



“Configurability enables flexibility and differentiation”

1 Introduction – MultiOne workflow 2.0

1.1 System requirements

The minimum system requirements for using MultiOne can be found in the MultiOne user manual.

1.2 Working with the various MultiOne interfaces

A description of the various MultiOne interfaces can be found in the MultiOne getting started and the MultiOne user manual.

Note: MultiOne Workflow only supports the USB2DALI and SimpleSet[®] interfaces.

1.3 Assumed knowledge

To be able to use MultiOne Command Line basic programming skills and a basic understanding of MS-DOS commands is assumed.

2 Table of contents

1	Introduction.....	2
1.1	System requirements.....	2
1.2	Working with the various MultiOne interfaces	2
1.3	Assumed knowledge	2
2	Table of contents.....	3
3	Attention points.....	5
3.1	General.....	5
3.2	DALI.....	5
3.3	SimpleSet® interface.....	5
4	Starting with MultiOne Workflow	6
4.1	Warning.....	6
4.2	Preferences.....	6
4.2.1	Workflow configuration	6
4.2.2	Supported devices configuration	6
4.2.3	Specifying the batch size	7
4.2.4	Activating MultiOne Workflow	7
5	MultiOne Workflow	10
5.1	Connection settings	10
5.1.1	Changing the connection settings	10
5.2	Opening a feature file	11
5.3	Entering the number of devices	12
5.4	Connect a device / Waiting for device	13
5.4.1	Connect a device (USB2DALI interface).....	13
5.4.2	Waiting for device.... (SimpleSet® interface).....	14
5.5	Device connected / Device found.....	15
5.5.1	Feature configuration file does not match connected device	16
5.6	Configuring done (USB2DALI interface)	17
5.7	Remove the device (SimpleSet® interface).....	18

5.8	Configuring failed	19
5.9	Configuring finished	20
6	MultiOne Command Line	21
6.1	Parameters.....	21
6.2	Exit codes	22
6.2.1	General	22
6.2.2	Related to writing feature data.....	22
6.2.3	Related to resetting the short address of a device	22
6.2.4	Related to selecting a feature file	22
6.2.5	Related to device features and feature file	22
6.2.6	Related to traceability	23
6.2.7	Related to identifying a device	23
6.2.8	Related to converting a feature file	23
6.2.9	Related to system preparation	23
6.2.10	Related to converting feature data	23
6.2.11	Related to the scheduler.....	23
7	The Workflow configuration file	24
8	The supported devices file	26
9	Changes	27
10	Copyright.....	28
11	Disclaimer.....	29
12	Limitations of damages.....	30

3 Attention points

3.1 General

Before starting MultiOne Workflow, make sure that the correct interface (USB2DALI, USB2ZigBee or SimpleSet[®]) has been connected to your computer.

When upgrading the Windows Operating System, make sure the connection settings are correct when using MultiOne again.

3.2 DALI

Lighting applications with DALI devices can be seriously affected by the presence/absence of the DALI short address. Make sure the DALI short address is as you expect, after finishing working with MultiOne.

3.3 SimpleSet[®] interface

Although multiple instances of MultiOne Workflow can be started; only the latest instance that has connected to SimpleSet[®] can work with the SimpleSet[®] interface.

4 Starting with MultiOne Workflow

4.1 Warning

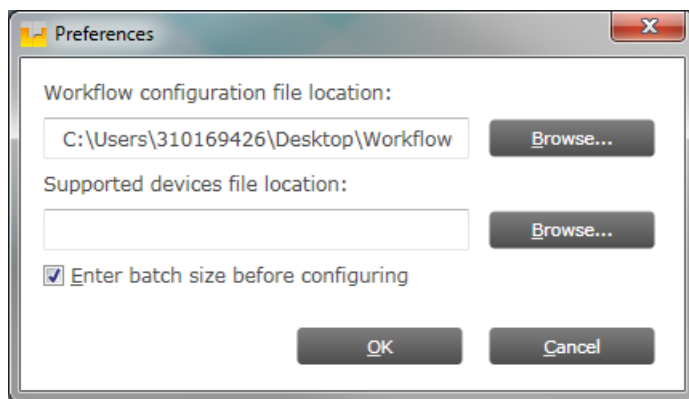
To be sure that the correct feature configuration file is used, it is strongly advised to use the latest version of MultiOne Engineering to create a feature configuration file.

Otherwise a feature configuration file can be validated by using MultiOne Basic to write the feature configuration file to the device that needs to be configured.

4.2 Preferences

Within the preferences window you can:

- select the workflow configuration file;
- select the supported devices file;
- enable or disable batch configuring.



4.2.1 Workflow configuration

To configure Workflow a configuration file is located in: {Your install location}\WorkflowConfig-TEMPLATE.txt. This file can be used as a template to create your own configuration file. The created file can be placed in any location on the pc and is used by selecting it via the **Tools->Preferences** menu.

To learn how to use this configuration file see chapter: **7 The Workflow configuration file**

4.2.2 Supported devices configuration

To make sure only supported devices can be configured a supported devices file can be created. The created file can be placed in any location on the pc and is used by selecting it via the **Tools->Preferences** menu.

To learn how to use this supported devices file see chapter: [8 The supported devices file](#)

4.2.3 Specifying the batch size

In the **Tools->Preferences** menu, if **Enter batch size before configuring** is checked, MultiOne Workflow lets you specify the exact number of devices to configure with a given feature file. MultiOne Workflow will keep track of progress during configuring. When all devices have been configured, the current batch will be completed and a new feature file can be selected.

