

# Apparo Fast Edit

## Deployment of environments

Version 3.2.2



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## 1 Basics

Apparo Fast Edit is ready for big and complex environments.  
Therefore, it is possible to use parallel different environments like

- Development
- Integration
- Production

and deploying the definitions from one environment to the next, manually or using scripts.

Definitions are XML files containing:

- Connections like database connections and email connections
- Business Cases
- Folders and content
- Clients
- Portal entries (if using Stand-Alone version)

## 2 Manual export/import via Apparo Designer (web browser)

### 2.1 Access control

It is possible to export/import the definition in Apparo Designer via the web interface.

If you want to export/import, you need the **necessary security role in the client settings**, access rights:

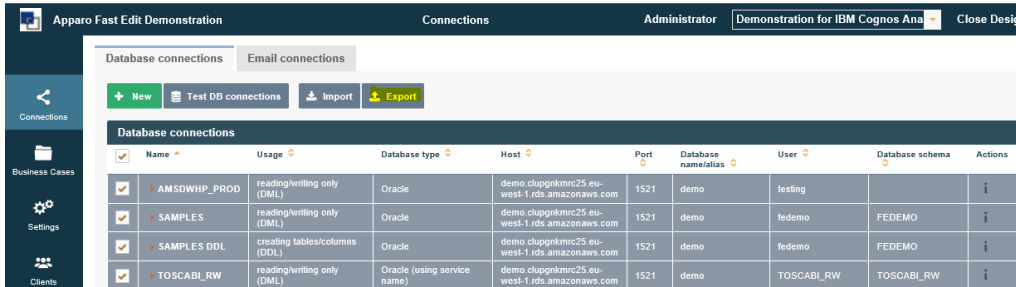
Client head	General	Languages	Default numeric & datetime formats	Access rights	Aut
Business case standard style    Login page					
Define restrictions for accessing secured parts of Apparo. Only users with listed security groups will be able to access that particular part. If no access rights are defined, that means access to function is unrestricted.					
Apparo Client Administrator: has unrestricted access to all features of this client					
Apparo Connection Administrator: can create, edit and delete database and email server connections					
Apparo Designer: manages Business Cases - can create, delete and edit Business Cases and folders					
Apparo Import & Export Administrator: can import and export Business Cases and connections					
Apparo Portal Administrator: can import, export and edit all portal entries of this client					
Enter comma separated list of security groups for each Apparo role:					
Apparo Client Administrator	ADMIN System Administrator				
Apparo Connection Administrator	ADMIN System Administrator				
Apparo Designer	ADMIN System Administrator				
Apparo Import & Export Administrator	ADMIN System Administrator				
Apparo Portal Administrator	ADMIN System Administrator				
<div>OK</div> <div>CANCEL</div>					

If left empty, anyone can export/import definitions.

## 2.2 Export/import of Connections

### 2.2.1 Export

To export database or email connections simply select the connection(s) you want to export and click the export button:



The screenshot shows the 'Connections' tab in the Apparo Fast Edit Demonstration. The 'Database connections' sub-tab is selected. A table lists four database connections, all of which are selected with checkboxes. The 'Export' button is highlighted in yellow.

	Name	Usage	Database type	Host	Port	Database name/alias	User	Database schema	Actions
<input checked="" type="checkbox"/>	AMSOWHP_PROD	reading/writing only (DML)	Oracle	demo.clupgkmc25.eu-west-1.rds.amazonaws.com	1521	demo	testing		i
<input checked="" type="checkbox"/>	SAMPLES	reading/writing only (DML)	Oracle	demo.clupgkmc25.eu-west-1.rds.amazonaws.com	1521	demo	fedemo	FEDEMO	i
<input checked="" type="checkbox"/>	SAMPLES DDL	creating tables/columns (DDL)	Oracle	demo.clupgkmc25.eu-west-1.rds.amazonaws.com	1521	demo	fedemo	FEDEMO	i
<input checked="" type="checkbox"/>	TOSCABI_RW	reading/writing only (DML)	Oracle (using service name)	demo.clupgkmc25.eu-west-1.rds.amazonaws.com	1521	demo	TOSCABI_RW	TOSCABI_RW	i

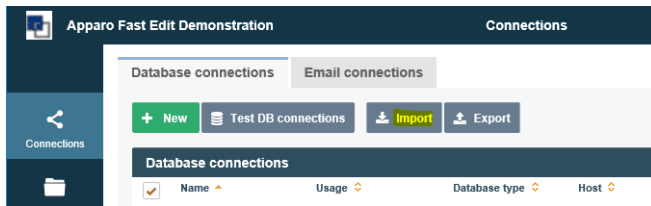
Depending on the browser you are using, you will see a dialog that allows you to save (as) the exported definitions:



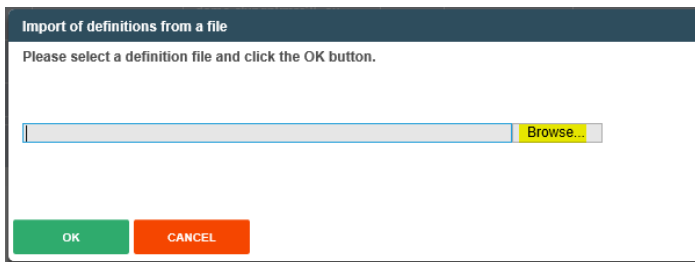
The dialog box asks: "Do you want to save DB connection backup.xml (8.44 KB) from localhost?". It has 'Save' and 'Cancel' buttons, and a close button (X).

## 2.2.2 Import

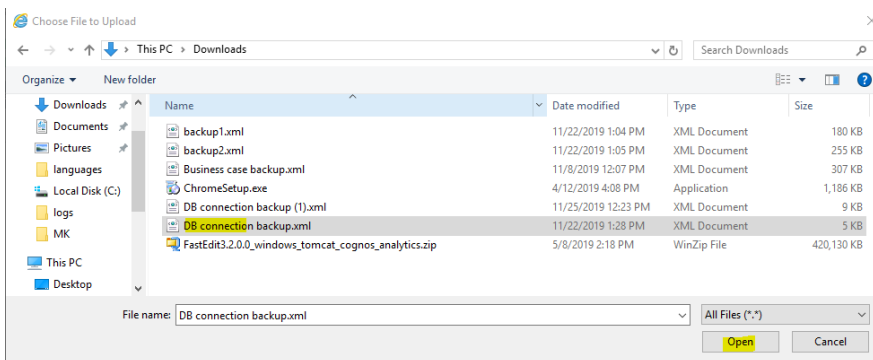
To import existing database or email connections click the import button:



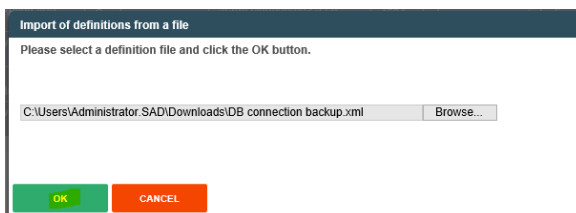
Then click browse:



And select the connection definition and click on open:



Then confirm with OK:



The final confirmation dialog appears.

