

KUKA

Robotic Republic

Quick Start

Quick Start Content

1. Introduction

Hardware components

KR C5 micro-2

SmartPAD pro

SmartPLUG

Software components

iiQKA.OS

iiQWorks.Sim

iiQWorks.Cockpit

iiQWorks.App Builder

2. Software Installation

iiQWorks.Sim

iiQWorks.Cockpit

iiQKA.OS

iiQWorks.App Builder

3. Start Instance

4. Simulation

5. Resources and support



Introduction



_Hardware components – KR C5 micro-2

■ Compact:

- Ultra thin, **25% smaller volume** than KR C5 micro controller
- Up to four network **communication interfaces** [**KSI** / **KONI** / **KLI** / **KEI**]
[Service Interface / Option(al) Network Interface / Line Interface / Extension Interface (ECAT)]
- 16IN/16OUT Digital **IO's Integrated**
- **Interface compatibility** with KR C5 micro
- All **interfaces on one** controller **side** - for better access





_Hardware components – KR C5 micro-2

- Ethernet & EtherCAT interfaces [KSI / KONI / KLI OT / KEI]

- Communication to the RDC box (EtherCAT)
- Power supply (for RDC box and IO)

- USB Interface

- External 24V DC power supply

- External enabling

- Safe inputs (2x) and output (1x)

- Fast measurement inputs
- “Drives ready” lamp

- K-AI Board

- Integrated Additional Drives Extension Card

- OPSU Interface

- 16 digital inputs (nnp/npn)
- 16 digital outputs (pnp)

- Motors and brakes of the robot axes 1-3

- Motors and brakes of the robot axes 4-6

- Teach Pendant Interface

- Power supply





_Hardware components – SmartPAD pro



differentiating

Flexible:

one detachable device for industrial robots, cobots & mobile robot platforms



shared

Ergonomic:

made for comfortable, less tiring long-term usage



dedicated

Robust:

IP54 certified & a maximum drop height of 1.5 meters



dedicated

Maintainable:

foreseen exchange ability of wearable parts





_Hardware components – SmartPLUG



differentiating

New usage scenarios - use your own device

Most compatible bring your own device solution in the market

Compatible devices:

- **Laptops:** Windows, Mac OS
- **Tablets:** Android, IOS, Windows



dedicated

Easy & User centered

Supportive & Easy to use solution



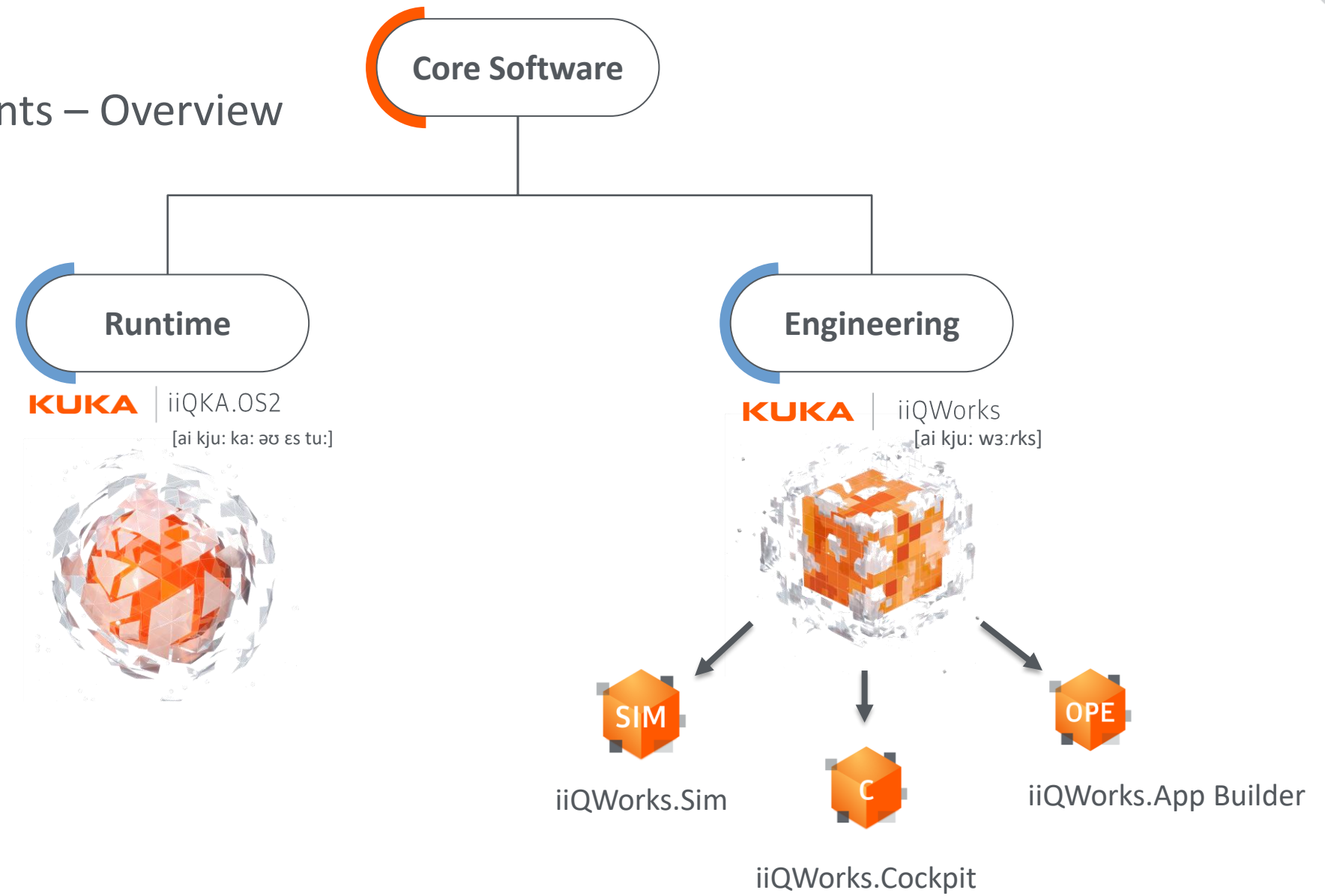
dedicated

KUKA quality at fair price

Entry level for robot pendants



_Software components – Overview

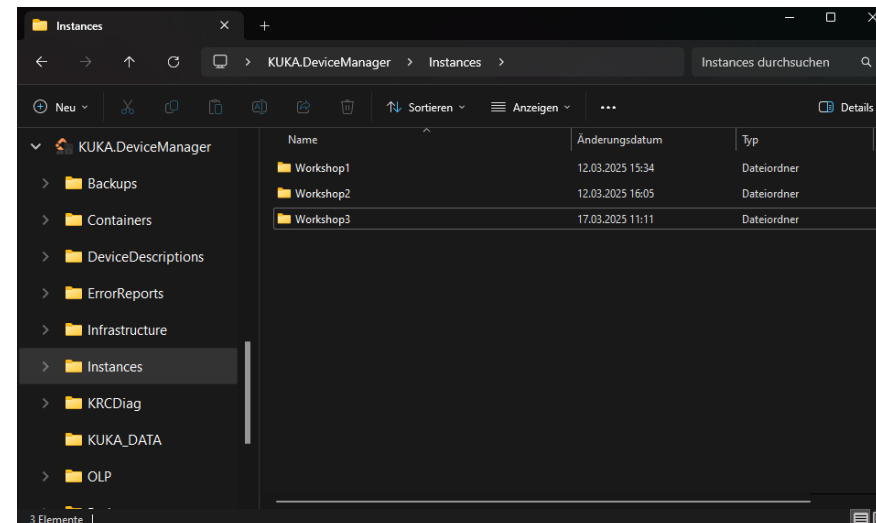
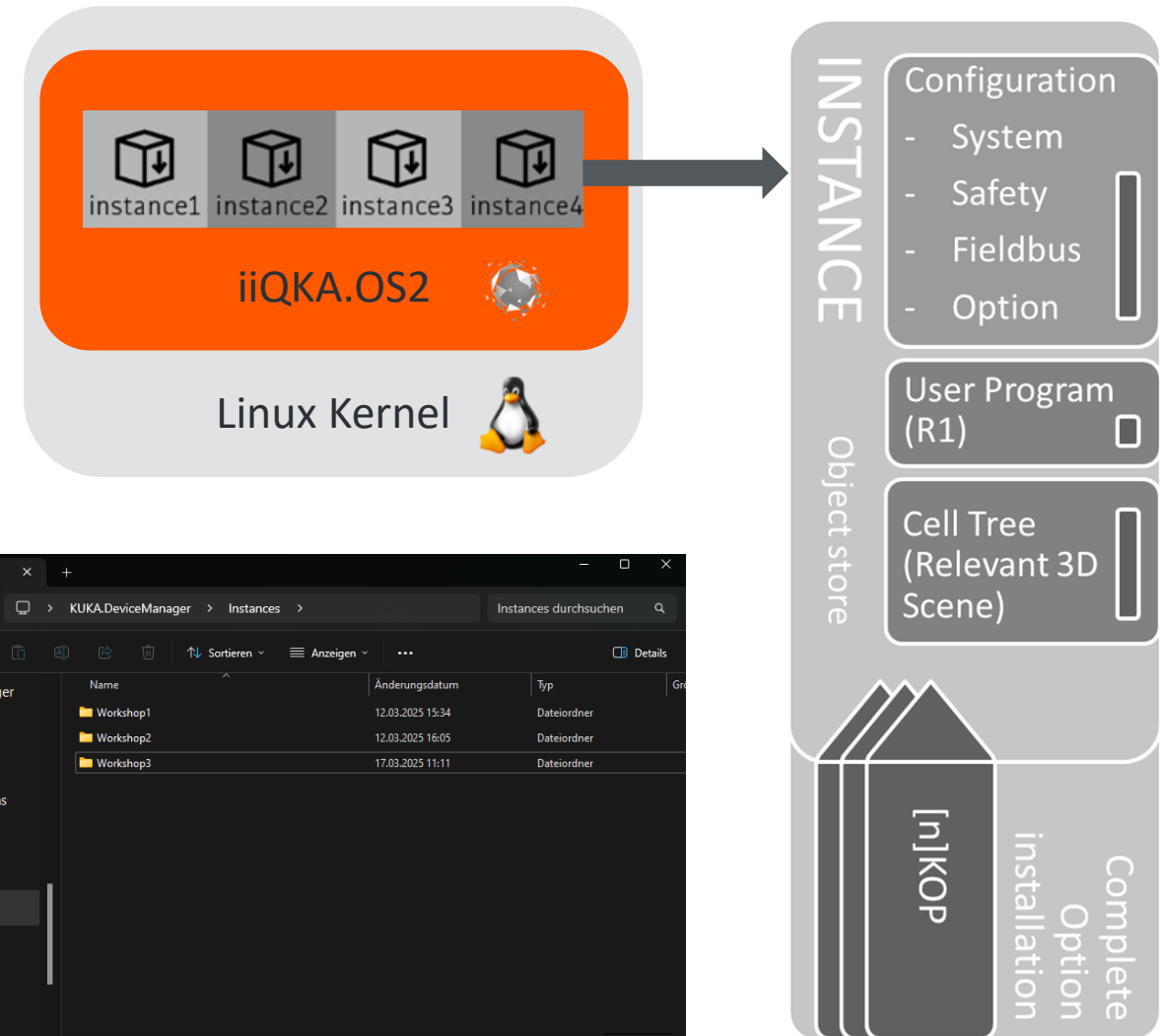




_Software components – iiQKA.OS2

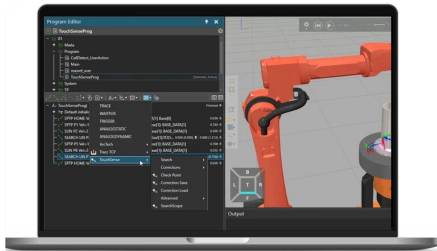
iiQKA.OS2 is **Instance** based. An Instance:

- contain all options and customer specific configuration and programs
- include the 3D scene
- are saved in containers
- can exist parallel – independent of each other
- cannot hurt the operating system if broken
- is a **simple folder** in the filesystem and thus can be easily copied for backup/restore



_Software components – iiQKA.OS2

Engineering PC



- An engineering PC can run multiple instances at the same time (VRC Mode), while a controller **can only run one instance at a time**