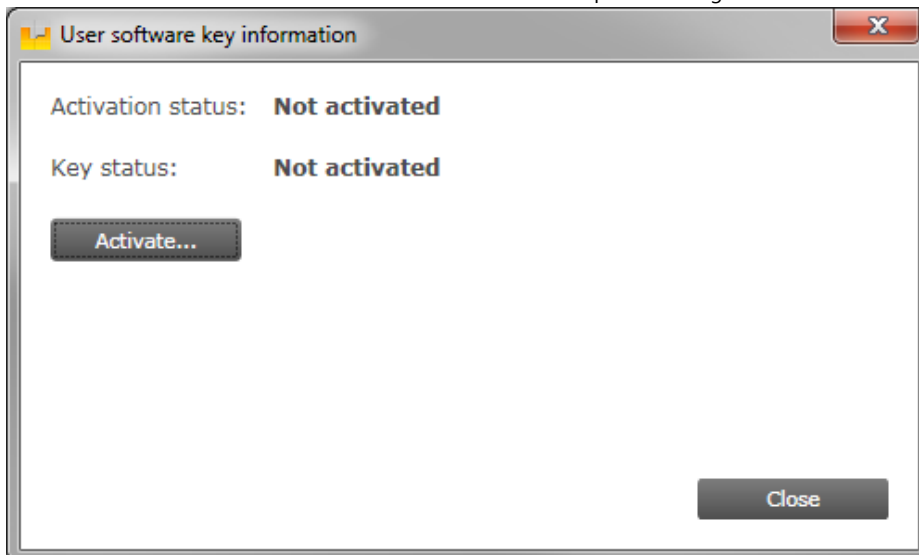
If **Enter batch size before configuring** is cleared, an infinite number of devices can be configured with a given feature file. To select a new feature file click **Cancel batch** at any time.

To learn how to enter the batch size see chapter: [5.3 Entering the number of devices](#)

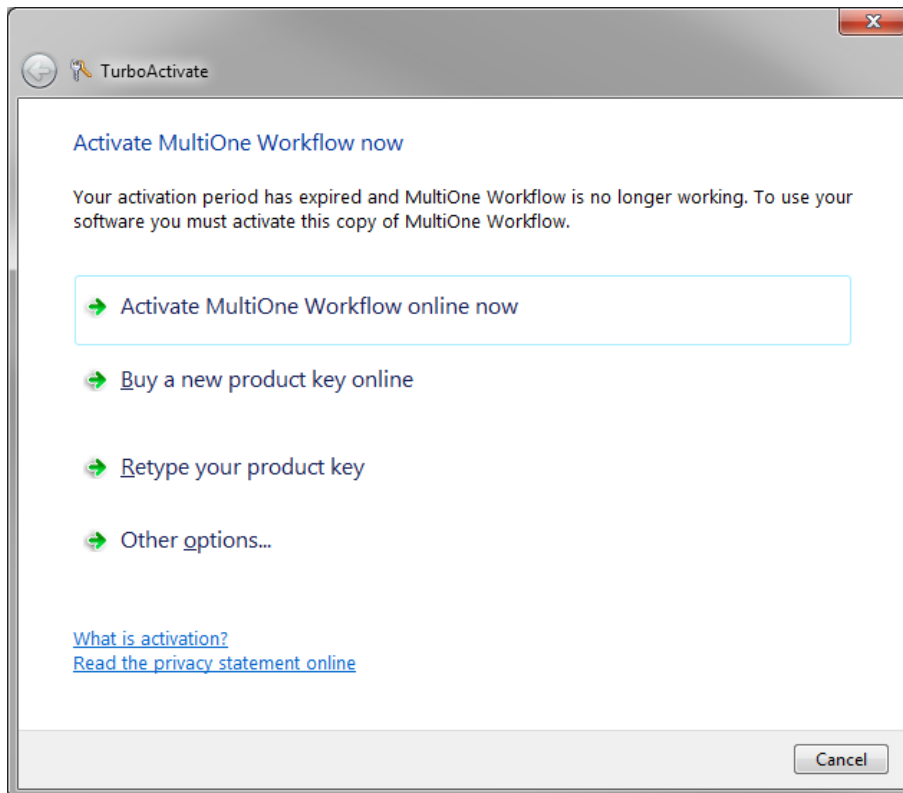
4.2.4 Activating MultiOne Workflow

Before starting MultiOne Workflow, make sure that a MultiOne interface is connected. When starting MultiOne the first time, the first window that appears is the **MultiOne Workflow user software key information**. Here you can activate your copy of MultiOne Workflow with your own user software key.

Note: MultiOne Workflow must be connected to the internet upon first usage in order to activate.



Use the **Activate...** button to continue activation.



Select **Activate MultiOne Workflow online now** and follow the instructions.

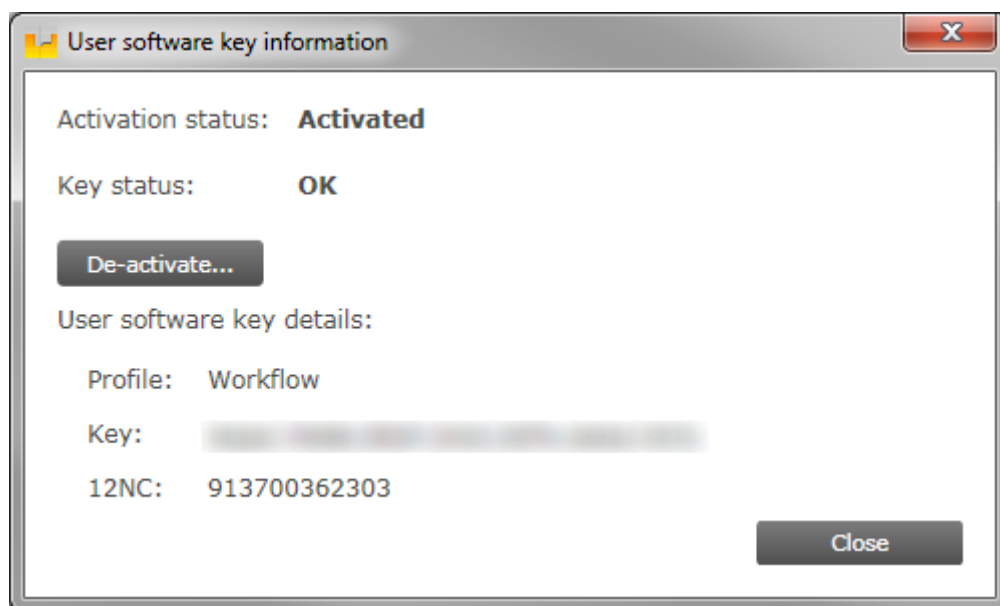
The other items on this window are less relevant. For completeness:

Select **Buy a new product key online** brings you to www.philips.com/MultiOne. Actually buying keys online is not supported.

Once you have activated MultiOne Workflow with a user software key, you can select **Retype your product key** to switch to a different user software key.