You can select the containing connections you want to import, it also contains the option to overwrite existing connections (deactivated by default):

Import definitions from a file

Import options

☐ Overwrite existing connections

Please select items you want to import:

<input type="checkbox"/> Name	Usage	Database type	Host	Database name/alias	User
<input type="checkbox"/> AMSDWH_PROD	reading/writing only (DML)	Oracle	demo.clupgnkmc25.eu-west-1.rds.amazonaws.com	demo	testing
<input checked="" type="checkbox"/> SAMPLES	reading/writing only (DML)	Oracle	demo.clupgnkmc25.eu-west-1.rds.amazonaws.com	demo	fedemo
<input checked="" type="checkbox"/> SAMPLES DDL	creating tables/columns (DDL)	Oracle	demo.clupgnkmc25.eu-west-1.rds.amazonaws.com	demo	fedemo
<input type="checkbox"/> TOSCABI_RW	reading/writing only (DML)	Oracle (using service name)	demo.clupgnkmc25.eu-west-1.rds.amazonaws.com	demo	TOSCABI_RW

IMPORT CANCEL

When clicking the import button, the selected connections will be imported, **but not overwritten by default if already existing**.

The summary shows what was imported and what was not:

Import definitions from a file

Import results

Definition name	Folder path	Definition type	Operation
SAMPLES		Database Connection	Existing definition was kept intact. Import values were not used.
SAMPLES DDL		Database Connection	Existing definition was kept intact. Import values were not used.

OK

Both connections already exist and due to the missing overwrite option, the connections were not imported.

## 2.3 Export/import of Business Cases

### 2.3.1 Basic settings

**When exporting Business Cases, all corresponding connections (database connections, e-mail connections) are also exported.**

You can define in the client settings if the connection settings are exported **with the valid values too or not** (default: enabled):

Client head	General	Languages	Default numeric & datetime formats
Business case standard style		Login page	
<p>Application name</p> <p>Apparo Admin</p> <p>The application name is always displayed at the top left corner.</p>			
<p>Application logo</p> <p>/pictures/logo.png</p> <p>URL of image that will be used in header as application logo.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• <a href="http://example.com/clientLogo.png">http://example.com/clientLogo.png</a> - absolute URL address pointing to the image</li> <li>• <a href="#">/clientLogo.png</a> - if logo image is stored in client's root folder then relative URL is used</li> </ul>			
<p>Auto import</p> <p><input type="checkbox"/></p> <p>If "Auto Import" is enabled:</p> <ol style="list-style-type: none"> <li>1. Apparo looks into a file feeder-directory (definable for each Business Case)</li> <li>2. Move it to another working-directory (definable for each Business Case)</li> <li>3. Import rows and move the file to a history-directory (for each Business Case)</li> </ol>			
<p>Automatic file import period [s]</p> <p>300</p> <p>Time period for automatic data file import in seconds. If one import is in progress, the next import will be done after the previous import is finished. The import period can be delayed if one of the imports is running longer than the specified period.</p>			
<p>Export dependent connections <input checked="" type="checkbox"/></p> <p>If enabled then all Business Cases exports will contain the necessary database connections too but without valid settings (no server name, no logins etc.).</p>			
<p>OK CANCEL</p>			



### 2.3.2 Export

To export Business Cases, select them and click the export button:

Start	Business Case ID	Name	Type	Connection name	Target table/view	Last change user	Last change date
<input checked="" type="checkbox"/>	> Superstore	> Superstore	Table	SAMPLES	SUPERSTORE	Administrator	5/3/19 8:15 AM
<input checked="" type="checkbox"/>	> Superstore_Detail_SendMail	> This email BC is used for sending an comment incl. own text	Email	Email		Administrator	11/4/18 9:54 PM
<input checked="" type="checkbox"/>	> Superstore_Lookup_Cascade	> Superstore BC with depending lookup filter widgets	Table	SAMPLES	SUPERSTORE	Administrator	8/19/18 12:14 PM
<input checked="" type="checkbox"/>	> Superstore comment	> Superstore comment	Single	SAMPLES	SUPERSTORE_COMMENT	Administrator	8/20/18 12:53 PM
<input checked="" type="checkbox"/>	> Superstore Detail	> Superstore Detail	Single	SAMPLES	SUPERSTORE	Administrator	5/1/19 11:02 AM
<input type="checkbox"/>	> Superstore Detail Forward	> Superstore Detail	Single	SAMPLES	SUPERSTORE	Administrator	8/20/18 9:35 AM
<input type="checkbox"/>	> Superstore-procurement	> Superstore-procurement	Single	SAMPLES	SUPERSTORE_PROC	Administrator	5/3/19 5:59 AM

Depending on the browser you are using, you will see a dialog that allows you to save (as) the exported definitions:

Do you want to save **Business case backup.xml** from localhost?

Save
Cancel

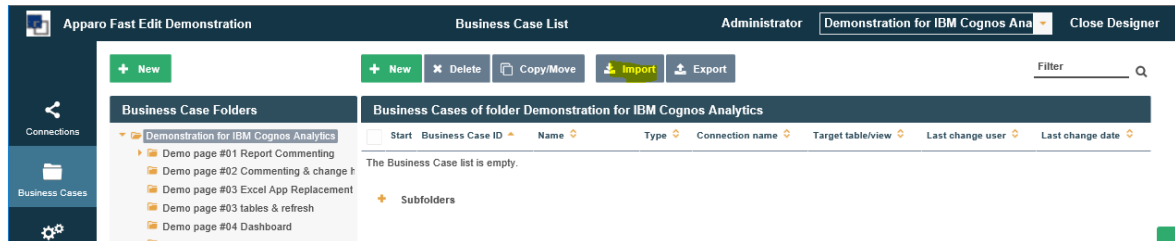
### 2.3.3 Import

When importing a Business Case then all **new connections are created automatically**.

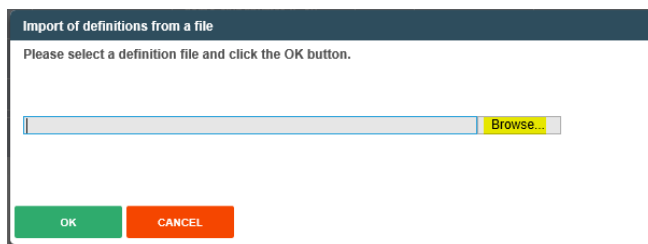
If a connection is already **existing then it will be reused** and the import will **not** overwrite it by default.

To import Business Cases, click the import button.

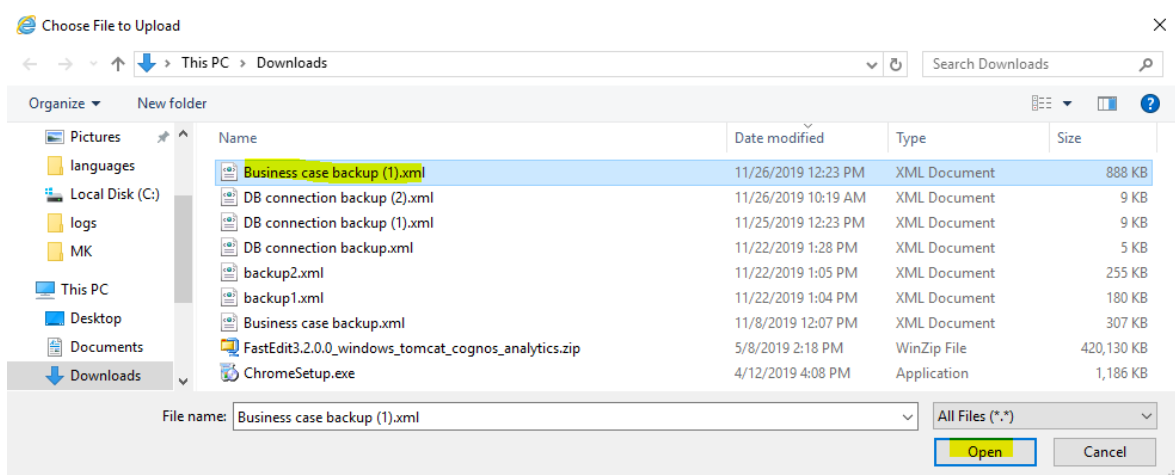
The folder selection has no impact, Business Cases will be imported including their original folder structure:



Then click browse:



Then select the Business Cases definition file and click on open:



Confirm with OK:

Import of definitions from a file

Please select a definition file and click the OK button.

