

Teamleader Orbit API Data Model

for use with Invantive SQL

24.0

invantive
the SQL company

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This manual is a reference guide intended to clarify usage. If data in the sample images match data in your system, the similarity is coincidental.

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Contents

1 SQL Driver for Teamleader Orbit API 1

2 SQL Driver Attributes for Teamleader Orbit API 2

3 Schema: 15

3.1 Tables ... 15
3.1.1 Companies: Teamleader Orbit Companies ... 15
3.1.2 Contacts: Teamleader Orbit Contacts ... 16
3.1.3 Contracts: Teamleader Orbit Contracts ... 16
3.1.4 Deals: Teamleader Orbit Deals ... 17
3.1.5 Pipelines: Teamleader Orbit Pipelines ... 17
3.1.6 Stages: Teamleader Orbit Stages ... 18
3.1.7 Users: Teamleader Orbit Users ... 18

4 Schema: Native 19

4.1 Tables ... 19
4.1.1 NATIVEPLATFORMSCALARREQUESTS: Teamleader Orbit Native Platform Scalar Requests ... 19

Index 21

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1 SQL Driver for Teamleader Orbit API

Invantive SQL is the fastest, easiest and most reliable way to exchange data with the Teamleader Orbit API.

Use the "Search" option in the left menu to search for a specific term such as the table or column description. When you already know the term, please use the "Index" option. When you can't find the information needed, please click on the Chat button at the bottom or place your question in the user community. Invantive Support or other users will try to help you.

itgen_teamleader_orbit_provider_description_text.

The Teamleader Orbit driver covers 8 tables and 85 columns.

Teamleader Orbit API Clients

Invantive SQL is available on many user interfaces ("clients" in traditional server-client paradigma). All Invantive SQL statements can be exchanged with a close to 100% compatibility across all clients and operating systems (Windows, MacOS, Linux, iOS, Android).

The clients include Microsoft Excel, Microsoft Power BI, Microsoft Power Query, Microsoft Word and Microsoft Outlook. Web-based clients include Invantive Cloud, Invantive Bridge Online as OData proxy, Invantive App Online for interactive apps, Online SQL Editor for query execution and Invantive Data Access Point as extended proxy.

The Teamleader Orbit Power BI connector is based on the Invantive SQL driver for Teamleader Orbit, completed by a high-performance OData connector which works straight on Power BI without any add-on. The OData protocol is always version 4, independent whether the backing platform uses OData, SOAP or another protocol.

For technical users there are command-line editions of Invantive Data Hub running on iOS, Android, Windows, MacOS and Linux. Invantive Data Hub is also often used for enterprise server applications such as ETL. High-volume replication of data taken from the Teamleader Orbit API into traditional databases such as SQL Server (on-premises and Azure), MySQL, PostgreSQL and Oracle is possible using Invantive Data Replicator. Invantive Data Replicator automatically creates and maintains Teamleader Orbit datawarehouses, possibly in combination with data from over 75 other (cloud) platforms. Invantive Data Replicator supports data volumes up to over 1 TB and over 5.000 companies. The on-premise edition of Invantive Bridge offers an Teamleader Orbit ADO.net provider.

Finally, online web apps can be build for Teamleader Orbit using App Online of Invantive Cloud.

Monitor API Calls

When a query or DML-statement has been executed on Invantive SQL a developer can evaluate the actual calls made to the Teamleader Orbit API using a query on sessionios@DataDictionary. As an alternative, extensive request and response logging can be enabled by setting log-native-calls-to-disk to true. In the %USERPROFILE%\Invantive\NativeLog folder Invantive SQL will create log files per Teamleader Orbit API request and response.

Specifications

The SQL driver for Teamleader Orbit does not support partitioning. Define one data container in a database for each company in Teamleader Orbit to enable parallel access for data from multiple companies.

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An introduction into the concepts of Invantive SQL such as databases, data containers and partitioning can be found in the Invantive SQL grammar.

The configuration can be changed using various attributes from the database definition, on log on and during use. A full list of configuration options is listed in the driver attributes 2.

The catalog name is used to compose the full qualified name of an object like a table or view. The schema name is used to compose the full qualified name of an object like a table or view. On Teamleader Orbit the comparison of two texts is case sensitive by default.

Changes and bug fixes on the Teamleader Orbit SQL driver can be found in the release notes. Get access to the community through the Teamleader Orbit section of the Invantive forums.

Driver code for use in settings.xml: `Orbit`

Alias: `teamleaderorbit`

Recommended alias: `tot`

Driver code for use in settings.xml

Updated 08-09-2023 10:53 using Invantive SQL version 22.1.262-BETA+4120.

2 SQL Driver Attributes for Teamleader Orbit API

The SQL driver for Teamleader Orbit has many attributes that can be finetuned to improve handling in scenarios with unreliable network connections to the API server of Teamleader Orbit or high volumes of data. Also, many drivers have driver-specific attributes to finetune actual behaviour or handle data not matching specifications.

The Teamleader Orbit driver attributes are assigned a default value which seldom requires change. However, changes can be applied when needed on four levels, which are reflected in the table below by separate checkmarks:

- Connection string: the connection string from the settings*.xml file and applied during log on.
- Set SQL statement: a set SQL-statement to be executed once connection has been established.
- Log on: value to be specified interactively by user during log on in a user interface.

The connection string for Teamleader Orbit can be found in the settings*.xml file used for the database. The reference manuals contain instructions how to relocate the settings*.xml files. Settings*.xml files are typically located in the `%USERPROFILE%\invantive` folder in most deployment scenarios. Each data container of a database in the connection string can have a `connectionString` element specifying the name and values of attributes. Both name and value must be properly escaped according to XML-semantics. Actual application of the value is solely done during log on. A new connection must be established to change the value of a driver attribute using a connection string.