The other items shown on the dialog are not supported.

If all goes well the activation is successful and the MultiOne Workflow user software key information screen should show the correct details and supported features corresponding to the user software key.



MultiOne is now ready for use.

5 MultiOne Workflow

5.1 Connection settings

Before you start working with MultiOne Workflow you will need to set the connection settings. On first start MultiOne Workflow will detect what interfaces are connected to your PC or laptop.

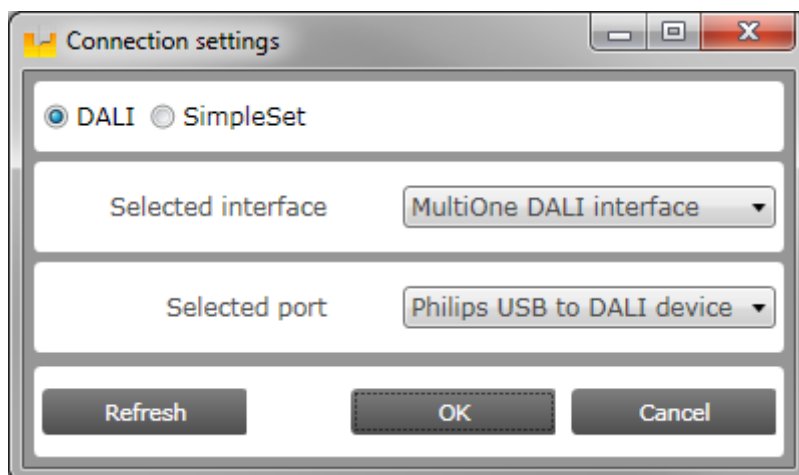
- When only one interface is connected this one will be automatically chosen.
- When one (or more) USB2DALI and one SimpleSet[®] interface is connected the connection settings window will appear.
- When two USB2DALI interfaces are connected the connection settings window will appear.

Connecting two SimpleSet[®] interfaces is currently not supported.

5.1.1 Changing the connection settings

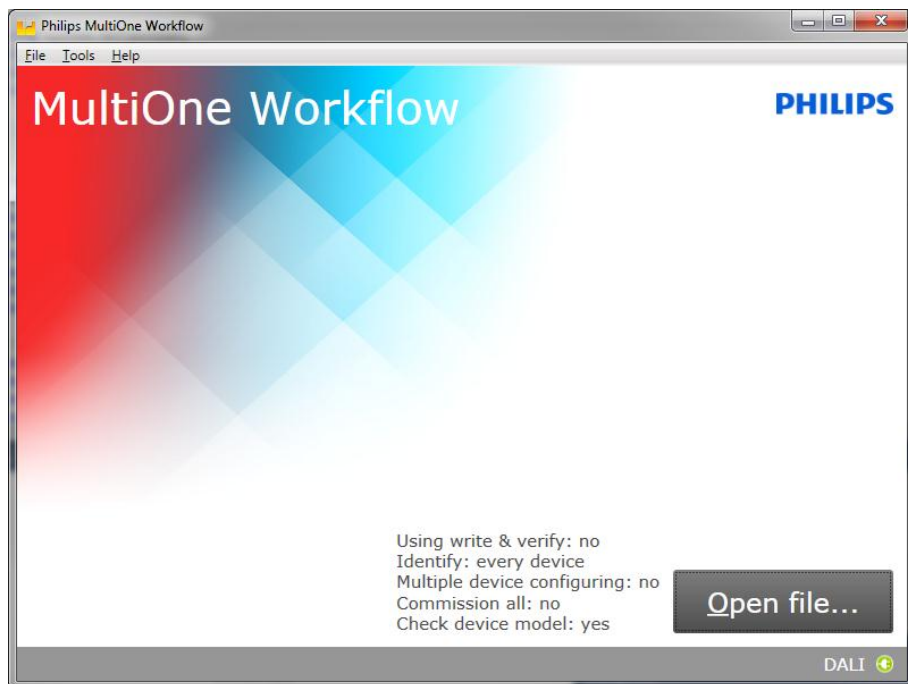
To change the connection settings go to **Tools → Connection settings...** This option is only available on the main application window.

Choose the protocol you want to use, DALI for the USB2DALI interface and SimpleSet[®] for the SimpleSet[®] interface.



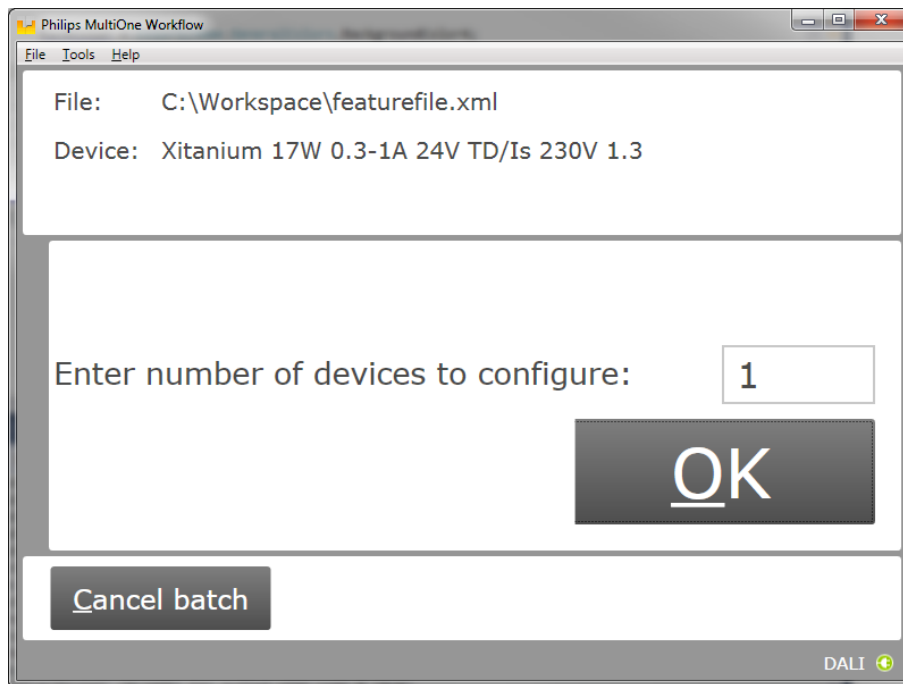
For the USB2DALI interface you will have the option to select the port that should be used.

