

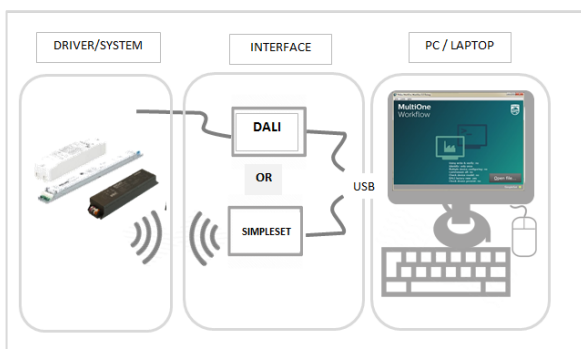


Information Note: Getting Started with MultiOne Workflow

Introduction

MultiOne workflow is built as a universal software for our total programmable driver and devices portfolio, it is used to configure our drivers/systems in the production environment. This introduction is based on the Workflow GUI Application using SimpleSet technology.

Building Blocks

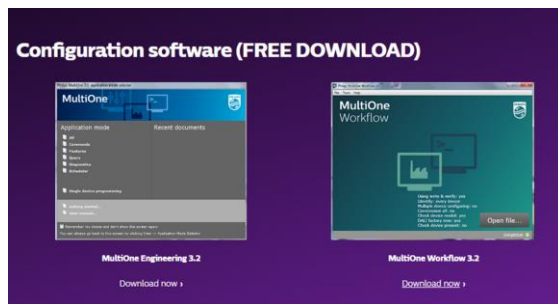


Minimum Requirements:

1. Windows based PC or laptop
2. MultiOne USB interface tool
3. Programmable Philips drivers

Note: See [Appendix A](#) for specific component requirements

MultiOne Workflow Installation

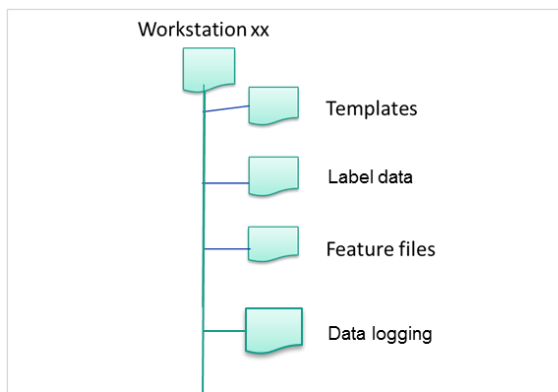


Download

To download the latest version of MultiOne Workflow, go to: www.Philips.com/MultiOne

Note: if no internet available on the production PC, make use of intranet or USB to install on your PC.

The Workflow Installation includes both the Workflow (user friendly GUI based app) and the Command Line (use for custom integration) applications.



Software Set up

Create the necessary file structure as shown in the adjacent diagram.

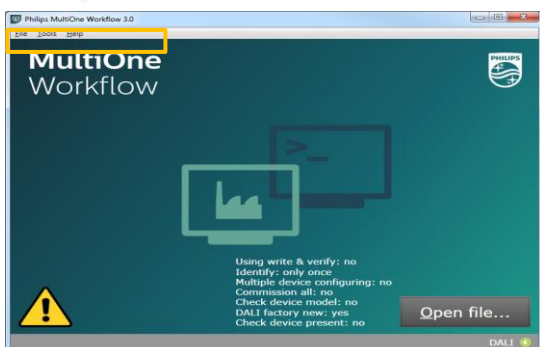
Note:

- Add the workflow config files (downloaded from the website) in the template map
- DALI : adjust the template according your application



Hardware Set up

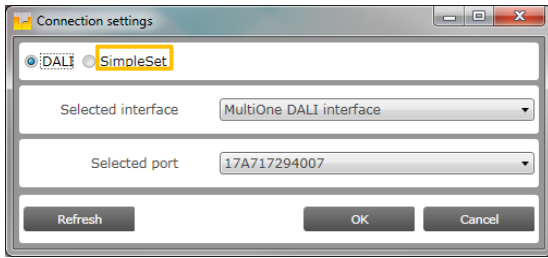
Connect the MultiOne USB interface and allow for device drivers to be installed



Find the MultiOne Workflow icon to run the application.

