



Informatica® Data Integration - Free & PayGo

# Eloqua Bulk API Connector

© Copyright Informatica LLC 2017, 2023

This software and documentation are provided only under a separate license agreement containing restrictions on use and disclosure. No part of this document may be reproduced or transmitted in any form, by any means (electronic, photocopying, recording or otherwise) without prior consent of Informatica LLC.

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation is subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License.

Informatica, the Informatica logo, Informatica Cloud, and PowerCenter are trademarks or registered trademarks of Informatica LLC in the United States and many jurisdictions throughout the world. A current list of Informatica trademarks is available on the web at <https://www.informatica.com/trademarks.html>. Other company and product names may be trade names or trademarks of their respective owners.

Portions of this software and/or documentation are subject to copyright held by third parties. Required third party notices are included with the product.

See patents at <https://www.informatica.com/legal/patents.html>.

DISCLAIMER: Informatica LLC provides this documentation "as is" without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of noninfringement, merchantability, or use for a particular purpose. Informatica LLC does not warrant that this software or documentation is error free. The information provided in this software or documentation may include technical inaccuracies or typographical errors. The information in this software and documentation is subject to change at any time without notice.

#### NOTICES

This Informatica product (the "Software") includes certain drivers (the "DataDirect Drivers") from DataDirect Technologies, an operating company of Progress Software Corporation ("DataDirect") which are subject to the following terms and conditions:

1. THE DATADIRECT DRIVERS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.
2. IN NO EVENT WILL DATADIRECT OR ITS THIRD PARTY SUPPLIERS BE LIABLE TO THE END-USER CUSTOMER FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES ARISING OUT OF THE USE OF THE ODBC DRIVERS, WHETHER OR NOT INFORMED OF THE POSSIBILITIES OF DAMAGES IN ADVANCE. THESE LIMITATIONS APPLY TO ALL CAUSES OF ACTION, INCLUDING, WITHOUT LIMITATION, BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, MISREPRESENTATION AND OTHER TORTS.

The information in this documentation is subject to change without notice. If you find any problems in this documentation, report them to us at [infa\\_documentation@informatica.com](mailto:infa_documentation@informatica.com).

Informatica products are warranted according to the terms and conditions of the agreements under which they are provided. INFORMATICA PROVIDES THE INFORMATION IN THIS DOCUMENT "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

Publication Date: 2023-04-04

# Table of Contents

<b>Preface .....</b>	<b>4</b>
Informatica Resources. ....	4
Informatica Documentation. ....	4
Informatica Intelligent Cloud Services web site. ....	4
Informatica Intelligent Cloud Services Communities. ....	4
Informatica Intelligent Cloud Services Marketplace. ....	4
Data Integration connector documentation. ....	5
Informatica Knowledge Base. ....	5
Informatica Intelligent Cloud Services Trust Center. ....	5
Informatica Global Customer Support. ....	5
 <b>Chapter 1: Introduction to Eloqua Bulk API Connector.....</b>	<b>6</b>
Eloqua Bulk API objects and task operations. ....	6
 <b>Chapter 2: Eloqua Bulk API connection.....</b>	<b>7</b>
Eloqua Bulk API connection properties. ....	7
Activities or custom fields configuration. ....	8
Configuring the Eloqua custom object to add fields. ....	9
Rules and guidelines for adding custom fields. ....	14
Configuring the time zone offset attribute. ....	15
Rules and guidelines for Eloqua Bulk API Connector. ....	15
 <b>Chapter 3: Mappings and mapping tasks with Eloqua Bulk API Connector....</b>	<b>16</b>
Eloqua Bulk API sources in mappings. ....	16
 <b>Chapter 4: Troubleshooting.....</b>	<b>17</b>
Troubleshooting mapping task. ....	17
 <b>Index.....</b>	<b>19</b>

# Preface

Use the *Eloqua Bulk API Connector* to learn how to read from the Eloqua application using Data Integration. Learn to create an Eloqua Bulk API connection, develop and run mappings and mapping tasks in Data Integration.

## Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

### Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit <https://docs.informatica.com>.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at [infa\\_documentation@informatica.com](mailto:infa_documentation@informatica.com).

### Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at <http://www.informatica.com/cloud>. This site contains information about Informatica Cloud integration services.

### Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

<https://network.informatica.com/community/informatica-network/products/cloud-integration>

Developers can learn more and share tips at the Cloud Developer community:

<https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers>

### Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

<https://marketplace.informatica.com/>

## Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit <https://docs.informatica.com>.

## Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit <https://search.informatica.com>. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at [KB\\_Feedback@informatica.com](mailto:KB_Feedback@informatica.com).

## Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

You can access the trust center at <https://www.informatica.com/trust-center.html>.

Subscribe to the Informatica Intelligent Cloud Services Trust Center to receive upgrade, maintenance, and incident notifications. The [Informatica Intelligent Cloud Services Status](#) page displays the production status of all the Informatica cloud products. All maintenance updates are posted to this page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to receive updates for a single component or all Informatica Intelligent Cloud Services components. Subscribing to all components is the best way to be certain you never miss an update.

To subscribe, go to <https://status.informatica.com/> and click **SUBSCRIBE TO UPDATES**. You can then choose to receive notifications sent as emails, SMS text messages, webhooks, RSS feeds, or any combination of the four.

## Informatica Global Customer Support

You can contact a Customer Support Center by telephone or online.

For online support, click **Submit Support Request** in Informatica Intelligent Cloud Services. You can also use Online Support to log a case. Online Support requires a login. You can request a login at <https://network.informatica.com/welcome>.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at <https://www.informatica.com/services-and-training/support-services/contact-us.html>.

## CHAPTER 1

# Introduction to Eloqua Bulk API Connector

You can use Eloqua Bulk API Connector to read data from the Eloqua application. When you read data from the Eloqua application, you can specify the Hosted Agent or the Secure Agent.

## Eloqua Bulk API objects and task operations

When you use the Eloqua Bulk API Connector, you can include the following Data Integration assets:

- Data transfer task
- Mapping
- Mapping task

For more information about configuring assets and transformations, see *Mappings*, *Transformations*, and *Tasks* in the Data Integration documentation.

## CHAPTER 2

# Eloqua Bulk API connection

Create an Eloqua Bulk API connection before you create a mapping or a mapping task. Create an Eloqua Bulk API connection to read data from the Eloqua Bulk API Connector. When you create an Eloqua Bulk API connection, you enter properties specific to Eloqua Bulk API Connector.

## Eloqua Bulk API connection properties

When you create an Eloqua Bulk API connection, configure the connection properties.

The following table describes the Eloqua Bulk API connection properties:

Property	Description
Connection Name	Name of the connection. Each connection name must be unique within the organization. Connection names can contain alphanumeric characters, spaces, and the following special characters: _ . + -, Maximum length is 255 characters.
Description	Description of the connection. Maximum length is 4000 characters.
Type	The Eloqua Bulk API connection type.
Runtime Environment	The name of the runtime environment where you want to run the tasks. You can specify a Secure Agent or a Hosted Agent.
Base URL	The base URL to connect to the Eloqua application. Use one of the following format to specify the base URL: - https://secure.eloqua.com - https://<host>.eloqua.com/api/bulk/<version number> For the host, you can enter secure, www02.secure, or secure.p03 based on the pod that hosts the Eloqua instance. To determine the base URL to connect to the Eloqua application, see <a href="#">Determining Base URL</a> .
Authentication Type	The type of user authentication to connect to the Eloqua application.
Domain Name	The company name of your Eloqua application.
User name	The user name of your Eloqua account.
Password	The password for your Eloqua account.