5.2 Opening a feature file



To open a feature configuration file, select **File** → **Open...** or click **Open file...**. Select a file and click **Open**.

5.3 Entering the number of devices



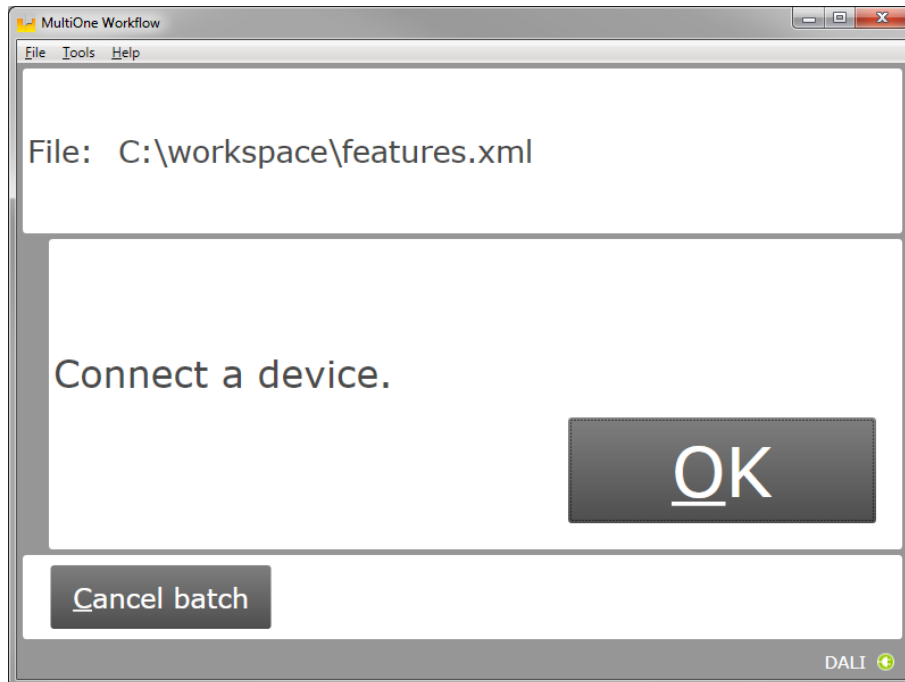
If in the preferences the option **Enter batch size before configuring** was checked, MultiOne Workflow will display a window in which the number of devices for this batch can be entered. The minimum number of devices is 1.

If the loaded feature file contains device information it will be shown (see screenshot above).

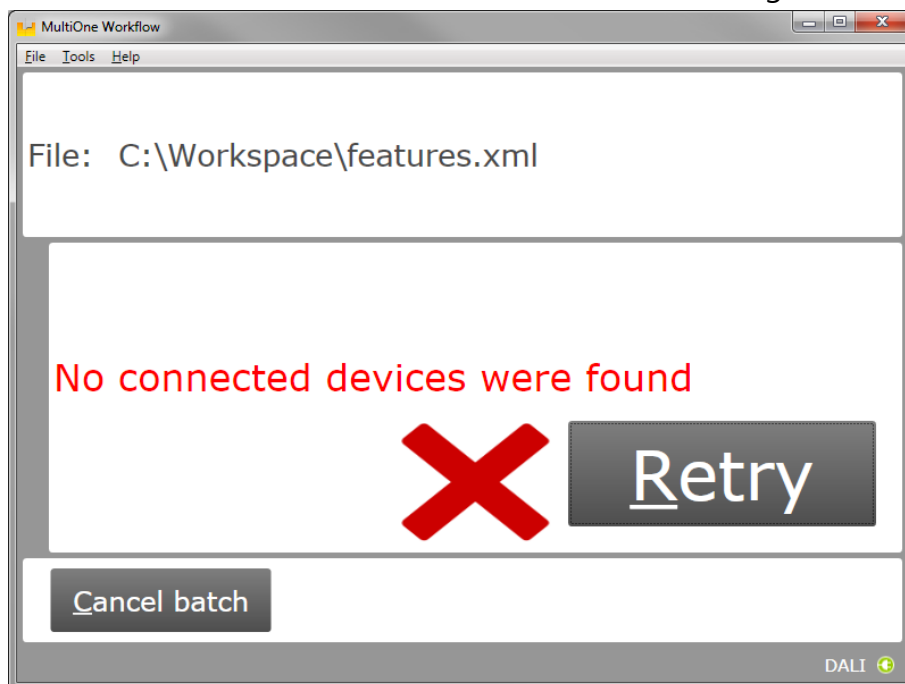
Click **OK** to continue. MultiOne Workflow will now keep track of batch progress during configuring (the amount of successfully configured devices is shown against the amount of devices to configure).

5.4 Connect a device / Waiting for device

5.4.1 Connect a device (USB2DALI interface)

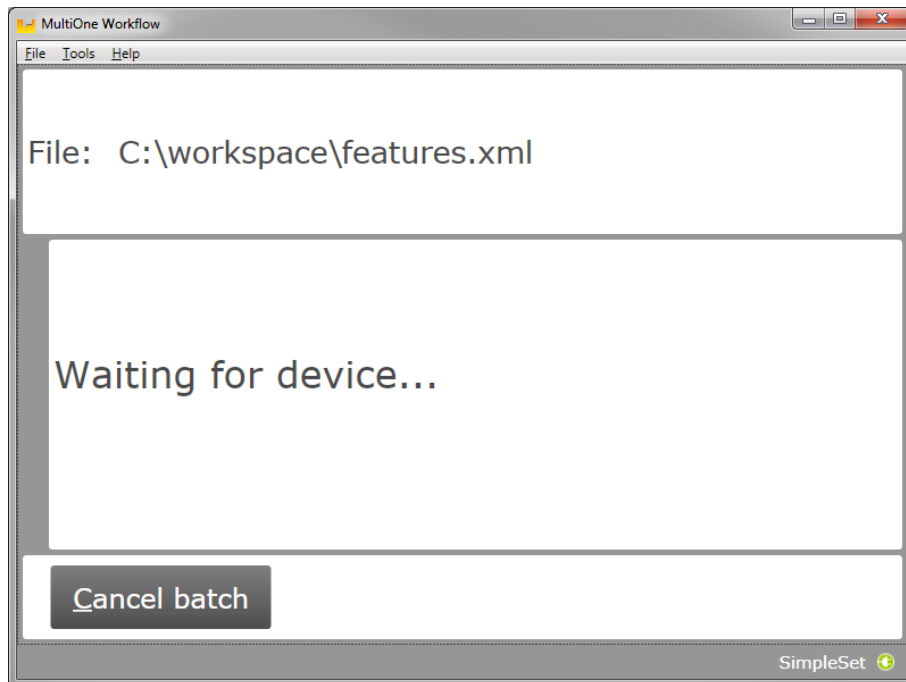


Use **Cancel batch** to go to the main application window. Click **OK** to continue. When **OK** is clicked and no device is connected, the following window will appear:



