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*Easy to work with MultiOne*

Linda Janssens - 15 June 2018

# Easy to work with MultiOne

## Agenda

- The customer journey
- MultiOne basics
- MultiOne much more ...
- Different applications – different solutions
- Future developments

# The customer journey

# Easy to work with MultiOne - The customer journey

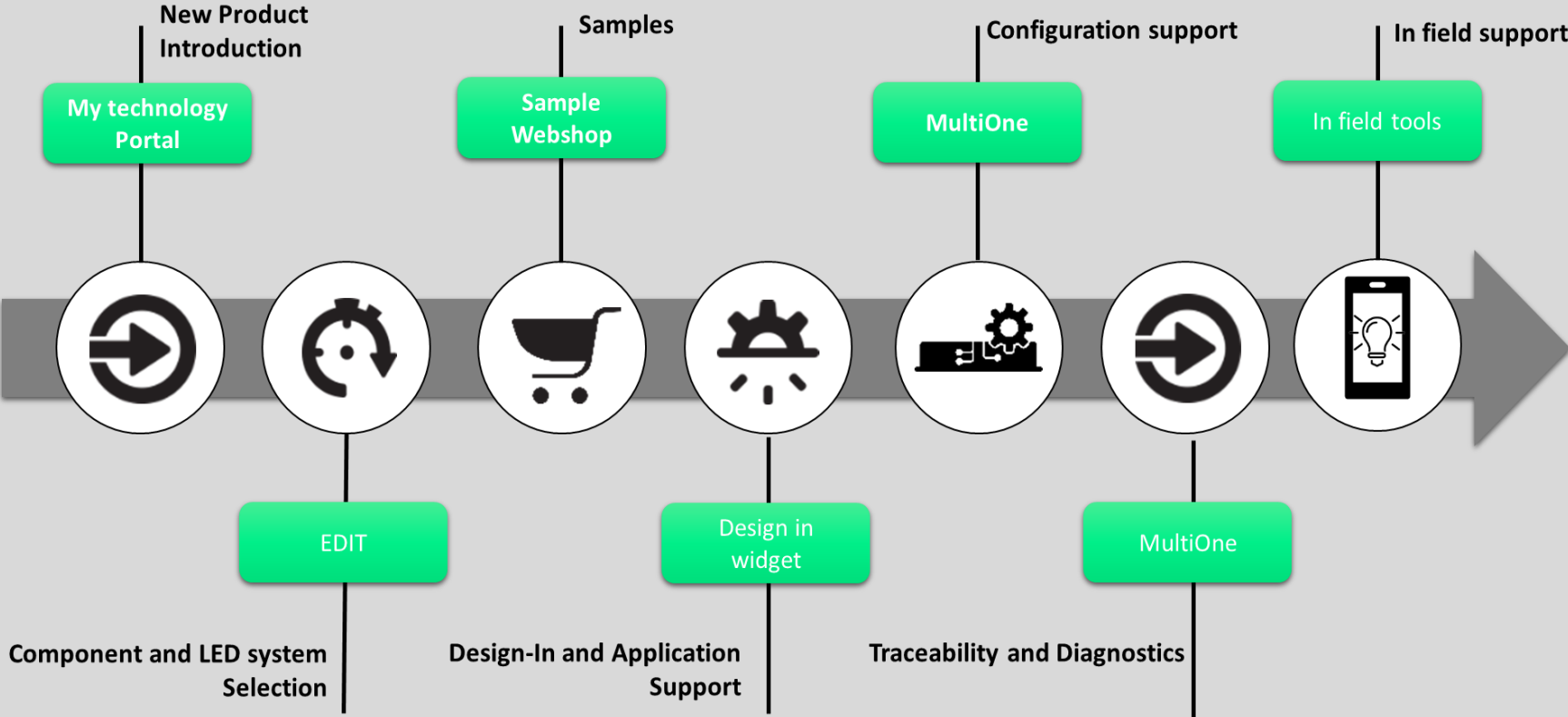
Our customer supporting team created the customer journey

By connecting all our projects:

- My Technology Portal
- Easy design in tool
- Sample Web shop
- Design in widget
- MultiOne configurator
- ....