Property	Description
Client ID	The client ID to complete the OAuth 2.0 authentication to connect to Eloqua. Applies if you select the OAuth 2.0 authentication type.
Client Secret	The client secret key to complete the OAuth 2.0 authentication to connect to Eloqua. Applies if you select the OAuth 2.0 authentication type.
Time Zone Offset	The time zone in the Eloqua application relative to GMT.
Enable Debug Logger	Enables the debug logger to register the SOAP request and response in the session log.
Fetch Data for Preview	Fetches the first 10 rows of the first five columns in an Eloqua Bulk API object for preview. Default is selected.
Activities or Custom Fields Configuration	The Activities object and custom fields of Contact and Account objects in sources and targets. Enter the Activities object and custom fields in JSON format.

## Activities or custom fields configuration

You can use Activities object and custom fields of Contact and Account objects in sources .

Add the metadata information in JSON format in the **Activities or Custom Fields Configuration** property under the Eloqua Bulk connection properties. The specification of Activities object and custom fields contains the following sections:

### Activities

Lists all the activities as a name-value pair, where the value is an array of field names. For example,

```
{ "EmailAddress", "johns@gmail.com" },
{ "FirstName", "Johns" }
```

### ActivityItem

Defines an array of fields. Each field has the following name-value pairs:

- **name:** Name of the field. The field name must be the same as the field name that you enter in the Activities section.
- **internalName:** Name of the field label. Displays the name and unique name.
- **datatype:** Data type of the field. Default is String data type. The activities or custom fields supports the following data types:
  - Number or Integer
  - Date or Timestamp
  - String
- **maxLength:** Maximum length or precision of the data type field.
- **hasReadOnlyConstraint:** Indicates whether the field is read only.
- **hasNotNullConstraint:** Indicates whether the field is mandatory.
- **hasUniquenessConstraint:** Indicates whether the field is a key.
- **statement:** The statement used in Eloqua REST request.



### ContactItem

Defines an array of Contact custom fields. Each field has a name-value pair for the ActivityItem section.

### AccountItem

Defines an array of Account custom fields. Each field has a name-value pair for the ActivityItem section.

## Configuring the Eloqua custom object to add fields

Perform the following steps to add the fields that are not part of standard fields in a custom object.

1. Edit the Eloqua Bulk connection.
2. In the **Activities or Custom fields Configuration** connection attribute, add the following JSON element to the JSON template available in the connection attribute:

```
"CustomObjects" : {
  "CO_CustomObject1": ["MappedEntityId", "UniqueId"],
  "CO_CustomObject2": ["MappedEntityId", "UniqueId"]
}
```

where CO\_CustomObject1 and CO\_CustomObject2 are the names of custom objects and MappedEntityId and UniqueId are the fields.

3. Now add the following field details to the JSON template:

These are the details of the fields that you defined in the CustomObjects element added in previous step.

```
"CustomItem": [
  {
    "name": "MappedEntityId",
    "internalName": "MappedEntityId",
    "dataType": "integer",
    "hasReadOnlyConstraint": true,
    "hasNotNullConstraint": false,
    "hasUniquenessConstraint": true,
    "statement": "{{CustomObject[id].MappedEntityId}}"
  },
  {
    "name": "UniqueId",
    "internalName": "UniqueId",
    "dataType": "integer",
    "hasReadOnlyConstraint": true,
    "hasNotNullConstraint": false,
    "hasUniquenessConstraint": true,
    "statement": "{{CustomObject[id].UniqueId}}"
  }
]
```

After adding the above details, confirm that the JSON structure is valid.

4. Click **Test Connection**.
5. Click **Save**.

**Note:** When you use the connection in a new mapping, the fields that you defined in the JSON template appear in the mapping. For an existing mapping from an earlier release, you must refresh the field mapping and map to the target.

6. For an existing mapping, if the above defined fields are required then refresh the field mapping, and map to the target.