Connect a device and click **Retry** to try again, or click **Cancel batch** to go to the main application window.

5.4.2 Waiting for device.... (SimpleSet® interface)



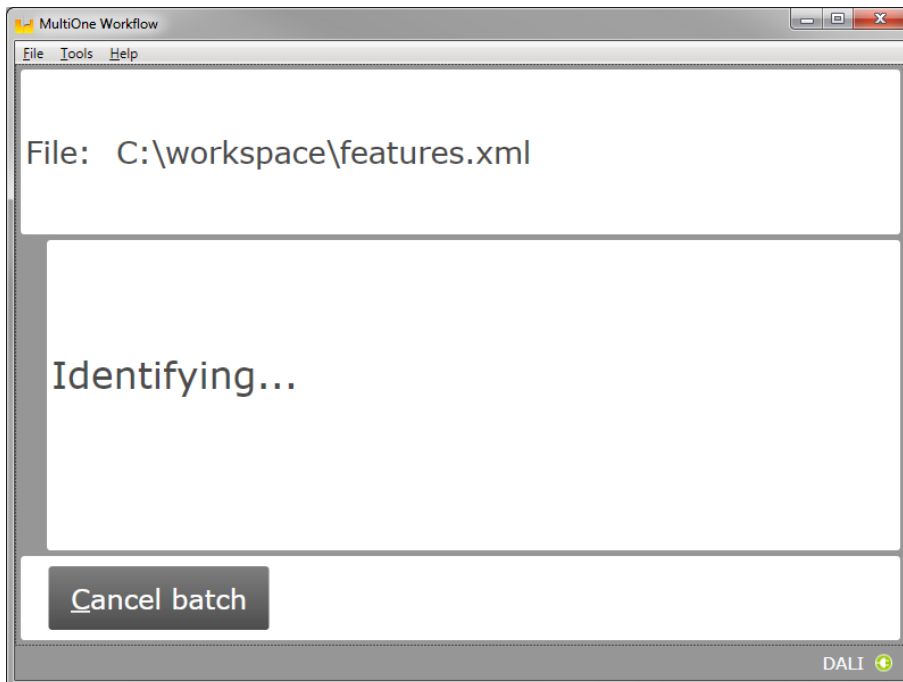
Use **Cancel batch** to go to the main application window. To continue hold the SimpleSet® interface close to the device.

5.5 Device connected / Device found

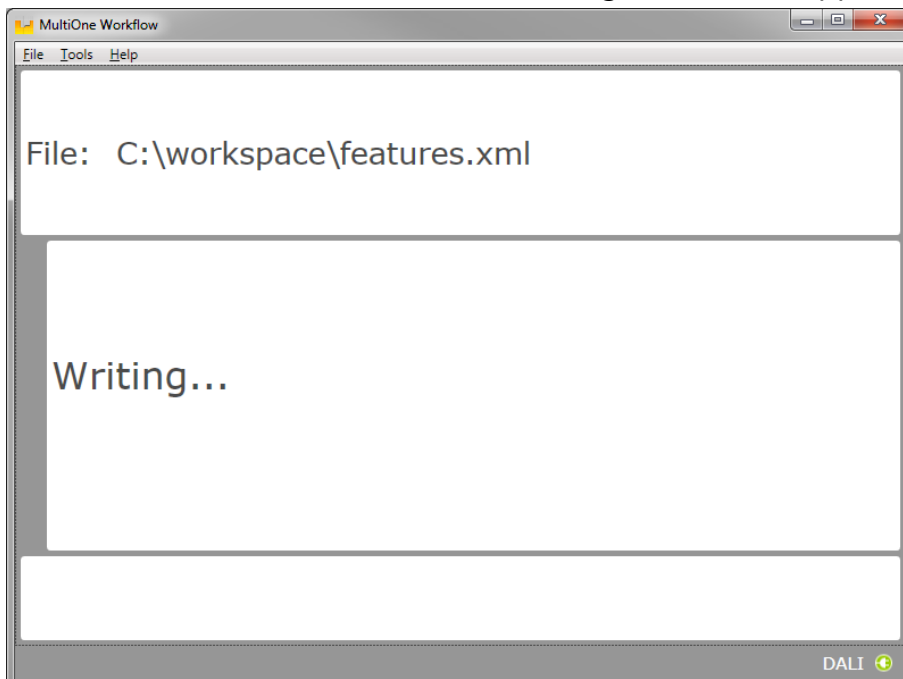
In case of **USB2DALI**: a device was connected and OK was selected.

In case of **SimpleSet**[®]: interface was moved close to the device.

