TIBCO PSG

Configuration Management Tools

User’s Guide

Version 0.2.0

Revision History

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1. Introduction

The Configuration Management Tools are a set of command line utilities to manage configuration profiles for TIBCO BusinessWorks 6 applications.

***Notes:***

* In case of question, please contact Pierre Ayel ([pierre.ayel@hcltech.com](mailto:pierre.ayel@hcltech.com) or pierre.ayel@cloud.com).
  1. Overview
* **Export** can extract configuration from one EAR file, one BW application code folder or .a set of BW applications or one single BW profile file into an excel spreadsheet.
* **Import** can merge profiles from one BW application with an excel spreadsheet or generate a single BW profile file from it.
  1. Known Issues

Table 1: Known Issues

| **#** | **Version** | **Issue** |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |

1. Installation
   1. Software Location

The tools are provided in a zip file called configtools-<version>.zip.

* 1. Installation on Windows
     1. Pre-Requisites
* A Java runtime environment (JRE) or JDK (version 1.8) must be available.
  + 1. Installation
* Extract the archive into a folder of your choice.
  1. Installation on Unix
     1. Pre-Requisites
* A Java runtime environment (JRE) or JDK (version 1.8) must be available.
  + 1. Installation
* Extract the archive into a folder of your choice (named <install-folder>below and in the rest of this document).

***Example:***

cd /opt/tibco

mkdir tools

cd tools

unzip configtools-0.1.0.zip

1. Export

The tools are a set of command line scripts for Windows and Linux. Each script usage is documented in its own chapter.

* 1. Description

This tool exports one or more existing BW application profiles into an existing or new Excel spreadsheet (in the ODS format). The resulting or existing spreadsheet can be opened with Microsoft Excel or Libre Office software.

On Windows, the script opens the new or updated spreadsheet file at the end of the execution (so Microsoft Excel of Libre Office is started and open the result file).

The existing profiles can come as:

* One single profile file (in the .substvar format, as stored in a BW application module).
* Or one BW application folder (the application Eclipse project, containing all profiles), in which case all profiles are added into the spreadsheet.
* One folder, in which case all profiles from all BW application module folders will be added into the spreadsheet.

If no spreadsheet exists, a new one is created by used a template provided with the tool.

Every profile name, such as <name>.substvar is considered as one environment. The profile contents is added into the spreadsheet into a column named <name> (one column per environment). If the column already exists from an existing spreadsheet, the content is merged with the existing column (existing row values are updated and missing ones are added, sorted in alphabetical order).

To execute the tool, run the bin/export.bat script on Windows or bin/export.sh on Linux.

In the result spreadsheet, each update is added into the revision page:

A screenshot of a computer

Description automatically generated

Figure 1: Revision Page

And each environment column is updated (for example all profiles from BW Code are updated in this page):

A screenshot of a computer

Description automatically generated

Figure 2: Configuration Page

* 1. Usage

On Windows, from any working directory, type the following:

<install-folder>\bin\export.bat <input> [<template> [<output>]] [--quiet]

On Linux, from any working directory, type the following:

<install-folder>/bin/export.sh <input> [<template> [<output>]] [--quiet]

Options can be provided in any order. Options inside [ ] are optional.

Options are listed in this table:

Table 2: Export <options>

| Parameter | Description |
| --- | --- |
| <input> | The location of the configuration source, which can be:   * One EAR file (the file name MUST end with “.ear”), * or one BW application folder (the folder name MUST contains the “META-INF/TIBCO.xml” file containing profile files, most of the times, this folder name ends with “.application”), * or one profile file (the file name MUST end with “.substvar” or “.profile”), * or one folder (containing BW application folders). |
| <template> | An existing Excel spreadsheet file (in the ODS format) to use as template or an existing configuration spreadsheet.  On Linux this parameter is mandatory.  On Linux, you can use “none” to use the default template provided with the tool.  On Windows, you can omit this parameters and <output> as well. |
| <output> | The location of where the result file will be written (as an Excel spreadsheet in the ODS format).  This can be the same as <template> in case you want to update an existing Excel spreadsheet.  On Linux this parameter is mandatory.  On Windows, you can omit this parameter so a new spreadsheet is created.  On Windows, the result spreadsheet will be opened (with Excel software). |
| --quiet | If present, the output Excel spreadsheet file is not opened by the tool.  This is useful when the tool is used on a CI/CD platform or within a set of batch scripts. |

***Notes:***

* If the <input> parameter is one BW application folder, the “Application Module” folder (containing the processes and resources of the application) MUST be available in the following locations:
  + <input-without .application extension>,
  + Or <input>.module.
  1. Usage Examples (Windows)

Export all the profiles from one BW application module folder /code/bw/myapp.application, and create a new spreadsheet:

<install-folder>\bin\export.bat /code/bw/myapp.application

Export all the profiles from one BW application module folder /code/bw/myapp.application, and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>\bin\export.bat /code/bw/myapp.application /docs/myconf.ods /docs/myconf.ods

Export the profile file /code/bw/myapp.application/META-INF/PROD.substvar, and create a new spreadsheet:

<install-folder>\bin\export.bat /code/bw/myapp.application/META-INF/PROD.substvar

Export profile file /code/bw/myapp.application/META-INF/PROD.substvar and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>\bin\export.bat /code/bw/myapp.application/META-INF/PROD.substvar /docs/myconf.ods /docs/myconf.ods

Export all the profiles from all the BW application module folders, recursively form the folder /code/bw, and create a new spreadsheet:

<install-folder>\bin\export.bat /code/bw

Export all the profiles from all the BW application module folders, recursively form the folder /code/bw, and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>\bin\export.bat /code/bw /docs/myconf.ods /docs/myconf.ods

* 1. Usage Examples (Linux)

Export all the profiles from one BW application module folder /code/bw/myapp.application, and create the new spreadsheet /docs/myconfig01.ods:

<install-folder>/bin/export.sh /code/bw/myapp.application none /docs/myconfig01.ods

Export all the profiles from one BW application module folder /code/bw/myapp.application, and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>/bin/export.sh /code/bw/myapp.application /docs/myconf.ods /docs/myconf.ods

Export the profile file /code/bw/myapp.application/META-INF/PROD.substvar, and create the new spreadsheet /docs/myconfig01.ods:

<install-folder>/bin/export.sh /code/bw/myapp.application/META-INF/PROD.substvar none /docs/myconf01.ods

Export profile file /code/bw/myapp.application/META-INF/PROD.substvar and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>/bin/export.sh /code/bw/myapp.application/META-INF/PROD.substvar /docs/myconf.ods /docs/myconf.ods

Export all the profiles from all the BW application module folders, recursively form the folder /code/bw, and create the new spreadsheet /docs/myconf.ods:

<install-folder>/bin/export.sh /code/bw none /docs/myconf.ods

Export all the profiles from all the BW application module folders, recursively form the folder /code/bw, and merge them into the existing spreadsheet /docs/myconf.ods:

<install-folder>/bin/export.sh /code/bw /docs/myconf.ods /docs/myconf.ods

1. Import

The tools are a set of command line scripts for Windows and Linux. Each script usage is documented in its own chapter.

* 1. Description

This tool merge one existing configuration with another.

If the input is a profile file, it merges its content with two existing Excel spreadsheet files (in the ODS format) and writes the result into a profile file. The environment column used from the two existing spreadsheet is the name of the input profile file (without the “.substvar” extension).

If the input is an application folder, it merges each profile file with two existing Excel spreadsheet files (in the ODS format) and writes the result into profiles of the application folder. The environment column used from the two existing spreadsheet is the name of the input profile file (without the “.substvar” extension).

The two Excel spreadsheet files can be used as one application profile (containing specific settings for one application) and one global application profile (containing settings for all applications). The tool uses the values from the global profile first. If a value is also present in the application profile, this one override the value from the global profile.

To execute the tool, run the bin/import.bat script on Windows or bin/import.sh on Linux.

* 1. Usage

On Windows, from any working directory, type the following:

<install-folder>\bin\import.bat <input> <app-config> <global-config> [<output>]

On Linux, from any working directory, type the following:

<install-folder>/bin/import.sh <input> <app-config> <global-config> [<output>]

Options can be provided in any order. Options inside [ ] are optional.

Options are listed in this table:

Table 3: Import <options>

| Parameter | Description | Examples |
| --- | --- | --- |
| <input> | The location of the configuration source, which can be:   * One profile file (the name MUST ends with “.substvar” or “.profile”), * or one BW application module folder (the folder name MUST contains the “META-INF/TIBCO.xml” file containing profile files, most of the times, this folder name ends with “.application”). | |
| <app-config> | The location of an existing Excel spreadsheet (in the ODS format) which contains the BW application specific configuration. | |
| <global-config> | The location of an existing Excel spreadsheet (in the ODS format) which contains the configuration for all your applications.  You can use the same spreadsheet location file for both <app-config> and <global-config> if you do not have any specific spreadsheet for your application. | |
| <output> | The location of the configuration target, which can be:   * not specified if the <input> is one BW application module folder * a new profile file where the configuration will be written. In this case, the name of the profile to merge. | |

* 1. Usage Examples

Merge one profile from the BW code into a new profile file for the “SIT” environment:

<install-folder>/bin/import.sh /code/bw/myApp.application/META-INF/SIT.substvar /config/myApp.ods /config/allApps.ods /tmp/output-profile.substvar

Update all profiles files inside the BW code folder:

<install-folder>/bin/import.sh /code/bw/myApp.application /config/myApp.ods /config/allApps.ods