The following example shows a sample Activities or Custom fields Configuration:

```
{
  "Activities": {
    "EmailOpen": ["ActivityId", "ActivityType", "ActivityDate", "EmailAddress",
    "ContactId", "IpAddress", "VisitorId", "EmailRecipientId", "AssetType", "AssetName",
    "AssetId", "SubjectLine", "EmailWebLink", "VisitorExternalId", "CampaignId",
```

```

"ExternalId", "DeploymentId", "EmailSendType"],
  "EmailClickthrough": ["ActivityId", "ActivityType", "ActivityDate",
    "EmailAddress", "ContactId", "IpAddress", "VisitorId", "EmailRecipientId",
    "AssetType", "AssetName", "AssetId", "SubjectLine", "EmailWebLink",
    "EmailClickedThruLink", "VisitorExternalId", "CampaignId", "ExternalId",
    "DeploymentId", "EmailSendType"],
  "EmailSend": ["ActivityId", "ActivityType", "ActivityDate", "EmailAddress",
    "ContactId", "EmailRecipientId", "AssetType", "AssetId", "AssetName", "SubjectLine",
    "EmailWebLink", "CampaignId", "ExternalId", "DeploymentId", "EmailSendType"],
  "Subscribe": ["ActivityId", "ActivityType", "AssetId", "ActivityDate",
    "EmailAddress", "EmailRecipientId", "AssetType", "AssetName", "CampaignId",
    "ExternalId"],
  "Unsubscribe": ["ActivityId", "ActivityType", "AssetId", "ActivityDate",
    "EmailAddress", "EmailRecipientId", "AssetType", "AssetName", "CampaignId",
    "ExternalId"],
  "Bounceback": ["ActivityId", "ActivityType", "AssetId", "ActivityDate",
    "EmailAddress", "AssetType", "AssetName", "CampaignId", "ExternalId"],
  "WebVisit": ["ActivityId", "ActivityType", "ActivityDate", "ContactId",
    "VisitorId", "VisitorExternalId", "ReferrerUrl", "IpAddress", "NumberOfPages",
    "FirstPageViewUrl", "Duration", "ExternalId"],
  "PageView": ["ActivityId", "ActivityType", "ActivityDate", "ContactId",
    "CampaignId", "VisitorId", "VisitorExternalId", "WebVisitId", "Url", "ReferrerUrl",
    "IpAddress", "IsWebTrackingOptedIn", "ExternalId"],
  "FormSubmit": ["ActivityId", "ActivityType", "ActivityDate", "ContactId",
    "VisitorId", "VisitorExternalId", "AssetType", "AssetId", "AssetName", "RawData",
    "CampaignId", "ExternalId"]
},
"CustomObjects": {
  "CO_CustomObject1": ["MappedEntityId", "UniqueId"],
  "CO_CustomObject2": ["MappedEntityId", "UniqueId"]
},
"ActivityItem": [{
  "name": "ActivityId",
  "internalName": "ActivityId",
  "dataType": "integer",
  "hasReadOnlyConstraint": true,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": true,
  "statement": "{{Activity.Id}}"
},
{
  "name": "ActivityType",
  "internalName": "ActivityType",
  "dataType": "string",
  "maxLength": 100,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Type}}"
},
{
  "name": "ActivityDate",
  "internalName": "ActivityDate",
  "dataType": "date",
  "hasReadOnlyConstraint": true,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.CreatedAt}}"
},
{
  "name": "EmailAddress",
  "internalName": "EmailAddress",
  "dataType": "emailAddress",
  "maxLength": 400,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Field(EmailAddress) }}"
}
],

```

```

{
  "name": "ContactId",
  "internalName": "ContactId",
  "dataType": "integer",
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Contact.Id}}"
},
{
  "name": "IpAddress",
  "internalName": "IpAddress",
  "dataType": "string",
  "maxLength": 50,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Field(IpAddress)}}"
},
{
  "name": "VisitorId",
  "internalName": "VisitorId",
  "dataType": "integer",
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Visitor.Id}}"
},
{
  "name": "EmailRecipientId",
  "internalName": "EmailRecipientId",
  "dataType": "string",
  "maxLength": 38,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Field(EmailRecipientId)}}"
},
{
  "name": "AssetType",
  "internalName": "AssetType",
  "dataType": "string",
  "maxLength": 100,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Asset.Type}}"
},
{
  "name": "AssetName",
  "internalName": "AssetName",
  "dataType": "string",
  "maxLength": 100,
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Asset.Name}}"
},
{
  "name": "AssetId",
  "internalName": "AssetId",
  "dataType": "integer",
  "hasReadOnlyConstraint": false,
  "hasNotNullConstraint": false,
  "hasUniquenessConstraint": false,
  "statement": "{{Activity.Asset.Id}}"
},
{
  "name": "SubjectLine",