The following windows will appear:

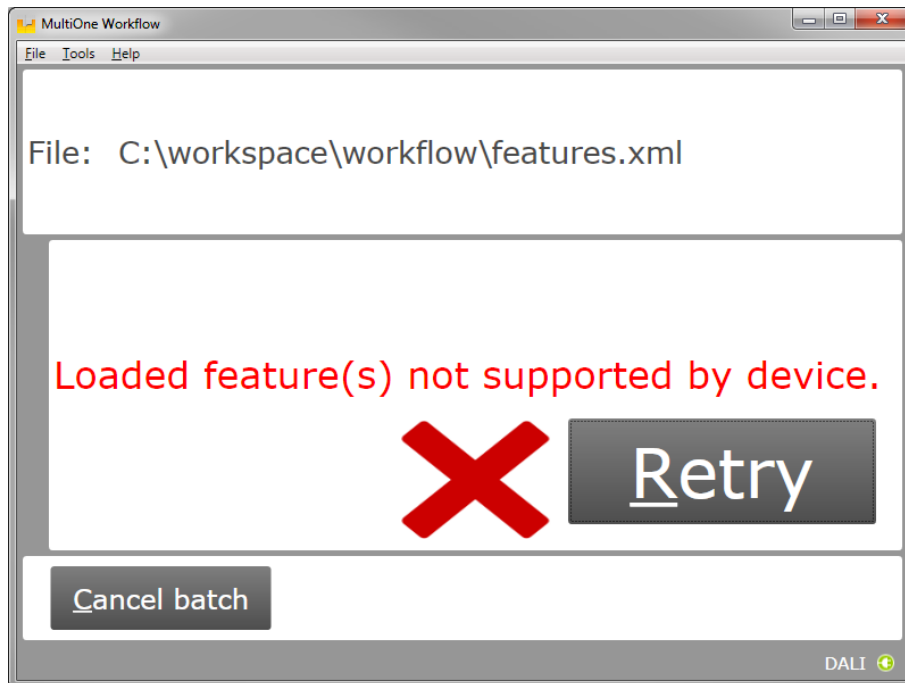


After successful identification, the following window will appear:



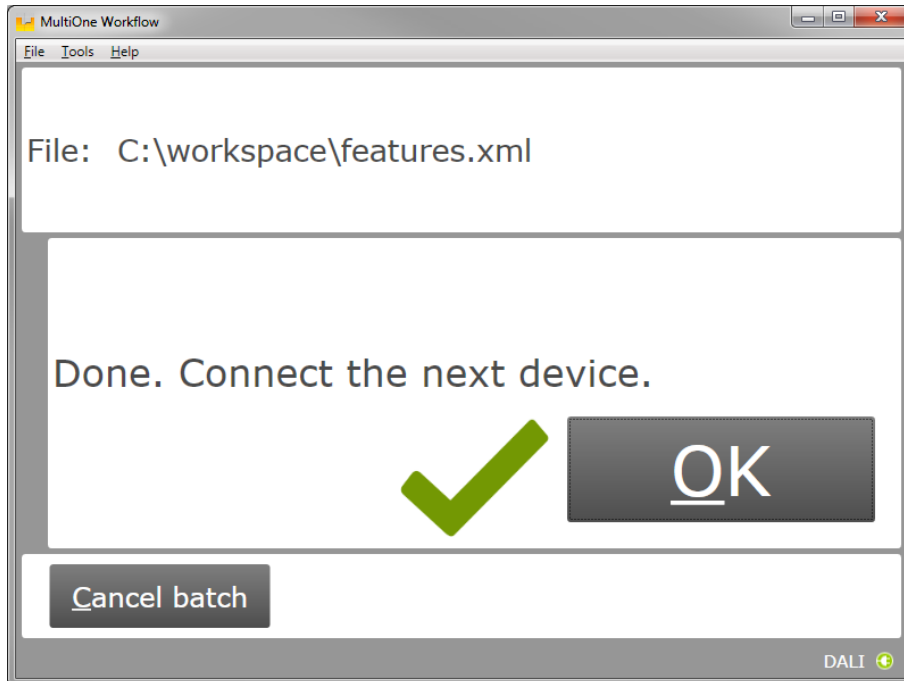
5.5.1 Feature configuration file does not match connected device

After successful identification, the following window will appear in case the feature configuration file contains a feature which is not supported by the connected device:



5.6 Configuring done (USB2DALI interface)

After successfully configuring the device, audible feedback can be heard and the following window appears:

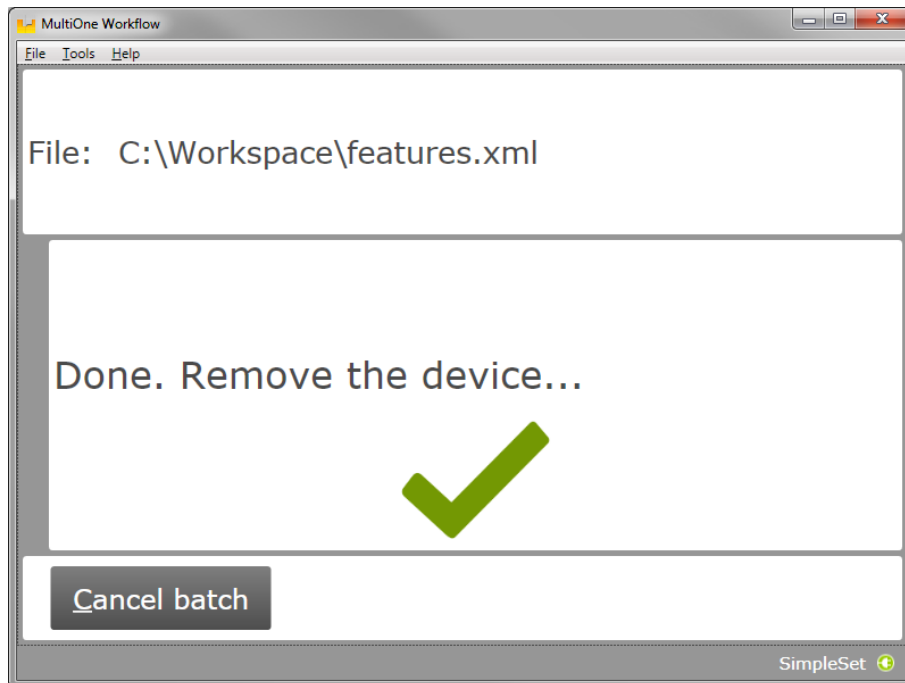


Disconnect the device and connect a new device. Click **OK** to configure the new device.

Click **Cancel batch** to go to the main application window.