KDM = KUKA DeviceManager

Quick start Creator | Robotic Republic

KRC5μ-2, KRC5 S/M/L-2

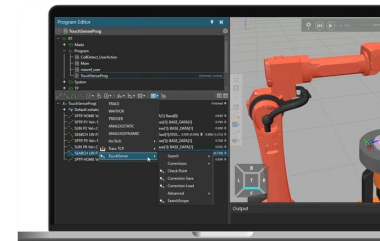


iiQKA.OS 2.x

Robot runtime on real system

KDM

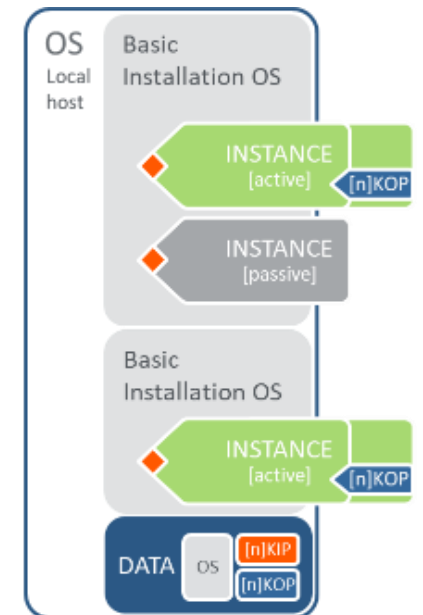
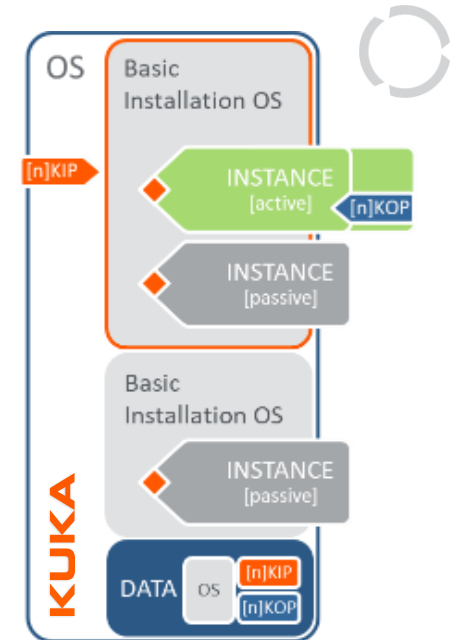
Engineering PC



VRC of iiQKA.OS 2.x

VRC is the representation of the digital twin within the KUKA Ecosystem – the **Virtual Robot Controller** – enabled and accessible via iiQWorks.Sim Advanced

KDM



_Software components – iiQWorks

iiQWork...: Namespace for all engineering offline tools installed not on the Controller but most likely on Customers Windows PC

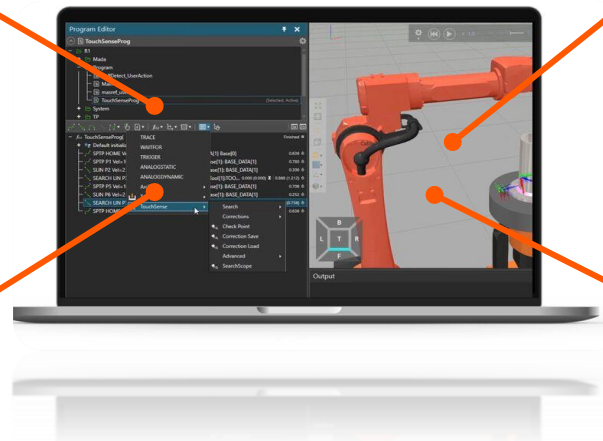
iiQWorks.Cockpit

- Instance management
- Tracing
- Backup/Restore/Update
- Software Repository/Connection to my.kuka

iiQWorks.Sim Basic

- System configuration/ Simulation (RCS)
- Offline Programming

Engineering PC



iiQWorks.Sim Basic
(Free of charge)

Paywall

iiQWorks.Sim Advanced

+ AddOns

- Modelling AddOn
- Connectivity AddOn
- Surface AddOn
- Path AddOn
- Point AddOn

iiQWorks.App Builder

- App Building
- .kop enabled by iiQKA.App Runtime Lic

iiQWorks.Sim Advanced

- Enabler of Virtual Robot Controller (VRC)
- Simulation (VRC) / Virtual Commissioning

_Software components – iiQWorks.Sim

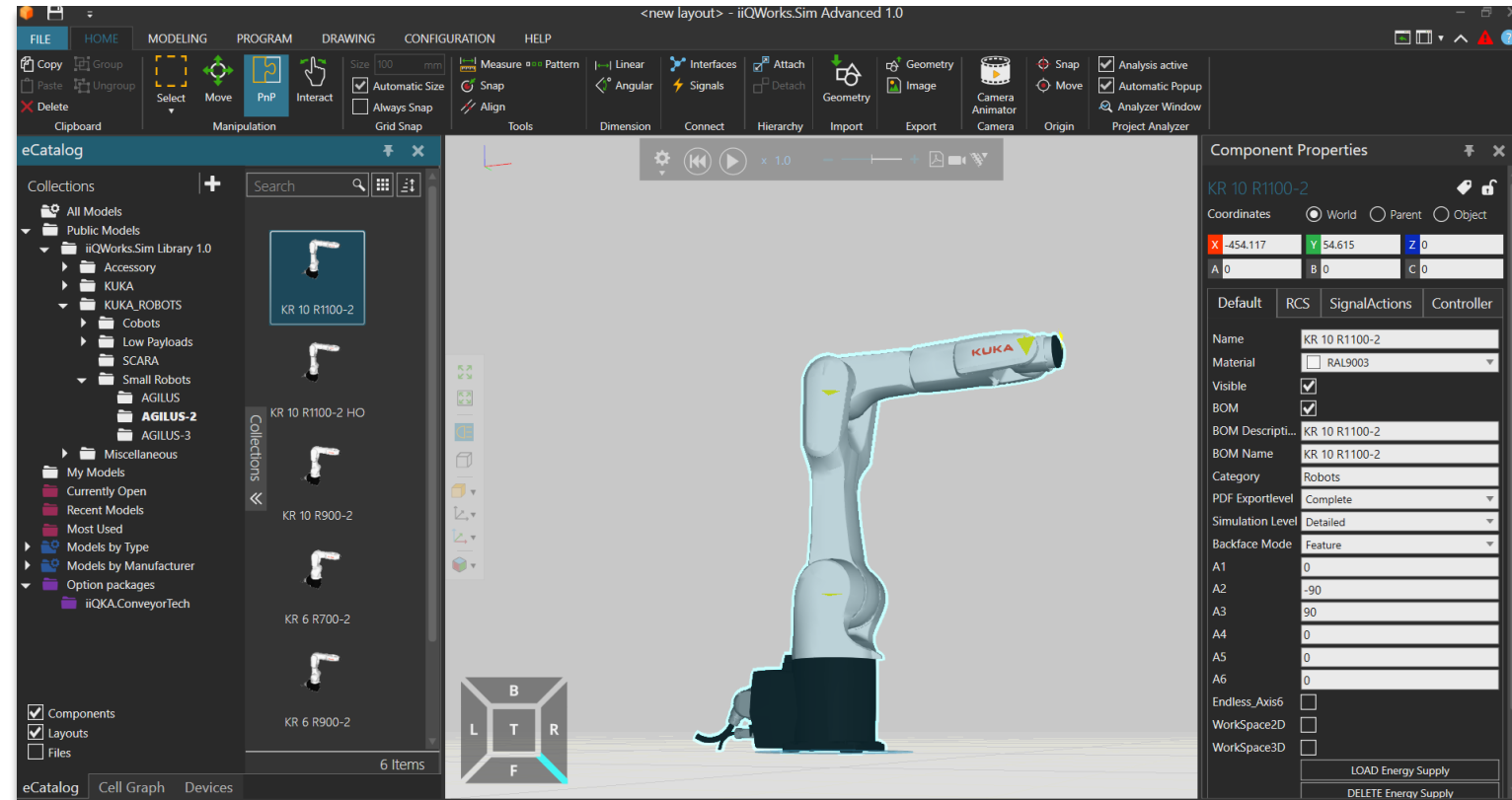
iiQWorks.Sim is the 3D engineering and simulation environment for the system software iiQKA.OS2 and is installed on a laptop or PC

Requirements:

- The user has local admin rights.
- Windows 11 (64-bit) or Windows 10 (64-bit)
- Processor: Intel i5 3xxx processor or equivalent
- Memory: 8 GB
- Hard drive: 3 GB available space
- Graphics card: Intel HD Graphics 4400 (integrated) or equivalent
- Graphics resolution: 1280 x 1024
- Mouse: 3 buttons (left, middle, right)

Recommended:

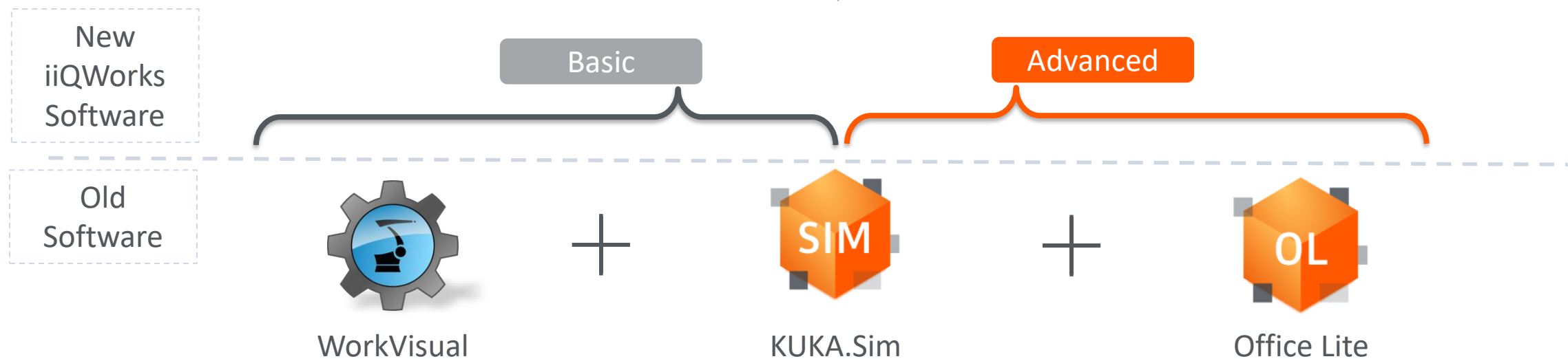
- Processor: Intel i7 8xxx processor or equivalent
- Memory: 8 GB
- Graphics card: Nvidia GPU with at least 4GB of dedicated memory (e.g. GTX 1080 or better)



_Software components – iiQWorks.Sim



KUKA | iiQWorks.Sim

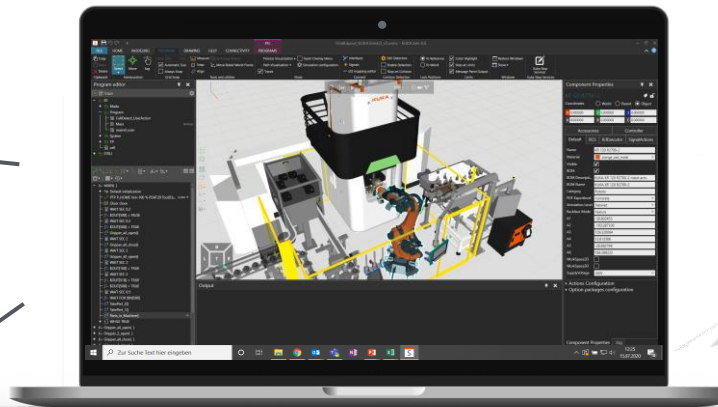


_Software components – iiQWorks.Sim Basic License (Free) - [LINK](#)

Simulation

- Reachability checks
- Teaching of robot motions
- Cycletime measurement (RCS-Module)
- eCatalog cloud library
- 3D Space Mouse Support

Basic



Commissioning

- Deployment of Instances to robot
- Backup controller instances
- Update and Upgrade of Software

Application Programming

- Configure your Technology Packages
 - Communication
 - Error strategies
 - Licensing

Configuration & Offline Programming

- Device Tree for configuration of complete system including:
 - Technology Packages
 - Fieldbus
 - Robot machine data
 - I/O Mapping Editor
 - Powerful KRL-Editor and Interpreter for advanced offline programming, like on the real controller
- Visualization of the robot path

Safety (once available)

- New SafeOperation-Editor
- Configuration of Cell Spaces and Safety Zones (visualization)
- Configuration of Safe Tool Spheres

Presentation

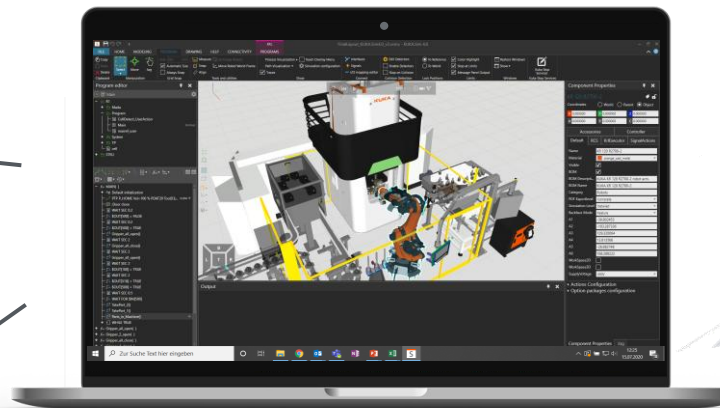
- Export: 3D-PDFs, Videos, Animation files for smartphones and virtual reality headsets
- Export models for KUKA.MixedReality