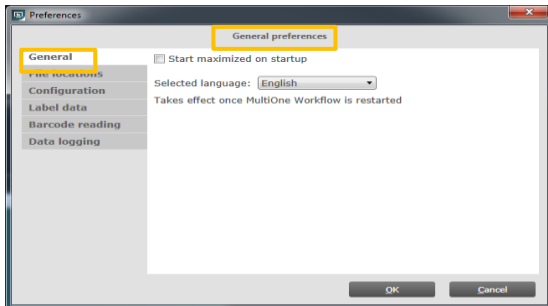
The Workflow user manual can be accessed by selecting Help -> User Manual

Note: Only one MultiOne application can be active at a time



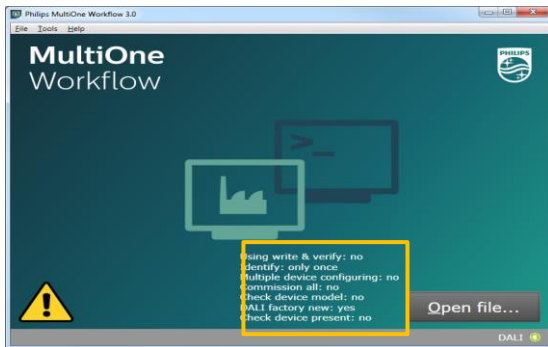
Set the Interface Type by selecting Tools -> Connection Settings -> SimpleSet -> Refresh -> OK

Once SimpleSet interface is selected, the Communication Status Icon located in the lower right corner will update to green.



Application Set up

Select a Language by selecting Tools-> Preferences-> General-> Selected Language [English, Chinese, German & Spanish languages available]

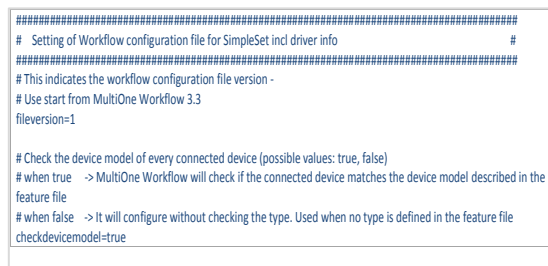


Set the workstation by use of a Workflow Configuration File.

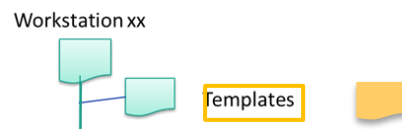
A Configuration workflow Template can be found at:

- C:\Program Files (x86)\Philips MultiOne Workflow
- Or
- www.philips.com/MultiOne , chapter getting started , file workflow

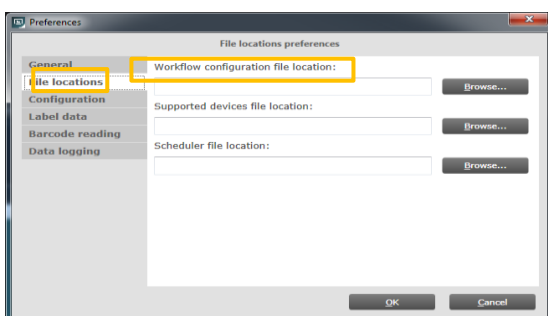
Note: not the correct workflow conf. file or no file installed -> error message 237



Copy and rename the template to a folder and name of your choice



Open the new template to modify the advanced settings. See [Appendix B](#) for detailed advanced settings descriptions.

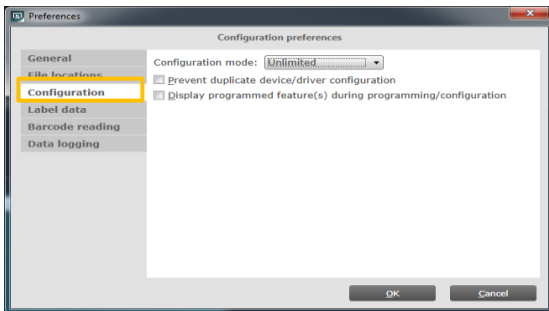


Load the workflow config file: select Tools -> Preferences -> File Location -> Workflow Configuration File Location -> Select the new Template.