```

```

        "internalName": "SubjectLine",
        "dataType": "string",
        "maxLength": 500,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(SubjectLine)}}"
    },
    {
        "name": "EmailWebLink",
        "internalName": "EmailWebLink",
        "dataType": "string",
        "maxLength": 8192,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(EmailWebLink)}}"
    },
    {
        "name": "VisitorExternalId",
        "internalName": "VisitorExternalId",
        "dataType": "string",
        "maxLength": 38,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Visitor.ExternalId}}"
    },
    {
        "name": "CampaignId",
        "internalName": "CampaignId",
        "dataType": "integer",
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Campaign.Id}}"
    },
    {
        "name": "ExternalId",
        "internalName": "ExternalId",
        "dataType": "string",
        "maxLength": 20,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.ExternalId}}"
    },
    {
        "name": "DeploymentId",
        "internalName": "DeploymentId",
        "dataType": "integer",
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(EmailDeploymentId)}}"
    },
    {
        "name": "EmailSendType",
        "internalName": "EmailSendType",
        "dataType": "string",
        "maxLength": 100,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(EmailSendType)}}"
    },
    {
        "name": "EmailClickedThruLink",
        "internalName": "EmailClickedThruLink",

```

```

        "dataType": "string",
        "maxLength": 8192,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(EmailClickedThruLink)}}",
    },
    {
        "name": "RawData",
        "internalName": "RawData",
        "dataType": "string",
        "maxLength": 64000,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(RawData)}}",
    },
    {
        "name": "ReferrerUrl",
        "internalName": "ReferrerUrl",
        "dataType": "string",
        "maxLength": 8192,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(ReferrerUrl)}}",
    },
    {
        "name": "WebVisitId",
        "internalName": "WebVisitId",
        "dataType": "integer",
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(WebVisitId)}}",
    },
    {
        "name": "Url",
        "internalName": "Url",
        "dataType": "string",
        "maxLength": 8192,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(Url)}}",
    },
    {
        "name": "IsWebTrackingOptedIn",
        "internalName": "IsWebTrackingOptedIn",
        "dataType": "boolean",
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(IsWebTrackingOptedIn)}}",
    },
    {
        "name": "NumberOfPages",
        "internalName": "NumberOfPages",
        "dataType": "integer",
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(NumberOfPages)}}",
    },
    {
        "name": "FirstPageViewUrl",
        "internalName": "FirstPageViewUrl",
        "dataType": "string",
        "maxLength": 8192,

```

```

        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(FirstPageViewUrl)}}"
    },
    {
        "name": "Duration",
        "internalName": "Duration",
        "dataType": "string",
        "maxLength": 100,
        "hasReadOnlyConstraint": false,
        "hasNotNullConstraint": false,
        "hasUniquenessConstraint": false,
        "statement": "{{Activity.Field(Duration)}}"
    }
],
"ContactItem": [{
    "name": "ContactId",
    "internalName": "ContactId",
    "dataType": "integer",
    "hasReadOnlyConstraint": true,
    "hasNotNullConstraint": false,
    "hasUniquenessConstraint": true,
    "statement": "{{Contact.Id}}"
}],
"AccountItem": [],
"CustomItem": [{
    "name": "MappedEntityId",
    "internalName": "MappedEntityId",
    "dataType": "integer",
    "hasReadOnlyConstraint": true,
    "hasNotNullConstraint": false,
    "hasUniquenessConstraint": true,
    "statement": "{{CustomObject[id].MappedEntityId}}"
},
{
    "name": "UniqueId",
    "internalName": "UniqueId",
    "dataType": "integer",
    "hasReadOnlyConstraint": true,
    "hasNotNullConstraint": false,
    "hasUniquenessConstraint": true,
    "statement": "{{CustomObject[id].UniqueId}}"
}
]
}