C:\Users\Administrator.SAD\Downloads\Business case backup (1).xml
Browse...

OK
CANCEL

The final confirmation dialog appears.

You can select the containing Business Cases you want to import, it also contains the option to

- Overwrite existing Business Cases (activated by default)
- Overwrite existing connections (deactivated by default)
- Import security settings (activated by default)

Import definitions from a file

Import options
☒ Overwrite existing Business Cases
☐ Overwrite existing connections
☒ Import security settings. Setting has impact on client security settings and Business Case folders only.

Please select items you want to import:

<input type="checkbox"/> Business Case ID	Name	Folder path	Type	Connection name	Target table/view
<input type="checkbox"/>	Superstore	Superstore	\Demo page #03 Excel App Replacement	Table	SAMPLES SUPERSTORE
<input checked="" type="checkbox"/>	Superstore Detail	Superstore Detail	\Demo page #03 Excel App Replacement	Single	SAMPLES SUPERSTORE
<input checked="" type="checkbox"/>	Superstore Detail Forward	Superstore Detail	\Demo page #03 Excel App Replacement	Single	SAMPLES SUPERSTORE
<input type="checkbox"/>	Superstore comment	Superstore comment	\Demo page #03 Excel App Replacement	Single	SAMPLES SUPERSTORE_COMMENT
<input checked="" type="checkbox"/>	Superstore-procurement	Superstore-procurement	\Demo page #03 Excel App Replacement	Single	SAMPLES SUPERSTORE_PROC
<input type="checkbox"/>	Superstore_Detail_SendMail	This email BC is used for sending an comment incl. own text	\Demo page #03 Excel App Replacement	Email	EMAIL
<input type="checkbox"/>	...	...	\Demo page #03 Excel App	...	...

IMPORT
CANCEL

When clicking the import button, the selected Business Cases will be imported and overwrite old Business Cases by default.

**Corresponding connections are not overwritten by default.**

The summary shows what was imported and what was not:

Import definitions from a file

Import results

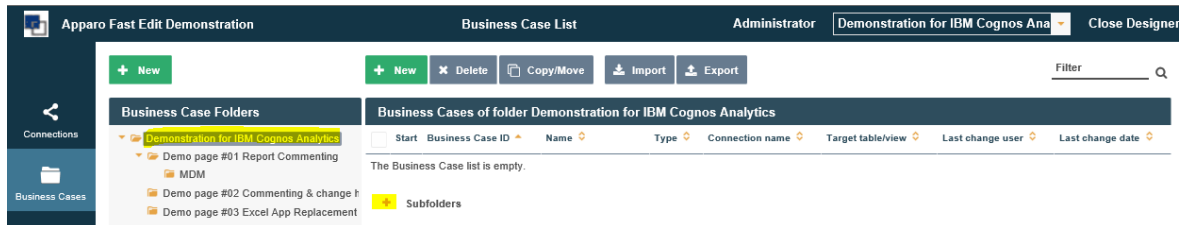
Definition name	Folder path	Definition type	Operation
SAMPLES		Database Connection	Existing definition was kept intact. Import values were not used.
Email		Email Connection	Existing definition was kept intact. Import values were not used.
Superstore_Detail_SendMail	\Demo page #03 Excel App Replacement	Email Business Case	Existing definition was replaced by values from the import file.
Superstore Detail Forward	\Demo page #03 Excel App Replacement	Single Business Case	Existing definition was replaced by values from the import file.
Superstore Detail	\Demo page #03 Excel App Replacement	Single Business Case	Existing definition was replaced by values from the import file.
Superstore-procurement	\Demo page #03 Excel App Replacement	Single Business Case	Existing definition was replaced by values from the import file.

OK

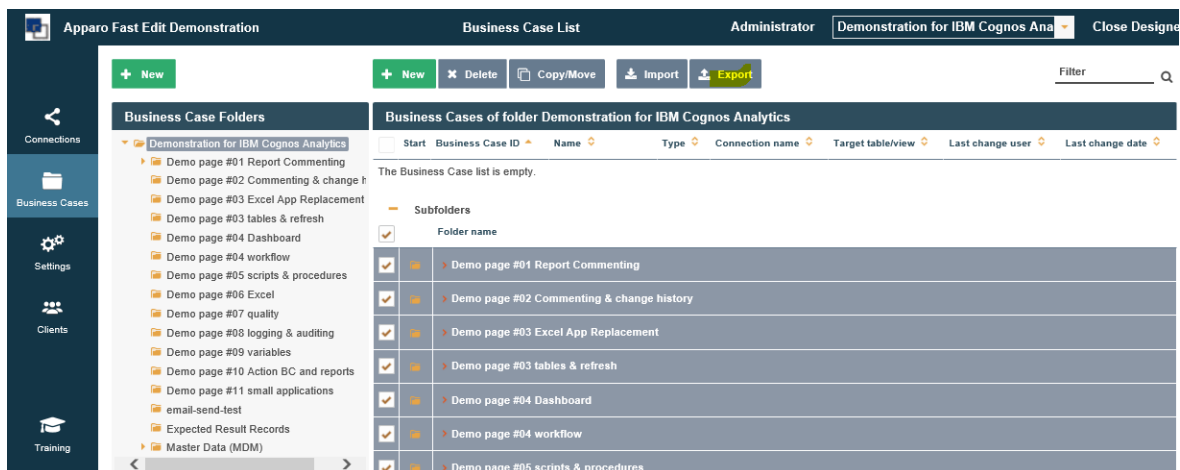
## 2.4 Export/import of Folders

### 2.4.1 Export

You can export whole folders, including all subfolders and Business Cases (and corresponding connections). Select in the folder pane on the left the folder which contains the folder(s) you want to export. Then click the plus symbol next to Subfolders in the Business Case view



Then select the folders you want to export and click the export button:



When selecting the client main folder and the select all checkbox in subfolders, you will export all Business Cases of the client.

Depending on the browser you are using, you will see a dialog that allows you to save (as) the exported definitions:



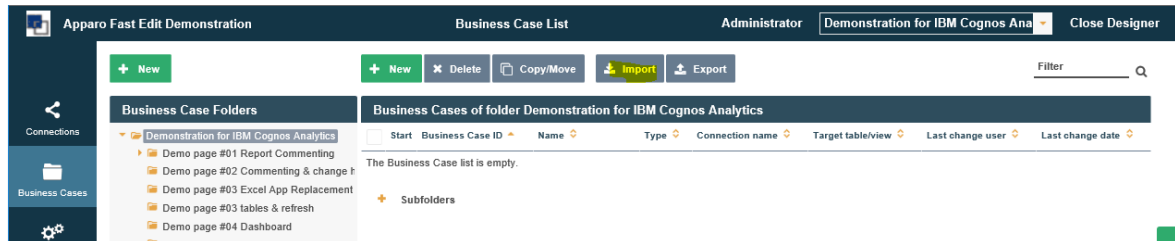
## 2.4.2 Import

When importing a Business Case then all new connections are created automatically.