Restart the Workflow Application for the settings to take effect.

Verify settings in the home screen.

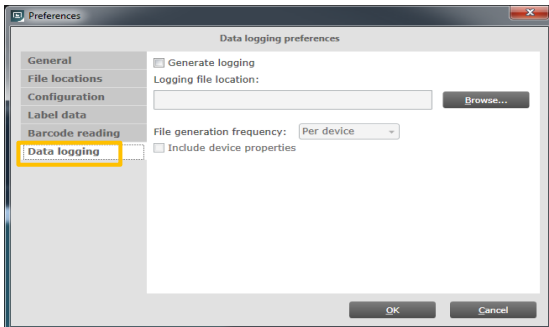
MultiOne Workflow Advanced Settings



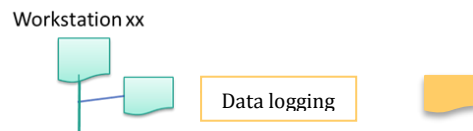
Select specific extra settings via
Tools -> preferences -> configuration

- different configuration mode (batch, ...)
- allow or prevent duplicate configuration of same device in a batch configuration
- enable or disable displaying the features that are written during configuration

press OK to confirm



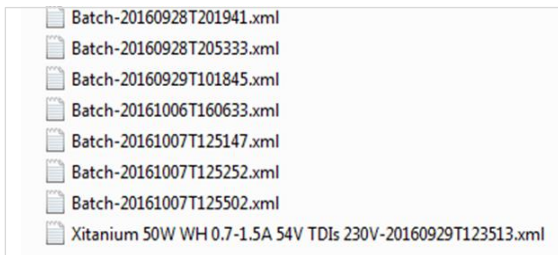
Track the configuration of drivers by
Select -> preferences -> data logging -> select generate logging



Select the location for saving all data logging
Press Browse

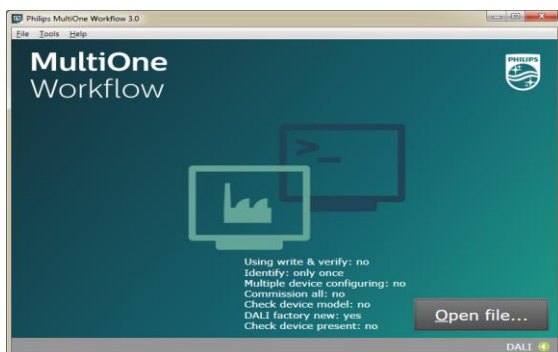
Select -> include device properties (information of the driver) if needed

Select generation frequency
-> information is grouped by:
Batch/device/day/week/month



The information will be available as xml.file
This information can be converted to the required format (example excel)

Configuration with workflow



Start production when all settings are correct

Open file

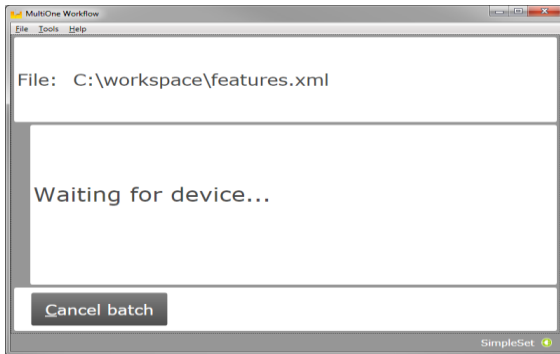
Select the required feature file

Fill in the required information

- batch size
- custom fields

press ok

System is ready to configure



Take a device and make contact between both antenna 's

Depending on the settings, we see the messages:

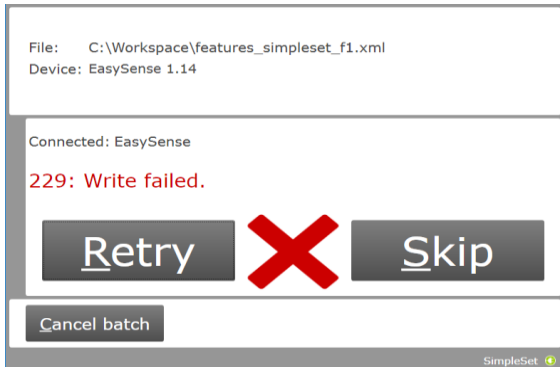
- identifying
- write
- generating and exporting data
- done (including sound and green V)

The next device can be put in contact with the antenna of the interface

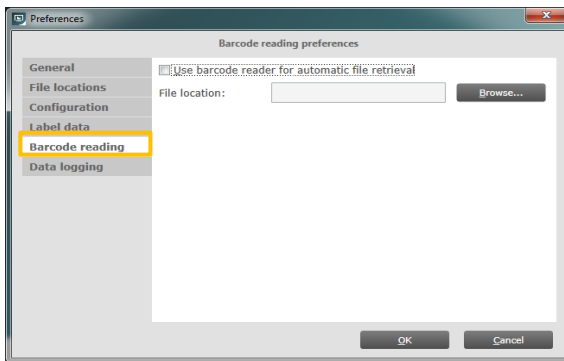
Retry the configuration, if the configuration fails.

An error message is given on the screen to help understand the problem

When the batch is finished, a new file can be opened



Barcode Reader Installation



Select Tools -> Preferences -> Barcode reading

Activate the functionality of barcode reading and fill in the location where the reader gets the feature file



Press Browse to confirm

Create barcodes with only the name of

- the feature file
- feature file = name.xml => barcode = name

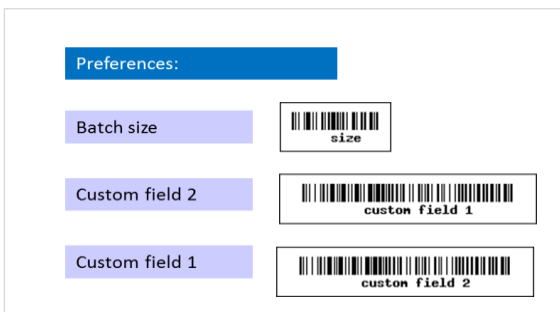
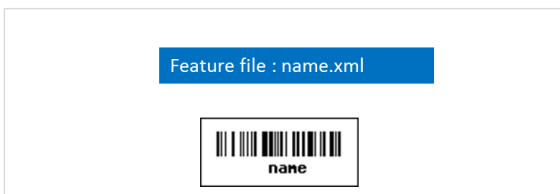
Possible converter could be :



Also other information like

- the custom fields
- the batch size

can be scanned after converting to barcode



Column name	Unit	Value	Included
Date	dd-MM-yyyy	The date the label data was generated	Always
Time	Hh:mm	The time the label data was generated	Always
FeatureConfigurationFilePath	n/a	The path to the feature configuration file	Always
FeatureConfigurationFileName	n/a	The name of the feature configuration file	Always
Device Id	n/a	The unique identifier of the device	If configured to be included
Configuration Result	n/a	Successful or Failed	Always
Custom Field 1	n/a	Custom value 1	If configured to be included
Custom Field 2	n/a	Custom value 2	If configured to be included
Device Model	n/a	Device model (for example: Xitanium Outdoor 150W .35 Prog+ H)	Always

The content of this csv.file consist of the info as described, included the feature file information of the features:

- AOC
- MTP
- Dimming Interface
- Dynadimmer

Appendix A – basic building blocks



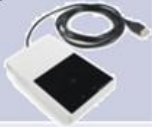

1. PC – Laptop

Before installing, make sure the PC or laptop complies with the minimum system requirements for using MultiOne:

- PC or laptop with Microsoft Windows 7 SP1, 8, 8.1 and 10
- Multiple USB 2.0 or 3.0 port(s):
Do check if the USB port is strong enough to power the interface -> typical 500mA needed -> measure before starting
- At least 45 MB of free disk space
- Microsoft .NET Framework 4.6.1 (This is a Microsoft Windows package that MultiOne need for specific functions.)
We are not able to include this in our software due to dependence of Windows version.

