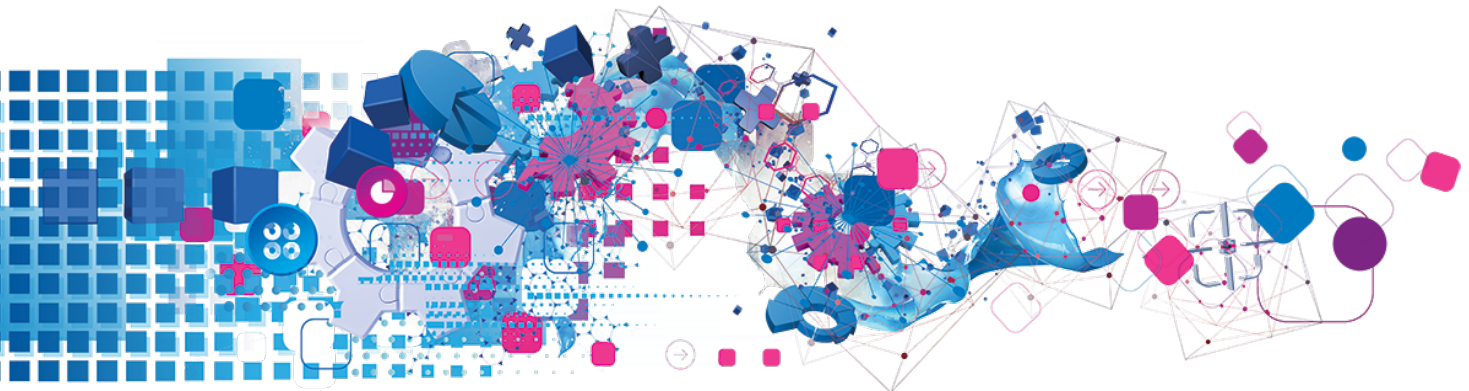# Experian Data Quality for SAP ECC 6

Installation, Integration, and Configuration Guide

Version: **7**

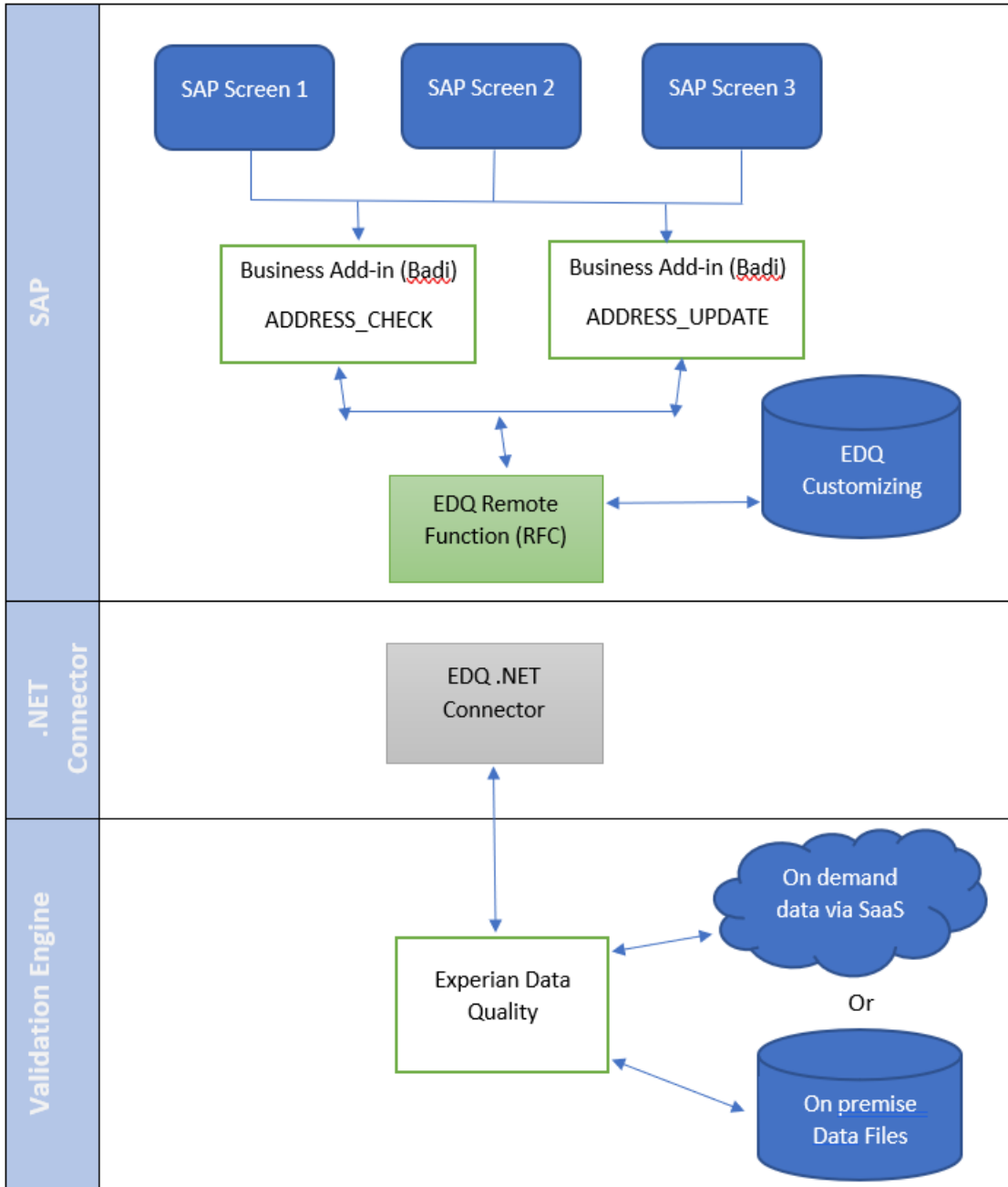Last updated: **July 2020**

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SAP	SAP Screen 1 SAP Screen 2 SAP Screen 3 Business Add-in (Badi) **ADDRESS_CHECK** Business Add-in (Badi) **ADDRESS_UPDATE** EDQ Remote Function (RFC) EDQ Customizing
.NET Connector	EDQ .NET Connector
Validation Engine	Experian Data Quality On demand data via SaaS Or On premise Data Files

2 Install, configure, and integrate the solution

2.1 Add address layouts to your Experian Pro solution

First, configure the Experian Pro Solution you installed previously (Pro Web and Batch) using the following steps.

> **REAL-TIME ADDRESS VALIDATION LAYOUT:**

1. Click on the Experian Data Quality for SAP ECC 6 installation image and open the **Pro Web Layouts** folder.

2. Open the **qawserve sections.txt** file with a text editor.

3. Copy the contents of the file (**Ctrl+A** and **Ctrl+C**).

4. Navigate to the Pro installation directory (default location: C:\Program Files\QAS\QAS Pro Web 7.25

5. (or 7.15).

6. Open the **qawserve.ini** file with a text editor.

7. At the end of the file, insert a new line by pressing **Ente**r. Then, paste the contents which were copied during step 3 (**Ctrl+V**).

8. Save all changes.

9. Allow the changes to take effect by restarting Pro Web:

10. Navigate to **Windows Control Panel** > **Administrative Tools** > **Services**.

11. Scroll to **QAS Pro Web Server x.xx** (**x.xx** is the version number of your Pro Web installation).

12. Right-click the service and select **Restart**.

13. Once the Pro Web service has started, navigate to **Start** > **QAS Pro Web 7.25** (or **7.15**) > **Test Harness**.

14. Enter **#d** to see installed datasets.

15. If you are configuring multiple countries, enter **#d<country number>** to switch to the required

16. country. Example: **#d 1**.

17. Enter **#l** to see a list of layouts. The SAP layout should appear in this list. Enter **#l <SAP layout number>**

18. to switch to SAP. Example: **#l 3**.

19. Test with a known address. Example: `1 river rd | new york | ny | 12345`.

If you have chosen the hosted Experian solution, Pro OnDemand for hosted datasets, then the authentication tokens you will have been given upon purchasing these products must be activated and layouts chosen for use within SAP.

BULK ADDRESS VALIDATION LAYOUT:

1. Click on the Experian Data Quality for SAP ECC 6 installation image and open the **Batch Layouts** folder.

2. Open the **qawserve sections.txt** file with a text editor.

3. Copy the contents of the file (**Ctrl+A** and **Ctrl+C**).

4. Navigate to the **Start** > **QAS Batch API .xx** > **Sample C Program**. A list of configurations will be displayed.

5. Enter the number corresponding to **SAP_xxx** (**xxx** equals the country dataset you are working with).

6. Test with a known address. Example: `experian qas | 125 summer st ste 1910 | boston | 02110`.

2.2 Install the Experian SAP Connector

Real-Time Validation

OnDemand   Pro Web

S/4HANA
ECC 6
CRM 7

Batch Validation

Batch   Pro Web

ECC 6 only

Configuration

SAP Connector

Configuration   SAP RFC
Server

Connector Service

RFC Commands

SAP Instance

SAP System

SAP HANA DB   Oracle DB
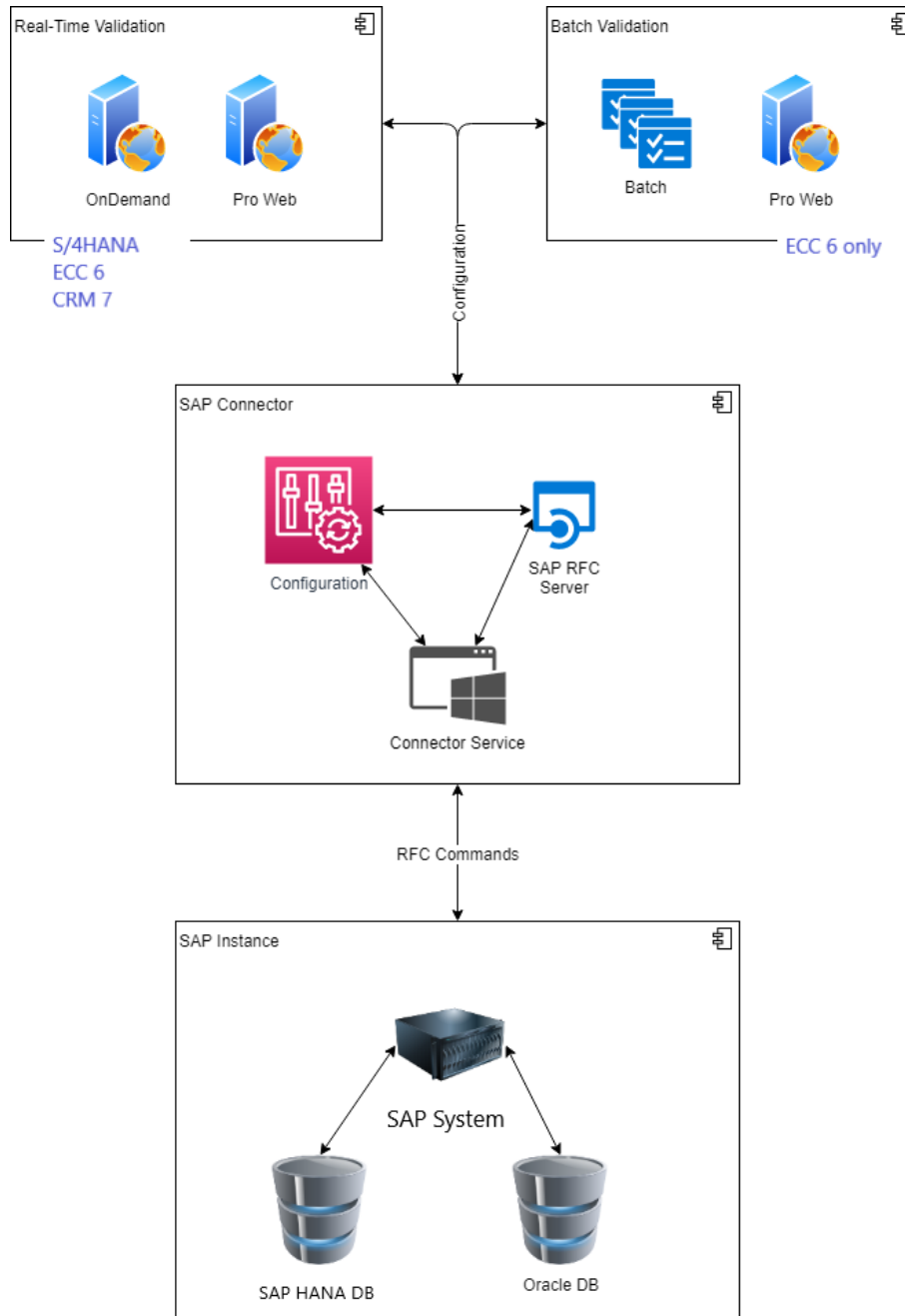
1. Navigate to the **Experian Data Quality for SAP** installation folder (provided by us at the point of purchase).
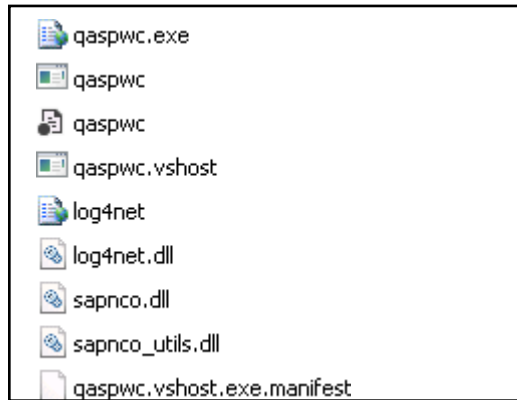
2. Copy all the **Experian SAP Connector** files in this folder to the location where you choose to install

them. Example: **E:\Qas\QASSAPConnector**.

3. Open the **qaspwc.exe** configuration file with a text editor.

4. Edit the **`<DestinationConfiguration>`** and **`<ServerConfiguration>`** settings on lines 20 and 27 to include the SAP application server names, as well as the service credentials to your SAP environment.

`USER – Service_User`	Creating this service user in SAP should be performed by SAP BASIS team beforehand.
`PASSWD – Service_Password`	Matches the above service user.
`CLIENT – (001)`	The current working client, where **Address Lookup** is required. SAP BASIS should be able to provide this.
`ASHOST – Server.domain.com`	The SAP ECC server name. This will need to change between dev/test/prod boxes.
`GWHOST – Server.domain.com`	The location of the SAP Gateway service. This will normally be the same as **ASHOST**.
`GWSERV – server`	The SAP Gateway service name (e.g. **Sapgw00**) which should be provided by SAP BASIS team.
`com.qas.proweb.serverURL`	http://sapecc6.qas.com:2021. Includes server name and port.

```
<DestinationConfiguration>
        <destinations>
          <add NAME="NCO_CLIENT" USER="Service_User"
PASSWD="Service_Password" CLIENT="001" LANG="EN"
ASHOST="Server.domain.com" SYSNR="05" POOL_SIZE="5"
MAX_POOL_SIZE="15"/>
        </destinations>
      </DestinationConfiguration>
```

```
<ServerConfiguration>
        <servers>
          <add NAME="NCO_SERVER" GWHOST="Server.domain.com"
GWSERV="server" PROGRAM_ID="PROWEB"
REPOSITORY_DESTINATION="NCO_CLIENT" REG_COUNT="10"/>
        </servers>
      </ServerConfiguration>
```

- **Pro Web**: Edit the `com.qas.proweb.serverURL` field so that `SERVERNAME` is the name of the server where Experian Pro Web
  is installed and `PORT` is the Port number it was installed to run with.

```
<add key="com.qas.proweb.serverURL"
value="http://SERVERNAME:PORT"/>
```

- **Batch**: Edit the `batchapidllpath` field to point to your instance of Batch.

```
<add key="batchapidllpath" value="E:\Qas\BatchAPI715\"/>
```

- **Pro On Demand:** Edit `com.qas.proweb.serverURL` – This is the URL link to your OnDemand service*;*
  `com.qas.proweb.authToken` – This is where you input the Token to Pro OnDemand, provided from Experian.