```

## Rules and guidelines for adding custom fields

You must follow the following guidelines while adding the custom fields:

- The configuration must be in JSON format.
- The structure must start with an anonymous root. For example,

```

{
  "address" : { "city": "city name", "state": "state name", }
}

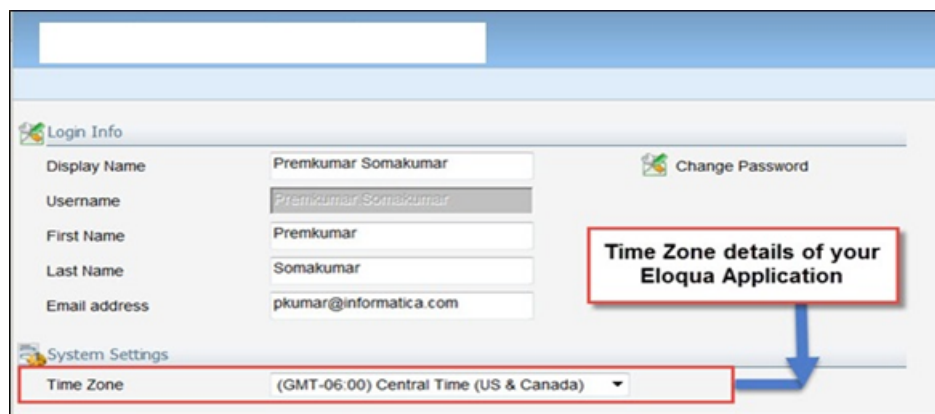
```

# Configuring the time zone offset attribute

The time zone configured in connection must synchronize with the time zone of your Eloqua application. This helps in the proper functioning of incremental filters. You can use the following procedure to configure the time zone of your Eloqua application:

1. Login to Eloqua application account.
2. Click **Setup**.
3. Select **My Settings**.  
The My Settings page appears.
4. Click **Edit Agent Settings** and perform the required changes.

The following image shows an example of Eloqua time zone:

The image is a screenshot of the Eloqua 'My Settings' page. It features a 'Login Info' section with fields for Display Name, Username, First Name, Last Name, and Email address, all populated with 'Premkumar Somakumar' or 'pkumar@informatica.com'. A 'Change Password' link is also present. Below this is the 'System Settings' section, where the 'Time Zone' is set to '(GMT-06:00) Central Time (US & Canada)'. A red box highlights the 'Time Zone' field, and a blue arrow points from a text box labeled 'Time Zone details of your Eloqua Application' to this field.

For example, if the time zone of Eloqua application is GMT+06:00, you need to enter +06:00 in this field.

**Note:** During the daylight savings, mention the time as per the following example: For example, if the time zone is GMT-06:00, you need to enter -06:00 in this field.

## Rules and guidelines for Eloqua Bulk API Connector

Consider the following rules and guidelines for Eloqua Bulk API connections:

- When you enable debug logger in the connection, you cannot see the request in the session logs.
- The list of filter fields include fields that are not filterable. Exception occurs when you select a field that is not filterable.
- Eloqua Bulk API Connector does not support advanced data filters.

## CHAPTER 3

# Mappings and mapping tasks with Eloqua Bulk API Connector

Use the Data Integration Mapping Designer to create a mapping. When you create a mapping, you configure the source to represent the object.

## Eloqua Bulk API sources in mappings

You can use an Eloqua Bulk API object as a single source in a mapping.

You configure Eloqua Bulk API source properties on the **Source** page of the Mapping Task wizard.