The set SQL statement can be executed after log on. The syntax is: `set NAME VALUE`, or for a distributed database: `set NAME@ALIAS VALUE`. In some scenarios you may need to enclose the driver attribute name in square brackets to escape it from parsing, for instance when a reserved SQL keyword is part of the name. The new value takes effect straight after execution of the set-statement. The set-statement can be executed as often as needed during a session.

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Driver attributes that can be interactively set to a value are typically presented in the log on window. Depending on the platform and design decisions of the user interface designer, some or all of the available driver attributes can have been made available.

The Teamleader Orbit driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
add-odata-mandatory-filters	Whether to automatically add OData filters deemed necessary by the platform.	OData	False	✓	✓	✓	
analysis-enforce-row-uniqueness	Enforce rows to be unique for software analysis. A fingerprint is calculated from the whole row of data when the primary key column is unknown.	Shared	False	✓	✓	✓	
api-access-token	Access Token is a security token for multiple OAuth2 Flows. With an Access Token you can access protected resources. An Access Token must be stored securely since once compromised allows access to your protected resources.	OData		✓		✓	✓
api-client-id	The client ID is a unique identifier of your application. It is generated by registering an application.	OData		✓		✓	✓
api-client-secret	The client secret is to be kept confidential. Such as a password for a logon code, the client secret is the confidential part of an app identified by a client ID. It is needed during the OAuth2 Code Grant Flow together with the refresh token to get access.	OData		✓		✓	✓
api-pre-expiry-refresh-sec	The number of seconds before the token expires to acquire a new token.	OData		✓	✓	✓	
api-redirect-url	The redirect URI is the website a browser session is redirected to after the OAuth2 authentication process has been completed.	OData		✓		✓	✓
api-refresh-token	Refresh Token is a security token for the OAuth2 Code Grant Flow. With a Refresh Token and client secret you can retrieve a renewed access token to access protected resources. A Refresh Token and client secret must be stored securely since once compromised allows access to your protected resources.	OData		✓		✓	✓
api-scope	The authorization scope(s) to request an OAuth token for.	OData		✓		✓	
api-token-url	The token URI is the OAuth2 endpoint to exchange tokens with.	OData		✓		✓	
api-url	URL of web service.	OData		✓		✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
bulk-delete-page-size-row s	Number of row s to delete per batch w hen bulk deleting.	Shared	10000	✓	✓	✓	
bulk-insert-page-size-bytes	Approximate maximum size in bytes of batch w hen bulk inserting.	Shared	10000000	✓	✓	✓	
bulk-insert-page-size-row s	Number of row s to insert per batch w hen bulk inserting.	Shared	250	✓	✓	✓	
dow nload-error-400-bad-request-max-tries	Maximum number of tries w hen HTTP server reports bad format dur-ing retrieval of data.		3	✓	✓	✓	
dow nload-error-400-bad-request-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen HTTP server reports that the API server is unavailable during retrieval of data.		500	✓	✓	✓	
dow nload-error-400-bad-request-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports that the API server is un-available during retrieval of data.		5000	✓	✓	✓	
dow nload-error-400-bad-request-sleep-multiplicator	Multiplication factor for sleep betw een retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	
dow nload-error-408-request-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 408.		10	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		10000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 408.		300000	✓	✓	✓	
dow nload-error-408-request-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 408.		2	✓	✓	✓	
dow nload-error-422-bad-request-max-tries	Maximum number of tries w hen HTTP server reports unprocessable entity during retrieval of data.		30	✓	✓	✓	
dow nload-error-422-bad-request-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		10000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports unprocessable entity during retrieval of data.		300000	✓	✓	✓	
dow nload-error-422-bad-request-sleep-multiplicator	Multiplication factor for sleep betw een retries HTTP server reports unprocessable entity during retrieval of data.		2	✓	✓	✓	
dow nload-error-429-too-many-re-	Maximum number of tries w hen the w ebsite reports that too many re-		10	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
quests-max-tries	quests have been made during a timeslot of one minute or one day.						
dow nload-error-429-too-many-re-quests-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		10000	✓	✓	✓	
dow nload-error-429-too-many-re-quests-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		300000	✓	✓	✓	
dow nload-error-429-too-many-re-quests-sleep-multi-plicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports that too many requests have been made during a timeslot of one minute or one day.		2	✓	✓	✓	
dow nload-error-500-internal-server-error-max-tries	itgen_pae_dow nload_error_500_in-ternal_server_error_max_tries		10	✓	✓	✓	
dow nload-error-500-internal-server-error-sleep-initial-ms	itgen_pae_dow nload_error_500_in-ternal_server_error_sleep_initial_ms		10000	✓	✓	✓	
dow nload-error-500-internal-server-error-sleep-max-ms	itgen_pae_dow nload_error_500_in-ternal_server_error_sleep_max_ms		300000	✓	✓	✓	
dow nload-error-500-internal-server-error-sleep-multiplic-ator	itgen_pae_dow nload_error_500_in-ternal_server_error_sleep_multiplic-ator		2	✓	✓	✓	
dow nload-error-502-server-unavail-able-max-tries	Maximum number of tries w hen HTTP server reports a bad gatew ay during retrieval of data.		30	✓	✓	✓	
dow nload-error-502-server-unavail-able-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen HTTP server reports a bad gatew ay during retrieval of data.		10000	✓	✓	✓	
dow nload-error-502-server-unavail-able-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports that a bad gatew ay during retrieval of data.		300000	✓	✓	✓	
dow nload-error-502-server-unavail-able-sleep-multiplic-ator	Multiplication factor for sleep betw een retries HTTP server reports a bad gatew ay during retrieval of data.		2	✓	✓	✓	
dow nload-error-503-server-unavail-able-max-tries	Maximum number of tries w hen HTTP server reports that the API server is unavailable during retrieval of data.		30	✓	✓	✓	
dow nload-error-503-server-unavail-	Initial sleep in milliseconds betw een retries w hen HTTP server reports		10000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
able-sleep-initial-ms	that the API server is unavailable during retrieval of data.						
dow nload-error-503-server-unavail-able-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen HTTP server reports that the API server is un-available during retrieval of data.		300000	✓	✓	✓	
dow nload-error-503-server-unavail-able-sleep-multiplic-ator	Multiplication factor for sleep betw een retries HTTP server reports that the API server is unavailable during retrieval of data.		2	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a gatew ay timeout.		10	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		10000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a gatew ay timeout.		300000	✓	✓	✓	
dow nload-error-504-gatew ay-timeout-sleep-multi-plicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a gatew ay timeout.		2	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 590.		10	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		10000	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 590.		300000	✓	✓	✓	
dow nload-error-590-netw ork-con-nect-timeout-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the w ebsite reports a HTTP status 590.		2	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-max-tries	Maximum number of tries w hen the w ebsite reports a HTTP status 599.		10	✓	✓	✓	
dow nload-error-599-netw ork-con-nect-timeout-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the w ebsite reports a HTTP status 599.		10000	✓	✓	✓	
dow nload-error-599-netw ork-con-	Maximum sleep in milliseconds betw een retries w hen the w ebsite		300000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
nect-timeout-sleep-max-ms	reports a HTTP status 599.						