_Software components – iiQWorks.Sim Advanced License (Paid) - [LINK](#)

Simulation

- Full Virtual Robot Controller with multiple robots
- Collision detection
- Modeling AddOn to create own components
- CAD-Importer (STEP, CATIA, JT, ...)
- CAD-Export (STEP, JT, ...)
- 2D-Drawing-Export (DWG, DXF)

Advanced



Offline Programming

- Powerful KRL-Editor and Interpreter for advanced offline programming, like on the real controller
- Support of component interactions (grasp/release etc.)
- Full Tech Package support
- Kuka Stop Services, swept volume (Stop 0)

Full Virtual Commissioning

- Full Virtual Robot Controllers (VRC)
- PLC-Connectivity with „Siemens SIMIT“ or „WinMOD“
- OPC-UA Connection to e.g. PLC
- Scripting Interface

Application Programming

- Additional Path-Generator **
- CAD2Path features
- Automated collision free path planning

Material flow

- NVIDIA PhysX Support (for example conveyors, etc.)
- Component interactions (e.g. grasp and release of components)

Safety (once available)

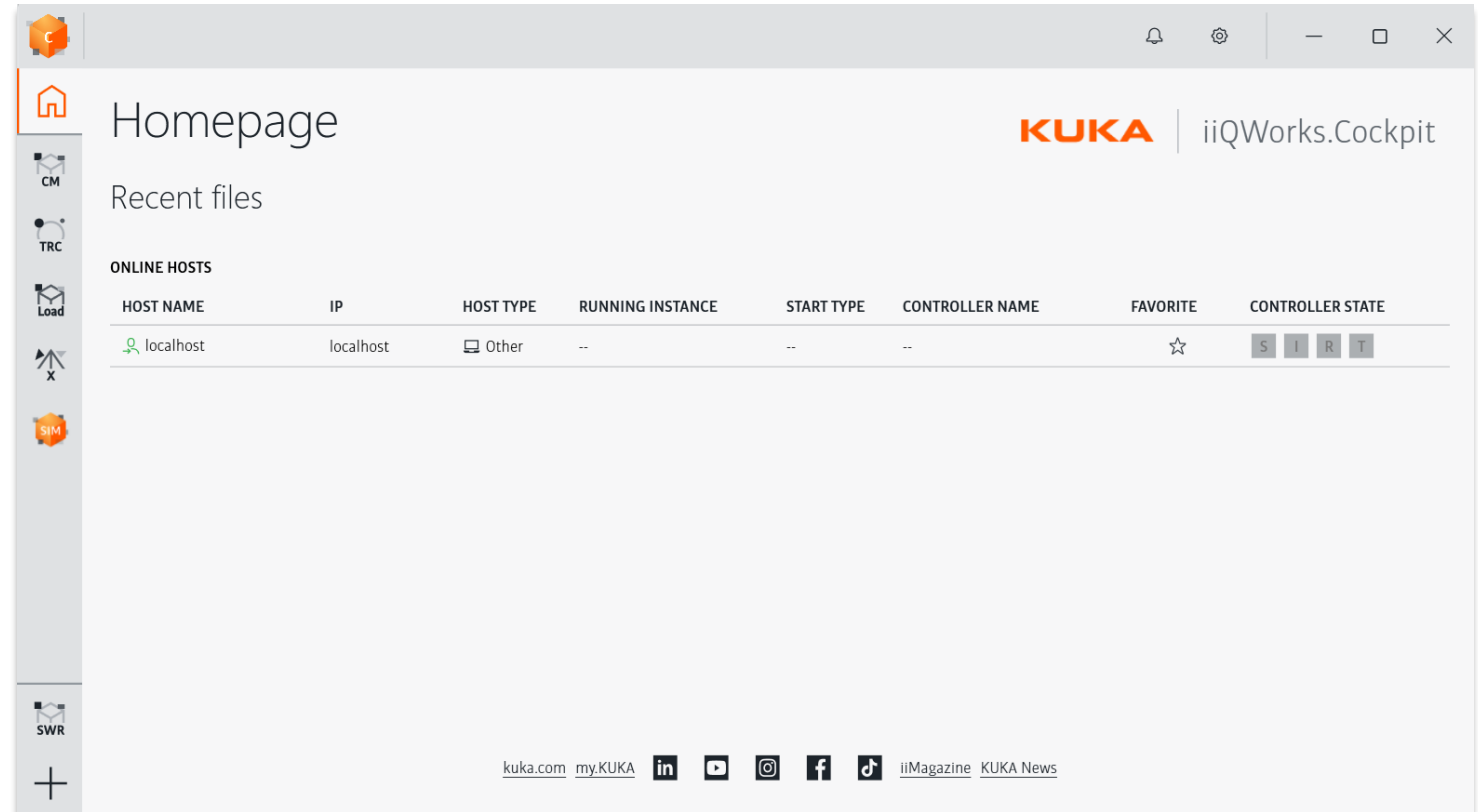
- Full Safety and signal simulation
- Safety mute in VRC

_Software components – iiQWorks.Cockpit

iiQWorks.Cockpit is a launcher application that provides access to all KUKA software products and licenses. Recently used projects can also be accessed.

Requirements:

- The user has local admin rights.
- Windows 10 or higher
- ASP.NET Core 8.0 Runtime 8.0.5 – Windows x64
- .NET 8.0 Runtime 8.0.5 – Windows x64
- .NET 8.0 Desktop Runtime 8.0.11 – Windows x64
- Microsoft Visual C++ Redistributable – Windows x64



_Software components – iiQWorks.Cockpit

Home

- Controller Manager**: Find, inspect, start/stop, update & upgrade controllers (real or VRC)
- Traces**: View, create, start, copy trace files on real controllers or VRC
- KUKA Load**: Pre-installed KUKA shortcuts
- KUKA Xpert AI**
- iiQWorks.Sim 1.2**
- KUKA iiQoT**
- iiQWorks.Sim 1.3**
- Software Repository**: Source, where to find all KUKA Technology Packages
- Add new**: Add own Software (even non KUKA)

IP	PORT	HOST TYPE	RUNNING INSTANCE	START TYPE	CONTROLLER NAME	FAVORITE	CONTROLLER STATE
localhost	5018	Other	--	--	--	★	S I R T
	443		iiQA.OS2 9.3	Office	KR 10 R1100-2	★	S O R Aut
	443		KSS_9.2.2_TimeSync	Office	KR 10 R1100-2	★	S O R T1
	443		RSI_TimeSync_PTP	Cabinet	KR 4 R600	★	S I R Aut

Pre-installed KUKA shortcuts

- KUKA Load
- KUKA Xpert
- iiQWorks.Sim
- KUKA iiQoT

Source, where to find all KUKA Technology Packages

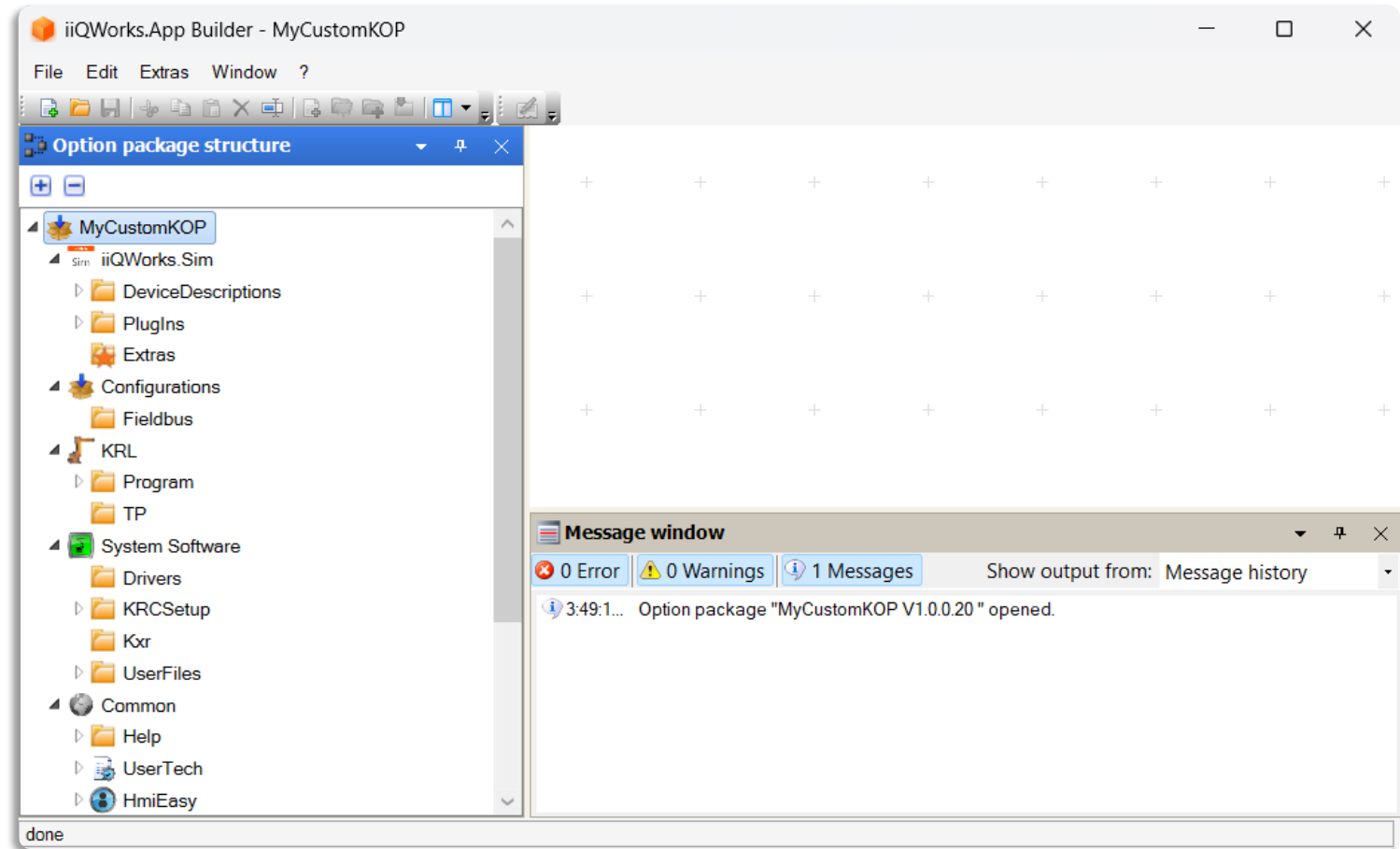
Add own Software (even non KUKA)

_Software components – iiQWorks.App Builder

iiQWorks.App Builder is a software package for the creation of option packages. The option packages can be used in iiQWorks.Sim and in the System Software.

Requirements:

- The user has local admin rights.
- PC mit Pentium IV-Prozessor, mindestens 1500 MHz
- 1 GB Working Memory
- 200 MB free hard drive space
- DirectX-compatible graphics card with a resolution of at least 1024x768 pixels
- Windows 11 (64 Bit) or Windows 10 (64 Bit)



Software Installation

iiQWorks.Sim, iiQWorks.Cockpit, iiQKA.OS2 (VRC)



_Step0 – iiQWorks

Download the **iiQWorks.Sim** and **iiQWorks.Cockpit** on my.KUKA .

- **iiQWorks.Sim** version **1.3.0** ([LINK](#))
- **iiQWorks.Cockpit** version **1.4.0** ([LINK](#))

Install iiQWorks.Sim:

KUKA iiQWorks Video Tutorial: [Watch here](#)

Note: you will need to register for a my.kuka.com account with a company domain email.