*“Also competitors have great tools and lots of services but*

*Signify is the only one connecting the dots”*



# Easy to work with MultiOne - The customer journey

## Universal

- One tool for all Philips conventional and LED drivers and sensors.

## Flexibility

- Access to all built-in features in the driver
- Access of logged data for analysis (quality, aftersales)
- Communication with DALI, NFC, Zigbee

## Complete solution

- Configure in any stage of your process and trace back your processes

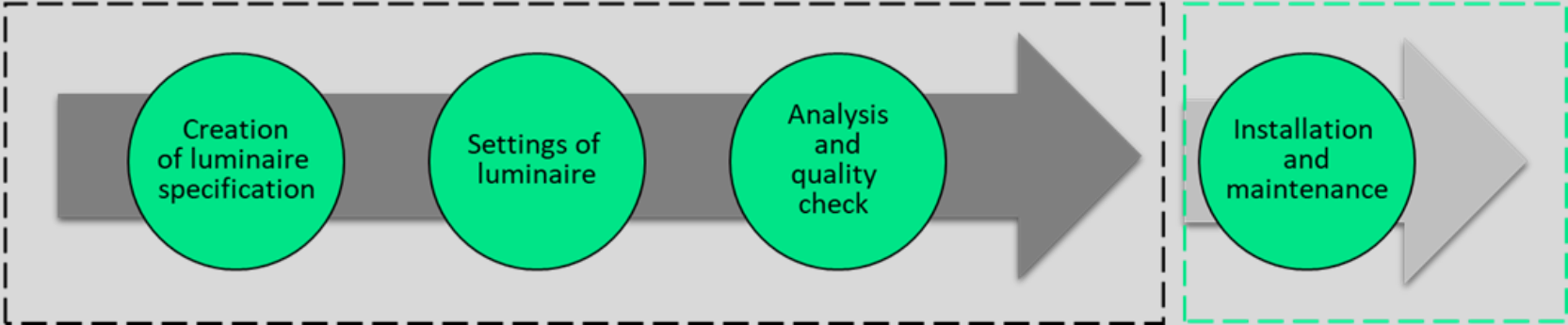
## Future-proof concept

- Backwards compatible and future proof

## The MultiOne configurator

In the organization

In the field



Our Focus

# MultiOne Basics

# Easy to work with MultiOne –MultiOne basics

Basic set-up:

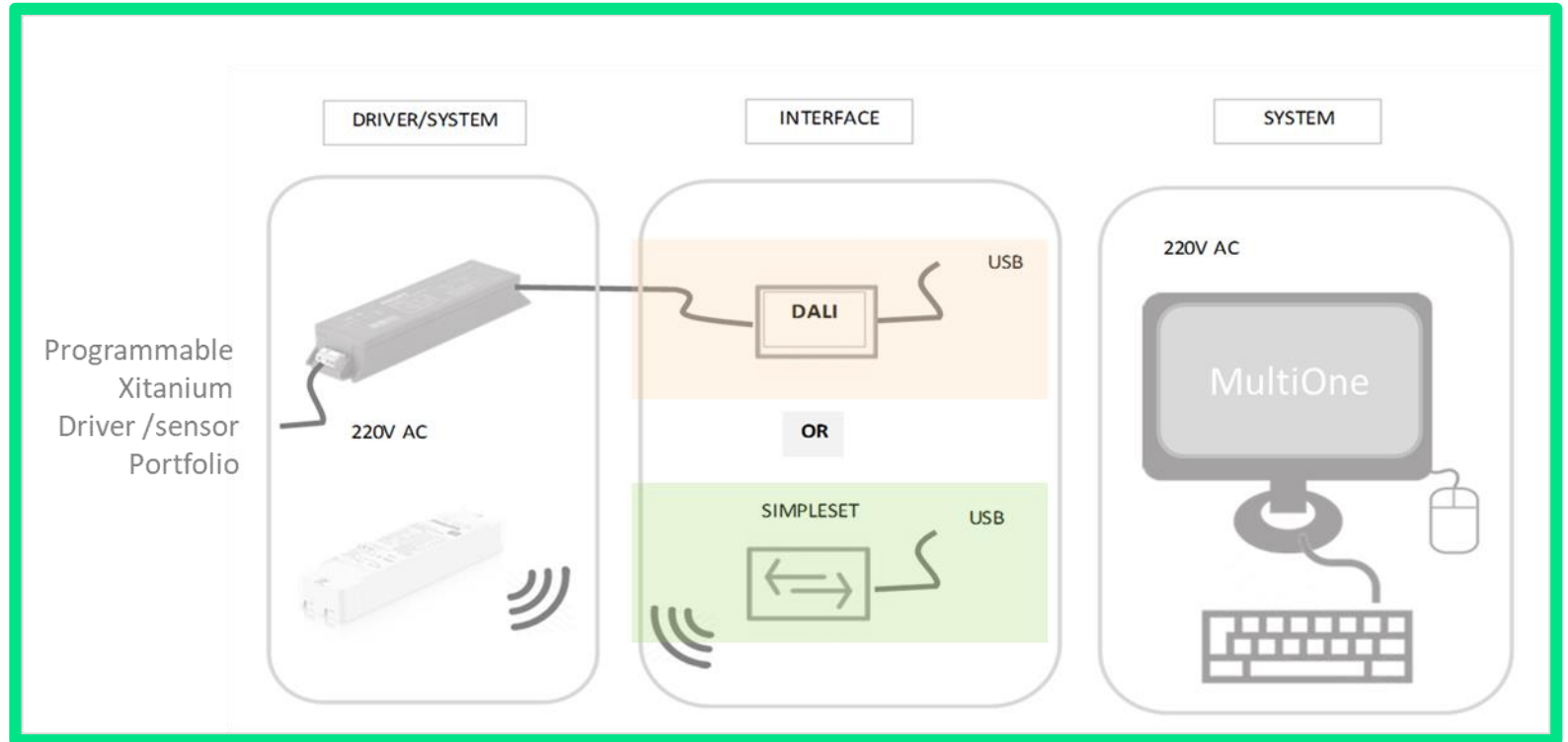
**Our product portfolio** (drivers, sensors...)

## Hardware

- Windows operating PC with multiple USB ports
- Interface (USB2...)
- Other equipment (when needed): label printer, scanner ,..

## Software

- MultiOne configuration packages
- Device firmware



# Easy to work with MultiOne– MultiOne basics

## Interface technology trend

### SimpleSet (NFC)




- Robust solution with 3 years experience
- Reliable configuration in any stage of the lifecycle of the devices

### Standardisation

- NFC technology according standards
- Use of FEIG tooling – Zhaga certified

### Flexible

- Use of the best configuration method in each step (DALI, SimpleSet)

How to configure with Philips	Use of	Setting/Read out of
Via resistor on driver > Rset, LEDset > High resolution, no discrete steps		Current
Via DALI > Philips MultiOne configurator > Make use of DALI network		Features DALI commands Diagnostics
Via SimpleSet (*) > Philips MultiOne configurator > Make use of NFC technology > Wireless, power less, fast, any stage conf		Current Features Diagnostics




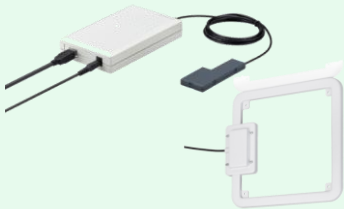
SHIFT

- \* SimpleSet technology is based on
- **Wireless short range** proximity based communication technology
  - Based upon **RFID technology** at 13.56 MHz
  - Standardized by the **NFC Forum**, protocol according ISO 15693
  - Operating distance typical **1 cm to 10 cm**



# Easy to work with MultiOne– MultiOne basics

## Interface tools - overview

Type of tool	Name	12 NC	Details
	LCN8600 Philips MultiOne Interface USB2DALI	913700346703	-Single and Multiple configuration -Used for DALI functionalities -Device must be wired and powered
	LCN9610 FEIG MultiOne SimpleSet Interface	929000999406	-Single configuration -Wireless, powerless -Contact zone 1cm -handheld -Device configuration
	LCN9620 FEIG MultiOne SimpleSet Interface	929000999506	-Single configuration -Wireless, powerless -Contact zone 1cm -Built in table or handheld -Device configuration
	LCN9630 FEIG MultiOne SimpleSet Interface	929001546306	-Single configuration -Wireless, powerless -Contact zone up to 20 cm depending on antenna -Detection in different direction -Luminair configuration