5. Set a value, from the options provided for Frontend and/or Backend to the desired solutions (lines 51-52):

```
50      <!--options: ProWeb, ProOnDemand, ProWebBulk, BatchAPI-->
51      <add key="frontendaddressvalidationsolution" value="ProWeb" />
52      <add key="backendaddressvalidationsolution" value="" />
53      <add key="ClientSettingsProvider.ServiceUri" value="" />
```

6. Save all changes.

7. Click Windows **Start** > **Run** > **CMD** to open a command prompt.

8. Install the Windows service needed to run the SAP Connecter, using the command: `E:\Qas\QASSAPConnector.`

```
sc create "EDQSAP Connector_ECC6_PROWEB725" binpath= "
E:\Qas\QASSAPConnector\qaspwc.exe" DisplayName= "EDQSAP
Connector_ECC6 "
```

2.3 Import Experian transports into SAP

Transports for ECC system (Customers on NetWeaver version older than 7.5): ET1K900040(Workbench Request), ED1K900356(Customizing Request).

New SAP Transports are now available due to a release from SAP affecting any Customers using SAP NetWeaver 7.5 or later.

For Customers upgrading their solution for ECC due to their upgrade to NetWeaver 7.5, a new transport should be used: SNBK900028. This new transport should be imported along with the old ones in the given order.

Transports for ECC system with SAP NetWeaver 7.5: ET1K900040 (Workbench Request - Old), SNBK900028 (Workbench Request - New), ED1K900356 (Customizing Request - Old)

1. Copy the transport files from the installation image (part of the product package) into the corresponding SAP folders:

- Co-File: K900xxx.ED1 into example: E:\usr\sap\trans\cofiles

- Data-File: R900xxx.ED1 into example: E:\usr\sap\trans\data

2. Log into SAP and enter the transaction code: **STMS**.
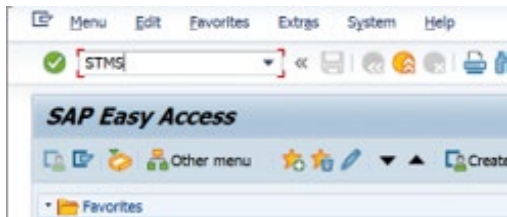
3. Select the **Import overview** button (circled below).

4. Double-click on the system you want to import the transport files to.

This screen will appear:

5. Add the transport to the queue by navigating to **Extras** (top menu bar) > **Other Requests** > **Add**.

6. Enter the transport file name: K900xxx.ED1into the **Transp. Request** field and click the **OK** button (✓).

7. Click the **Import Request** button.

8. Enter the target client to which you want to import the transport and click **OK**.
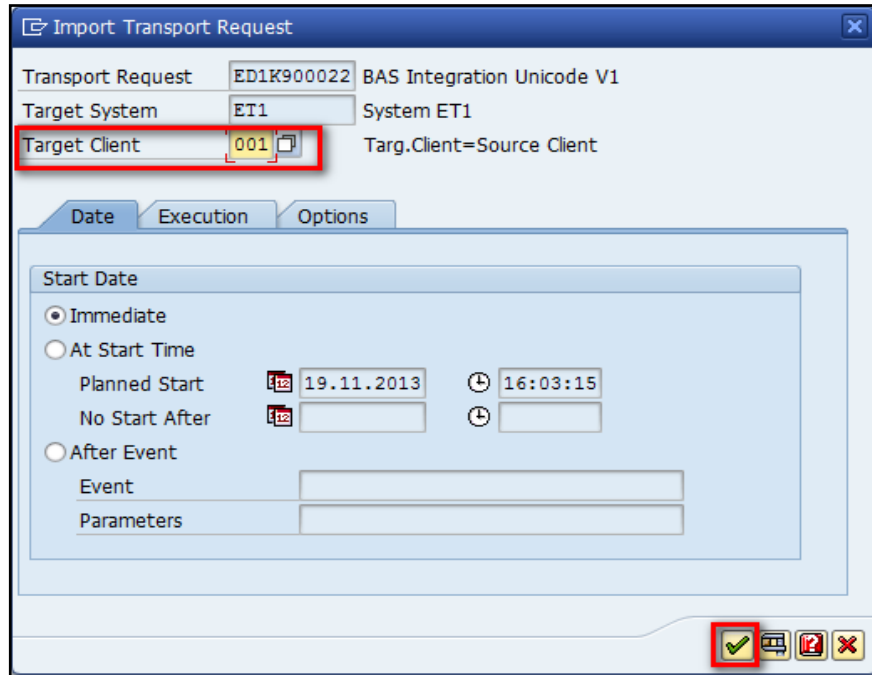
2.4 Create a new RFC connection