- o If PC is linked to the internet, and previous version of .NET Framework is available on you system, Microsoft .NET Framework 4.6.1 will be installed (installation takes some extra time)
- o If PC is not linked to the internet, you need to install manually this version on your PC
More info and package available on this link
<https://www.microsoft.com/en-us/download/details.aspx?id=49982> : Microsoft .NET Framework 4.6.1 (Offline Installer) for Windows 7 SP1, Windows 8, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 and Windows Server 2012 R2

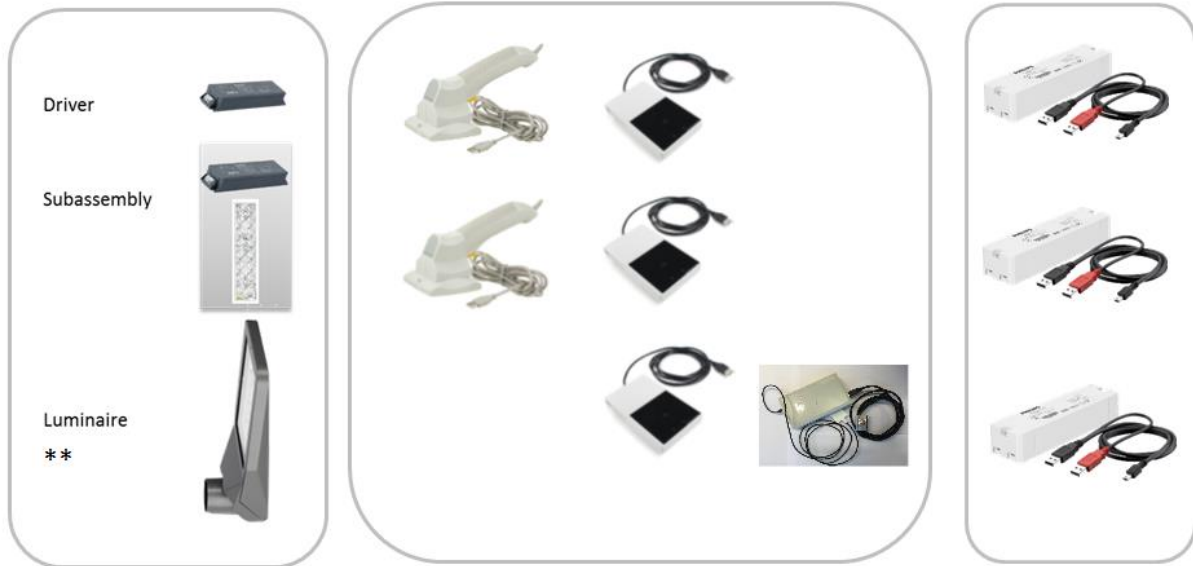
2. Interface tools

Type of tool	MultiOne name	Supplier + Basics	More info:
DALI 	LCN8600 MultiOne interface USB2DALI	Philips <ul style="list-style-type: none"> • tool developed by Philips • specific for MultiOne 	<ul style="list-style-type: none"> - Multiple configuration (up to 64 same drivers at the same time) - Also used for DALI functionalities (scheduler, commands,...)
SimpleSet 	LCN 9610 MultiOne interface SimpleSet	FEIG : <ul style="list-style-type: none"> • Tool based on ID ISC.PRH101-USB HF • Aligned with our software -> recognized by LCN code 	<ul style="list-style-type: none"> - Use in production environment (Robust) -> driver configuration - Reach up to 3 cm - Push button has no functionality - Parallel detection of signal
SimpleSet 	LCN9620 MultiOne interface SimpleSet	FEIG: <ul style="list-style-type: none"> • Tool based on ID CPR30-USB HF • Aligned with our software -> recognized by LCN code 	<ul style="list-style-type: none"> - Use in every environment -> driver/subassembly and luminaire - Reach up to 1 cm - Parallel detection of signal - Build in table of handheld
SimpleSet 	LCN9630 MultiOne interface SimpleSet	FEIG: Tool in release stage .Exists of <ul style="list-style-type: none"> - Mid Range Reader ID ISC.MR102 - Use of different antenna's - Adapter to 12V - USB cable and antenna cable 	<ul style="list-style-type: none"> - Depending on the antenna -> larger reach – up to 10 cm - Detect through thin non metal material - Detection in different directions