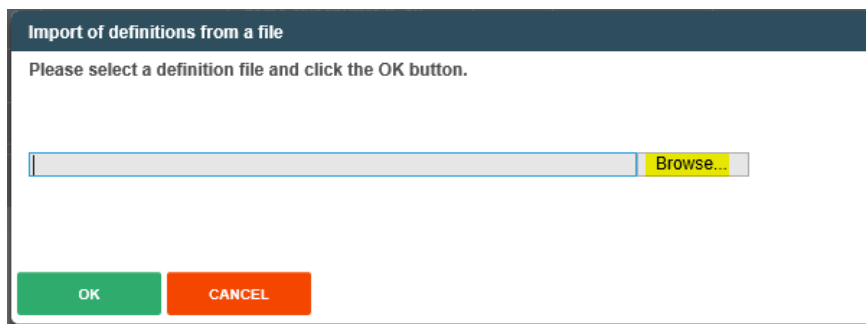
If a connection is already existing then it will be reused and the import will **not** overwrite it by default.

To import Business Cases, click the import button.

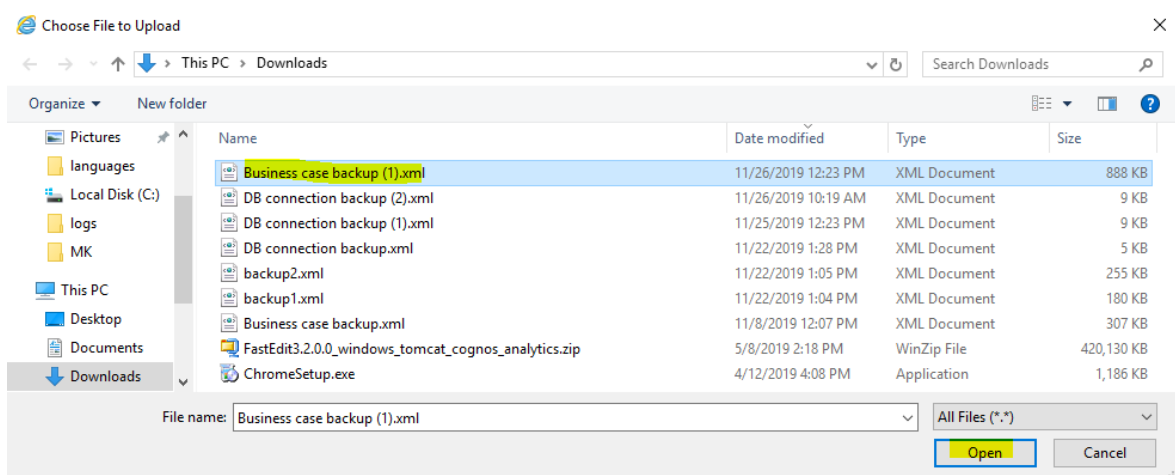
The folder selection has no impact, Business Cases will imported including their original folder structure:



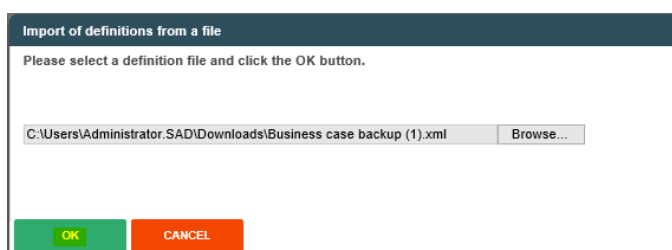
Then click browse:



Then select the Business Cases definition file and click on open:



Confirm with OK:



The final confirmation dialog appears.

You can select the containing Business Cases you want to import, it also contains the option to

- Overwrite existing Business Cases (activated by default)
- Overwrite existing connections (deactivated by default)
- Import security settings (activated by default)

Import definitions from a file

Import options

☒ Overwrite existing Business Cases  
☐ Overwrite existing connections  
☒ Import security settings. Setting has impact on client security settings and Business Case folders only.

Please select items you want to import:

<input checked="" type="checkbox"/>	Business Case ID	Name	Folder path	Type	Connection name	Target table/view
<input checked="" type="checkbox"/>	Comment BC_Single email	Comment BC_Single E-Mail	\Demo page #01 Report Commenting	Single	SAMPLES	QSDemo_COMMENT
<input checked="" type="checkbox"/>	Comment BC_Single email (ASCII text) page1	Comment BC_Single E-Mail (ASCII text)	\Demo page #01 Report Commenting	Single	SAMPLES	QSDemo_COMMENT
<input checked="" type="checkbox"/>	History of comments qsdemo_comment	History of comments qsdemo_comment	\Demo page #01 Report Commenting	Table	SAMPLES	QSDemo_COMMENT
<input checked="" type="checkbox"/>	SendMailBC (1)	This email BC is used for sending an comment incl. own text	\Demo page #01 Report Commenting	Email	EMail	
<input checked="" type="checkbox"/>	SendMailBC page1	This email BC is used for sending an comment incl. own text	\Demo page #01 Report Commenting	Email	EMail	
<input checked="" type="checkbox"/>	sample comment1	Level #1 Simple commenting of reports (report name + date + user)	\Demo page #01 Report Commenting	Single	SAMPLES	APOBANK_COMMENT
<input type="checkbox"/>		Level #1 simple report commenting (report	\Demo page #01 Report			

IMPORT

CANCEL

When clicking the import button, the selected Business Cases will be imported and overwrite old Business Cases by default.

Corresponding connections are not overwritten by default.

The summary shows what was imported and what was not:

Import definitions from a file

Import results

Definition name	Folder path	Definition type	Operation
SAMPLES		Database Connection	Existing definition was kept intact. Import values were not used.
Email		Email Connection	Existing definition was kept intact. Import values were not used.
SendMailBC page1	\Demo page #01 Report Commenting	Email Business Case	Existing definition was replaced by values from the import file.
Comment BC_Single email	\Demo page #01 Report Commenting	Single Business Case	Existing definition was replaced by values from the import file.
Comment BC_Single email (ASCII text) page1	\Demo page #01 Report Commenting	Single Business Case	Existing definition was replaced by values from the import file.
History of comments qsdemo_comment	\Demo page #01 Report Commenting	Table Business Case	Existing definition was replaced by values from the import file.
SendMailBC (1)	\Demo page #01 Report Commenting	Email Business Case	Existing definition was replaced by values from the import file.
sample comment1	\Demo page #01 Report Commenting	Single Business Case	Existing definition was replaced by values from the import file.
sample report comment embed	\Demo page #01 Report Commenting	Single Business Case	Existing definition was replaced by values from the import file.
test_action	\Demo page #01 Report Commenting	Action Business Case	Existing definition was replaced by values from the import file.
test_sbc_emailbc_linkwidget	\Demo page #01 Report Commenting	Single Business Case	Existing definition was replaced by values from the import file.
test_tbc_emailbc_linkwidget	\Demo page #01 Report Commenting	Table Business Case	Existing definition was replaced by values from the import file.
SAMPL Manufacturer	\Demo page #01 Report Commenting\MDM	Table Business Case	Existing definition was replaced by values from the import file.
SAMPL filter	\Demo page #01 Report Commenting\MDM	Table Business Case	Existing definition was replaced by values from the import file.
SAMPL MASTER PROD LIST with multifilter	\Demo page #02 Commenting & change history	Table Business Case	Existing definition was replaced by values from the import file.