1. Enter the transaction code: **SM59**.

2. Select the **TCP/IP connections folder** and click **Create** (the button circled below).

3. Create a new RFC connection description (example: **PROWEB**) and select the **Connection Type** as **T**.

4. Under the **Technical Settings** tab, ensure the **Program ID** name matches the program ID value within the **qaspwc.exe** configuration file from the Experian SAP Connector, and that the **Registered Server Program** option is selected.
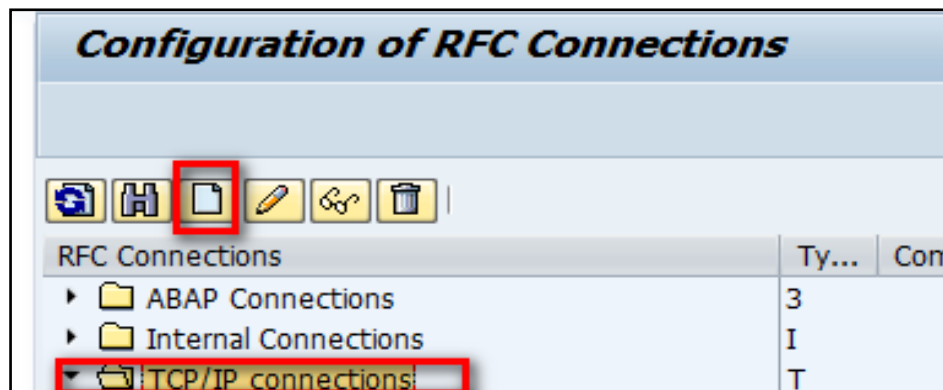
5. Save this connection by clicking the **Save** button.

6. Test the RFC connection by clicking on the **Connection Test** button.

If the connection works, the logon is successful (as shown below).

RFC - Connection Test

Connection Test PROWEB
Connection Type TCP/IP Connection

Action	Result
Logon	128 msec
Transfer of 0 KB	2 msec
Transfer of 10 KB	3 msec
Transfer of 20 KB	4 msec
Transfer of 30 KB	5 msec

<u>Tip:</u> Create additional RFC connections, if required, by repeating steps one to six mentioned above, using the **SM59** Transaction.

2.5 Configure settings within SAP

1. Enter the transaction code: **/QAS/YQAWB** to open the **QAS Configuration** screen.

2. Choose which settings you need to configure **ISO Codes**, **QAS Fields**, **QAS Set Up**, **Field Mapping**, **Search Fields**, **Countries Supported Search Engines**, **Global Settings**, or **User Groups**.

> **ISO CODES:**

Within this configuration, Experian's sample **ISO Code** and **Country** fields are automatically mapped.

1. Enter as many countries you require the address validation solution to work with.
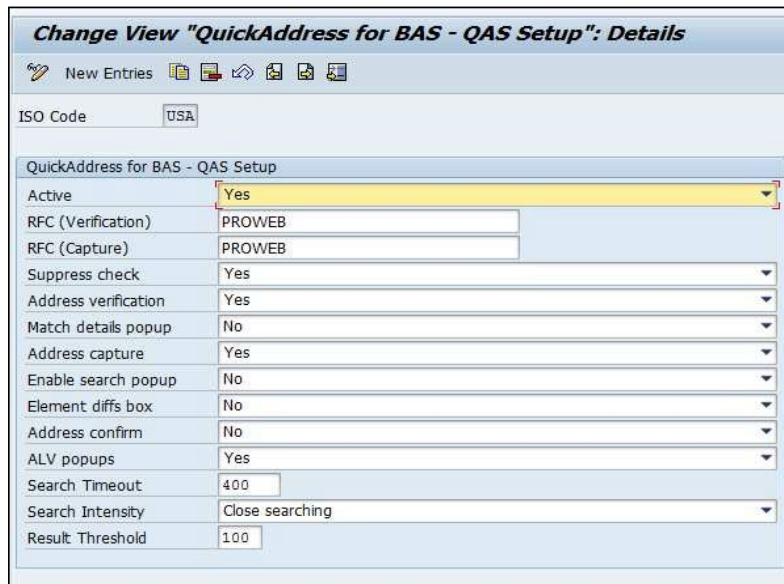
Change View "QuickAddress for BAS - ISO Codes": Overview

New Entries

QuickAddress for BAS -...

ISO Code	Country
CAN	CA
GBR	GB
USA	US

FIELDS:

Within this configuration, all the Address fields that are configured in ProWeb layouts will be listed by their label names, which were created during step 2.1. This is country specific. If a customer-specific layout was created, the Address fields from that layout should also be listed here.

SETUP:

Within this configuration, you can set up the mapping between the RFC connection created earlier and the pertaining ISO Code.