Where to use which tool:

SimpleSet*

DALI*



3. Devices

Devices are all products mentioned in the supported devices list of MultiOne

This list is available on the website www.Philips.com/MultiOne - supported device list

Documentation



MultiOne Leaflet >



Supported device List >



Release Notes >



Supported Devices list – MultiOne Engineering/Workflow 3.2

Device Type	Device Name	Version	Interface
CONTROL	CT_OLC CB	0	DALI
CONTROL	CT_OLC PB	0	DALI
CONTROL	EasySense	1.13	SimpleSet
CONTROL	EasySense	1.14	SimpleSet
CONTROL	EasySense	2.1	SimpleSet
CONTROL	LLC1663/00 ActiLume DALI gen2	1	DALI
CONTROL	LLC1663/01 ActiLume DALI gen2	2	DALI
CONTROL	LLC1663/01 ActiLume DALI gen2	2.1	DALI
CONTROL	LLC1663/01 ActiLume DALI gen2	2.2	DALI
CONTROL	LLC1663/01 ActiLume DALI gen2	2.3	DALI
CONTROL	LLC1681/10 ActiLume	4.1.10.30011	ZigBee
CONTROL	LLC1682/11 ActiLume	4.1.10.30011	ZigBee
CONTROL	LLC1682/13 ActiLume	4.1.13.30377	ZigBee
CONTROL	LLC1682/13 ActiLume	4.1.15.30594	ZigBee
CONTROL	LLC1682/13 ActiLume	4.1.16.30731	ZigBee
CONTROL	LLC1682/13 ActiLume	4.1.18.31450	ZigBee
CONTROL	LLC1685/11 ActiLume	4.1.10.30011	ZigBee
CONTROL	LLC1685/12 ActiLume	4.1.13.30377	ZigBee

Appendix B – workflow config. setting

Depending of the chosen interface technology (DALI, SimpleSet), and the set-up of the workstation, a different setting is needed.

Parameter	Meaning
DALVerify	When enabled MultiOne Workflow will perform a Write & Verify while configuring the devices. When disabled only a Write will be performed. true DALVerify is enabled false DALVerify is disabled
DALIdentifyalways	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 DALIdentifyalways is enabled false DALIdentifyalways is disabled
DALMultidevice	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 DALMultidevice is enabled false DALMultidevice 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
DALcheckdevicepresent	When enabled MultiOne Workflow will do an additional check to make sure that a device is connected before configuring the device. This parameter will only do this additional check if the verify and identifyalways parameters are set to false and the selected protocol is DALI. true DALcheckdevicepresent is enabled false DALcheckdevicepresent is disabled
DALcommissionall	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 DALcommission all is enabled false DALcommission all is disabled
DALifactorynew	When dalifactorynew is enabled MultiOne Workflow will reset the short address of all connected devices, and perform a DALI reset after configuring has finished true DALifactorynew is enabled false DALifactorynew is disabled

The setting suggested for SimpleSet interface: (starting from version 3.3, MultiOne with SimpleSet is verifying the configuration automatically).

1. Using feature files included driver information

```
#####
# Setting of Workflow configuration file for SimpleSet incl driver info #
#####
# This indicates the workflow configuration file version -
# Use start from MultiOne Workflow 3.3
fileversion=1

# Check the device model of every connected device (possible values: true, false)
# when true -> MultiOne Workflow will check if the connected device matches the device model described in the
feature file
# when false -> It will configure without checking the type. Used when no type is defined in the feature file
checkdevicemodel=true
```