# Easy to work with MultiOne– MultiOne basics

## Software – overview:

### Packages:

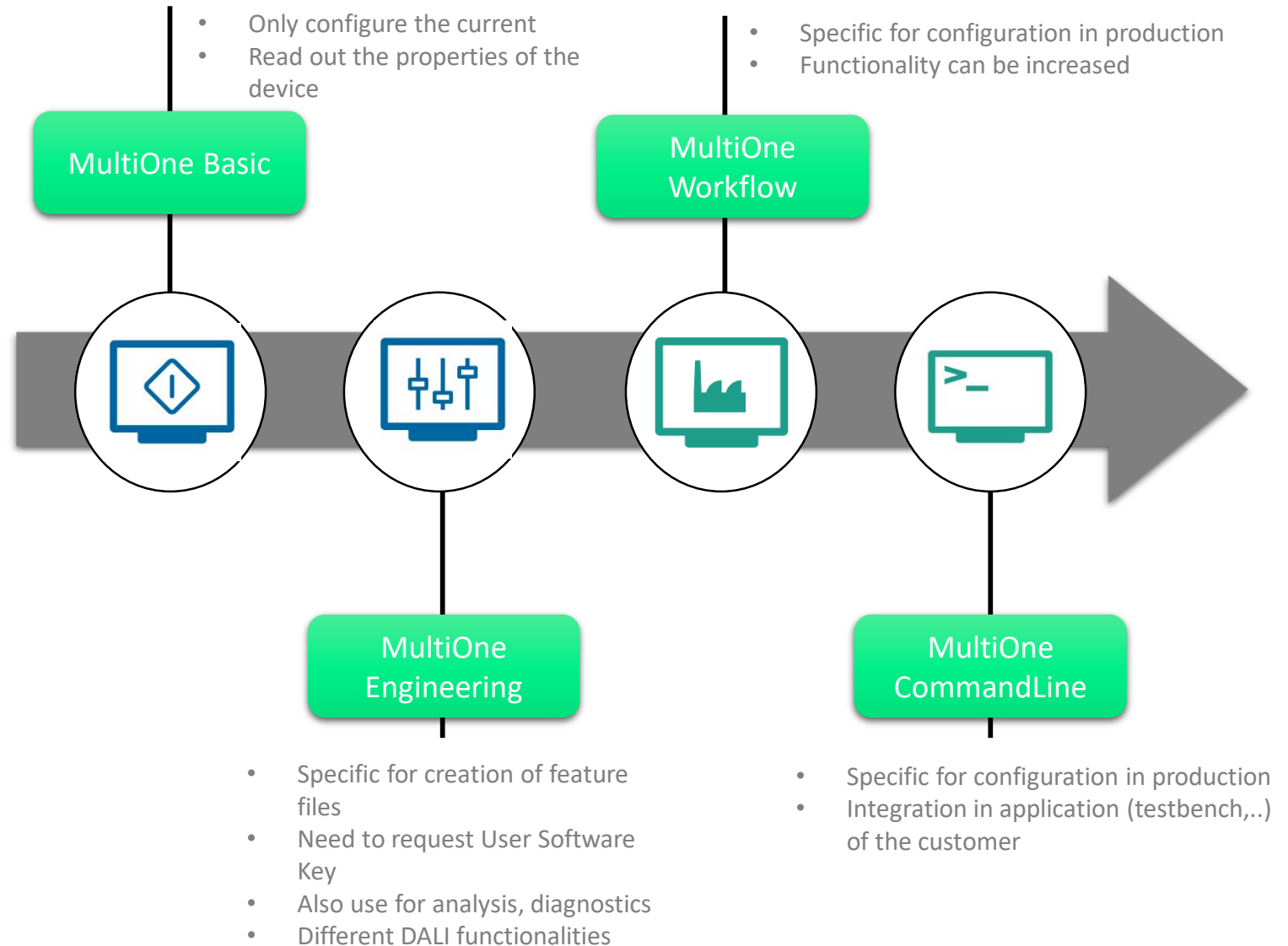
- MultiOne Basic (available 8/2018)
- MultiOne Engineering
- MultiOne Workflow / CommandLine