Active	Can either take the value of Yes or No, in order to switch the overall functionality on or off for that country.
RFC (Verification)	The name of the RFC which will be used to link to the verification server.
RFC (Capture)	The name of the RFC which will be used to link to the capture server.
Suppress check	Can either take the value of Yes or No, in order to switch the functionality which checks the address against the post code on or off for that country.
Address verification	Can either take the value of Yes or No, in order to switch the address verification functionality on or off for that country.
Match details pop up	Can either take the value of Yes or No, in order to switch whether the QAS match code dialog box appears or not when running in Verification mode.
Address capture	Can either take the value of Yes or No, in order to switch the address capture functionality on or off for that country.
Enable search popup	Can either take the value of Yes or No. This flag is used in the address capture process. If address verification fails, a popup box will appear allowing the user to modify the search string originally used in the verification process. This string is then passed to the capture server, with the results from this match being presented in a different popup box.
Element diffs box	This can either take the value of Yes or No, in order to switch the Address Change dialog box on or off for a country. After an address has been verified/captured, a popup box will appear listing the changes, if any address fields have changed.
Address confirm	Can either take the value of Yes or No, in order to switch to the capability to confirm an address on or off for that country.
ALV popups	Can either take the value of Yes or No, in order to switch the functionality on or off for that country.
Search Timeout	The value of the dropdown box defines intensity with which Pro Web will work to obtain a match. A higher intensity may yield more results but will also result in a longer search time. The following Search Intensity values are available: • Exact: the value allows no mistakes in the search term but is the fastest. • Close (Recommended): the value allows some mistakes in the search term and is the default setting. • Extensive: the value allows many mistakes in the search term but results in the longest search time.
Search Intensity	The timeout is a numerical value (entered in mile seconds) which specifies a time limit for the

	search.
Result Threshold	The threshold is a numerical value which provides a cut-off point for the number of matches returned by a search. The threshold can range from 5 to 100.

Setting	Purpose	Default Value
ISO Code	Defines what country code to apply settings.	USA
Active	Enables or disables address validation for the country.	Yes
Engine Type	Sets the default EDQ engine.	Verification
RFC Destination	The RFC destination set up during step 3.4.	PROWEB
QAS Layout	The EDQ Layout to use, created during step 2.1.	SAP
Timeout	Defines the time threshold in milliseconds after which a search will abort.	150
Match Level	Defines how hard the search engine will work to obtain a match. higher-intensity values may yield more results than lower intensity values but will also result in longer search times.	Close Searching
Trshold	Defines the threshold which is used to display potential results.	200
Prompt Set Type	Tells the EDQ engine what input data to expect for searching	Default
Flatten	Defines whether the search results will be 'flattened' to a single picklist of deliverable results, or shown as (potentially multiple) hierarchical picklists of results that can be stepped into	True

ADDRESS TYPES:

1. For each address type (street and PO box) and operating mode (Verification/Capture), link to the corresponding EDQ layout

Tip:

- The value of Configuration Section (Capture) should match the layout name created earlier with the Configuration Editor of Experian Pro Web.

- The value of the Configuration Section (Verification) should match the value of the layout created earlier for EDQ Batch.

Change View "QuickAddress for BAS - Address types": Details

New Entries

ISO Code	USA
Address type	Street

QuickAddress for BAS - Address types

Configuration file (Verification)	
Configuration section (Verification)	USA
Configuration file (Capture)	
Configuration section (Capture)	SAP
Address type description	Street
QuickAddress PO Box fieldname	POBOX

FIELD MAPPING:

1. For each country and address type (street and PO box), you can create a field mapping between the **SAP fieldname** and the corresponding **EDQ** field:

- **QAS fieldname**: the labels which were created during step 2.1.

- **SAP BAS fieldname**: where the returned data should be placed.

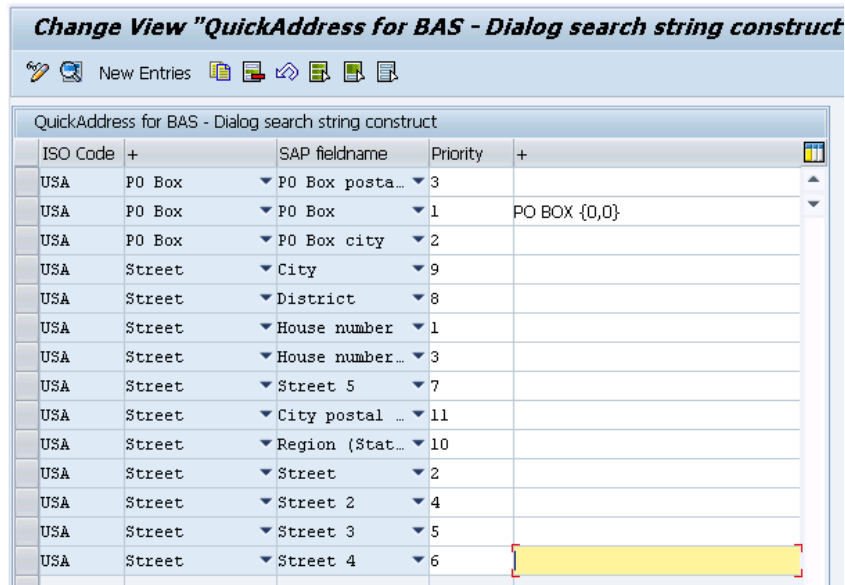**Change View "QuickAddress for BAS - Field mapping": Overview**

New Entries

QuickAddress for BAS - Field mapping

ISO Code	+		Priority	SAP fieldname	QAS fieldname
USA	PO Box	▼	2	PO Box postal ▼	ZIPCODE
USA	PO Box	▼	2	PO Box	▼ POBOX
USA	PO Box	▼	2	PO Box city	▼ CITYNAME
USA	Street	▼	1	District	▼ COUNTY
USA	Street	▼	1	House number	▼ PRIMARYNUMBER
USA	Street	▼	1	House number…	▼ SECONDARYNUMBER
USA	Street	▼	1	Street	▼ STREET
USA	Street	▼	3	City	▼ CITYNAME
USA	Street	▼	4	City postal …	▼ ZIPCODE
USA	Street	▼	6	Region (Stat…	▼ STATENAME
USA	Street	▼	7	Country key	▼ TWOCHARACTERISOCOUNTRYCODE

For each country and address type (street and PO box), you can setup a search priority, as well as a format. This creates an input string which is submitted to the Experian engine.