OK

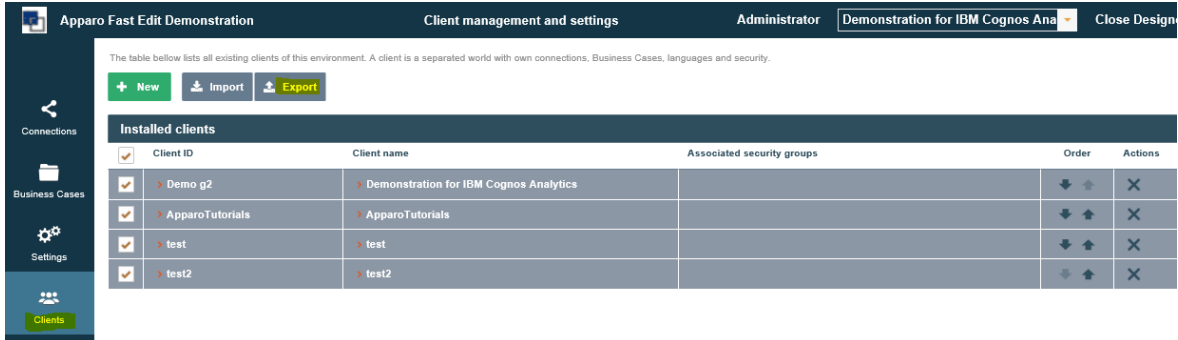
## 2.5 Export/import of Clients

You can export and import whole clients, including the settings (e.g. color schema, security, languages), all Business Cases and connections. When importing a client, the old client will be dropped and recreated from the definition file.

### 2.5.1 Export

You can export clients in the Clients menu.

Select the clients you want to export and click the export button:



The table below lists all existing clients of this environment. A client is a separated world with own connections, Business Cases, languages and security.

**Installed clients**

Client ID	Client name	Associated security groups	Order	Actions
<input checked="" type="checkbox"/>	Demo g2	Demonstration for IBM Cognos Analytics	↓ ↑	×
<input checked="" type="checkbox"/>	ApparoTutorials	ApparoTutorials	↓ ↑	×
<input checked="" type="checkbox"/>	test	test	↓ ↑	×
<input checked="" type="checkbox"/>	test2	test2	↓ ↑	×

Depending on the browser you are using, you will see a dialog that allows you to save (as) the exported definitions:



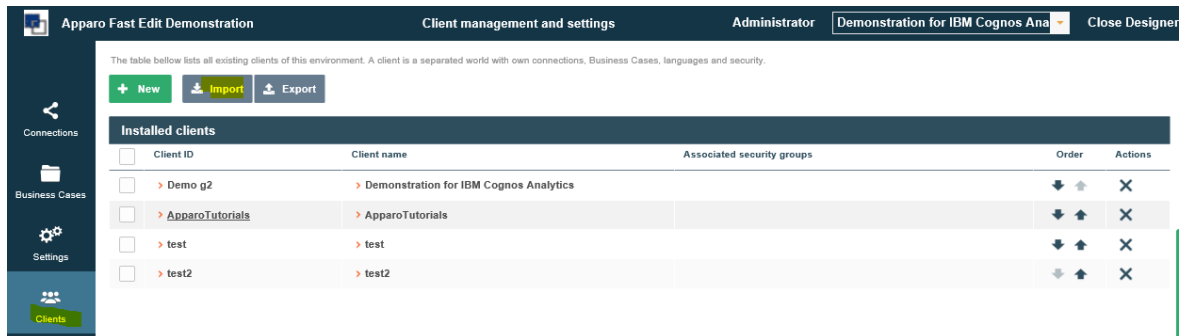
Do you want to save **Client backup.xml** from localhost?

Save  Cancel

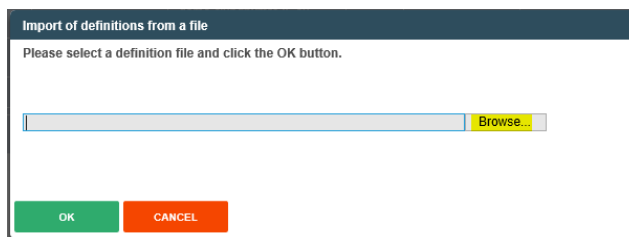
## 2.5.2 Import

When importing a client, the old client will be dropped and recreated from the definition file.

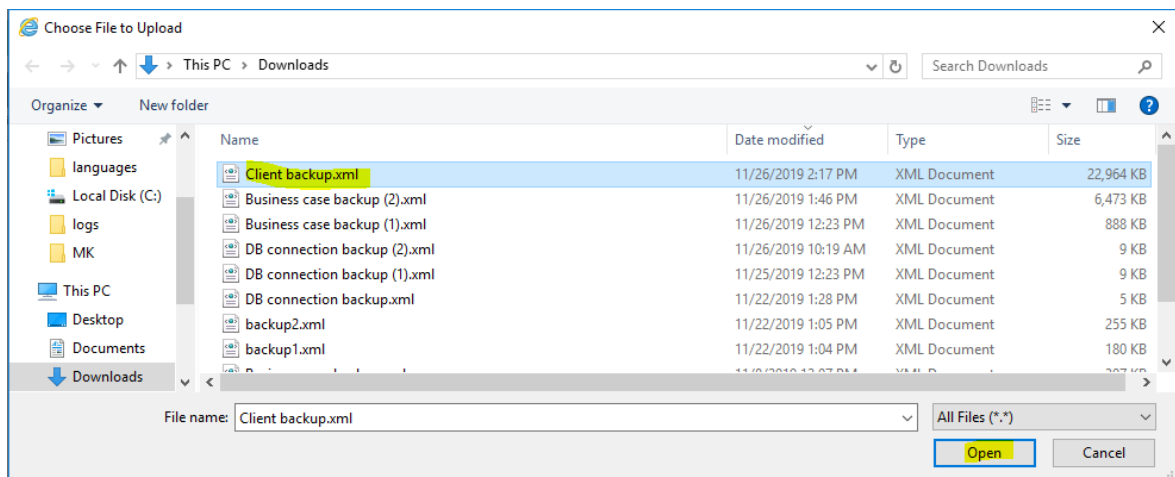
To import clients click the import button in the clients menu:



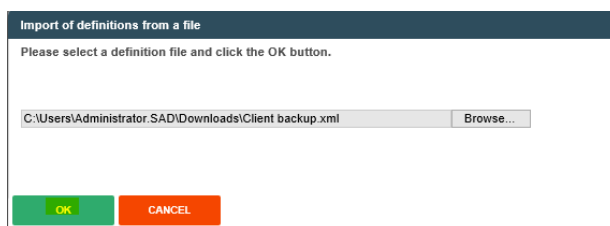
Then click browse:



Then select the client definition file and click on open:



Confirm with OK:





The final confirmation dialog appears.

