

How to use the Customer Importer

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Customer On-boarding

The Customer Importer service supports the uploading of customer data into the system with no manual intervention. This data covers Users, Counterparties, Mandated Users and CounterpartyImportIDs.

Note that this document has been written with the assumption that acknowledgements are required for each received customer import message.

1. Services.properties

To support the new Customer Importer service, add the following service to **services.properties**:

```
# Customer Importer
service38 = Customer Importer
service38.startClass=com.eurobase.siena.link.daemon.apps.TwistContainerL
auncher
service38.endClass=com.eurobase.siena.link.daemon.apps.TwistContainerKil
ler
service38.defaultLoc={hostName}
service38.timeout = 300
service38.stream = CustomerImporter
service38.args = Jvm|{javaExe} -DCustomerImporter -
Deurobase.logger.domain=CustomerImporter -XX:+HeapDumpOnOutOfMemoryError
Dcom.eurobase.common.io.Loader.reportLoadFrom=y -
DlogServer.sendToStdErr=Y -Dcom.sun.management.jmxremote.port=9113 -
Dcom.sun.management.jmxremote.ssl=false -
Dcom.sun.management.jmxremote.authenticate=false -
Deurobase.class.path=siena.dataimporter.class.path -Xms64M -Xmx128M -
Djava.awt.headless=true -Dfile.encoding={fileEncoding} -
Dsiena.working={systemPath}/data,
ProcessList|CustomerImporterHandler=True
service38.panelName=TwistContainer
```

A text file has been provided containing the text to be inserted.

Note:

- Change **service38** to the next available service number in the services.properties file
- The port number above (9113) should be reviewed and set to a suitable available port.

2. externalInterface.properties

In support of the new Customer Importer service, add the following entry to **externalInterface.properties**:

```
external.interface.name=ExternalCustomerImporter
#external.interface.ExternalCustomerImporter=com.eurobase.siena.external
.implementation.jms.JmsPeerExternalSystem
external.interface.ExternalCustomerImporter=com.eurobase.external.support
t.FileReader
```

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If JMS is to be used:

- Uncomment the JmsPeerExternalSystem line and
- Comment out the FileReader line

3. genericTwistPanel.properties

In support of the new Customer Importer service, add to the **remoteServiceList=** line in **genericTwistPanel.properties**:

```
,CustomerImporter
```

4. twist_CustomerImporter.properties

In support of the new Customer Importer service, create a new **twist_CustomerImporter.properties** file in the <system>/config folder with the following content:

```
# -----
# -- External Interfaces
# -----

# -----
# -- Customer Import Source
# -----
twist.external.interface.1=ExternalCustomerImporter
twist.external.interface.ExternalCustomerImporter.translator.class=com.eurobase.external.support.ConfigXSLTTranslator
#twist.external.interface.ExternalCustomerImporter.translator.class=com.eurobase.external.core.PassThroughTranslator
twist.external.interface.ExternalCustomerImporter.throwUserError=y
twist.external.interface.ExternalCustomerImporter.lazyLoad=n

twist.external.interface.ExternalCustomerImporter.parameter.1=importDir=${siena.working}/customerdata_in
twist.external.interface.ExternalCustomerImporter.parameter.2=exportDir=${siena.working}/customerdata_out
twist.external.interface.ExternalCustomerImporter.parameter.3=xsltPath=customerimporter.xsl
twist.external.interface.ExternalCustomerImporter.parameter.4=pollTime=1000
twist.external.interface.ExternalCustomerImporter.parameter.5=jmsConfigFile=jmsConfig.xml
twist.external.interface.ExternalCustomerImporter.parameter.6=jmsClient=CustomerImporter

# -----
# -- Business Apps
# -----
twist.application.1=CustomerImporterHandler
#twist.application.CustomerImportHandler.class=com.eurobase.siena.twist.implementation.siena.dataimporter.StaticDataImporter
twist.application.CustomerImporterHandler.class=com.eurobase.twistmanager.twist.application.ack.AckApplication
```

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```
twist.application.CustomerImporterHandler.parameter.1=childApp=com.eurobase.siena.twist.implementation.siena.dataimporter.StaticDataImporter
twist.application.CustomerImporterHandler.parameter.2=configName=dataImportAckMap.xml
twist.application.CustomerImporterHandler.interface.name.1=ExternalCustomerImporter
twist.application.CustomerImporterHandler.autoLoad=y