download-error-599-network-connect-timeout-sleep-multiplicator	Multiplication factor for sleep between retries when the website reports a HTTP status 599.		2	✓	✓	✓	
download-error-argument-exception-max-tries	Maximum number of tries when an argument exception is returned when downloading a blob.		10	✓	✓	✓	
download-error-argument-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		10000	✓	✓	✓	
download-error-argument-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when an argument exception is returned when downloading a blob.		300000	✓	✓	✓	
download-error-argument-exception-sleep-multiplicator	Multiplication factor for sleep between retries when an argument exception is returned when downloading a blob.		2	✓	✓	✓	
download-error-internet-down-max-tries	Maximum number of tries when the Internet connection seems down during retrieval of data.		10	✓	✓	✓	
download-error-internet-down-sleep-initial-ms	Initial sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		10000	✓	✓	✓	
download-error-internet-down-sleep-max-ms	Maximum sleep in milliseconds between retries when the Internet connection seems down during retrieval of data.		300000	✓	✓	✓	
download-error-internet-down-sleep-multiplicator	Multiplication factor for sleep between retries when the Internet connection seems down during retrieval of data.		2	✓	✓	✓	
download-error-io-exception-max-tries	Maximum number of tries when a network I/O connection failure occurs during retrieval of data.		10	✓	✓	✓	
download-error-io-exception-sleep-initial-ms	Initial sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		10000	✓	✓	✓	
download-error-io-exception-sleep-max-ms	Maximum sleep in milliseconds between retries when a network I/O connection failure occurs during retrieval of data.		300000	✓	✓	✓	
download-error-io-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a network I/O connection failure occurs during retrieval of data.		2	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
dow nload-error-json-exception-max-tries	Maximum number of tries w hen an invalid JSON body is returned.		3	✓	✓	✓	
dow nload-error-json-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen an invalid JSON body is returned.		1000	✓	✓	✓	
dow nload-error-json-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen an invalid JSON body is returned.		10000	✓	✓	✓	
dow nload-error-json-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen an invalid JSON body is returned.		2	✓	✓	✓	
dow nload-error-other-exception-max-tries	Maximum number of tries w hen an unqualified error occurs during re-trieval of data.		3	✓	✓	✓	
dow nload-error-other-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen an unqualified error ocurrs during retrieval of data.		10000	✓	✓	✓	
dow nload-error-other-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen an unqualified error ocurrs during retrieval of data.		300000	✓	✓	✓	
dow nload-error-other-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen an unqualified error ocurrs during retrieval of data.		2	✓	✓	✓	
dow nload-error-socket-exception-max-tries	Maximum number of tries w hen the netw ork connection is forcible dropped during retrieval of data.		10	✓	✓	✓	
dow nload-error-socket-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen the netw ork connec-tion is forcible dropped during re-trieval of data.		10000	✓	✓	✓	
dow nload-error-socket-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen the netw ork connection is forcible dropped dur-ing retrieval of data.		300000	✓	✓	✓	
dow nload-error-socket-exception-sleep-multiplicator	Multiplication factor for sleep betw een retries w hen the netw ork connection is forcible dropped dur-ing retrieval of data.		2	✓	✓	✓	
dow nload-error-w eb-exception-max-tries	Maximum number of tries w hen a w eb connection failure occurs dur-ing retrieval of data.		10	✓	✓	✓	
dow nload-error-w eb-exception-sleep-initial-ms	Initial sleep in milliseconds betw een retries w hen a w eb connection fail-ure occurs during retrieval of data.		10000	✓	✓	✓	
dow nload-error-w eb-exception-sleep-max-ms	Maximum sleep in milliseconds betw een retries w hen a w eb con-nection failure occurs during re-trieval of data.		300000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
download-error-web-exception-sleep-multiplicator	Multiplication factor for sleep between retries when a web connection failure occurs during retrieval of data.		2	✓	✓	✓	
download-error-web-not-found-max-tries	itgen_pae_download_error_web_not_found_max_tries		1	✓	✓	✓	
download-error-web-not-found-sleep-initial-ms	itgen_pae_download_error_web_not_found_sleep_initial_ms		10000	✓	✓	✓	
download-error-web-not-found-sleep-max-ms	itgen_pae_download_error_web_not_found_sleep_max_ms		300000	✓	✓	✓	
download-error-web-not-found-sleep-multiplicator	itgen_pae_download_error_web_not_found_sleep_multiplicator		2	✓	✓	✓	
download-error-web-not-implemented-max-tries	Maximum number of tries when the connection reports not implemented.		1	✓	✓	✓	
download-error-web-not-implemented-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports not implemented.		10000	✓	✓	✓	
download-error-web-not-implemented-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports not implemented.		300000	✓	✓	✓	
download-error-web-not-implemented-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports not implemented.		2	✓	✓	✓	
download-error-web-timeout-max-tries	Maximum number of tries when the connection reports a timeout.		10	✓	✓	✓	
download-error-web-timeout-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports a timeout.		1000	✓	✓	✓	
download-error-web-timeout-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports a timeout.		30000	✓	✓	✓	
download-error-web-timeout-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports a timeout.		2	✓	✓	✓	
download-error-web-unauthorized-max-tries	Maximum number of tries when the connection reports an unauthorized error.		1	✓	✓	✓	
download-error-web-unauthorized-sleep-initial-ms	Initial sleep in milliseconds between retries when the connection reports an unauthorized error.		10000	✓	✓	✓	
download-error-web-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between retries when the connection reports an unauthorized error.		300000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
download-error-web-unauthorized-sleep-multiplicator	Multiplication factor for sleep between retries when the connection reports an unauthorized error.		2	✓	✓	✓	
force-case-sensitive-identifiers	Consider identifiers as case-sensitive independent of the platform capabilities.	Shared	False	✓	✓	✓	
forced-casing-identifiers	Forced casing of identifiers. Choose from: Unset, Lower, Upper and Mixed.	Shared		✓	✓	✓	
http-disk-cache-compression-level	Compression level for the HTTP disk cache, ranging from 1 (little) to 9 (intense). Default is 5.	Shared	5	✓	✓	✓	
http-disk-cache-directory	Directory where HTTP cache is stored.	Shared	C:\Users\gle3.WS212\Invantive\Cache\http\gle3\shared	✓	✓	✓	
http-disk-cache-ignore-write-errors	Whether to ignore write errors to disk cache.	Shared	False	✓	✓	✓	
http-disk-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP disk cache.	Shared	2592000	✓	✓	✓	
http-get-timeout-max-ms	HTTP GET maximum timeout on retry (ms).		24000	✓	✓	✓	
http-get-timeout-ms	HTTP GET timeout (ms).		56000	✓	✓	✓	
http-memory-cache-compression-level	Compression level for the HTTP memory cache, ranging from 1 (little) to 9 (intense). Default is 5.	OData	5	✓	✓	✓	
http-memory-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP memory cache.	OData	14400	✓	✓	✓	
http-post-timeout-max-ms	HTTP POST maximum timeout on retry (ms).		58000	✓	✓	✓	
http-post-timeout-ms	HTTP POST timeout (ms).		57000	✓	✓	✓	
ignore-http-400-errors	Ignore HTTP 400 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-401-errors	Ignore HTTP 401 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-402-errors	Ignore HTTP 402 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-403-errors	Ignore HTTP 403 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-404-errors	Ignore HTTP 404 errors when exchanging results with the HTTP end-		False	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
	point.						
ignore-http-422-errors	Ignore HTTP 422 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-429-errors	Ignore HTTP 429 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-500-errors	Ignore HTTP 500 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-502-errors	Ignore HTTP 502 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