➡ Tip: The priority of the address fields should be set in a logical order for the country being configured. For example, a typical order for USA would be: House Number, Street Name, Secondary Number, City, State, Zip Code.

Change View "QuickAddress for BAS - Dialog search string construct

New Entries

QuickAddress for BAS - Dialog search string construct

ISO Code	+		SAP fieldname		Priority	+	
USA	PO Box	▼	PO Box posta…	▼	3		
USA	PO Box	▼	PO Box	▼	1	PO BOX {0,0}	
USA	PO Box	▼	PO Box city	▼	2		
USA	Street	▼	City	▼	9		
USA	Street	▼	District	▼	8		
USA	Street	▼	House number	▼	1		
USA	Street	▼	House number…	▼	3		
USA	Street	▼	Street 5	▼	7		
USA	Street	▼	City postal …	▼	11		
USA	Street	▼	Region (Stat…	▼	10		
USA	Street	▼	Street	▼	2		
USA	Street	▼	Street 2	▼	4		
USA	Street	▼	Street 3	▼	5		
USA	Street	▼	Street 4	▼	6		

NON-DIALOG SEARCH:

For each country and address type (street and PO box), you can setup a search priority, as well as a format. This creates an input string which is submitted to the Experian engine.

➡ Tip: The priority of the address fields should be set in a logical order for the country being configured. For example, a typical order for USA would be: House Number, Street Name, Secondary Number, City, State, Zip Code.

MATCH CODES:

Within the batch and non-dialog workflow, based on the match code and confidence level combination, each address will be sent to Batch Engine for validation. If the batch engine finds the unique address, then it will accept the suggested address and update the input address or flag the address as 'not verified' and review it at a later point.

Note: The Confidence level for each Match code can be customized according to your users' needs. For example, if the user wants to

accept GBR addresses with Match code Q (full address without postcode), the confidence level should be set as '9'.

ISO Code	Match code	Confidence level	Address	Postcode	
GBR	C Country not available	0	N No	N No	
GBR	D Unidentified country	0	N No	N No	
GBR	K Unmatched	0	N No	N No	
GBR	L Postcode match	5	N No	N No	
GBR	M Multiple addresses, without postcode	0	N No	N No	
GBR	N Multiple addresses, with postcode	0	N No	N No	
GBR	O Partial address, without postcode	0	N No	N No	
GBR	P Partial address, with postcode	5	N No	N No	
GBR	Q Full address, without postcode	6	N No	N No	
GBR	R Full address, with postcode	9	Y Yes	Y Yes	
USA	A Unprocessed	0	N No	N No	

QUARTERLY ADJUSTMENTS:

The Quarterly Adjustment process is The SAP standard process which validates addresses within SAP.

QuickAddress for BAS - Quarterly Adjustment

Quarterly Adjustment is a 3 step process, please execute steps below in sequence

ADDRESS SELECTION - write selected addresses to temp tables

Execute Step 1

ADDRESS VALIDATION - validate addresses (from step 1), store in temp tables

Execute Step 2

ADDRESS UPDATE - write addresses from temp tables to permanent tables

Execute Step 3

1. Create an SAP User group using transaction code **SUGR**.

2. In the **User group** window, assign the list of users who require the Real Time Address Validation tool.

Change View "QAS for SAP BAS – Authorized user groups": Overview

New Entries
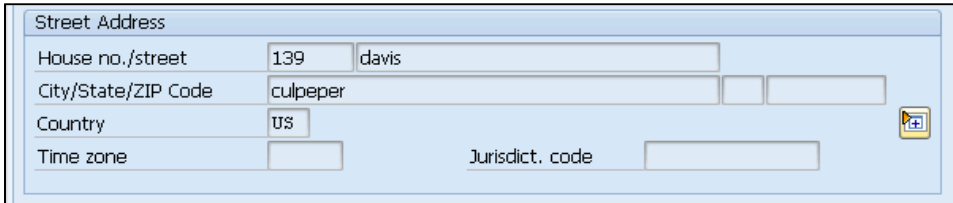
QAS for SAP BAS - ...