5.7 Remove the device (SimpleSet® interface)

After successfully configuring the device, audible feedback can be heard and the following window appears:

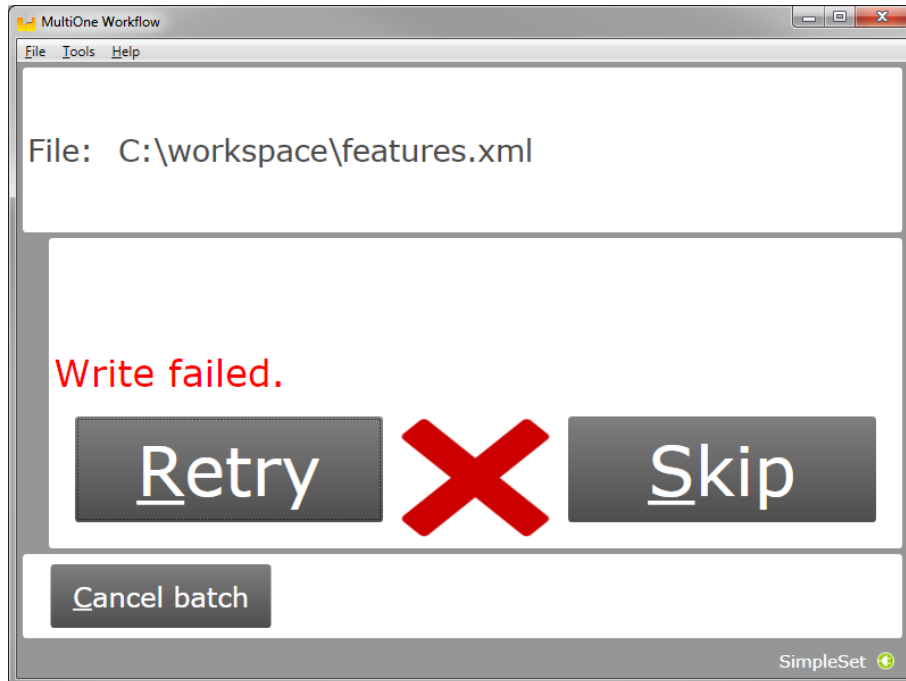


Move the SimpleSet® interface away from the device, MultiOne will then show the waiting for device view as explained in [5.4.2](#)

Click **Cancel batch** to go to the main application window.

5.8 Configuring failed

When configuring failed, an audible feedback can be heard and the following window appears (This is for both **USB2DALI** and **SimpleSet**® interface):



To retry the same device, click **Retry**.

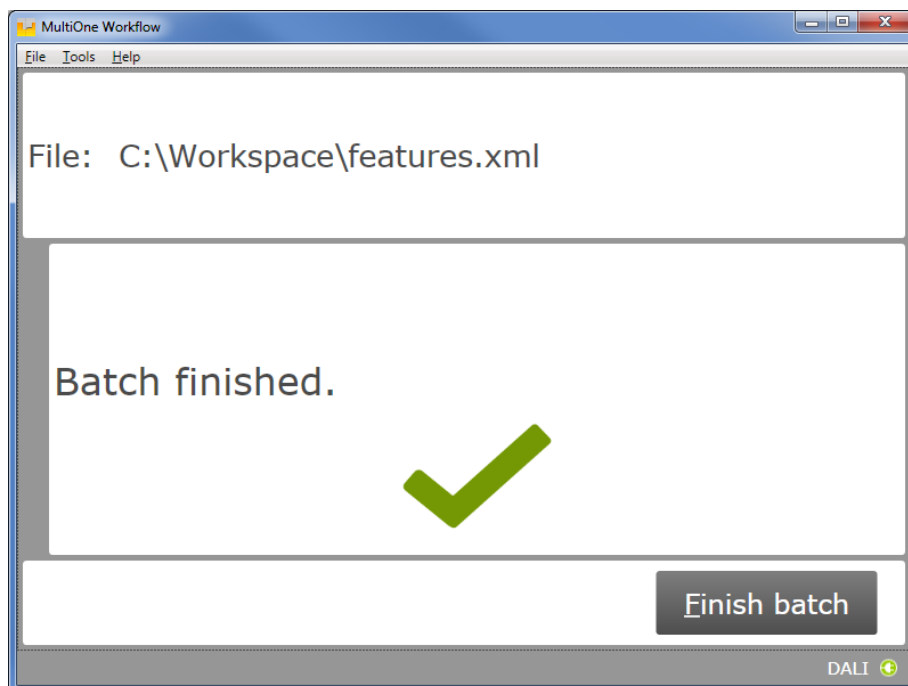
To skip configuring, disconnect the device, connect a new device and click **Skip**.

Click **Cancel batch** to go to the main application window.

5.9 Configuring finished

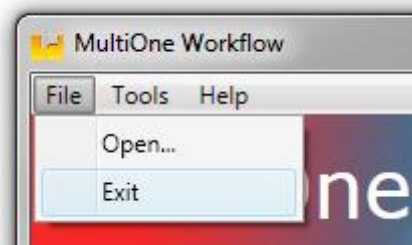
At any time during configuring, click **Cancel batch** to go to the main application window.

If in the preferences the option **Enter batch size before configuring** was checked and the specified number of devices have been configured correctly, MultiOne Workflow will indicate that the batch is finished. Note that devices that could not be configured correctly (and were skipped by the user) will not be counted for the batch progress.



Click **Finish batch** to go to the main application window.

Select **File** → **Exit** or click **Close** to exit MultiOne Workflow



6 MultiOne Command Line

MultiOne Command Line only runs from the Windows command line (console, MS-DOS prompt).

MultiOne Command Line is installed in the same directory as MultiOne Workflow.

6.1 Parameters

MultiOne Command Line is started using the following syntax:

MultiOneWorkflow.exe /f FeatureFile [/w WorkflowFile] [/i Interface] [/v Verbosity] [/c ContinueOnWarnings]

Or when using a schedule the following syntax:

MultiOneWorkflow.exe /s SchedulerFile /i [/d SupportedDevicesFile]

Note: The scheduler only works with DALI.