System Requirements
Downloads

Knowledge database

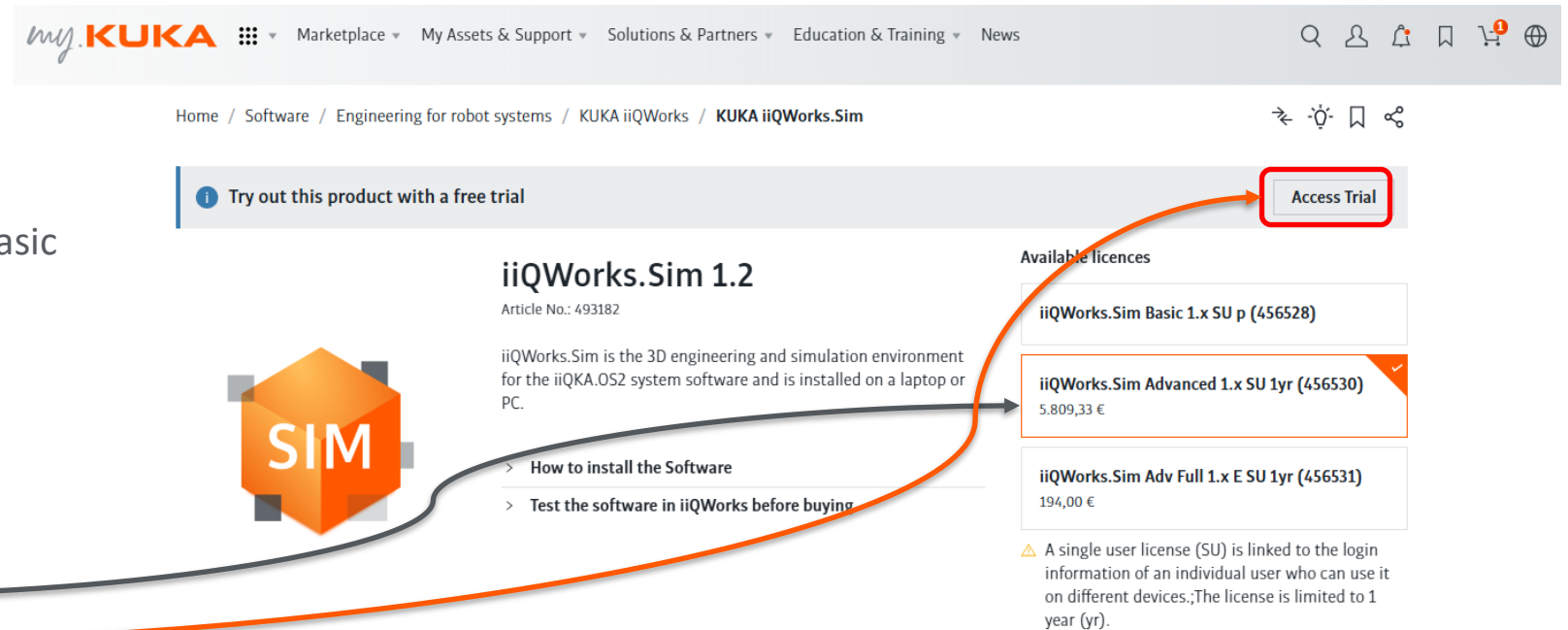
A digital knowledge database for all KUKA products, accessible at any time and from anywhere: KUKA Xpert offers comprehensive technical information especially for service technicians, planners, programmers, operators, and commissioning engineers.

[More Information on KUKA Xpert](#)
[Buy Xpert Pro](#)

Available for download

All	2	 iiQWorks.Cockpit 1.4.0 en • Software
Software	1	
Product Presentation	1	 iiQWorks.Cockpit en • Product Presentation

_Step1 – iiQWorks.Sim



my.KUKA | Marketplace | My Assets & Support | Solutions & Partners | Education & Training | News

Home / Software / Engineering for robot systems / KUKA iiQWorks / KUKA iiQWorks.Sim

Try out this product with a free trial **Access Trial**

iiQWorks.Sim 1.2

Article No.: 493182

iiQWorks.Sim is the 3D engineering and simulation environment for the iiQKA.OS2 system software and is installed on a laptop or PC.

- > How to install the Software
- > Test the software in iiQWorks before buying

Available licences

License Name	Price
iiQWorks.Sim Basic 1.x SU p (456528)	
iiQWorks.Sim Advanced 1.x SU 1yr (456530)	5.809,33 €
iiQWorks.Sim Adv Full 1.x E SU 1yr (456531)	194,00 €

⚠ A single user license (SU) is linked to the login information of an individual user who can use it on different devices. The license is limited to 1 year (yr).

On my.KUKA you can also request a Basic license and an Advanced test license.

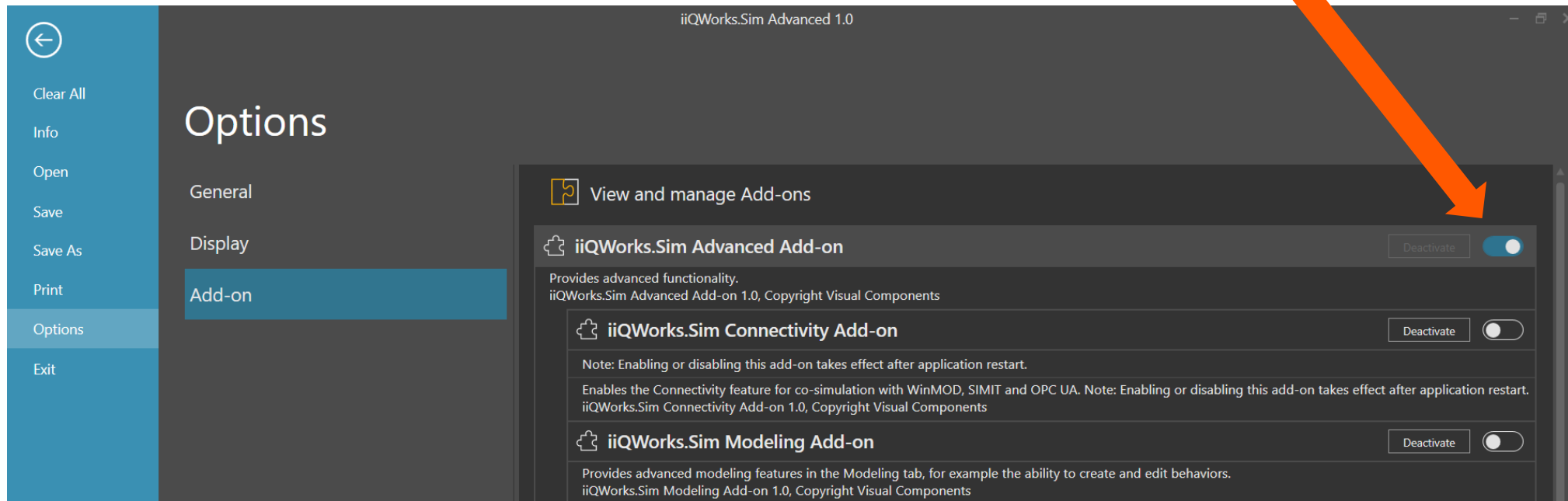
- my.KUKA: [LINK](#) (make sure to login to my.kuka.com before selecting the link)
- Select the Advanced product.
- Use the Access Trial button.

Install iiQWorks.Sim and activate the Advance license add-on:

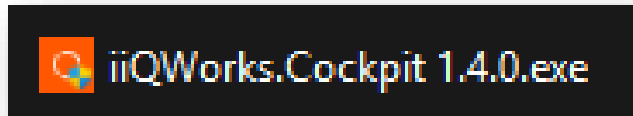
- Installation and licensing : [Xpert](#)

_Step1 – iiQWorks.Sim

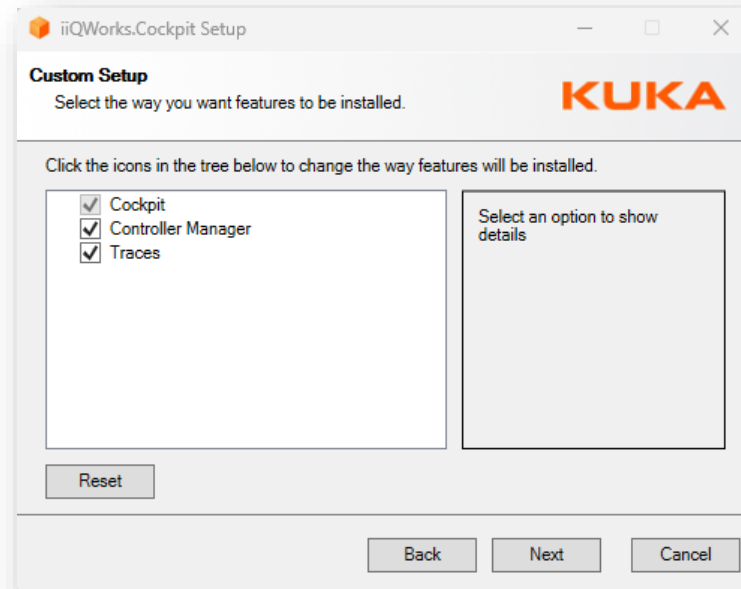
- The **iiQWorks.Sim Advanced** license is needed if you want to use the simulations features of iiQWorks.Sim.
- It can be activated in the File > Options > Add-on tab



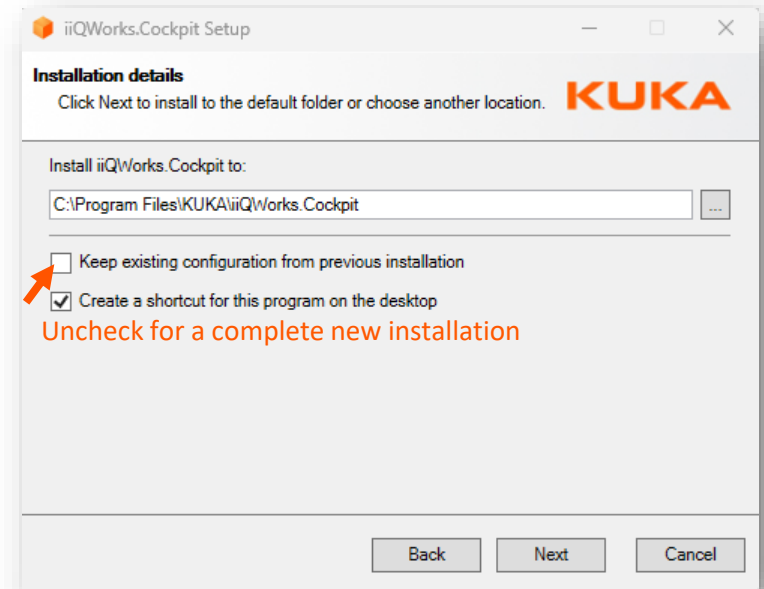
_Step2 – iiQWorks.Cockpit



1. Run the iiQWorks.Cockpit 1.X.X.exe



2. Select all available features



3. Uncheck „Keep existing configuration...” if you had an older iiQWorks.Cockpit installed. Otherwise you might have issues with starting Cockpit



Some systems require a reboot in order for iiQWorks.Cockpit to work properly



_Step3 – iiQKA.OS2 (VRC)

Select the SWR (software repository).
You will need to go through the login process for my.kuka.com when selecting the SWR item.

Download the Kuka System Software OS.
Select the latest **iiQKA.OS2 KSS 9.3** from the **iiQWorks.Cockpit** Software Repository.
This is a large file so download time may be long.

Once downloaded, you can find the file in your **iiQWorks.Cockpit** Download folder**.

The screenshot shows the KUKA Software Repository interface. On the left sidebar, the 'SWR' icon is highlighted with a red box. The main area displays a table of software packages. The table has columns for NAME, LATEST VERSION, and TYPE. The row for 'iiQKA.OS2_KSS' with version '9.3.0' and type 'os' is highlighted with a red box. To the right of the table, the details for 'iiQKA.OS2_KSS' are shown, including a description, type, latest version, and xpert link. At the bottom of the details panel, the version '9.3.0' is selected in a dropdown menu, and the 'Download' button is highlighted with a red box.

NAME	LATEST VERSION	TYPE
iiQKA.OS2_KSS	9.3.0	os

Details for iiQKA.OS2_KSS:

- Type: os
- Latest Version: 9.3.0
- Xpert Link: -

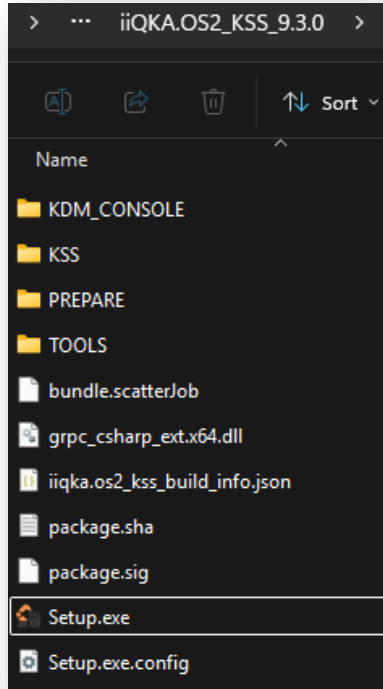
Version: 9.3.0 (selected)

Buttons: Add to Planned Actions, Download, Install

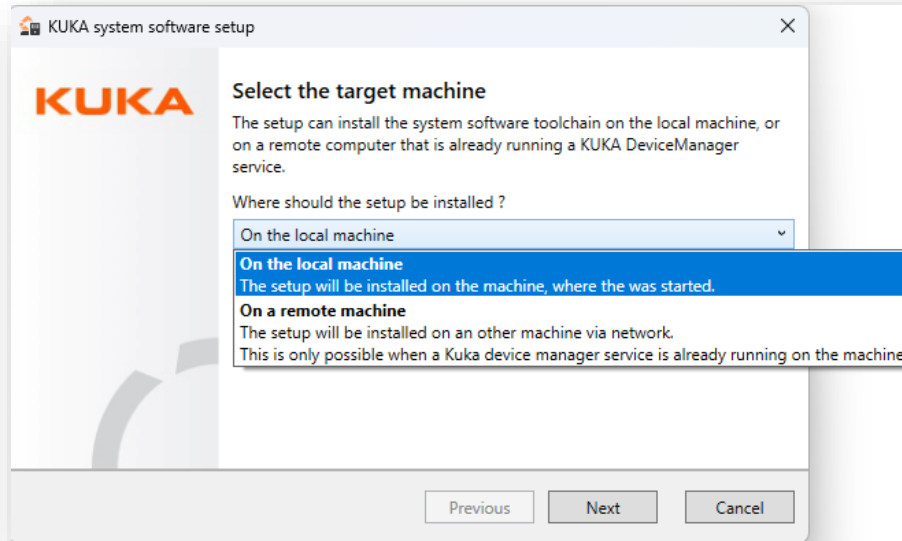
**Typically C:\Users\<your username>\AppData\Local\KUKA\iiQWorks.Cockpit 1.4\SoftwareRepository\Downloads



