discovery*

When working with the SDK, the Symphony client might return one or more error messages. The following tables describe all the error messages the SDK might return, and some possible solutions.

createQuery

Error	Description	Solution
metrics must be an array	The metrics attribute of the query configuration object is not an array.	Make sure metrics is an array, even if it's just an array of one.
invalid metrics	Metrics function, for example "avg" or "min", is not one of the expected values.	The metrics function must be one of the following: 'min' , 'max' , 'avg' , 'sum' , 'calc' , 'distinct_count' , 'last_value' , 'percentiles'
groups is not defined fields is not defined	The query configuration object has neither a groups attribute or a fields attribute.	Either groups or fields must be defined. See the query configuration page for more information about the query configuration object.
groups is not defined fields must be an array of field names	The query configuration object has a fields attribute that is not an array of field names, and doesn't define a groups attribute.	Make sure your fields attribute is an array, or add a groups attribute to the query configuration object.
groups must be an array of groups configurations fields is not defined	The query configuration object has a groups attribute that isn't an array of groups configurations, and doesn't have a fields attribute.	Make sure your groups attribute is an array. If you don't want a grouped query, add a fields attribute with an array of field names.
filters must be an array	The query configuration object has a filters attribute that isn't an array of filter configurations.	Make sure your filters attribute is an array, even if it's an empty array [] or an array of just one configuration.
element expected	Configuration passed to visualize() does not have an 'element' attribute that is a webpage element.	Check out the XYZ link to visualize sample.
visualization doesn't exist	Using visualize(), you tried to create a visualization that doesn't exist.	Check the name of your visualization and make sure it is valid. If using a custom chart, make sure you copied the name exactly.
data set empty	The data set that you are trying to access is empty.	This message will result if you have a non-live (static) data source and the query to access it contains <code>pauseAfterRead</code> set to <code>false</code> . A query to static data sources should have <code>pauseAfterRead</code> set to true, otherwise the query



Error	Description	Solution
		attempts to read and reread the source.

Events Created by Client

This applies to: *Visual Data Discovery*

Thread Events

Event	Description
thread:start	Thread is starting.
thread:stop	Thread is stopping.
thread:pause	Thread is pausing. Relevant only for time bar visuals.
thread:unpause	Thread is resuming. Relevant only for time bar visuals.
thread:updateSpeed	Thread's speed is updating. Relevant only for time bar visuals.
thread:message	Thread is sending data, which is returned as a packet by the listener to a callback function.
thread:error	An error occurred on the thread. The error message is included in the event, which is returned as a packet by the listener to a callback function.
thread:startVisDone	Thread has finished starting the visual.
thread:stopVisDone	Thread has finished stopping the visual.
thread:noData	Thread has found no data.
thread:dirtyData	Data is currently being read. Not fully sharpened yet.
thread:notDirtyData	All the data has been read and is fully sharpened.
thread:pauseDone	Thread has finished pausing. For time bar sources.
thread:unpauseDone	Thread has finished resuming. For time bar sources.
thread:pagination	Pagination for most visuals.
thread:pivotPaging	Separate paging event for Pivot Table visual.
thread:viewport	Viewport has updated.
thread:timeline	Reports time window currently being queried.

Visualization Events

Event	Description
showReflinePopup	Show Reference Line pop-up.

Event	Description
interaction	Interaction with the visual. Includes event details.
actionList:open	Action list opened.
actionList:close	Action list closed.
tooltip:show	Display tooltip.
tooltip:update	Updating tooltip.
tooltip:move	Moving tooltip.
tooltip:hide	Hide tooltip.
filters:add	Add a filter.
filters:remove	Remove a filter.
showWarning	Show a warning.
releaseInteractiveElement	Released an interactive element you no longer want to be interactive.
registerInteractiveElement	Registered a new interactive element.
requestData	Requesting data.
axisLabels:create	Create axis labels for your visual.
axisLabel:create	Create an axis label for your visual.
axisLabels:remove	Remove all axis labels from visual.
stop	Visual is stopping.
request:pickAttribute	Visual has requested attribute picker.
request:pickMetric	Visual has requested metric picker.
request:registered	Visual queries whether some element is interactive.
request:getTicksStep	Visual is requesting the tick step.



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Cautionary Note About Internal APIs

This applies to: *Visual Data Discovery*

Symphony offers a number of REST APIs so you can extend and embed Symphony in your own custom applications. These APIs are denoted as publicly available using the `/api/` path (for example, `www.yourcompany.com/discovery/api/accounts`).



List of Installed Folders

This applies to: *Managed Dashboards, Managed Reports*

When you install Symphony in your environment, the folders installed on your server or instance are used to install and run Symphony.

Deployment Application Folders

Use the **Logi Symphony Deployment Wizard** to install [Symphony on Windows](#), or download the [Kubernetes installation package](#).

The deployment application is installed into a folder location incorporating the specific major version of Symphony.

Installation	Typical Folder
Logi Symphony - Windows	C:\Program Files (x86)\InsightSoftware\Logi Symphony\Setup\{Major Version}
Linux	/usr/share/dundas/bi/deployment/{Major Version}

Application Instance Folders

Installation	Typical Folder
Logi Symphony - Windows	C:\Program Files\InsightSoftware\Logi Symphony\Instances\{Instance Name}\Managed
Linux	/usr/share/dundas/bi/Files/{Instance Name}

When running as a Docker container, including in Kubernetes, refer to the Linux installation type above where the instance name is *{Container}*.

Instance Subfolders

These subfolders are under the instance root.

Path	Description
[Instance Root]	Top-level installation folder for the instance.
[Instance Root]\sdk	Binaries (DLLs) to reference when building extensions using the .NET API.
[Instance Root]\services	Services including the Logi Symphony Managed Scheduler service.
[Instance Root]\tools	Utility programs and tools for administration.
[Instance Root]\www\BIWebsite	Top-level web application folder.



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Path	Description
[Instance Root]\www\BIWebsite\App_Data	This is where the dbi.config file is located.
[Instance Root]\www\BIWebsite\wwwroot	Subfolders may contain custom CSS, image, and script files when white labeling .

Use the Network Time Protocol to Synchronize Time

This applies to: *Visual Data Discovery*

The Network Time Protocol daemon (NTPD) is a service that performs time synchronization of networked servers to Coordinated Universal Time (UTC). Using NTP helps mitigate the effects of network latency by synchronizing your network with accurate time servers. In addition, certain Symphony functionalities benefit from having NTP in your network, including:

- The connection between Symphony server and the data sources (so that monitoring of data source performance and possible network latency issues can be done).
- Authentication protocols (for example, [Kerberos](#)), which require precise time correspondence on all instances to work properly.
- Scaled out deployments so that all nodes can have synchronized time.

Ideally, NTP should be installed prior to installing the Symphony server. The steps below help you install the NTP service in your network. However, be sure to work with your network administrator to use the most appropriate time protocol service for your network environment.

Install NTP on RPM-Based Distributions

To install NTP on CentOS or RHEL, perform the following steps:

1. Run the following command:

```
sudo yum install -y ntp
```

2. Check that the service is up and running:

```
sudo service ntpd status
```

Install NTP on Ubuntu

To install NTP on Ubuntu, perform the following steps:



1. Run the following commands:

```
sudo apt-get update  
sudo apt-get install -y ntp
```

2. Check that the service is up and running:

```
sudo service ntp status
```

Post-Installation Steps

If you install the NTP service after Symphony has already been installed in your network, you should restart Symphony service after NTP has been successfully installed:

```
sudo service zoomdata restart
```