ignore-http-503-errors	Ignore HTTP 503 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
invalid-json-on-get-max-tries	Maximum number of tries when the JSON received on GET is invalid.		1	✓	✓	✓	
invalid-json-on-get-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on GET is invalid.		1000	✓	✓	✓	
invalid-json-on-get-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on GET is invalid.		10000	✓	✓	✓	
invalid-json-on-get-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on GET is invalid.		2	✓	✓	✓	
invalid-json-on-post-max-tries	Maximum number of tries when the JSON received on POST is invalid.		1	✓	✓	✓	
invalid-json-on-post-sleep-initial-ms	Initial sleep in milliseconds between retries when the JSON received on POST is invalid.		1000	✓	✓	✓	
invalid-json-on-post-sleep-max-ms	Maximum sleep in milliseconds between retries when the JSON received on POST is invalid.		10000	✓	✓	✓	
invalid-json-on-post-sleep-multiplicator	Multiplication factor for sleep between retries when the JSON received on POST is invalid.		2	✓	✓	✓	
invantive-sql-compress-sparse-arrays	Whether to compress sparse arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-correct-invalid-date	Whether to correct dates considered invalid since they are before 01-01-1753. When nullable, they are removed. Otherwise they are replaced by 01-01-1753.	SQL Engine V1	False	✓	✓	✓	
invantive-sql-forward-filters-to-data-containers	Whether to forward filters to data containers.	SQL Engine V1	True	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
invantive-sql-share-byte-arrays	Whether to share the memory used by identical byte arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-strings	Whether to share the memory used by identical strings in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-shuffle-fetch-results-data-containers	Whether to shuffle results fetched from data containers.	SQL Engine V1	False	✓	✓	✓	
invantive-use-cache	Whether to cache the results of a query.	SQL Engine V1	True	✓	✓	✓	
join-set-points-per-request	Maximum number of values in a request when executing a join set.	OData	60	✓	✓	✓	
limit-partition-calls-left	Minimum number of remaining API calls on a partition towards a hard limit. When below, an error is raised.	OData	500	✓	✓	✓	
log-native-calls-to-disk-max-events	Maximum number of call events to register from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-max-seconds	Maximum number of seconds to register calls from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-on-error	Registers native calls to data container backend as disk files when the call raised an error.	Shared	False	✓	✓	✓	
log-native-calls-to-disk-on-success	Registers native calls to data container backend as disk files when the call raised no error.	Shared	False	✓	✓	✓	
log-native-calls-to-trace	Log native calls to data container backend on the trace.	Shared	False	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	
max-odata-filters	Maximum number of OData filter elements.	OData	100	✓	✓	✓	
max-url-length-accepted	The maximum accepted URL length before raising an error.	Shared	8000	✓	✓	✓	
max-url-length-desired	The maximum desired URL length.	Shared	8000	✓	✓	✓	
metadata-cache-max-age-sec	Maximum acceptable age in seconds for re-use of metadata.	OData		✓	✓	✓	
oauth-unauthorized-max-tries	Maximum number of tries when an OAuth exception occurs.	OData	2	✓	✓	✓	
oauth-unauthorized-sleep-initial-ms	Initial sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.	OData	10000	✓	✓	✓	
oauth-unauthorized-sleep-max-ms	Maximum sleep in milliseconds between OAuth reauthentication tries when the OAuth authentication fails.	OData	1000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
oauth-unauthorized-sleep-multiplicator	Multiplication factor for sleep between OAuth reauthentication tries when the OAuth authentication fails.	OData	2	✓	✓	✓	
partition-slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a partition-based rate limit.	Shared	60000	✓		✓	
partition-slot-based-rate-limit-slots	Number of slots per partition-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
pre-request-delay-ms	Pre-request delay in milliseconds per request.	Shared	0	✓	✓	✓	
requested-page-size	Preferred number of rows to exchange per round trip; only effective on limited platforms such as AFAS Online.	Shared		✓	✓	✓	
requests-parallel-max	Maximum number of parallel data requests from individual partitions on the data container.	Shared	32	✓	✓	✓	
simulate-http-400-errors	Simulate HTTP 400 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-400-errors-percentage	Percentage of simulated HTTP 400 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-401-errors	Simulate HTTP 401 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-401-errors-percentage	Percentage of simulated HTTP 401 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-403-errors	Simulate HTTP 403 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-403-errors-percentage	Percentage of simulated HTTP 403 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-408-errors	Simulate HTTP 408 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-408-errors-percentage	Percentage of simulated HTTP 408 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-429-errors	Simulate HTTP 429 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-429-errors-percentage	Percentage of simulated HTTP 429 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-500-errors	Simulate HTTP 500 errors when exchanging results with the HTTP end-		False	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
	point.						
simulate-http-500-errors-percentage	Percentage of simulated HTTP 500 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-502-errors	Simulate HTTP 502 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-502-errors-percentage	Percentage of simulated HTTP 502 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-503-errors	Simulate HTTP 503 errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-503-errors-percentage	Percentage of simulated HTTP 503 errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-504-errors	itgen_pae_simulate_http_504_errors		False	✓	✓	✓	
simulate-http-504-errors-percentage	itgen_pae_simulate_http_504_errors_percentage		0	✓	✓	✓	
simulate-http-522-errors	itgen_pae_simulate_http_522_errors		False	✓	✓	✓	
simulate-http-522-errors-percentage	itgen_pae_simulate_http_522_errors_percentage		0	✓	✓	✓	
simulate-http-524-errors	itgen_pae_simulate_http_524_errors		False	✓	✓	✓	
simulate-http-524-errors-percentage	itgen_pae_simulate_http_524_errors_percentage		0	✓	✓	✓	
simulate-http-protocol-errors	Simulate HTTP protocol errors when exchanging results with the HTTP endpoint.		False	✓	✓	✓	
simulate-http-protocol-errors-percentage	Percentage of simulated HTTP protocol errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
simulate-http-timeout-errors	Simulate HTTP timeout errors when exchanging results with the HTTP endpoint..		False	✓	✓	✓	
simulate-http-timeout-errors-percentage	Percentage of simulated HTTP timeout errors when exchanging results with the HTTP endpoint.		0	✓	✓	✓	
slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a slot-based rate limit.	Shared	60000	✓		✓	
slot-based-rate-limit-slots	Number of slots of a slot-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
standardize-identifiers	Rewrite all identifiers to the preferred standards as configured by	Shared	True	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Con-nec-tion String	Set from Set SQL-State-ment	Set from Driver s File	Set from Log On
	standardize-identifiers-casing and maximum-length-identifiers.						
standardize-identifi-ers-casing	Rew rite all identifiers to the recom-mended standard platform-specific casing w hen changing a data model on a case-dependent platform.	Shared	True	✓	✓	✓	
use-batch-insert	Whether to use batch insert.	OData	True	✓	✓	✓	
use-http-disk-cache-read	Whether to use HTTP responses from previous queries stored on disk to answ er the current query.	Shared	False	✓	✓	✓	
use-http-disk-cache-w rite	Whether to memorize HTTP re-sponses on disk.	Shared	False	✓	✓	✓	
use-http-memory-cache-read	Whether to use HTTP responses from previous queries stored in memory that can answ er the current query.	OData	True	✓	✓	✓	
use-http-memory-cache-w rite	Whether to memorize HTTP re-sponses from previous queries for use by future queries.	OData	True	✓	✓	✓	