### Availability

- Free download from website
- [www.Philips.com/MultiOne](http://www.Philips.com/MultiOne)

### Flexible

- Backwards compatible software
- Automatic upgrade of Engineering SW if internet is available



# Easy to work with MultiOne– MultiOne basics

Most used Features – overview drivers

Functionality	Cost Down	Security
End of life indication	Energy meter	Active cooling
Light source operating hours	Constant light output	Module temperature protection
Adjustable output current	Dimming interface	Driver temperature Limit
Adjustable light output	1-10V	DC emergency
Adjustable start up time	AmpDim	OEM write protection
SR PSU	LumiStep	Luminaire information
LSI	Lineswitch	Min Dim Level
	Touch and Dim	
	Dynadimmer	
	Corridor mode	

Much more features available depending on the devices

**Complete list see manual**

MultiOne much more ...

# Easy to work with MultiOne– much more

More than configuration of drivers – extra functionalities available

=> DALI tool

Interface	Energy meter	Diagnostics	Installer	Commands	Scheduler	Query	Dali sniffer	Traceability
DALI	✓	✓	✓	✓	✓	✓	✓	✓
NFC		✓	✓					
	Real time info Only possible with DALI	DALI: Real time info NFC: Info update every hour	configure all installer features (coded light)	Setting DALI commands 102 (gear) 202 (emergency lighting)	Writing DALI scripts	execute a number of standard DALI query	Replaces the free DALI sniffers available on the web	How many time is the configuration changed – Signify After sales information

# Easy to work with MultiOne – much more

More than configuration of drivers – data collection (NFC and DALI)

## MultiOne Workflow

### Datalogging:

- Creation of xml file
- Conversion to xlsx file
- Selection of workflow data
- Creation of reports

Product

DeviceName
DeviceVersion
FirmwareRevision
DeviceIdentifier
TwelveNc
Feature 1
setting 1
setting 2
Feature 2
Feature ....

Custom

CustomField1
CustomField2

Production

DateTime
BatchSize
BatchProgress
Production successful
scheduler file location
FeatureFileLocation
Protocol
WorkflowType
Verify
IdentifyAlways
MultiDevice
CommissionAll
CheckDevicemodel
DaliFactoryNew
CheckDevicePresent

## MultiOne Engineering

### Data collection:

- Properties
- Features and settings
- Diagnostics

Product

DeviceName
DeviceVersion
FirmwareRevision
DeviceIdentifier
TwelveNc
Feature 1
setting 1
setting 2
Feature 2
Feature ....