You can select the containing clients you want to import, it also contains the option to

- Overwrite existing clients (activated by default)
  - Reusing connections if it is overwriting the complete client
- Import security settings (activated by default)

Import definitions from a file

Import options

☒ Overwrite existing clients  
When importing, if there is an existing client with the same name or identifier, the application must decide whether to use the import data, remove the existing client and create a new one or to leave the existing client intact and discard the import data.

☐ Keep all existing connections of overwritten clients  
All existing database or email connections of overwritten clients will stay intact. Only new database or email connections from import data will be added to overwritten clients.

☒ Import security settings. Setting has impact on client security settings and Business Case folders only.  
Business cases and folders may contain a list of user groups defining who can access them. If this option is not checked, this information will not be imported.

Please select items you want to import:

The table contains all supported items from the uploaded backup file. You can select which items you want to import.

When clicking the import button, the selected client(s) will be imported and completely overwriting old clients.

The summary shows what was imported:

Import definitions from a file			
Import results			
Definition name	Folder path	Definition type	Operation
Demonstration for IBM Cognos Analytics		Client	Existing definition was replaced by values from the import file.
SAMPLES DDL		Database Connection	New definition was created using values from the import file.
SAMPLES		Database Connection	New definition was created using values from the import file.
TOSCABL_RW		Database Connection	New definition was created using values from the import file.
AMSDWHP_PROD		Database Connection	New definition was created using values from the import file.
Email		Email Connection	New definition was created using values from the import file.
Action BC for checkbox in a list	\Demo page #10 Action BC and reports	Action Business Case	New definition was created using values from the import file.
Action BC no output	\Demo page #10 Action BC and reports	Action Business Case	New definition was created using values from the import file.
Action BC with output	\Demo page #10 Action BC and reports	Action Business Case	New definition was created using values from the import file.
Advanced auditing logging	\Demo page #08 logging & auditing	Table Business Case	New definition was created using values from the import file.
Business log of a client	\Demo page #08 logging & auditing	Table Business Case	New definition was created using values from the import file.
SendMailBC page1	\Demo page #01 Report Commenting	Email Business Case	New definition was created using values from the import file.
Comment BC_Single email	\Demo page #01 Report Commenting	Single Business Case	New definition was created using values from the import file.
Comment BC_Single email (ASCII text) page1	\Demo page #01 Report Commenting	Single Business Case	New definition was created using values from the import file.
Data hierarchy example	\Demo page #09 variables	Table Business Case	New definition was created using values from the import file.

OK

### 3 Export/import using scripts

You can use an import and export script (Windows and Linux) to automate the export/import process.  
**If blank characters are used in path specifications or names, they must be enclosed in quotation marks.**

Example: `afe-export.bat -f "C:\ Apparo backups\backup_test_client.xml" -clientId "test client"`

#### 3.1 Exporting using script

The export program is stored in the file directory "export": [APPARO\_HOME]\FastEdit\export

Use script **afe-export.bat** (Windows) or **afe-export.sh** (Linux)

(If you start the script without arguments then a list of all possible arguments is displayed)

<b>-afeUrl &lt;URL&gt;</b>	The Apparo Fast Edit URL address that will export the data. Example: <code>http://localhost:18000/KFE</code> . If you don't use this argument then the export is using the application server of this installation and its installation port.
<b>-bcid &lt;BUSINESS_CASE_ID&gt;</b>	ID of a Business Case you want to export.
<b>-clientId &lt;CLIENT_ID&gt;</b>	ID of a client you either want to export or an ID of a client the target object (Business Case, folder or connection) belongs to.
<b>-dbc &lt;CONN_NAME&gt;</b>	Name of a database connection you want to export.
<b>-emailc &lt;CONN_NAME&gt;</b>	Name of an email connection you want to export.
<b>-f &lt;FILEPATH&gt;</b>	Filename & path where to write the exported XML.
<b>-folderPath &lt;PATH&gt;</b>	Path of a folder you want to export. It should start with a slash character '/' which should also be used as a path separator.
<b>-h</b>	Displays this help text
<b>-p &lt;password&gt;</b>	The password used to authenticate. This setting is necessary in a secured environment.
<b>-u &lt;username&gt;</b>	The user used to authenticate. This setting is necessary in a secured environment.

All export activities are logged server side in file directory logs, file `afeexport.log`

Samples:

`afe-export.bat -f \etc\definition.xml -clientId DemoClient`

`afe-export.bat -f c:\demo.xml -folderPath / -clientId Demo`

`afe-export -f c:\connections.xml -dbc % -clientId Demo`

### 3.2 Importing using script

The import program is stored in the file directory "import": [APPARO\_HOME]\FastEdit\import

Use the script **afe-import.bat** (Windows) or **afe-import.sh** (Linux)

(If you start the script without arguments then a list of all possible arguments is displayed)

<b>-afeUrl &lt;URL&gt;</b>	The Apparo Fast Edit URL address that will export the data. Example: http://localhost:18000/KFE. If you don't use this argument then the export is using the application server of this installation and its installation port.
<b>-clientId &lt;CLIENT_ID&gt;</b>	ID of a client that Business Cases, language definitions, database messages or connection definitions will be imported into.
<b>-f &lt;FILE&gt;</b>	The file that contains the client, Business Case, language definition, database messages or connection definitions.
<b>-h</b>	Displays this help text
<b>-importSecurity &lt;true false&gt;</b>	Business cases and folders may contain a list of user groups defining who can access them. If this option is set to false, such security information will not be imported.
<b>-overwriteBc &lt;true false&gt;</b>	If true then Business Cases from the import file will overwrite already existing Business Cases if their Business Case ID are the same. If false, Business Cases with such conflicting identifiers will be skipped.
<b>-overwriteClient &lt;true false&gt;</b>	If true then clients from the import file will overwrite already existing clients with the same identifiers including client content like Business Cases. If false then clients with such conflicting identifiers will be skipped.
<b>-overwriteClientButRescueExistingConnections &lt;true false&gt;</b>	If this parameter is used, then all connections of an existing client that is currently being re-imported (and overwritten if present) will be left unchanged. Default=false. New connections are created.
<b>-overwriteConnection &lt;true false&gt;</b>	If true then database and email connections from the import file will overwrite already existing connections with the same names. If false then connections with such conflicting names will be skipped.
<b>-p &lt;password&gt;</b>	The password used to authenticate. This setting is necessary in a secured environment.
<b>-u &lt;username&gt;</b>	The user used to authenticate. This setting is necessary in a secured environment.

All import activities are logged server side in file directory logs, file afeimport.log

Sample:

**afe-import.bat -f \etc\definition.xml -u user\_name -p password XXX -clientId Sales**

### 3.3 Export/import of Connections

**If blank characters are used in path specifications or names, they must be enclosed in quotation marks.**

Example: **afe-export.bat -f "C:\Apparo backups\backup.xml" -clientId "test client" -dbc DB\_conn1**

#### 3.3.1 Export of Connections

The export program is stored in the file directory "export": [APPARO\_HOME]\FastEdit\export]

Use the script **afe-export.bat** (Windows) or **afe-export.sh** (Linux)

Arguments for connections are:

Email connection: **-emailc** <CONNECTION\_NAME>

DB connection: **-dbc** <CONNECTION\_NAME>

Example:

**afe-export.bat -dbc Databaseconnection1 -clientId Client1 -f C:\dbconn1.xml**

Exports the database connection 'Databaseconnection1' from client 'Client1' to the file c:\dbconn1.xml

You can use % and ? for the connection name too, e.g. % to export all connections or abc% for all connections that are starting with abc.