3 Schema:
3.1 Tables
3.1.1 Companies: Teamleader Orbit Companies

Catalog: Orbit

Primary Keys: id

Label: Companies

Retrieve: true

Table Columns

The columns of the table Companies are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
added_at	datetime	Added at	☐	
city	string	City	☐	
country	string	Country	☐	
housenumber	string	House Number	☐	
id	string	ID	☑	
name	string	Name	☐	
phone	string	Phone	☐	
street	string	Street	☐	
type	string	Type	☐	

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Name	Data Type	Label	Required	Documentation
updated_at	datetime	Updated at	☐	
w eb_url	string	Website (URL)	☐	
w ebsite	string	Website (URL)	☐	
zipcode	string	ZIP Code	☐	

3.1.2 Contacts: Teamleader Orbit Contacts

Catalog: Orbit

Primary Keys: id

Label: Contacts

Retrieve: true

Table Columns

The columns of the table Contacts are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
added_at	datetime	Added at	☐	
birthday	datetime	Birthday	☐	
email	string	Email	☐	
firstname	string	First Name	☐	
gender	string	Gender	☐	
id	string	ID	☑	
language	string	Language	☐	
lastname	string	Last Name	☐	
mobile	string	Mobile	☐	
name	string	Name	☐	
phone	string	Phone	☐	
updated_at	datetime	Updated at	☐	
w eb_url	string	Website (URL)	☐	

3.1.3 Contracts: Teamleader Orbit Contracts

Catalog: Orbit

Primary Keys: id

Label: Contracts

Retrieve: true

Table Columns

The columns of the table Contracts are shown below. Each column has an SQL data type.