Diagnostics

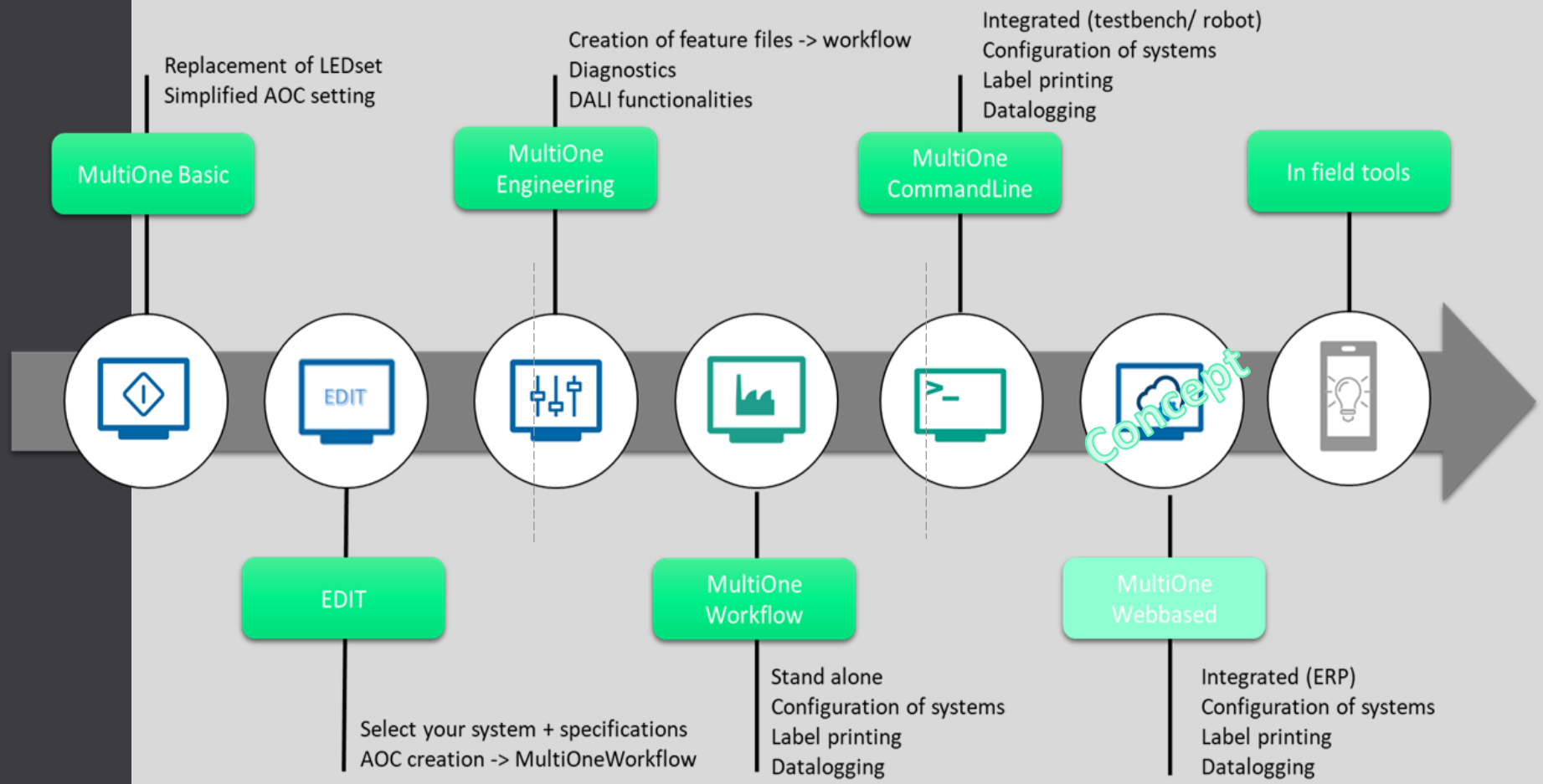
Event based Diagnostic
Real time Diagnostics
Histogram
Fault code history



# Different solutions

# Easy to work with MultiOne – Different solutions

Depending on the application and need, the user can select the requested solution



Small series

Mass production



# Easy to work with MultiOne - Different solutions

## MultiOne Workflow

### Minimal configuration

- Use of interface

### Upgrade with

- Barcode scanning
- Feature file
- Custom information
- Batch size
- Printing (direct/indirect)
  - ZEBRA GX430t
  - Dymo 450Turbo
- Datalogging
  - Device properties
  - Features + values
  - Production settings

Barcode:

- Feature file (xml file)
- 2 custom fields
- quantity



Feature file (barcode)  
Settingsstation



Product portfolio  
Interface



Label - direct printing  
Datalogging xml file

Datalogging (xml file):

- Driver info
- Features + values
- Production process

Label (csv file):