#### 3.3.2 Import of Connections

The import program is stored in the file directory "import": [APPARO\_HOME]\FastEdit\import]

Use the script **afe-import.bat** (Windows) or **afe-import.sh** (Linux)

To overwrite an existing connection you need the argument:

**-overwriteConnection true**

Example:

**afe-import.bat -f C:\dbconn1.xml -overwriteConnection true -client Demo**

Imports the database connection(s) from file dbconn1.xml into client "Demo".

### 3.4 Export/import of Business Cases

If blank characters are used in path specifications or names, they must be enclosed in quotation marks.

Example: `afe-export.bat -f "C:\ Apparo backups\backup.xml" -clientId "test client" -bcid Demo-BC1`

#### 3.4.1 Export of Business Cases

The export program is stored in the file directory "export": [APPARO\_HOME]\FastEdit\export]

Use the script **afe-export.bat** (Windows) or **afe-export.sh** (Linux)

Arguments for Business Cases are:

Business Case ID:       **-bcid** <BC\_NAME>  
Source client:       **-clientId** <CLIENT\_NAME>

Example:

**afe-export.bat -clientId Client1 -bcid BC\_NAME -f C:\BC\_Backup1.xml**

Exports Business Case 'BC\_NAME' from client 'Client1' to the file BC\_Backup1.xml on C:  
Also exported are folder structure and depending db and email connections of this Business Case.

#### 3.4.2 Import of Business Cases

The import program is stored in the file directory "import": [APPARO\_HOME]\FastEdit\import]

Use the script **afe-import.bat** (Windows) or **afe-import.sh** (Linux)

Example:

**afe-import.bat -f C:\BC\_Backup1.xml -clientId Demo**

Imports Business Case 'BC\_NAME' with original folder structure and depending connections (if not exists)  
from file BC\_Backup1.xml into client Demo.

### 3.5 Export/import of Business Cases using an Apparo Designer folder

It is possible to export complete folder structures of the Apparo Designer. That means all Business Cases that are stored in a folder and its sub folders.

#### 3.5.1 Export

The export program is stored in the file directory "export": [APPARO\_HOME]\FastEdit\export]  
Use the script **afe-export.bat** (Windows) or **afe-export.sh** (Linux)

Arguments for folders are:

Folder path: **-folderPath /<FOLDER\_NAME>/<SUB\_FOLDER>**  
(always use a / slash as first character, using the / slash without foldername, targets the clients main folder)

Source client: **-clientId <CLIENT\_NAME>**

Example:

**afe-export.bat -clientId Client1 -folderPath / -f C:\Folder\_Backup1.xml**

Exports all folder, subfolders and containing Business Cases from client 'Client1' to the file Folder\_Backup1.xml on C:

Also exported are depending db and email connections.

#### 3.5.2 Import

The import program is stored in the file directory "import": [APPARO\_HOME]\FastEdit\import]  
Use the script **afe-import.bat** (Windows) or **afe-import.sh** (Linux)

**Example:** afe-import.bat -f C:\Folder\_Backup1.xml

Imports all folders, subfolders and containing Business Cases depending connections (if not exists) from file Folder\_Backup1.xml

### 3.6 Export/import of Clients

If blank characters are used in path specifications or names, they must be enclosed in quotation marks.

Example: `afe-export.bat -f "C:\ Apparo backups\backup.xml" -clientId "test client"`

You can export and import whole clients, including the settings (e.g. color schema, security, languages), all Business Cases and connections. When importing a client, the old client will be dropped and recreated from the definition file.

#### 3.6.1 Export of Clients

The export program is stored in the file directory "export": [APPARO\_HOME]\FastEdit\export]

Use the script **afe-export.bat** (Windows) or **afe-export.sh** (Linux)

Arguments for clients are:

Source client: **-clientId** <CLIENT\_NAME>

Example:

**afe-export.bat -clientId Client1 -f C:\Client\_Backup1.xml**

Exports client 'Client1' to the file Client\_Backup1.xml on C:

Exported are all client settings, (e.g. color schema, security, languages), folder structure, Business Cases and depending db and email connections.

#### 3.6.2 Import of Clients

When importing a client, the **old client will be dropped and recreated from the definition file.**

The import program is stored in the file directory "import": [APPARO\_HOME]\FastEdit\import]

Use the script **afe-import.bat** (Windows) or **afe-import.sh** (Linux)

Example:

**afe-import.bat -f C:\Client\_Backup1.xml -client Demo**

Imports Client 'Client1' including the settings (e.g. color schema, security, languages), all Business Cases and connections from file Client\_Backup1.xml

Example 2

**afe-import.bat -f C:\Client\_Backup1.xml -client Demo -overwriteClientButRescueExistingConnections true**

Imports Client 'Client1' including the settings (e.g. color schema, security, languages), all Business Cases from file Client\_Backup1.xml. **All connections of the original client are kept intact.**

### 3.7 Defining custom XML import files

You can import database and email connections definitions using custom xml files.

These files have encrypted settings – like database name.

If you want to write your own xml files then you must change following XML-setting first:

Set

```
<encryptedXmlData>true</encryptedXmlData>
```

To

```
<encryptedXmlData>false</encryptedXmlData>
```

What's the best way to do that?

1. Define own database connection in Apparo Designer
2. Export this connection into a xml file
3. Now you can see the expected xml structure
4. Change the encryptedXMLData tag



## 4 Best practise for publishing to another environment

### 4.1 Publishing from development to production environment

Ideally, the development and production systems match, except for the database connections. The easiest way is if the schema and table names are identical and just the database name/server is different.

In this case, when transferring developed Business Cases from development to production, we recommend the following ways:

#### 4.1.1 Exporting just the Business Cases

- Create a client on target environment with the necessary settings, languages and database connections that are accessing the **production** data.
- Export all Business Cases to be transferred, either as single BC export or using the folder export.
- Import the Business Cases into the target environment.

Example:

Export all Business Cases that are in the Apparo Designer folder (and sub folders) of “controlling”:

```
C:\Program Files\Apparo\FastEdit\export>afe-export
usage: com.apparo.afe.cli.AfeCliExport [options]
  -afeUrl <URL>           The Apparo URL address that will export the
                           data. Example: http://localhost:18000/apparo.
                           If you don't use this argument then the export
                           is using the application server of this
                           installation and its installation port.
  -bcid <BUSINESS_CASE_ID> ID of a Business Case you want to export.
                           Wildcard characters '%' and '?' can be used.
  -clientId <CLIENT_ID>   ID of a client you either want to export (in
                           this case wildcard characters '%' and '?' can
                           be used too) or an ID of a client the target
                           object (Business Case, folder or connection)
                           belongs to.
  -dbc <CONN_NAME>        Name of a database connection you want to
                           export. Wildcard characters '%' and '?' can be
                           used.
  -emailc <CONN_NAME>     Name of an email connection you want to
                           export. Wildcard characters '%' and '?' can be
                           used.
  -f <FILEPATH>           File name and path where to write the exported
                           XML.
  -folderPath <PATH>      Path of a folder you want to export. It should
                           start with a slash character '/' which should
                           also be used as a path separator.
  -h                      Displays this help text
  -p <PASSWORD>          The password used to authenticate. This
                           setting is necessary in a secured environment.
  -u <USERNAME>           The user name used to authenticate. This
                           setting is necessary in a secured environment.

Wildcard character usage:
% = taking all
%abc% = taking all that are containing abc
abc? = taking all with starting abc and then 1 character

C:\Program Files\Apparo\FastEdit\export>
```