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Name	Data Type	Label	Required	Documentation
id	string	ID	☑	
name	string	Name	☐	
state	string	State	☐	

3.1.4 Deals: Teamleader Orbit Deals

Catalog: Orbit

Primary Keys: id

Label: Deals

Retrieve: true

Table Columns

The columns of the table Deals are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
closed_dt	datetime	Closed at	☐	
companyid	string	Company ID	☐	
created_dt	datetime	Created at	☐	
currency	string	Currency	☐	
id	string	ID	☑	
modified_dt	datetime	Modified at	☐	
name	string	Name	☐	
pipeline	string	Pipeline	☐	
pipelineid	string	Pipeline ID	☐	
stageid	string	Stage ID	☐	
status	string	Status	☐	
value	decimal	Value	☐	

3.1.5 Pipelines: Teamleader Orbit Pipelines

Catalog: Orbit

Primary Keys: id

Label: Pipelines

Retrieve: true

Table Columns

The columns of the table Pipelines are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
id	string	ID	☑	
name	string	Name	☑	

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3.1.6 Stages: Teamleader Orbit Stages

Catalog: Orbit

Primary Keys: id

Label: Stages

Retrieve: true

Table Columns

The columns of the table Stages are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
id	string	ID	☑	
name	string	Name	☑	
pipelineid	string	Pipeline ID	☑	

3.1.7 Users: Teamleader Orbit Users

Catalog: Orbit

Primary Keys: id

Label: Users

Retrieve: true

Table Columns

The columns of the table Users are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
email	string	Email	☐	
first_name	string	First Name	☐	
function	string	Function	☐	
id	string	ID	☑	
language	string	Language	☐	
last_name	string	Last Name	☐	
mobile	string	Mobile	☐	
name	string	Name	☐	
phone	string	Phone	☐	
w eb_url	string	Website (URL)	☐	

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4 Schema: Native

4.1 Tables

4.1.1 NATIVEPLATFORMSCALARREQUESTS: Teamleader Orbit Native Platform Scalar Requests

{res:itgen_native_platform_scalar_requests_desc}

Catalog: Orbit

Schema: Native

Alias: `npt`

Label: Native Platform Scalar Requests

Documentation:

The NativePlatformScalarRequests table provides direct access to the native API protocol over an established connection to the Teamleader Orbit API server. It will contain a new row for every row inserted with a native API request in PAYLOAD_TEXT with the results of un-altered forwarding of the payload to the Teamleader Orbit API server.

Retrieve: true

Insert: true

Update: false

Delete: false

View Columns

The columns of the view NATIVEPLATFORMSCALARREQUESTS are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert.

Name	Data Type	Label	Required	Documentation
BLOB_PREFERRED	boolean	BLOB Preferred	☑	Indicator w hether a BLOB result is preferred over text.
BOL_RESPONSE_CACHE_MAX_AGE_SEC	int32	Response Cache Maximum Age (sec)	☐	Maximum age in seconds of Bridge Online response cache entries to be used.
CONTENT_TYPE	string(240)	Content Type	☐	
DATE_ENDED	datetime	End Date	☑	
DATE_STARTED	datetime	Start Date	☑	
DRY_RUN	boolean	Run w ithout Actions	☑	
DURATION_MS	int32	Duration (ms)	☑	
ERROR_MESSAGE_CODE	string(30)	Error Message Code	☐	
ERROR_MESSAGE_TEXT	string(32000)	Error Message Text	☐	
FAIL_ON_ERROR	boolean	Fail on Error	☑	Whether to raise an exception w hen processing the native request triggered an error from the provider.
HTTP_DISK_CACHE_MAX_AGE_SEC	int32	HTTP Disk Cache Maximum Age (sec)	☐	Maximum age in seconds of HTTP disk cache entries to be used.

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Name	Data Type	Label	Required	Documentation
HTTP_DISK_CACHE_SAVE	boolean	Save HTTP Disk Cache	☐	Whether results can be stored in HTTP disk cache.
HTTP_DISK_CACHE_USE	boolean	Use HTTP Disk Cache	☐	Whether results can be fetched from HTTP disk cache.
HTTP_MEMORY_CACHE_MAX_AGE_SEC	int32	HTTP Memory Cache Maximum Age (sec)	☐	Maximum age in seconds of HTTP memory cache entries to be used.
HTTP_MEMORY_CACHE_SAVE	boolean	Save HTTP Memory Cache	☐	Whether results can be stored in HTTP memory cache.
HTTP_MEMORY_CACHE_USE	boolean	Use HTTP Memory Cache	☐	Whether results can be fetched from HTTP memory cache.
HTTP_METHOD	string(30)	HTTP Method	☐	
HTTP_STATUS_CODE	int32	HTTP Status Code	☐	
ORIG_SYSTEM_GROUP	string(4000)	Original System Group	☐	
ORIG_SYSTEM_REFERENCE	string(4000)	Original System Reference	☐	
PAYLOAD_TEXT	string	Payload	☐	
RESULT_BLOB	byte[]	Result BLOB	☐	
RESULT_DATE_TIME_UTC	datetime	Result Date Time	☐	
RESULT_NUMBER	decimal	Result Number	☐	
RESULT_TEXT	string	Result Text	☐	
SUCCESSFUL	boolean	Succesful	☑	
TIMEOUT_SEC	int32	Timeout (sec)	☐	Timeout in seconds.
TRANSACTION_ID	int64	Transaction ID	☑	Incrementing ID of the transaction.
URL	string(4000)	URL	☐	

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Index

- A -

Added at 15, 16
added_at 15, 16
add-odata-mandatory-filters 2
analysis-enforce-row-uniqueness 2
api-access-token 2
api-client-id 2
api-client-secret 2
api-pre-expiry-refresh-sec 2
api-redirect-url 2
api-refresh-token 2
api-scope 2
api-token-url 2
api-url 2