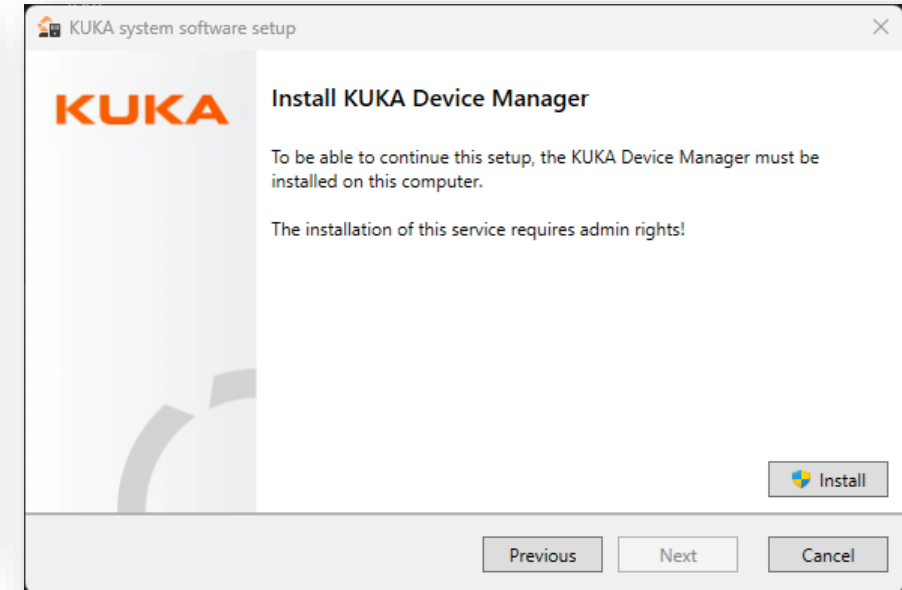
_Step3 – iiQKA.OS2 (VRC)



1. Unzip the file named iiQKA.OS2_KSS_9.3.0.zip, run the Setup.exe file



2. Select target for installation and complete setup process

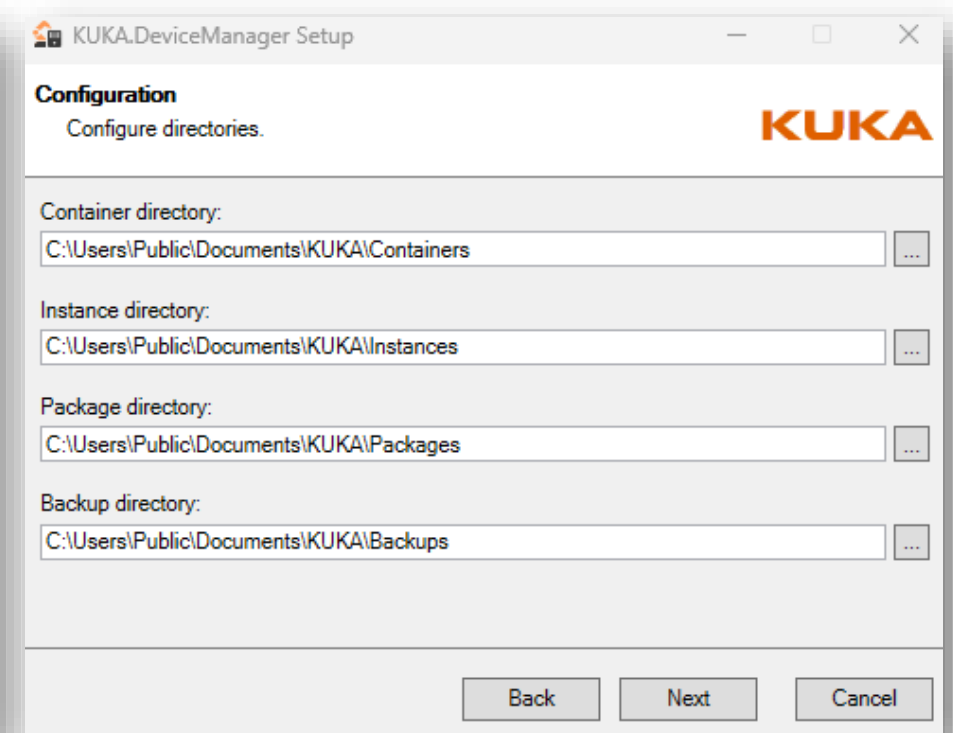
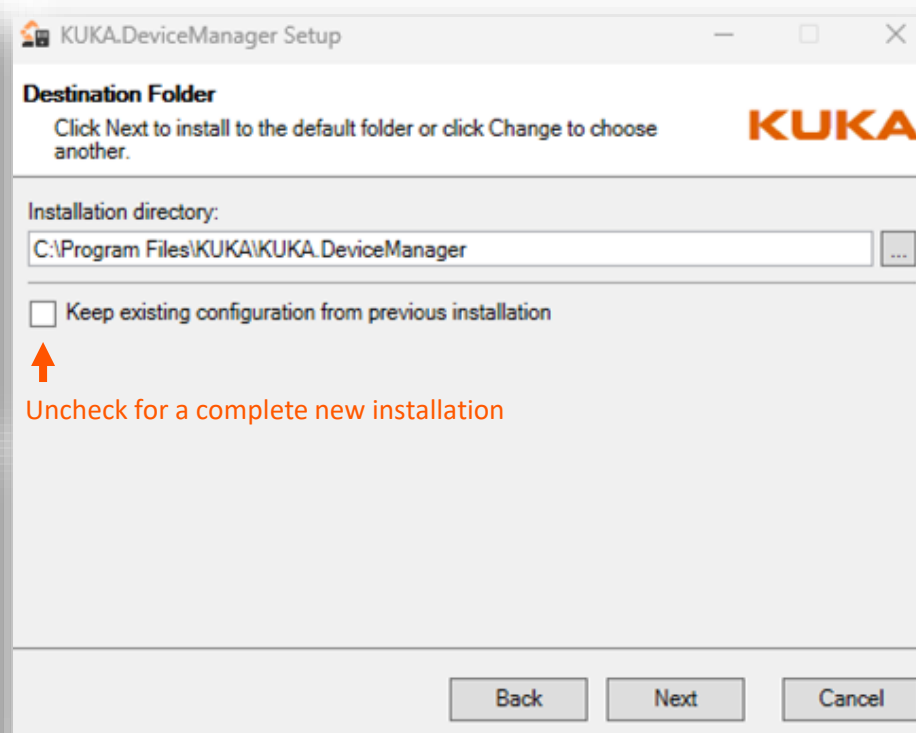
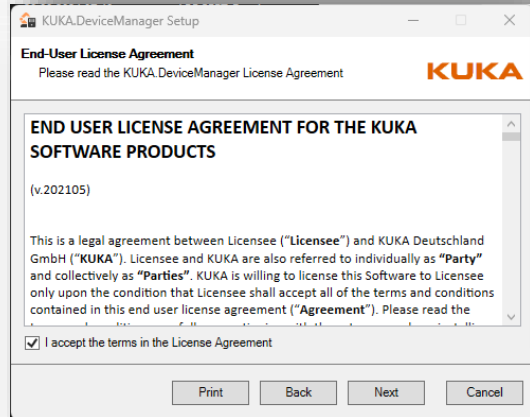
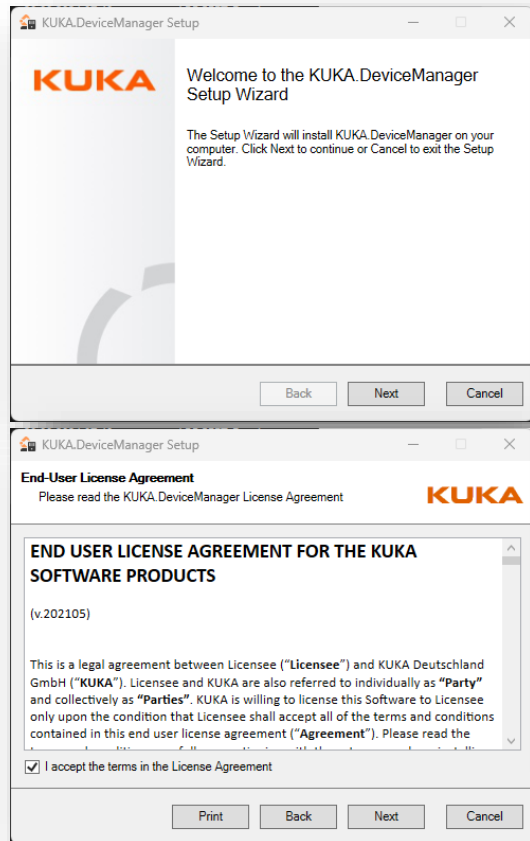


3. If KDM is not installed, it needs be installed first (requires admin privileges)



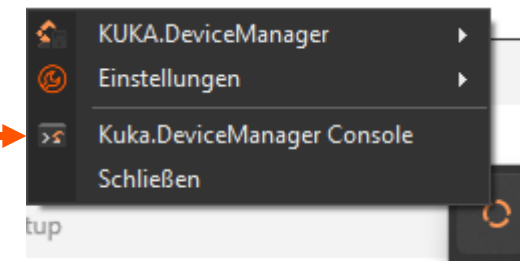
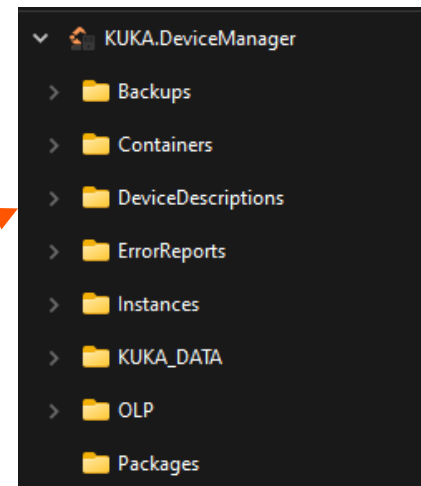
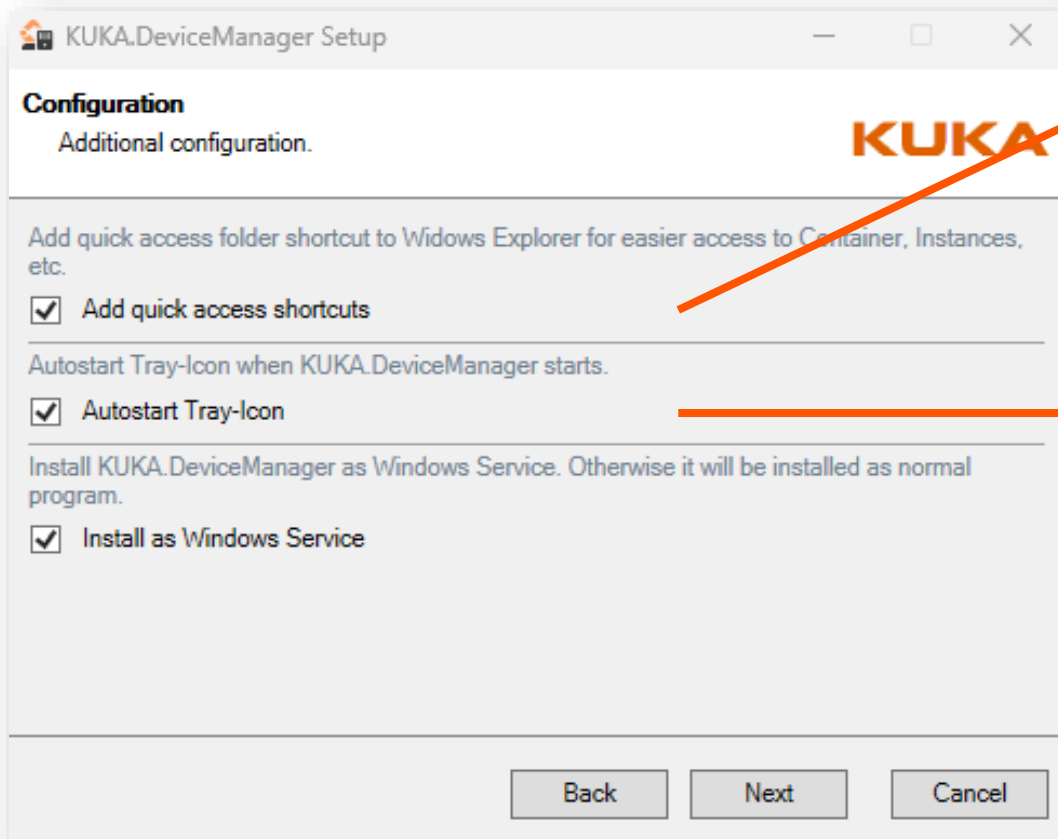
_Step3 – iiQKA.OS2 (VRC)

This installs the KDM (Kuka Device Manager). This software is the main gateway that enables iiQWorks to interface with the controller or VRC.