User group
ZQAS

3 Test the integration

3.1 Real-time

1. Within SAP ECC 6, enter the transaction code: XD01.

2. Select Bill-To Party as the account group.

3. Enter address data into any mandatory fields and click Enter.
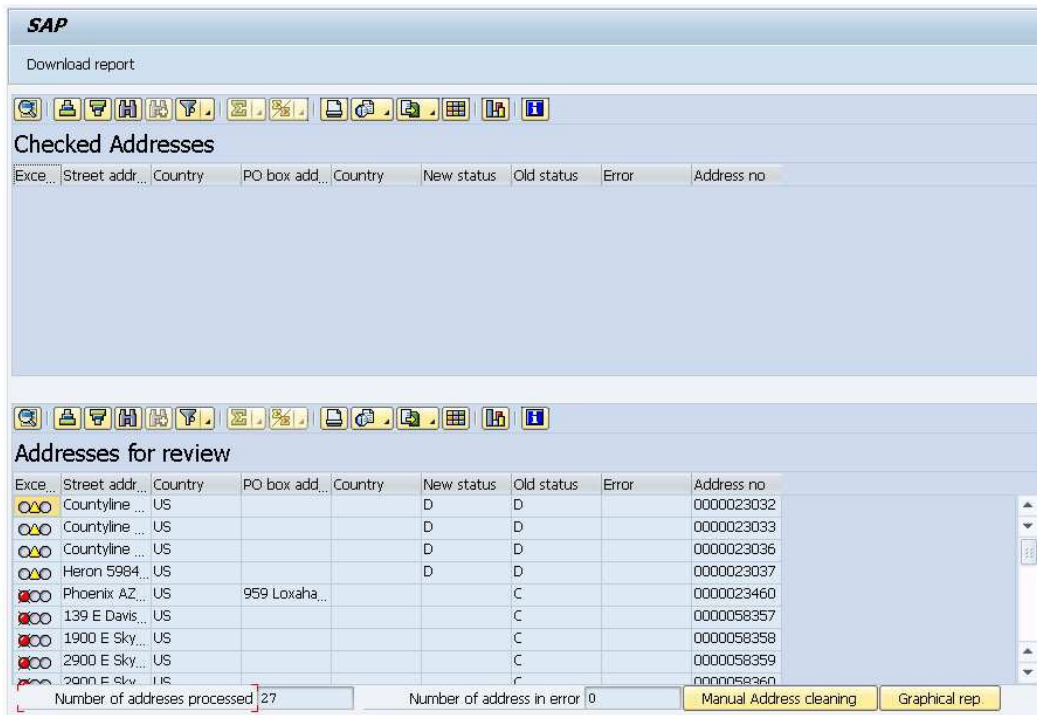

The **QuickAddress for BAS** window will pop up if it is configured correctly.
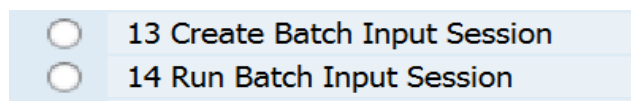
3.2 Quarterly adjustment

1. Enter the transaction code: **/QAS/YQAWB**.

2. Click **Execute Step 1**.

3. Fill out the address data fields to create an index for the process.
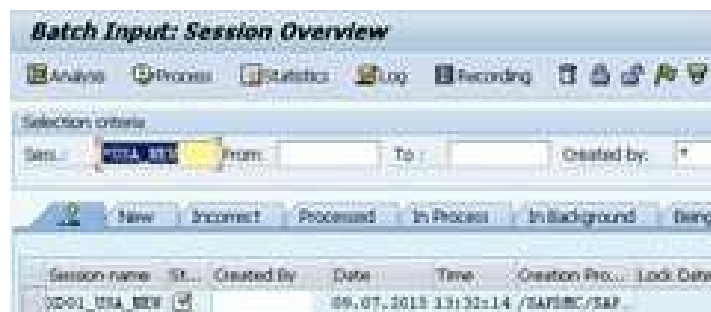
3.3 Batch

1. Enter the transaction code: **LSMW**.

2. Create an LSMW program to create or modify customer master data.

3. Execute the LSMW program by selecting the **Radio** button shown below to create Batch session.

4. Process the Batch session using the transaction code: SM35, in background, to create address info records.

➡ Tip: All the unvalidated address records created in **Non-Dialog** or **Batch Method** will be updated into a Database table: **/QAS/MANUAL_CLN**.

5. Use the transaction code: **/QAS/MANUAL_CLEAN** to do manual address cleansing.

4 Maintain the integration

For Pro Web (on-premise data) all address data supplied by Experian has a built-in expiry date to ensure that only the most up-to-date address data is used. If the Experian interface detects the data has expired, that country will no longer be shown in the drop-down list in the search form.

The United Kingdom dataset expires eight months after creation, the United States dataset expires every 120 days, and the Canadian dataset expires every 365 days. For more information on this, please refer to the accompanying data guide.

To update data, follow the corresponding data guide and product documentation. For assistance, and to obtain new data files, please contact our Support team.

For Pro On-Demand (SaaS) purchases the token will expire at the end of your contract period, unless renewed. There are no on-premise data installations updates needed.

Location	Phone	Email	Hours
Australia, New Zealand and Singapore	Melbourne: +61 3 8622 1655 Sydney: +61 2 8907 7272	qassupport@au.experian.com	08:30 - 18:00 AEST
France and the Netherlands	+33 (0)1 70 39 43 43	support@qas.fr	09:00 - 18:00
United Kingdom	+44 (0) 207 498 7788	uk.support@qas.com	08:30 - 18:00 (GMT)
USA and Canada	+1 (888) 712-3332	us.support@qas.com	08:00 - 20:00 (EST)
All Others	Provided by appropriate Support Location specified at point of sale.		

We hope this guide was useful to you. For further support, or to leave us feedback, please get in touch with your Professional Services Consultant, or our Support team.