# -----
# -- Twist Manager config
# -----
twist.config.shutdownTimeout=60000
twist.config.messageLogger.class=com.eurobase.siena.twist.implementation.siena.support.SimpleMessageLogger
twist.config.messageLogger.dir=${siena.working}/twist/logs
twist.config.messageLogger.enabled=y
twist.config.errorLevel=ERROR, WARN, FATAL, INFO, DEBUG
```

A `twist_CustomerImporter.properties` file has been provided containing the text above.

5. Receiving XML over JMS

The following details what is required to receive customer import messages over JMS and assumes a JMS connection is already configured and working.

Edit `externalInterface.properties` so that the `ExternalCustomerImporter` is configured for JMS:

```
external.interface.name=ExternalCustomerImporter
external.interface.ExternalCustomerImporter=com.eurobase.siena.external.implementation.jms.JmsPeerExternalSystem
#external.interface.ExternalCustomerImporter=com.eurobase.external.support.FileReader
```

Edit `jmsConfig.xml` to add an entry for a JMS peer connection:

```
<client id="CustomerImporter">
  <!-- Reference within XML to existing
    Authentication
  -->
  <auth href="tibcoauth"/>
  <!-- Reference within XML to existing
    context
  -->
  <context href="tibcocontext"/>
  <!-- Reference within XML to existing
    environment configuration
  -->
  <env href="tibcoenv"/>
  <clientType>PEER_TO_PEER</clientType>

  <connectionFactory>QueueConnectionFactory</connectionFactory>
  <receiveQueue>ENTER.RECEIVE.QUEUE.HERE</receiveQueue>
  <sendQueue>ENTER.SEND.QUEUE.HERE</sendQueue>
```

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</client>

The above is referenced in **twist_CustomerImporter.properties** as 'CustomerImporter'.

Note that the 'sendQueue' above will be used to send an acknowledgement.

6. Customer Upload XML File Formats

Examples illustrating the file formats used to upload customer data are shown below. The records are processed in the order in the file; note that if a referenced record is being inserted by the same file as a record that refers to it, the referenced record *must come before* the referring record otherwise it will result in a business failure. For example if a file contains a User record that refers to a Counterparty record, the Counterparty record must come before the User record that refers to it.

As such the data should be provided in the following order:

- Counterparty Data
- User Data

The formats below are the same for the upload of new entities and for amendments to existing entities.

Counterparty Data

An example of the format of counterparty data is shown below. This will create/update:

- Firm **COMPA**
- Counterparty **COMPA LRG**
- An associated CounterpartyImportID with a key of **StaticDataImporterIDCOMPA**

```
<?xml version="1.0" encoding="iso-8859-1"?>
<COUNTERPARTYS>
  <COUNTERPARTY>
    <NAME>COMPA</NAME>
    <FULLNAME>COMPA full name</FULLNAME>
    <COUNTRY>ZA</COUNTRY>
    <SECTOR>Business</SECTOR>
    <ADDRESS>Address of COMPA</ADDRESS>
    <TELEPHONENUMBER>1234567890</TELEPHONENUMBER>
    <CUSTOMERTYPE>Corporate</CUSTOMERTYPE>
    <FAXNUMBER>987654321</FAXNUMBER >
    <COUNTERPARTYIDSOURCE>StaticDataImporter</COUNTERPARTYIDSOURCE>
    <COUNTERPARTYID>IDCOMPA</COUNTERPARTYID>
  </COUNTERPARTY>
</COUNTERPARTYS>
```

Notes:

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- The following types of record are inserted/updated from the **<COUNTERPARTY>** node:
 - Firm
 - Counterparty
 - CounterpartyImportID
- The **<NAME>** field should contain just the 'Firm' short name of the Counterparty. The Centre is automatically set according to the Centre variable in the xsl
- The **<CUSTOMERTYPE>** field can be set to any of the following valid values, as required:
 - "Corporate"
 - "Interbank"
 - "Settlement"
- The **<COUNTERPARTYIDSOURCE>** and **<COUNTERPARTYID>** fields are used to create the CounterpartyImportID record – these two fields provide the key of that record.
- The Centre is set via an entry in the xsl file. For example:


```
<xsl:variable name="CENTRE">LRG</xsl:variable>
```

To set the Centre of the Counterparties to be the Centre of your choice, you will need to modify this variable in the customerimporter.xsl file as required.

- The outer **<COUNTERPARTYS>** node can contain as many **<COUNTERPARTY>** nodes as required

User Data

An example of the format of user data is shown below. This will create/update:

- User **LiteTest1**, associated with Counterparty **COMPA LRG**
- An associated MandatedUser record