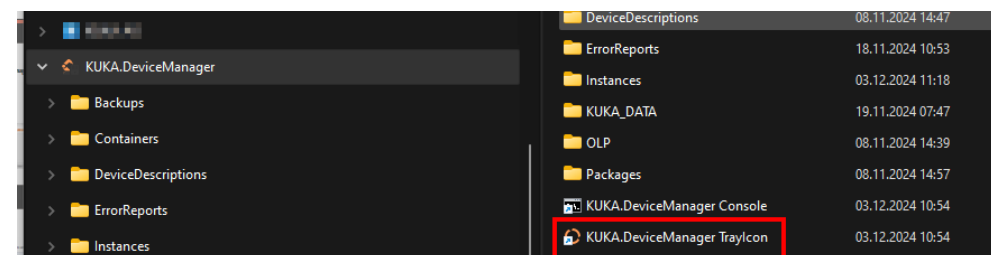




_Step3 – iiQKA.OS2 (VRC)



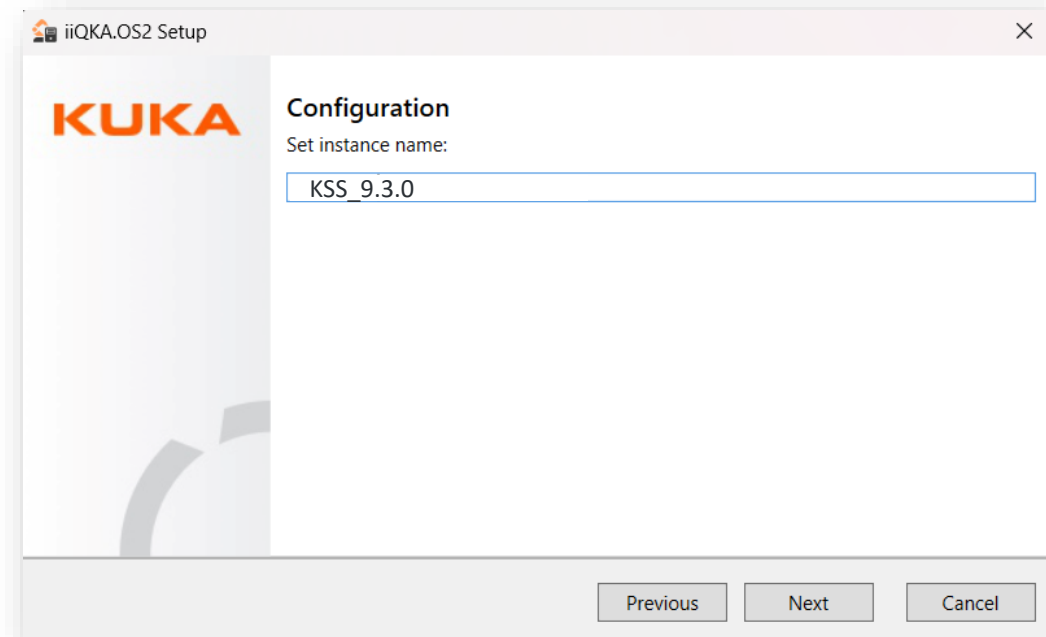
If you do not see the tray icon in the taskbar, you can simply navigate to the device manager folder and launch it manually:



The default credentials are:
User: Administrator / Password: kuka

_Step3 – iiQKA.OS2 (VRC)

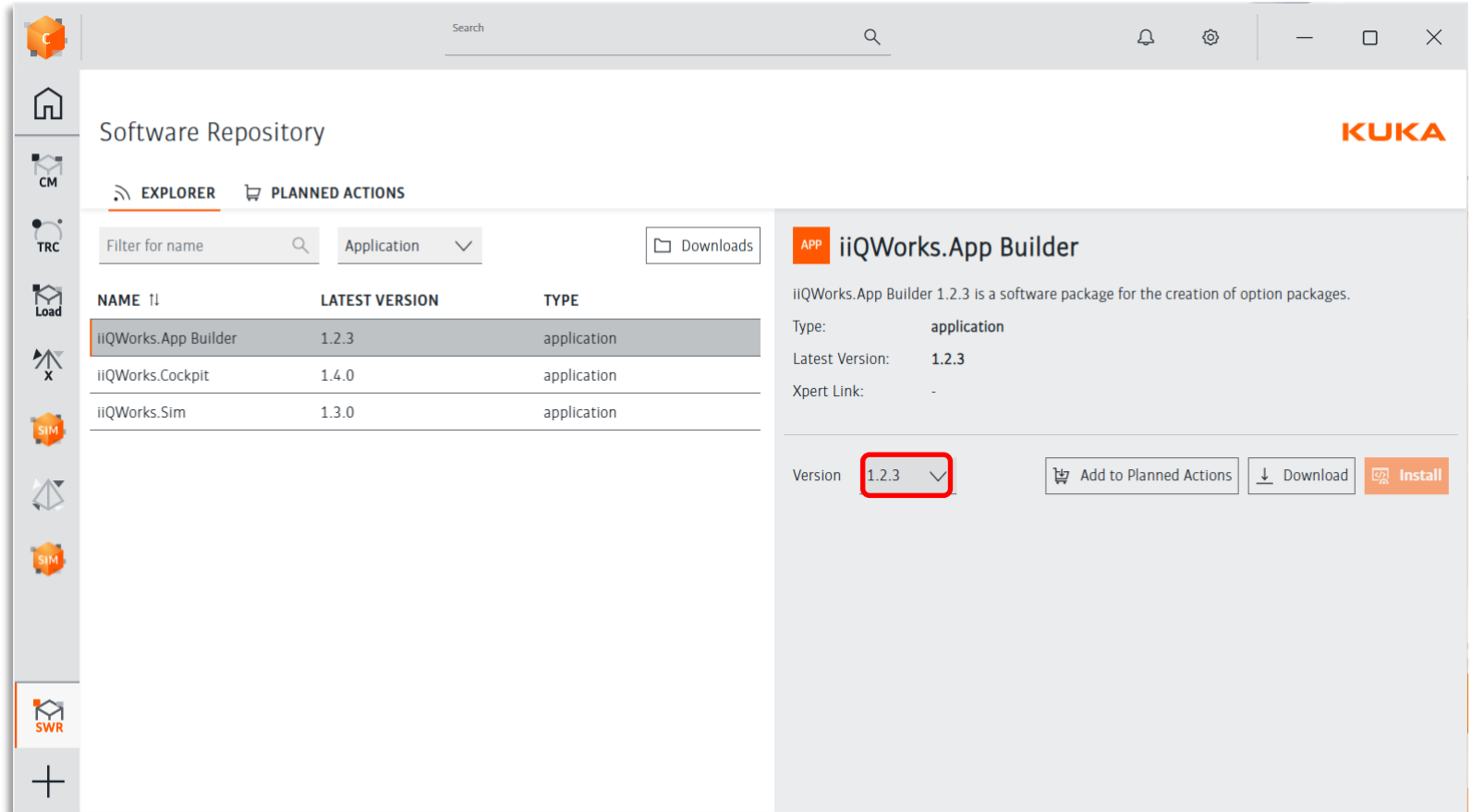
Once KDM is installed, the installation of iiQKA.OS will resume. If it is the first installation from this iiQKA.OS version, an instance will also be created.



_Step4 – iiQWorks.App Builder

Download the **iiQWorks.App Builder** version **1.1** from the **iiQWorks.Cockpit** Software Repository.

Once downloaded, you can find the file in your **iiQWorks.Cockpit** Download folder**.



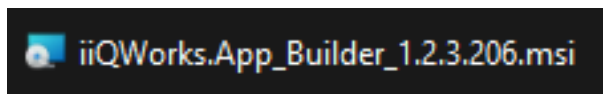
The screenshot shows the KUKA Software Repository interface. On the left is a sidebar with icons for Home, CM, TRC, Load, X, SIM, and SWR. The main area is titled 'Software Repository' and has tabs for 'EXPLORER' and 'PLANNED ACTIONS'. Under 'EXPLORER', there is a search bar and a filter dropdown set to 'Application'. A table lists the available software packages:

NAME	LATEST VERSION	TYPE
iiQWorks.App Builder	1.2.3	application
iiQWorks.Cockpit	1.4.0	application
iiQWorks.Sim	1.3.0	application

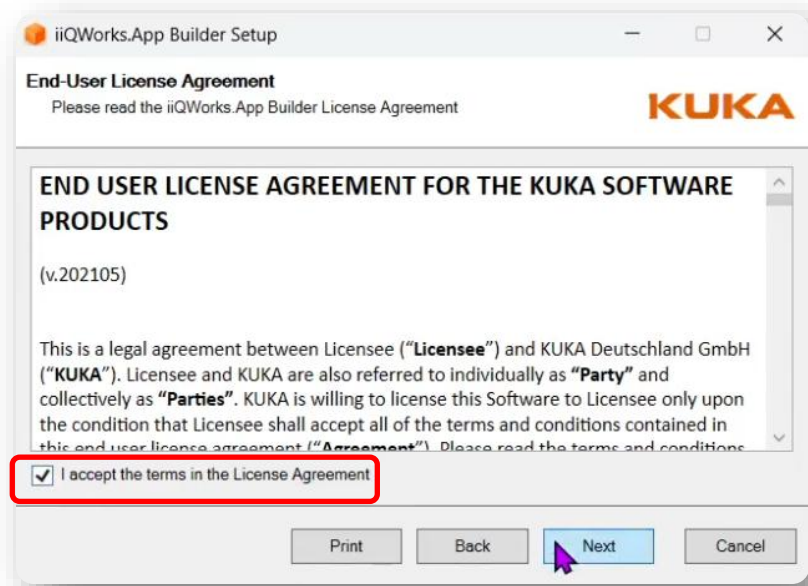
On the right, the details for 'iiQWorks.App Builder' are shown. It includes a description: 'iiQWorks.App Builder 1.2.3 is a software package for the creation of option packages.' and metadata: Type: application, Latest Version: 1.2.3, Xpert Link: -. At the bottom, there is a 'Version' dropdown menu with '1.2.3' selected, and buttons for 'Add to Planned Actions', 'Download', and 'Install'.