The following table describes the Eloqua Bulk API source properties:

Property	Description
Page Size	The field signifies the maximum number of records in a page.
Auto Delete of Definitions	When you enable the Auto Delete of Definitions option, the Secure Agent deletes the definitions after the duration specified by Eloqua Bulk API 2.0.
Duration for Auto Delete of Definitions	When you do not enable the Auto Delete of Definitions option, specify a value in this field. The Secure Agent uses the value you specify to delete the definitions. If you do not enable the Auto Delete of Definitions option and do not provide any value for duration of deleting the definitions automatically, the default value is P7D, which stands for seven days.
Duration for Data Retention	When you do not enable the Auto Delete of Definitions option, specify a value in this field. The Secure Agent uses the value you specify to retain the data definitions. If you do not enable the Auto Delete of Definitions option and do not provide any value for duration of retaining the data, the default value is P2D, which stands for two days.



## CHAPTER 4

# Troubleshooting

When you use the Eloqua Bulk API Connector to create a connection to perform a task, you may encounter the following scenarios where the task does not run as expected. You can troubleshoot the issues from the following solutions provided.

## Troubleshooting mapping task

**When you run an Eloqua Bulk API mapping task, the Secure Agent does not convert the `$LastRunTime` variable based on the UTC time zone you specify in the Time Zone Offset field in the connection properties.**

To solve this issue, you must add the `filterWithGivenUTCTimeZone` property and set the value as true in the `pmdtm.cfg` and `tomcat.cfg` files.

To set the value of the `filterWithGivenUTCTimeZone` property, perform the following steps:

1. In Administrator, select **Runtime Environments**.  
The **Runtime Environments** page appears.
2. Select the Secure Agent for which you want to set the `filterWithGivenUTCTimeZone` property from the list of available Secure Agents.
3. In the upper-right corner, click **Edit**.
4. Select **System Configuration Details** in the **Custom Configuration Details** section.
5. Select the **Service** as **Data Integration Server** and **Type** as **DTM**.
6. Add `filterWithGivenUTCTimeZone` in the **Name** field and set the **Value** as true.
7. Click **+** icon to add another custom configuration property.
8. Select the **Service** as **Data Integration Server** and **Type** as **Tomcat**.
9. Add `filterWithGivenUTCTimeZone` in the **Name** field and set the **Value** as true.

The following image shows the **Custom Configuration Details** section:

Custom Configuration Details

Updated On: Sep 26, 2017 12:08:46 PM

Service	Type	Sub-type	Name	Value	
Data Integration Server	DTM		filterWithGivenUTCTimeZone	true	+ X
Data Integration Server	Tomcat		filterWithGivenUTCTimeZone	true	+ X

10. Restart the Secure Agent.
11. In the Eloqua Bulk API connection, set the **Time Zone Offset** property to Eloqua supported time zone.

12. Click **Save** to save the connection.

When you set the `filterWithGivenUTCTimeZone` property to true and run a task, the Secure Agent considers the UTC time zone you specify in the **Time Zone Offset** field regardless of whether you use a normal filter or filter with `$LastRuntime` variable.

When you set the `filterWithGivenUTCTimeZone` property to false and run a mapping task, the Secure Agent does not consider the UTC time zone you specify in the **Time Zone Offset** field regardless of whether you use a normal filter or filter with `$LastRuntime` variable.

# INDEX

## A

activities or custom fields  
configuration [8](#)  
adding custom fields  
rules and guidelines [14](#)

## C

Cloud Application Integration community  
URL [4](#)  
Cloud Developer community  
URL [4](#)  
connections  
Eloqua Bulk API [7](#)

## D

Data Integration community  
URL [4](#)

## E

Eloqua Bulk API  
connection properties [7](#)  
objects [6](#)  
task operations [6](#)  
Eloqua Bulk API Connector  
administration [17](#)

## I

Informatica Global Customer Support  
contact information [5](#)

Informatica Intelligent Cloud Services  
web site [4](#)

## M

maintenance outages [5](#)

## S

status  
Informatica Intelligent Cloud Services [5](#)  
system status [5](#)

## T

trust site  
description [5](#)

## U

upgrade notifications [5](#)

## W

web site [4](#)