Parameters between brackets are optional. The parameters have the following meaning:

Option	Parameter	Meaning
/f	FeatureFile	The feature configuration file
/w	WorkflowFile	The workflow configuration file, see 7 The Workflow configuration file
/i	Interface	The MultiOne interface used for communication. Possible values: d USB2DALI interface (default) s SimpleSet [®] interface
/v	Verbosity	The verbosity level (the message types that are shown in the console) Possible values: info Show info, error and fatal messages (default) error Show error and fatal messages fatal Show fatal messages only
/c	ContinueOnWarnings	Whether MultiOne should halt on warnings or ignore them and continue. Possible values: continue Continue on warnings halt Halt on warnings and produce an error code
/s	SchedulerFile	The scheduler file
/d	SupportedDevicesFile	The supported devices file, see 8 The supported devices file

Example usage:

**MultiOneWorkflow.exe /f "c:\files\FeatureConfiguration.xml" /w
"c:\files\WorkflowConfiguration.xml" /i d /v fatal /c halt**

6.2 Exit codes

In addition to console output, MultiOne Command Line produces an exit code when terminating. These codes can be used to integrate MultiOne Command Line into a custom tool chain. The exit codes are listed in the following sections.

6.2.1 General

Exit code	Meaning
0	Success
1	User software key not activated
4	Verification failed
5	The interface provided as argument to the command line is wrong
9	Workflow configuration file not found
10	Workflow configuration file not valid
20	Supported devices file not found
21	Supported devices file not valid
-1	General application failure

6.2.2 Related to writing feature data

Exit code	Meaning
101	There are no features to write (there are no features in the feature file matching the features in the device)
102	Writing failed

6.2.3 Related to resetting the short address of a device

Exit code	Meaning
150	Resetting the short address of the device failed

6.2.4 Related to selecting a feature file

Exit code	Meaning
200	Feature file not present
201	Invalid feature configuration file
202	Feature configuration file is empty
203	Feature configuration file contains duplicate features

6.2.5 Related to device features and feature file

Exit code	Meaning
300	The device does not support all features from the feature file
301	The device is not of the model specified in the feature file

6.2.6 Related to traceability

Exit code	Meaning
400	Writing traceability information failed

6.2.7 Related to identifying a device

Exit code	Meaning
500	No device found
501	Too many devices found
502	Unable to execute discover (There is a problem with the connection settings / connected devices. Check if the correct connection settings being used and the MultiOne interface is connected properly)
503	Multiple devices share the same short address
504	Unsupported device detected

6.2.8 Related to converting a feature file

Exit code	Meaning
600	The feature file provided does not contain any features

6.2.9 Related to system preparation

Exit code	Meaning
700	No interface connected

6.2.10 Related to converting feature data

Exit code	Meaning
800	The feature file provided could not be converted to the latest version

6.2.11 Related to the scheduler

Exit code	Meaning
900	The provided scheduler file is invalid and could not be loaded.

7 The Workflow configuration file

The workflow configuration is the same for MultiOne Workflow and MultiOne Command Line. The configuration file contains the following options (by default all options will be disabled):

Parameter	Meaning
verify	When enabled MultiOne Workflow will perform a Write & Verify while configuring the devices. When disabled only a Write will be performed. true verify is enabled false verify is disabled
identifyalways	When enabled Workflow will identify every device; otherwise it will identify only once. Disabling will increase the speed of the configuring process. (The assumption in the latter case is that MultiOne Workflow is used to consecutively configure a batch of devices of the same device type.) true identifyalways is enabled false identifyalways is disabled
multidevice	When multidevice is enabled MultiOne Workflow will allow multiple devices of the same device type to be simultaneously configured. Multidevice cannot be enabled together with the verify option. When multidevice is enabled identifyalways also has to be enabled. true multidevice is enabled false multidevice is disabled
checkdevicemodel	When enabled MultiOne Workflow will check if the connected device matches the device model that is included into the feature configuration file and raises an error if they do not match. If the feature configuration file does not contain any information about the device model (files created with MultiOne 2.6.5 or older) an error will be raised. true checkdevicemodel is enabled false checkdevicemodel is disabled
commissionall	When commissionall is enabled MultiOne Workflow will commission all connected devices. Also, when commission all is enabled the short addresses of the connected devices are not reset anymore true commission all is enabled false commission all is disabled

Notice! Before **simultaneously** configuring devices, the lowest short address needs to be unique. Therefore, as part of configuring, short addresses might need to be changed. In case such a change was needed all short addresses will be reset to 255 after configuring. Remember that applications can be affected by a change of the short address.

Examples of the workflow configuration file (a template for the configuration file can also be found in the MultiOne Workflow installation directory):

For consecutive configuring	For simultaneous configuring
<code>verify=true identifyalways=true multidevice=false commissionall=false</code>	<code>verify=false identifyalways=true multidevice=true commissionall=false</code>

Notice! `identifyalways` is currently only supported when using DALI. When using NFC every device will always be identified.

Notice! `multidevice` is currently only supported when using DALI.

Notice! Files in c:\Program Files or c:\Program Files (x86) can't be edited by Windows users who don't have administrator privileges. It is recommended to choose a different location for the workflow configuration file.

8 The supported devices file

The supported devices file is a file that describes which devices are supported during execution. If a connected device is not supported the execution fails. The supported devices file is the same for MultiOne Workflow and MultiOne Command Line.

Example of the supported devices file (a template for the supported devices file can also be found in the MultiOne Workflow installation directory):

```
<?xml version="1.0" encoding="utf-8"?>
<Products xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" FileVersion="1.0">
  <Product>
    <ProductName>Xitanium 27W 1.0A Prog+ 230V J-sXt</ProductName>
    <FactoryFirmwareVersion>V01E01</FactoryFirmwareVersion>
  </Product>
  <Product>
    <ProductName>HF-Ri TD 3 14/24 TL5 E+</ProductName>
    <FactoryFirmwareVersion>1.4</FactoryFirmwareVersion>
  </Product>
</Products>
```

The first line describes the xml version. This never changes.

The second line describes the xml schema used and the version of the supported devices file. The xml schema specified is the default one and will never change. The version of the supported devices file can change in the future.

Then, depending on the amount of supported devices for every supported device a 'Product' element must be specified. Within the 'Product' element there are two subelements called 'ProductName' and 'FactoryFirmwareVersion'. The 'ProductName' subelement holds the name of the product where the 'FactoryFirmwareVersion' holds the version of the product.

9 Changes

The previous configuration file used by MultiOne Workflow located in **c:\temp\workflow.xml** has been **deprecated** and will no longer be supported in a future version of MultiOne Workflow (& Command Line).

We highly advice you to start using the new configuration file as described in **7 The Workflow configuration file**

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