**Typically C:\Users\<your username>\AppData\Local\KUKA\iiQWorks.Cockpit 1.4\SoftwareRepository\Downloads

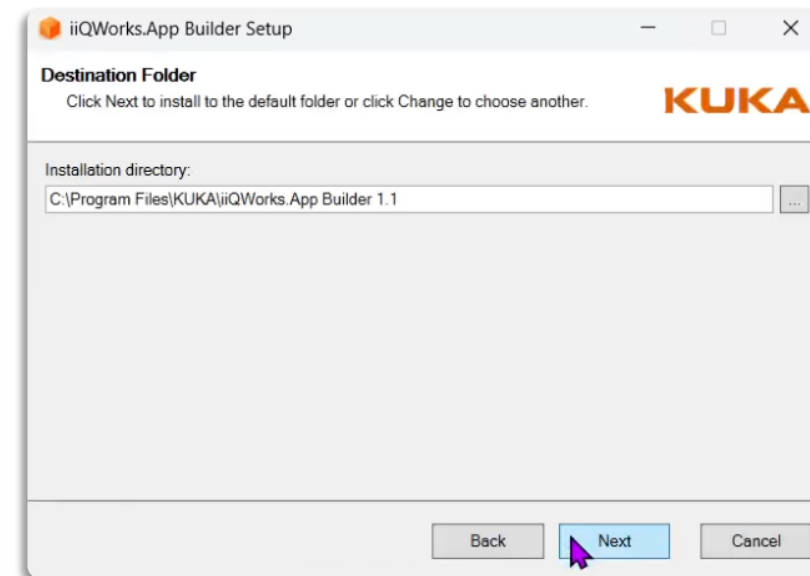
_Step4 – iiQWorks.App Builder



1. Run the iiQWorks.App_1.2.3.msi file



2. Accept the terms in the License Agreement



3. Select preferred Installation directory and finish the installation

Start an Instance

iiQWorks.Cockpit

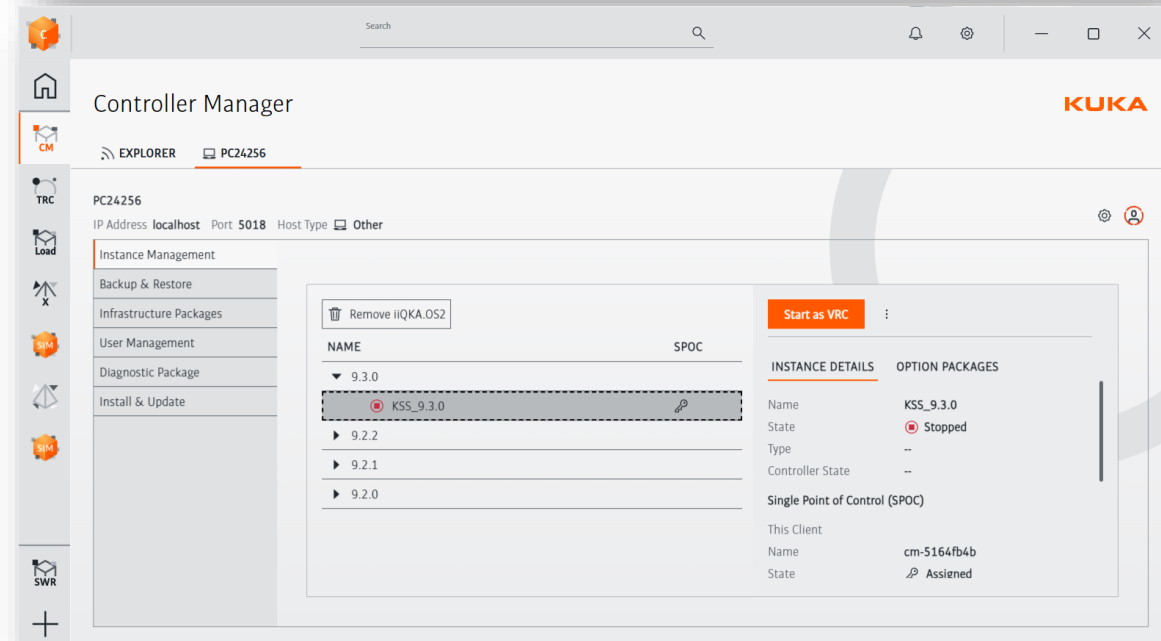
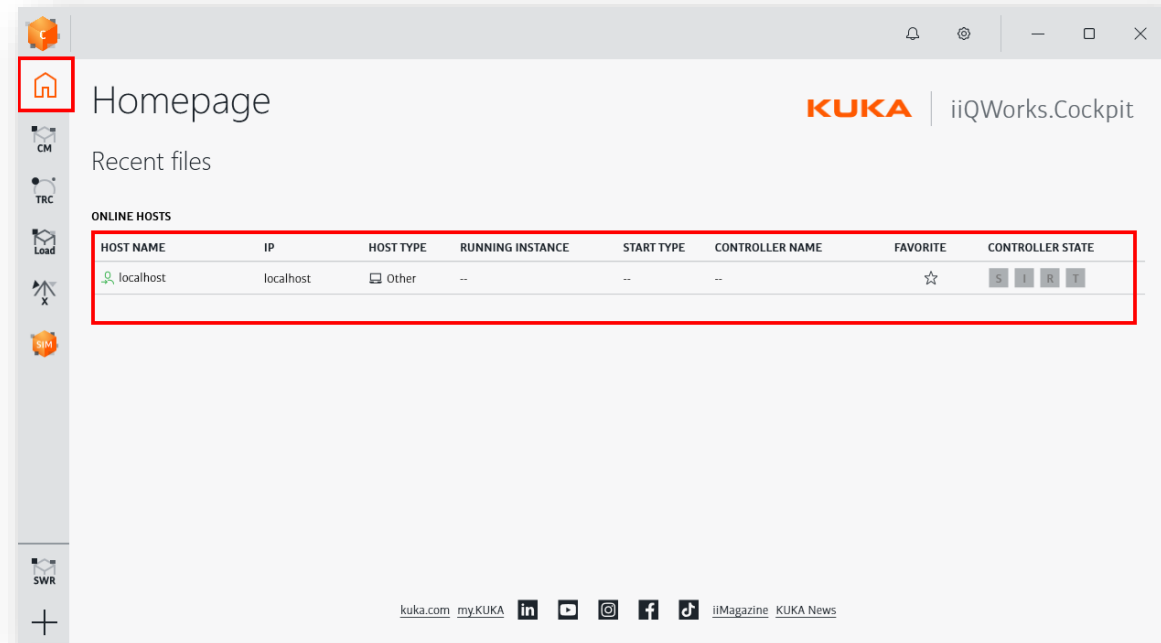


_iiQWorks.Cockpit – Instance Overview

iiQWorks.Cockpit lists all available devices.

- Your system is listed there as „localhost“ in case of VRC
- If you already were connected to a controller, the controller's hostname will be displayed

Step 1: Click on the host name localhost to access the controller Manager view



_iiQWorks.Cockpit – Controller Manager

Like on a real controller, login is necessary to interact with any Instances.

Step 2: Login as Expert : click on the persona icon and select the expert role. Default password is „kuka“.

1

IP Address localhost Port 5018 Host Type Other

Instance Management

Backup & Restore

Infrastructure Packages

User Management

Diagnostic Package

Install & Update

Remove iiQKA.OS2

NAME	SPOC
9.3.0	
KSS_9.3.0	
9.2.2	
9.2.1	
9.2.0	

Start as VRC

INSTANCE DETAILS

NAME KSS_9.3.0

State Stopped

Type --

Controller State --

Single Point of Control (SPOC)

This Client

Name cm-5164fb4b

State Not assigned

Request SPOC

2

Not logged in

Login as:

Operator

User

Expert

Safety maintenance technician

Administrator

IT Configurator

Identity Manager

3

LOGIN

Expert

Password kuka

Cancel Login

4

Logged in icon

_iiQWorks.Cockpit – SPOC

Some features like

- Stopping an instance
- Creating a backup

will directly change the state of an instance. Therefore it is only possible if **Single Point Of Control** (SPOC) has been assigned.

Step 3: Request the SPOC



If a local device (like SmartPad Pro, SmartPlug) has the SPOC, the user needs to grant the SPOC request of the remote devices (Cockpit, WebUI, Sim).

Remove iiQKA.OS2

NAME	SPOC
9.3.0	
KSS_9.3.0	
9.2.2	
9.2.1	
9.2.0	

Start as VRC

INSTANCE DETAILS

OPTION PACKAGES

Name

KSS_9.3.0

State

Stopped

Type

--

Controller State

--

Single Point of Control (SPOC)

This Client

Name

cm-5164fb4b

State

Not assigned

Request SPOC

Remove iiQKA.OS2

NAME	SPOC
9.3.0	
KSS_9.3.0	
9.2.2	
9.2.1	
9.2.0	

Start as VRC

INSTANCE DETAILS

OPTION PACKAGES

Name

KSS_9.3.0

State

Stopped

Type

--

Controller State

--

Single Point of Control (SPOC)

This Client

Name

cm-5164fb4b

State

Assigned

Release SPOC

_iiQWorks.Cockpit – Start Instance

Step 4: Start the Instance by clicking on „Start as VRC“

Remove iiQKA.OS2

NAME	SPOC
▼ 9.3.0	
KSS_9.3.0	
▶ 9.2.2	
▶ 9.2.1	
▶ 9.2.0	

Start as VRC

INSTANCE DETAILS

OPTION PACKAGES

Name

KSS_9.3.0

State

Stopped

Type

--

Controller State

--

Single Point of Control (SPOC)

This Client

Name

cm-5164fb4b

State

Not assigned

Request SPOC

Remove iiQKA.OS2

NAME	SPOC
▼ 9.3.0	
KSS_9.3.0	
▶ 9.2.2	
▶ 9.2.1	
▶ 9.2.0	

Stop Instance

Show iiQKA.UI

INSTANCE DETAILS

OPTION PACKAGES

Name

KSS_9.3.0

State

Running

Type

VRC

Controller State

S

I

R

T1

Single Point of Control (SPOC)

This Client

Name

cm-5164fb4b

State

Assigned

Release SPOC

_iiQWorks.Cockpit – Start UI

When SPOC is granted, you can start the UI by clicking

Show iiQKA.UI

A new window will open which then displays the UI.

A real controller automatically will display the UI on a smartPAD Pro or a tablet connected via the smartPLUG.



If the „Show iiQKA.UI“ option is not available. Check if the iiQKA.WebUI option package is installed on this instance.

The screenshot displays the iiQWorks.Cockpit interface. At the top, there are buttons for '+ Add iiQKA.OS2', 'Remove iiQKA.OS2', 'Stop Instance', and 'Show iiQKA.UI'. Below these is a table with columns 'NAME' and 'SPOC'. The table lists two instances: '9.2.0' and '9.1.4'. The '9.2.0' instance is expanded, showing 'KSS_9.2.0' (with a green checkmark) and 'Workshop' (with a red square icon). An orange arrow points from the 'Show iiQKA.UI' button to the 'KSS_9.2.0' row. Another orange arrow points from the 'Show iiQKA.UI' button to the 'Show iiQKA.UI' button in the top right corner. Below the table, there is a section for 'INSTANCE DETAILS' and 'OPTION PACKAGES'. The 'INSTANCE DETAILS' section shows 'Name', 'State', and 'Type'. The 'OPTION PACKAGES' section shows 'KSS_9.2.0', 'Running' (with a green checkmark), and 'VRC'. Below this, a new window opens displaying the UI. The window has a title bar with 'KSS_9.2.0 - iiQKA' and a URL. The main content area shows a 'PROGRAMMING' tab with a file explorer view. The file explorer shows a tree structure with 'Program', 'System', 'TP', and 'cell'. The right side of the window shows a list of axes (A1 to A6) with '+' and '-' buttons. The bottom of the window shows a 'Delete' button.

_iiQWorks.Cockpit – Option Packages

 Remove iiQKA.OS2

NAME	SPOC
▼ 9.3.0	
✓ KSS_9.3.0	
▶ 9.2.2	
▶ 9.2.1	

Stop Instance

Show iiQKA.UI

:

INSTANCE DETAILS

OPTION PACKAGES

NAME	VERSION
iiQKA.CommonApplicationMessage	1.1.2.6
iiQKA.UI	3.1.0.1095
iiQKA.UI Creator	1.2.1.107
iiQKA.UserTech	8.2.0.501

In the „Option Packages“ tab are displayed all the Option Packages that are installed in this instance.

The default installed Option Packages are:

- iiQKA.CommonApplicationMessage
- iiQKA.UI
- iiQKA.UI Creator (successor of HMI Easy)
- iiQKA.UserTech

