## Information Note: USB2SimpleSet interfaces of FEIG

Intro

MultiOne Engineering, Workflow and Basic are built as universal software for our total programmable driver and devices portfolio, it is used to configure our drivers/systems in the development, quality and production environment.

To communicate with the drivers and sensors you can make use of different technology.

Using Near field communication (NFC) also called SimpleSet makes configuration quick, easy and safe (due to wireless and powerless communication).

FEIG is expert in NFC communication and some tools (see MD SIG standard) are selected and released to use to configure our portfolio.

Set up of the configuration station
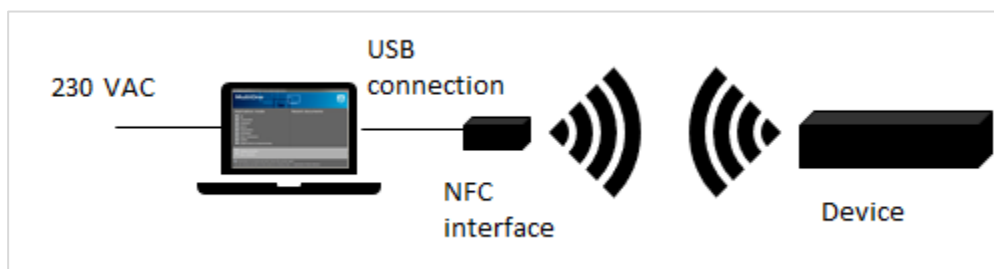
Components:

1. PC, laptop or Tablet
   - windows operating 8.0, 8.1, 10
   - USB 2.0 or 3.0 with enough power for the interface
   - power mode of PC on best performance
2. Released FEIG interface (see overview)
3. Philips LED device with NFC technology
   - driver on the described distance of the interface
   - position of the antenna as described
   - keep device still until ok signal appears
4. MultiOne software (free downloadable)

Released tools of FEIG

We released 3 different tools of FEIG to operate with MultiOne:

Type of tool	Name	12 NC	Components	Distance	Position antenna's	Engineering Workflow CommandLine	Basic
	LCN9610 FEIG MultiOne SimpleSet Interface	929000999406	• 1 Tool • 1 USB cable	1cm	=	•	
	LCN9620 FEIG MultiOne SimpleSet Interface	929000999506	• 1 Tool • 1 USB cable	1cm	=	•	•
	LCN9630 FEIG MultiOne SimpleSet Interface	929001546306	Basic box: • 1 universal power connector • 1 power adapter cable • 1 reader (LCN 9630) • 1 USB cable • 1 antenna with cable	1 - 20cm (depending on antenna)	= ⊤	•	•

Datasheets of these tools are available on the FEIG website:

LCN9610:
https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Handheld_Readers_ID_ISC_PRH101_102.pdf

LCN9620:
https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Desktop_Reader_ID_CPR30.pdf

LCN9630:
https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Desktop_Reader_ID_ISC_MR102.pdf

Where to use which interface

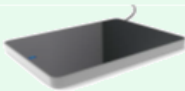| Type of tool	Name	Use
	LCN9610 FEIG MultiOne SimpleSet Interface	Configuration of drivers • Handheld tool • Button must not be used • Direct contact with device
	LCN9620 FEIG MultiOne SimpleSet Interface	Configuration of drivers • Can be build in table • Integrated in test or production tool • Direct contact with device
	LCN9630 FEIG MultiOne SimpleSet Interface	Configuration of drivers and Luminaire • More powered interface, larger detection field • Replaceable antenna (different solutions) • Compact antenna for luminaires • Carton, thin plastic, glass in between antenna's (no metal => cage of Faraday)

Interface tool FEIG LCN9630

The basic box (LCN9630) consists of:
1. Power converter
2. NFC reader (LCN9630)
3. USB cable
4. Antenna with housing and cable

It is also possible to make use of different antenna's that can connect and work with this LCN9630 reader
See possible variant in table below.

	Type of antenna	Name (FEIG)	Use
1		ID ISC.ANT40/30	PCB is build in Philips housing Part of the LCN9630 box. The code ID ISC.ANT40/30 contains only the PCB
2		ID ISC.ANT340/240	Elegant flat table model of plastic
3		ID ISC.ANTH200/200	Handheld model Available with straight or angled handle
4		ID ISC.ANTS370/270-A	Table model with glass housing, for more industrial environment

Datasheets of these antennas are available on the FEIG website:

ID ISC.ANT40/30:

https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Antennas_ID_ISC_ANT40.30_100.100.pdf

ID ISC.ANT340/240:

https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Antennas_ID_ISC_ANT340_240.pdf
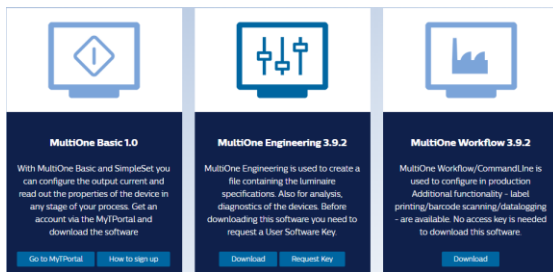
ID ISC.ANTH200/200:

https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Antennas_ID_ISC_ANTH200.pdf

ID ISC.ANTS370/270-A:

https://www.feig.de/fileadmin/user_upload/Downloads/Datenblaetter/Data_sheet_Identification_Desktop_Reader_IS_ISC_SPAD102.pdf
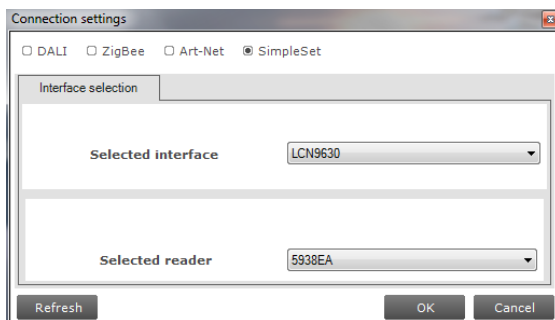
Installation of the tool

Download the latest version of MultiOne Engineering - workflow - Basic

www.philips.com/MultiOne

Connect the FEIG tool before installation of the MultiOne software

The required FEIG software is automatic installed on the PC or laptop

Activate the connected tool by selecting the interface type
Select Tools -> connection settings -> SimpleSet -> Refresh -> OK
Select the correct interface.

The SimpleSet icon on the right corner (down) becomes green -> communication is ok
The system is ready to use