```
<?xml version="1.0" encoding="iso-8859-1"?>
<USERS>
  <USER>
    <NAME>LiteTest1</NAME>
    <SOURCEUSER>LiteUserTemplate</SOURCEUSER>
    <FULLNAME>LiteTest1 Full Name</FULLNAME>
    <EMAILADDRESS>test1@rmb.co.za</EMAILADDRESS>
    <ENABLED>true</ENABLED>
    <LANGUAGE>en_GB</LANGUAGE>
    <TELEPHONENUMBER>02081234567</TELEPHONENUMBER>
    <COUNTERPARTY>COMPA</COUNTERPARTY>
    <CURRENCY>ZAR</CURRENCY>
    <CURRENCYPAIR>USDZAR</CURRENCYPAIR>
    <MMESPMODE>Disabled</MMESPMODE>
    <GROUPS>
      <GROUP>AccelerateLite</GROUP>
    </GROUPS>
  </USER>
</USERS>
```

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```
<GROUP>LicenceEtrader</GROUP>
</GROUPS>
<MANDATEDUSER>
  <NAME>LiteTest1 Full Name</NAME>
  <TYPE>Both</TYPE>
  <TELEPHONENUMBER>1234567890</TELEPHONENUMBER>
  <EMAILADDRESS>test1@rmb.co.za</EMAILADDRESS>
  <NOTIFY>true</NOTIFY>
  <ACTIVE>true</ACTIVE>
</MANDATEDUSER>
</USER>
</USERS>
```

Notes:

- The following types of record are inserted/updated from the **<USER>** node:
 - User
 - MandatedUser
- The **<SOURCEUSER>** field should be set to the template User. The new User will be created as a copy of a template User, and the fields provided in the import file will override those inherited from the template user, where provided.
- The password of new users is set to the password of the template user. The new users are forced to change their password on the first login.
- The **<COUNTERPARTY>** field should be set to the **Firm** name of the Trading Entity to which the User belongs
- The **<GROUPS>** node is optional and can contain multiple **<GROUP>** fields, one for each Group to which the User belongs. If the Groups node is left empty then the new User will inherit the Groups to which the template user belongs.
- The valid values for the **<MMESPMODE>** field are:
 - Disabled
 - Depos Only
 - Loan & Deposit

In this case the special character "&" must be represented by the sequence "&";
- The **System User** field of the resulting Mandated User record is set to the user identified by the **<NAME>** field of the enveloping User node
- The outer **<USERS>** node can contain as many **<USER>** nodes as required

Counterparty and User Data

Where an upload file is required to provide information on both Counterparty & User data, an outer node is required to envelope all the Counterparty & User data, as shown below in the example below of an upload file that contains data on two counterparties and three users. This will create/update:

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- Firm **Comp1**
- Counterparty **Comp1 LRG**
- An associated CounterpartyImportID with a key of **StaticDataImporterIDComp1**
- Firm **Comp2**
- Counterparty **Comp2 LRG**
- An associated CounterpartyImportID with a key of **StaticDataImporterIDComp2**
- User **Comp1User1**, associated with Counterparty **Comp1 LRG**, with an associated Mandated User
- User **Comp2User1**, associated with Counterparty **Comp2 LRG**, with an associated Mandated User
- User **Comp1User2**, associated with Counterparty **Comp1 LRG**, with an associated Mandated User

```
<?xml version="1.0" encoding="iso-8859-1"?>
<RECORDS>
  <COUNTERPARTYS>
    <COUNTERPARTY>
      <NAME>Comp1</NAME>
      <FULLNAME>Comp1 fullname</FULLNAME>
      <COUNTRY>ZA</COUNTRY>
      <SECTOR>Business</SECTOR>
      <ADDRESS>Address Comp1</ADDRESS>
      <TELEPHONENUMBER>123456789</TELEPHONENUMBER>
      <FAXNUMBER>987654321</FAXNUMBER >
      <COUNTERPARTYIDSOURCE>StaticDataImporter</COUNTERPARTYIDSOURCE>
      <COUNTERPARTYID>IDComp1</COUNTERPARTYID>
    </COUNTERPARTY>
    <COUNTERPARTY>
      <NAME>Comp2</NAME>
      <FULLNAME>Comp2 fullname</FULLNAME>
      <COUNTRY>ZA</COUNTRY>
      <SECTOR>Business</SECTOR>
      <ADDRESS>Address Comp2</ADDRESS>
      <TELEPHONENUMBER>123456789</TELEPHONENUMBER>
      <FAXNUMBER>987654321</FAXNUMBER >
      <COUNTERPARTYIDSOURCE>StaticDataImporter</COUNTERPARTYIDSOURCE>
      <COUNTERPARTYID>IDComp2</COUNTERPARTYID>
    </COUNTERPARTY>
  </COUNTERPARTYS>
  <USERS>
    <USER>
      <NAME>Comp1User1</NAME>
      <SOURCEUSER>LiteUserTemplate</SOURCEUSER>
      <FULLNAME>Comp1User1 Full Name</FULLNAME>
      <EMAILADDRESS>Comp1User1@rmb.co.za</EMAILADDRESS>
      <ENABLED>true</ENABLED>
      <LANGUAGE>en_GB</LANGUAGE>
```