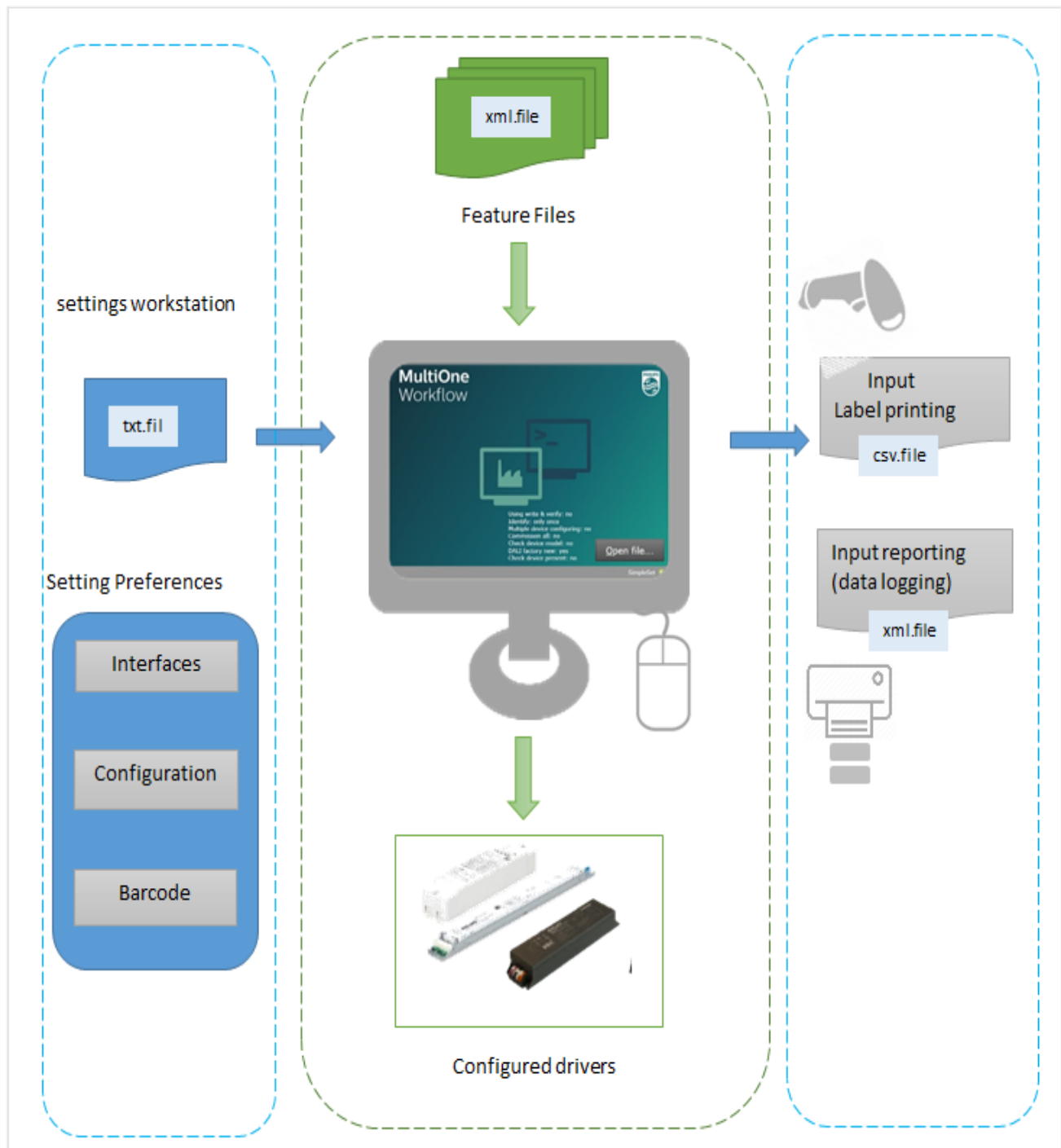
2. Using feature files excluded driver information

```
#####
# Setting of Workflow configuration file for SimpleSet exl driver info #
#####
# This indicates the workflow configuration file version -
# Use start from MultiOne Workflow 3.3
fileversion=1

# Check the device model of every connected device (possible values: true, false)
# when true -> MultiOne Workflow will check if the connected device matches the device model described in the
feature file
# when false -> It will configure without checking the type. Used when no type is defined in the feature file
checkdevicemodel=false
```