**afe-export -f c:\businessCases.xml -clientId "Client 1" -folderPath /controlling**

and then import it into the production environment with:

```
C:\Program Files\Apparo\FastEdit\import>afe-import
usage: com.apparo.afe.cli.AfeCliImport [options] file
  -afeUrl <URL>           The Apparo URL address that will
                           export the data. Example:
                           http://localhost:18000/apparo. If you
                           don't use this argument then the
                           export is using the application
                           server of this installation and its
                           installation port.
  -clientId <CLIENT_ID>   ID of a client that Business Cases,
                           language definitions, database
                           messages or connection definitions
                           will be imported into.
  -f <FILE>               The file that contains the client,
                           Business Case, language definition,
                           database messages or connection
                           definitions.
  -h                       Displays this help text
  -importSecurity <true|false> Business cases and folders may
                           contain a list of user groups
                           defining who can access them. If this
                           option is set to false, such security
                           information will not be imported.
                           Default is true.
  -overwriteBc <true|false> If true then Business Cases from the
                           import file will overwrite already
                           existing Business Cases if their
                           Business Case ID are the same. If
                           false, Business Cases with such
                           conflicting identifiers will be
                           skipped. Default is false.
  -overwriteClient <true|false> If true then clients from the import
                           file will overwrite already existing
                           clients with the same identifiers
                           including client content like
                           Business Cases. If false then clients
                           with such conflicting identifiers
                           clients will be skipped. Default is
                           false.
  -overwriteConnection <true|false> If true then database and email
                           connections from the import file will
                           overwrite already existing
                           connections with the same names. If
                           false then connections with such
                           conflicting names will be skipped.
                           Default is false.
  -p <PASSWORD>           The password used to authenticate.
                           This setting is necessary in a
                           secured environment.
  -u <USERNAME>           The user name used to authenticate.
                           This setting is necessary in a
                           secured environment.

C:\Program Files\Apparo\FastEdit\import>
```

**afe-import -f c:\businessCases.xml -clientId "Client 1" -overwriteBc true -overwriteConnection false**

Hint: If you use the Stand-Alone version of Apparo then you must use the -u and -p parameters too.

Important: All used **database connections/eMail connections** in the target environment are **NOT** overwritten because of the "overwriteConnection" parameter.

#### 4.1.2 Exporting and importing the complete client

Advantage: Using this way you can be sure that all Business Cases of a client are imported into the production environment.

##### Preparation:

- Create a new client on **development** environment with the necessary settings, languages and database connections that are accessing the development/test data
- **Import** the complete client into **production** environment
- **Update all database connections** and enter the settings for accessing the production data
- Now you can develop all Business Cases using the development environment

##### Updating the client of the production environment:

- **Export** the client of the **development** environment
- **Import** the client into the **production** environment and overwrite old client and rescue the already existing old production database connections with the setting **"overwriteClientButRescueExistingConnections true"**

Example:

Export complete client "Client1":

```
C:\Program Files\Apparo\FastEdit\export>afe-export
usage: com.apparo.afe.cli.AfeCliExport [options]
  -afeUrl <URL>           The Apparo URL address that will export the
                           data. Example: http://localhost:18000/apparo.
                           If you don't use this argument then the export
                           is using the application server of this
                           installation and its installation port.
  -bcid <BUSINESS_CASE_ID> ID of a Business Case you want to export.
                           Wildcard characters '%' and '?' can be used.
  -clientId <CLIENT_ID>   ID of a client you either want to export (in
                           this case wildcard characters '%' and '?' can
                           be used too) or an ID of a client the target
                           object (Business Case, folder or connection)
                           belongs to.
  -dbc <CONN_NAME>        Name of a database connection you want to
                           export. Wildcard characters '%' and '?' can be
                           used.
  -emailc <CONN_NAME>     Name of an email connection you want to
                           export. Wildcard characters '%' and '?' can be
                           used.
  -f <FILEPATH>           File name and path where to write the exported
                           XML.
  -folderPath <PATH>      Path of a folder you want to export. It should
                           start with a slash character '/' which should
                           also be used as a path separator.
  -h                     Displays this help text
  -p <PASSWORD>          The password used to authenticate. This
                           setting is necessary in a secured environment.
  -u <USERNAME>           The user name used to authenticate. This
                           setting is necessary in a secured environment.

Wildcard character usage:
% = taking all
%abc% = taking all that are containing abc
abc? = taking all with starting abc and then 1 character

C:\Program Files\Apparo\FastEdit\export>
```

**afe-export -f c:\businessCases.xml -clientId Client1**

and then import it into the production environment with:

```
C:\Program Files\Apparo\FastEdit\import>afe-import
usage: com.apparo.afe.cli.AfeCliImport [options] file
  -afeUrl <URL>           The Apparo URL address that will
                           export the data. Example:
                           http://localhost:18000/apparo. If you
                           don't use this argument then the
                           export is using the application
                           server of this installation and its
                           installation port.
  -clientId <CLIENT_ID>   ID of a client that Business Cases,
                           language definitions, database
                           messages or connection definitions
                           will be imported into.
  -f <FILE>               The file that contains the client,
                           Business Case, language definition,
                           database messages or connection
                           definitions.
  -h                       Displays this help text
  -importSecurity <true|false> Business cases and folders may
                           contain a list of user groups
                           defining who can access them. If this
                           option is set to false, such security
                           information will not be imported.
                           Default is true.
  -overwriteBc <true|false> If true then Business Cases from the
                           import file will overwrite already
                           existing Business Cases if their
                           Business Case ID are the same. If
                           false, Business Cases with such
                           conflicting identifiers will be
                           skipped. Default is false.
  -overwriteClient <true|false> If true then clients from the import
                           file will overwrite already existing
                           clients with the same identifiers
                           including client content like
                           Business Cases. If false then clients
                           with such conflicting identifiers
                           cients will be skipped. Default is
                           false.
  -overwriteConnection <true|false> If true then database and email
                           connections from the import file will
                           overwrite already existing
                           connections with the same names. If
                           false then connections with such
                           conflicting names will be skipped.
                           Default is false.
  -p <PASSWORD>           The password used to authenticate.
                           This setting is necessary in a
                           secured environment.
  -u <USERNAME>           The user name used to authenticate.
                           This setting is necessary in a
                           secured environment.

C:\Program Files\Apparo\FastEdit\import>
```

**afe-import -f c:\businessCases.xml -clientId Client1**

Now you can change all database connections manually in the Apparo Designer.

If you want to **update** the **production** environment again with your updated Business Cases of the development environment:

**afe-import -f c:\Client1.xml -clientId Client1 -overwriteClientButRescueExistingConnections true**

**Result:** Your production environment has a copy of the **complete client of the development environment** and all **database connections are using production data**.

## 4.2 Upgrading/moving the Apparo installation

When moving to a new server or when upgrading to a new version, you want a 1:1 copy of the existing installation.

The best way to achieve this, is exporting all clients in the old environment and then importing all clients into the new environment.