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```

<TELEPHONENUMBER>0208123456</TELEPHONENUMBER>
<COUNTERPARTY>Comp1</COUNTERPARTY>
<CURRENCY>ZAR</CURRENCY>
<CURRENCYPAIR>USDZAR</CURRENCYPAIR>
<MMESPMODE>Disabled</MMESPMODE>
<GROUPS>
  <GROUP>AccelerateLite</GROUP>
  <GROUP>LicenceEtrader</GROUP>
</GROUPS>
<MANDATEDUSER>
  <NAME>Comp1User1 Full Name</NAME>
  <TYPE>Both</TYPE>
  <TELEPHONENUMBER>123456789</TELEPHONENUMBER>
  <EMAILADDRESS>Comp1User1@rmb.co.za</EMAILADDRESS>
  <NOTIFY>true</NOTIFY>
  <ACTIVE>true</ACTIVE>
</MANDATEDUSER>
</USER>
<USER>
  <NAME>Comp2User1</NAME>
  <SOURCEUSER>LiteUserTemplate</SOURCEUSER>
  <FULLNAME>Comp2User1 Full Name</FULLNAME>
  <EMAILADDRESS>Comp2User1@rmb.co.za</EMAILADDRESS>
  <ENABLED>true</ENABLED>
  <LANGUAGE>en_GB</LANGUAGE>
  <TELEPHONENUMBER>0208123456</TELEPHONENUMBER>
  <COUNTERPARTY>Comp2</COUNTERPARTY>
  <CURRENCY>ZAR</CURRENCY>
  <CURRENCYPAIR>USDZAR</CURRENCYPAIR>
  <MMESPMODE>Disabled</MMESPMODE>
  <GROUPS>
    <GROUP>AccelerateLite</GROUP>
    <GROUP>LicenceEtrader</GROUP>
  </GROUPS>
  <MANDATEDUSER>
    <NAME>Comp2User1 Full Name</NAME>
    <TYPE>Both</TYPE>
    <TELEPHONENUMBER>123456789</TELEPHONENUMBER>
    <EMAILADDRESS>Comp2User1@rmb.co.za</EMAILADDRESS>
    <NOTIFY>true</NOTIFY>
    <ACTIVE>true</ACTIVE>
  </MANDATEDUSER>
</USER>
<USER>
  <NAME>Comp1User2</NAME>
  <SOURCEUSER>LiteUserTemplate</SOURCEUSER>
  <FULLNAME>Comp1User2 Full Name</FULLNAME>
  <EMAILADDRESS>Comp1User2@rmb.co.za</EMAILADDRESS>
  <ENABLED>true</ENABLED>
  <LANGUAGE>en_GB</LANGUAGE>

```

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```
<TELEPHONENUMBER>0208123456</TELEPHONENUMBER>
<COUNTERPARTY>Comp1</COUNTERPARTY>
<CURRENCY>ZAR</CURRENCY>
<CURRENCYPAIR>USDZAR</CURRENCYPAIR>
<MMESPMODE>Disabled</MMESPMODE>
<GROUPS>
  <GROUP>AccelerateLite</GROUP>
  <GROUP>LicenceEtrader</GROUP>
</GROUPS>
<MANDATEDUSER>
  <NAME>Comp1User2 Full Name</NAME>
  <TYPE>Both</TYPE>
  <TELEPHONENUMBER>123456789</TELEPHONENUMBER>
  <EMAILADDRESS>Comp1User2@rmb.co.za</EMAILADDRESS>
  <NOTIFY>true</NOTIFY>
  <ACTIVE>true</ACTIVE>
</MANDATEDUSER>
</USER>
</USERS>
</RECORDS>
```