- Current
- 2 Custom fields
- Date
- Device ID
- Version
- QR code

# Easy to work with MultiOne - Different solutions

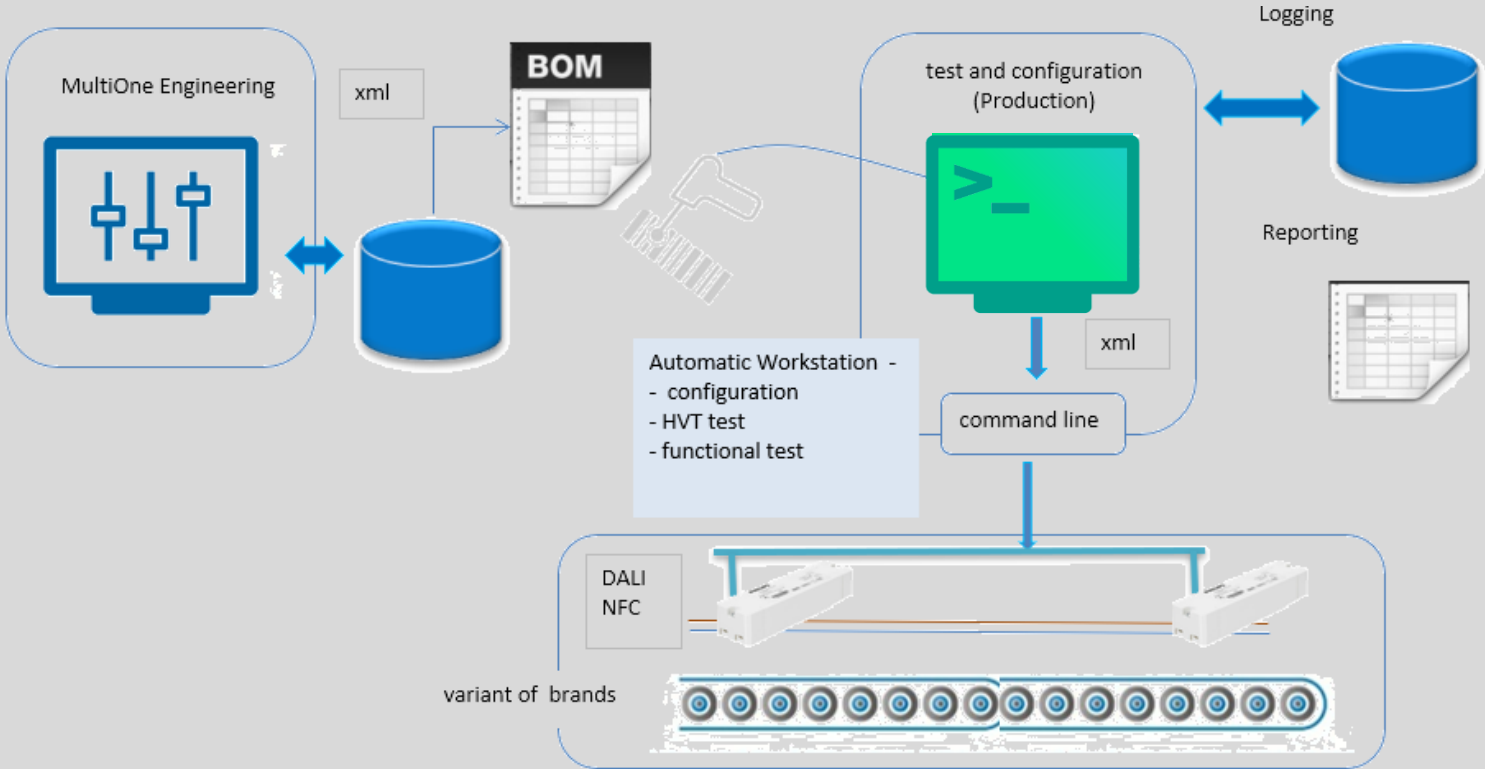
## MultiOne CommandLine

### Integrated in

- Test bench
- Robot (linear)

### Included with all options

- Barcode reading
- Datalogging



# Future developments

# Easy to work with MultiOne -Future

## MultiOne API & Web

### Up-to-date product database

- After login latest components are available (no USK)

### Open/Universal Interface

- Web-based Application Programming Interface (API) for easy direct access for all platforms (Windows, Linux, iOS, ...). for automatic feature file creation.

### Easy User Interface

- Manual Feature file creation via web making use of simplified interaction based on MultiOne Engineering software

### Future-Proof

- Enabling new cloud services

Concept

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