- B -

Birthday 16
BLOB Preferred 19
BLOB_PREFERRED 19
BOL_RESPONSE_CACHE_MAX_AGE_SEC 19
bulk-delete-page-size-rows 2
bulk-insert-page-size-bytes 2
bulk-insert-page-size-rows 2

- C -

City 15
Closed at 17
closed_dt 17
Companies 15
Company ID 17
companyid 17
Contacts 16
Content Type 19
CONTENT_TYPE 19
Contracts 16
Country 15
Created at 17
created_dt 17
Currency 17

- D -

Database Driver 1
DATE_ENDED 19
DATE_STARTED 19
Deals 17
download-error-400-bad-request-max-tries 2
download-error-400-bad-request-sleep-initial-ms 2
download-error-400-bad-request-sleep-max-ms 2
download-error-400-bad-request-sleep-multiplicator 2
download-error-408-request-timeout-max-tries 2
download-error-408-request-timeout-sleep-initial-ms 2
download-error-408-request-timeout-sleep-max-ms 2
download-error-408-request-timeout-sleep-multiplicator 2
download-error-422-bad-request-max-tries 2
download-error-422-bad-request-sleep-initial-ms 2
download-error-422-bad-request-sleep-max-ms 2
download-error-422-bad-request-sleep-multiplicator 2
download-error-429-too-many-requests-max-tries 2
download-error-429-too-many-requests-sleep-initial-ms 2
download-error-429-too-many-requests-sleep-max-ms 2
download-error-429-too-many-requests-sleep-multiplicator 2
download-error-500-internal-server-error-max-tries 2
download-error-500-internal-server-error-sleep-initial-ms 2
download-error-500-internal-server-error-sleep-max-ms 2
download-error-500-internal-server-error-sleep-multiplicator 2
download-error-502-server-unavailable-max-tries 2
download-error-502-server-unavailable-sleep-initial-ms 2
download-error-502-server-unavailable-sleep-max-ms 2
download-error-502-server-unavailable-sleep-multiplicator 2
download-error-503-server-unavailable-max-tries 2
download-error-503-server-unavailable-sleep-initial-ms 2
download-error-503-server-unavailable-sleep-max-ms 2
download-error-503-server-unavailable-sleep-multiplicator 2
download-error-504-gateway-timeout-max-tries 2
download-error-504-gateway-timeout-sleep-initial-ms 2
download-error-504-gateway-timeout-sleep-max-ms 2
download-error-504-gateway-timeout-sleep-multiplicator 2

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download-error-590-network-connect-timeout-max-tries 2
download-error-590-network-connect-timeout-sleep-initial-ms 2
download-error-590-network-connect-timeout-sleep-max-ms 2
download-error-590-network-connect-timeout-sleep-multiplicator 2
download-error-599-network-connect-timeout-max-tries 2
download-error-599-network-connect-timeout-sleep-initial-ms 2
download-error-599-network-connect-timeout-sleep-max-ms 2
download-error-599-network-connect-timeout-sleep-multiplicator 2
download-error-argument-exception-max-tries 2
download-error-argument-exception-sleep-initial-ms 2
download-error-argument-exception-sleep-max-ms 2
download-error-argument-exception-sleep-multiplicator 2
download-error-internet-down-max-tries 2
download-error-internet-down-sleep-initial-ms 2
download-error-internet-down-sleep-max-ms 2
download-error-internet-down-sleep-multiplicator 2
download-error-io-exception-max-tries 2
download-error-io-exception-sleep-initial-ms 2
download-error-io-exception-sleep-max-ms 2
download-error-io-exception-sleep-multiplicator 2
download-error-json-exception-max-tries 2
download-error-json-exception-sleep-initial-ms 2
download-error-json-exception-sleep-max-ms 2
download-error-json-exception-sleep-multiplicator 2
download-error-other-exception-max-tries 2
download-error-other-exception-sleep-initial-ms 2
download-error-other-exception-sleep-max-ms 2
download-error-other-exception-sleep-multiplicator 2
download-error-socket-exception-max-tries 2
download-error-socket-exception-sleep-initial-ms 2
download-error-socket-exception-sleep-max-ms 2
download-error-socket-exception-sleep-multiplicator 2
download-error-web-exception-max-tries 2
download-error-web-exception-sleep-initial-ms 2
download-error-web-exception-sleep-max-ms 2
download-error-web-exception-sleep-multiplicator 2
download-error-web-not-found-max-tries 2
download-error-web-not-found-sleep-initial-ms 2
download-error-web-not-found-sleep-max-ms 2
download-error-web-not-found-sleep-multiplicator 2
download-error-web-not-implemented-max-tries 2
download-error-web-not-implemented-sleep-initial-ms 2
download-error-web-not-implemented-sleep-max-ms 2
download-error-web-not-implemented-sleep-multiplicator 2
download-error-web-timeout-max-tries 2
download-error-web-timeout-sleep-initial-ms 2
download-error-web-timeout-sleep-max-ms 2
download-error-web-timeout-sleep-multiplicator 2
download-error-web-unauthorized-max-tries 2
download-error-web-unauthorized-sleep-initial-ms 2
download-error-web-unauthorized-sleep-max-ms 2
download-error-web-unauthorized-sleep-multiplicator 2
DRY_RUN 19
Duration (ms) 19
DURATION_MS 19

- E -

Email 16, 18
End Date 19
Error Message Code 19
Error Message Text 19
ERROR_MESSAGE_CODE 19
ERROR_MESSAGE_TEXT 19

- F -

Fail on Error 19
FAIL_ON_ERROR 19
First Name 16, 18
first_name 18
firstname 16
force-case-sensitive-identifiers 2
forced-casing-identifiers 2
Function 18