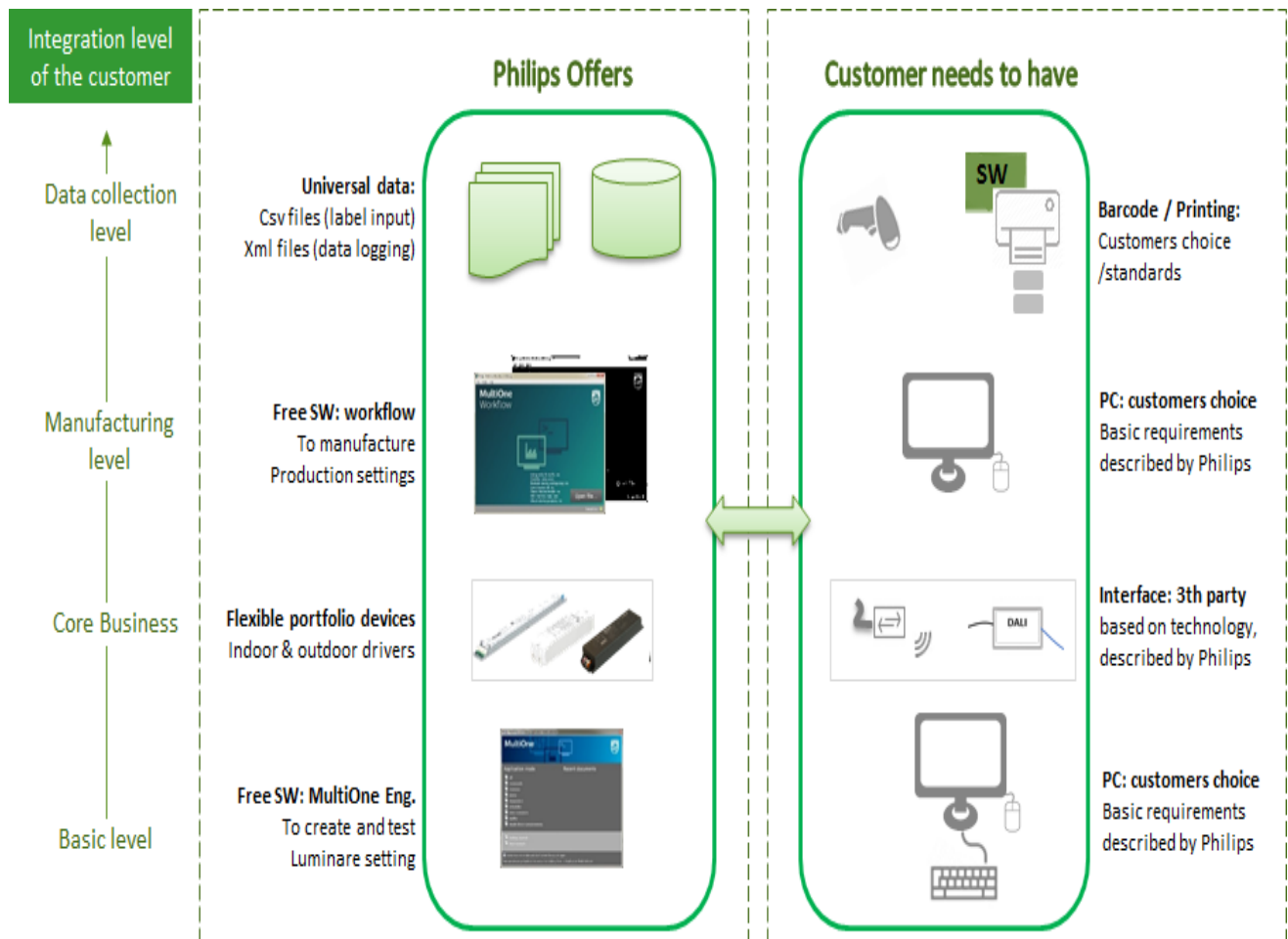
Appendix C – variable and settings of workflow

This overview shows all different files and setting that can be done in the workflow station, depending on the need and choice of set up



Appendix D – Service Model

This overview shows what the customer needs to provide and install, and what Philips is offering as a total package



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 Author: L.Janssens