- G -

Gender 16

- H -

House Number 15
housenumber 15
HTTP Disk Cache Maximum Age (sec) 19
HTTP Memory Cache Maximum Age (sec) 19
HTTP Method 19

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HTTP Status Code 19
HTTP_DISK_CACHE_MAX_AGE_SEC 19
HTTP_DISK_CACHE_SAVE 19
HTTP_DISK_CACHE_USE 19
HTTP_MEMORY_CACHE_MAX_AGE_SEC 19
HTTP_MEMORY_CACHE_SAVE 19
HTTP_MEMORY_CACHE_USE 19
HTTP_METHOD 19
HTTP_STATUS_CODE 19
http-disk-cache-compression-level 2
http-disk-cache-directory 2
http-disk-cache-ignore-write-errors 2
http-disk-cache-max-age-sec 2
http-get-timeout-max-ms 2
http-get-timeout-ms 2
http-memory-cache-compression-level 2
http-memory-cache-max-age-sec 2
http-post-timeout-max-ms 2
http-post-timeout-ms 2

- I -

ignore-http-400-errors 2
ignore-http-401-errors 2
ignore-http-402-errors 2
ignore-http-403-errors 2
ignore-http-404-errors 2
ignore-http-422-errors 2
ignore-http-429-errors 2
ignore-http-500-errors 2
ignore-http-502-errors 2
ignore-http-503-errors 2
invalid-json-on-get-max-tries 2
invalid-json-on-get-sleep-initial-ms 2
invalid-json-on-get-sleep-max-ms 2
invalid-json-on-get-sleep-multiplicator 2
invalid-json-on-post-max-tries 2
invalid-json-on-post-sleep-initial-ms 2
invalid-json-on-post-sleep-max-ms 2
invalid-json-on-post-sleep-multiplicator 2
invantive-sql-compress-sparse-arrays 2
invantive-sql-correct-invalid-date 2
invantive-sql-forward-filters-to-data-containers 2
invantive-sql-share-byte-arrays 2
invantive-sql-share-strings 2
invantive-sql-shuffle-fetch-results-data-containers 2
invantive-use-cache 2

- J -

join-set-points-per-request 2

- L -

Language 16, 18
Last Name 16, 18
last_name 18
lastname 16
limit-partition-calls-left 2
log-native-calls-to-disk-max-events 2
log-native-calls-to-disk-max-seconds 2
log-native-calls-to-disk-on-error 2
log-native-calls-to-disk-on-success 2
log-native-calls-to-trace 2

- M -

maximum-length-identifiers 2
max-odata-filters 2
max-url-length-accepted 2
max-url-length-desired 2
metadata-cache-max-age-sec 2
Mobile 16, 18
Modified at 17
modified_dt 17

- N -

Name 15, 16, 17, 18
Native Platform Scalar Requests 19
NATIVEPLATFORMSCALARREQUESTS 19
npt 19

- O -

oauth-unauthorized-max-tries 2
oauth-unauthorized-sleep-initial-ms 2
oauth-unauthorized-sleep-max-ms 2
oauth-unauthorized-sleep-multiplicator 2
Orbit 1
ORIG_SYSTEM_GROUP 19
ORIG_SYSTEM_REFERENCE 19
Original System Group 19
Original System Reference 19

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- P -

partition-slot-based-rate-limit-length-ms 2
partition-slot-based-rate-limit-slots 2
Payload 19
PAYLOAD_TEXT 19
Phone 15, 16, 18
Pipeline 17
Pipeline ID 17, 18
pipelineid 17, 18
Pipelines 17
pre-request-delay-ms 2

- R -

requested-page-size 2
requests-parallel-max 2
Response Cache Maximum Age (sec) 19
Result BLOB 19
Result Date Time 19
Result Number 19
Result Text 19
RESULT_BLOB 19
RESULT_DATE_TIME_UTC 19
RESULT_NUMBER 19
RESULT_TEXT 19
Run without Actions 19

- S -

Save HTTP Disk Cache 19
Save HTTP Memory Cache 19
simulate-http-400-errors 2
simulate-http-400-errors-percentage 2
simulate-http-401-errors 2
simulate-http-401-errors-percentage 2
simulate-http-403-errors 2
simulate-http-403-errors-percentage 2
simulate-http-408-errors 2
simulate-http-408-errors-percentage 2
simulate-http-429-errors 2
simulate-http-429-errors-percentage 2
simulate-http-500-errors 2
simulate-http-500-errors-percentage 2
simulate-http-502-errors 2
simulate-http-502-errors-percentage 2
simulate-http-503-errors 2
simulate-http-503-errors-percentage 2
simulate-http-504-errors 2
simulate-http-504-errors-percentage 2
simulate-http-522-errors 2
simulate-http-522-errors-percentage 2
simulate-http-524-errors 2
simulate-http-524-errors-percentage 2
simulate-http-protocol-errors 2
simulate-http-protocol-errors-percentage 2
simulate-http-timeout-errors 2
simulate-http-timeout-errors-percentage 2
slot-based-rate-limit-length-ms 2
slot-based-rate-limit-slots 2
Stage ID 17
stageid 17
Stages 18
standardize-identifiers 2
standardize-identifiers-casing 2
Start Date 19
State 16
Status 17
Street 15
Succesful 19
SUCCESSFUL 19

- T -

Teamleader Orbit 1, 15, 16, 17, 18, 19
teamleaderorbit 1
Timeout (sec) 19
TIMEOUT_SEC 19
Transaction ID 19
TRANSACTION_ID 19
Type 15

- U -

Updated at 15, 16
updated_at 15, 16
URL 19
Use HTTP Disk Cache 19
Use HTTP Memory Cache 19
use-batch-insert 2
use-http-disk-cache-read 2
use-http-disk-cache-write 2
use-http-memory-cache-read 2
use-http-memory-cache-write 2
Users 18

- V -

Value 17

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- W -

web_url 15, 16, 18
website 15
Website (URL) 15, 16, 18

- Z -

ZIP Code 15
zipcode 15

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