Programming and Simulation

iiQWorks.Sim

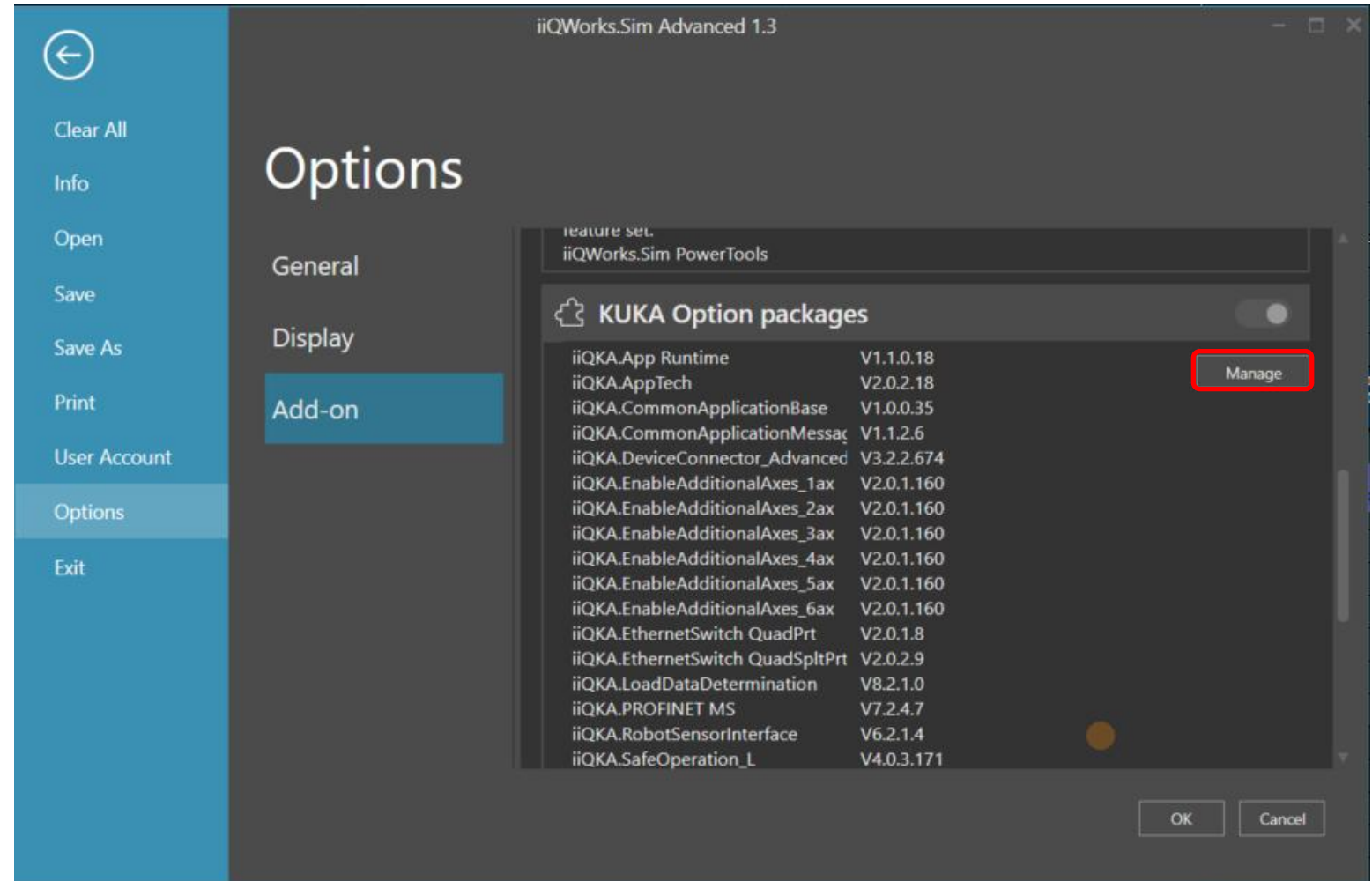
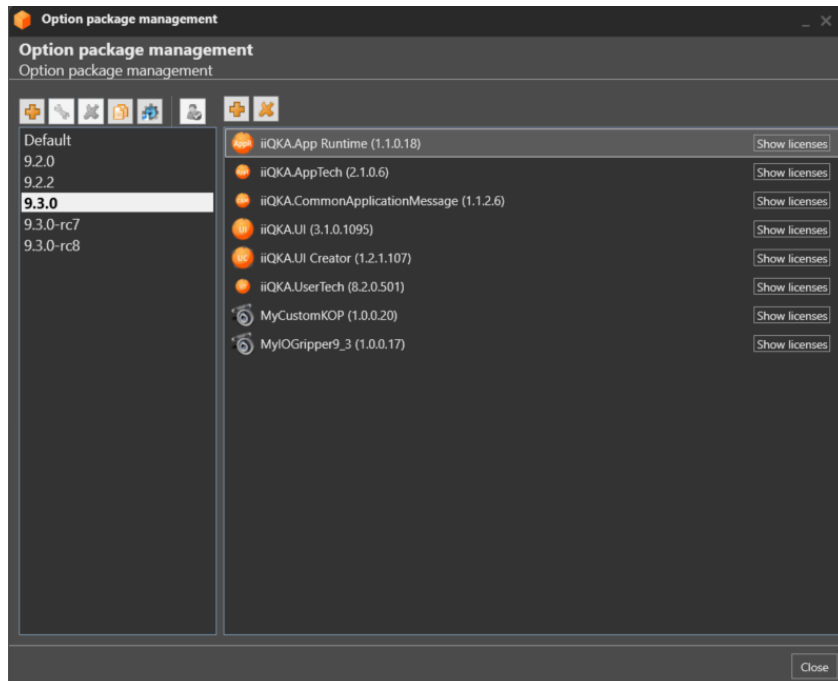


_iiQWorks.Sim – Option Packages Management

As always, an option packages needs to be installed in **iiQWorks.Sim** to be installed in an Instance.

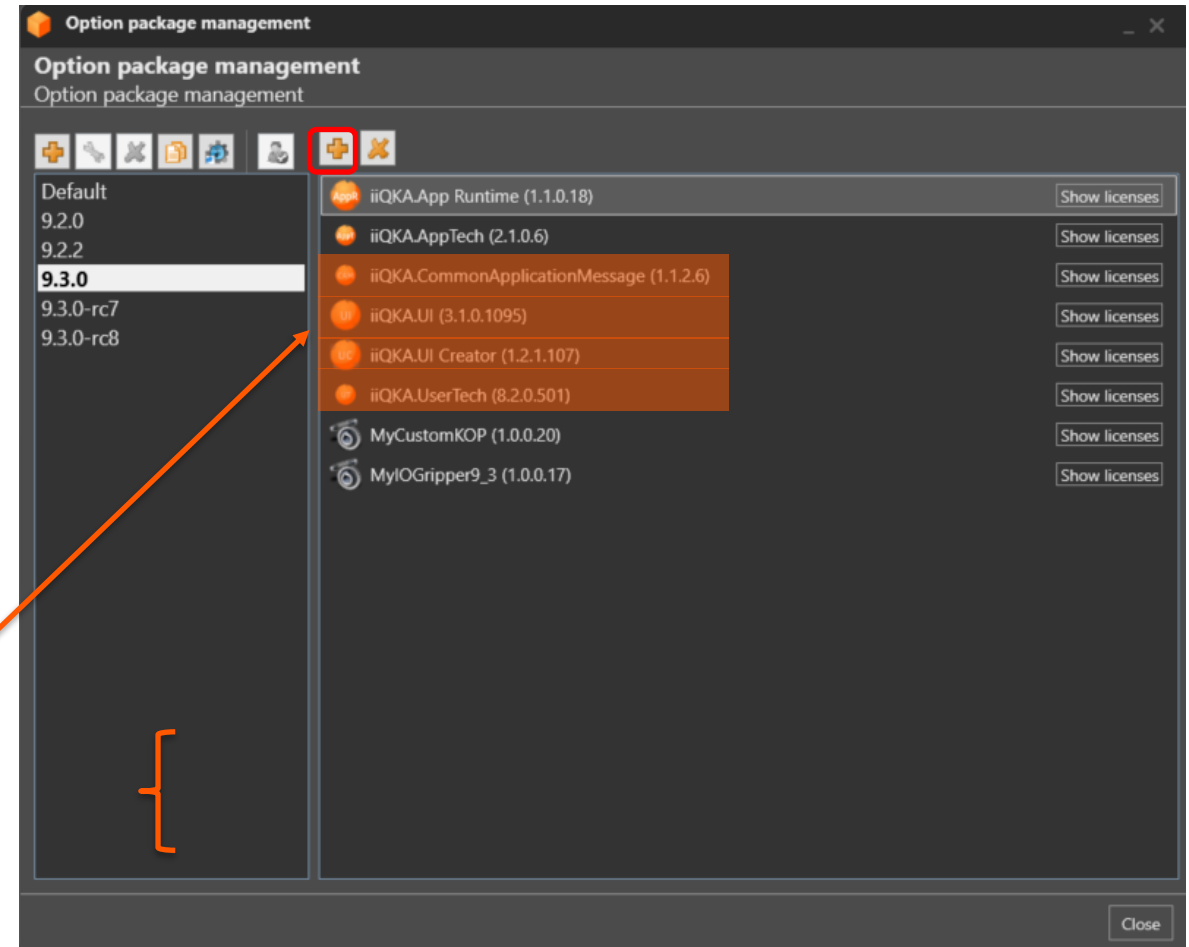
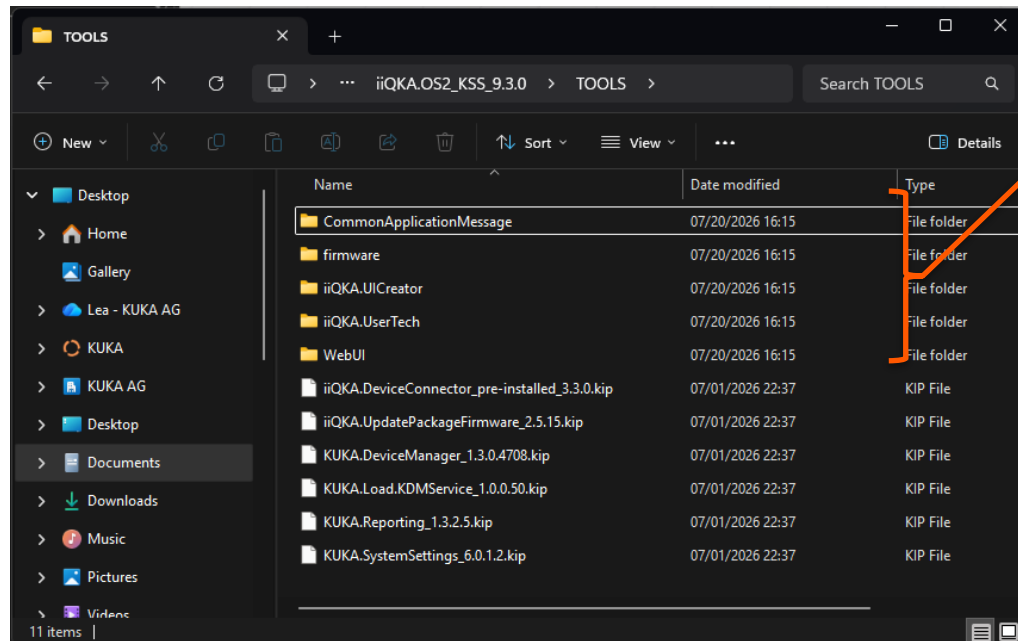
With **iiQWorks.Sim 1.2** came the possibility to create profiles.

When no project is opened, profiles can be managed by going to File > Options > Add-on



_iiQWorks.Sim – Add .kop

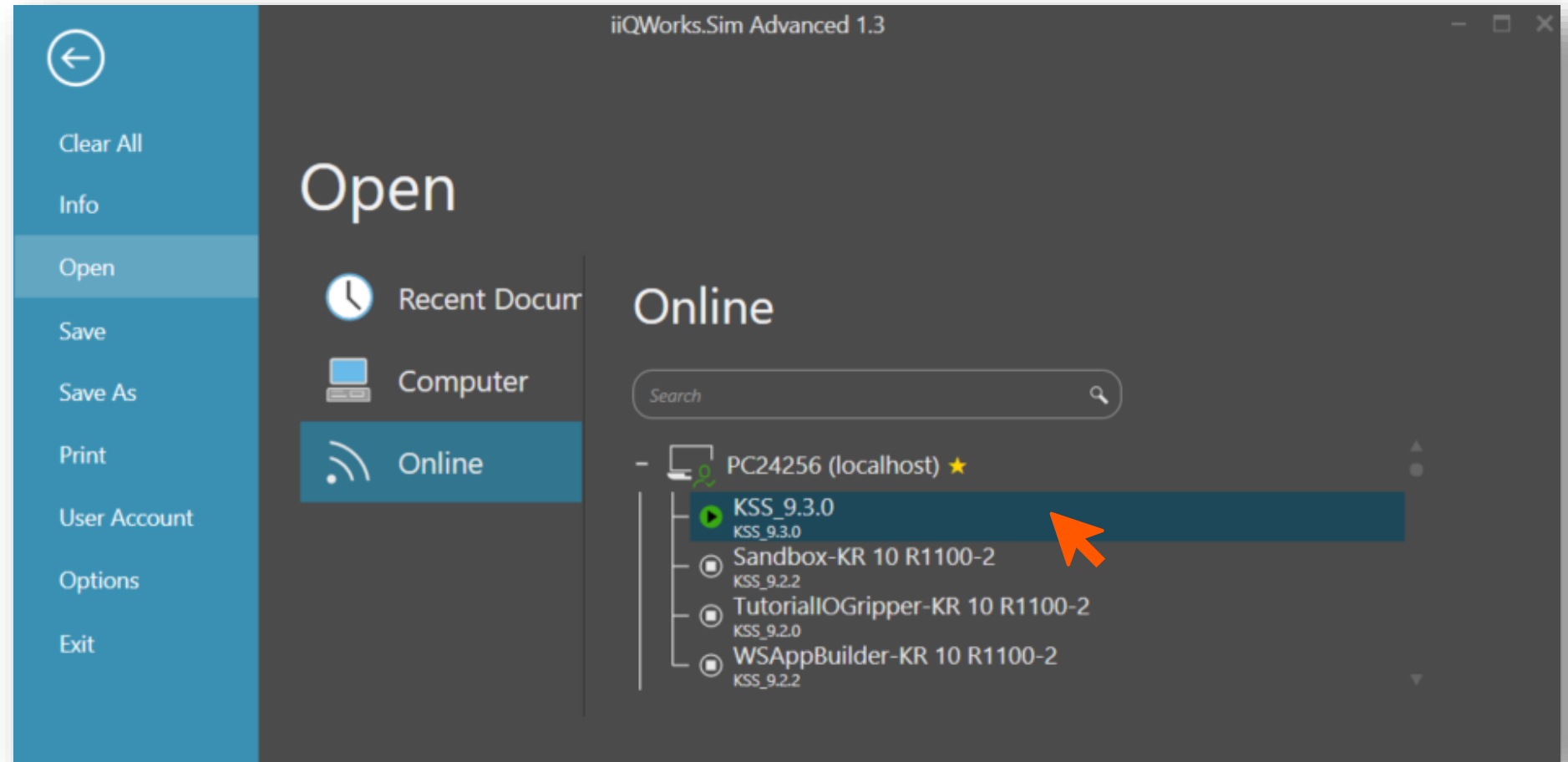
To add an option package to a profile, click on the “+”. At least the default option packages installed in an instance should be added. They can be found in the TOOLS folder from the iiQKA.OS2 folder.



If the “+” sign is greyed out, it can be because a project is already opened. Click first on “Clear all” to close the project

_iiQWorks.Sim – Open Instances Project

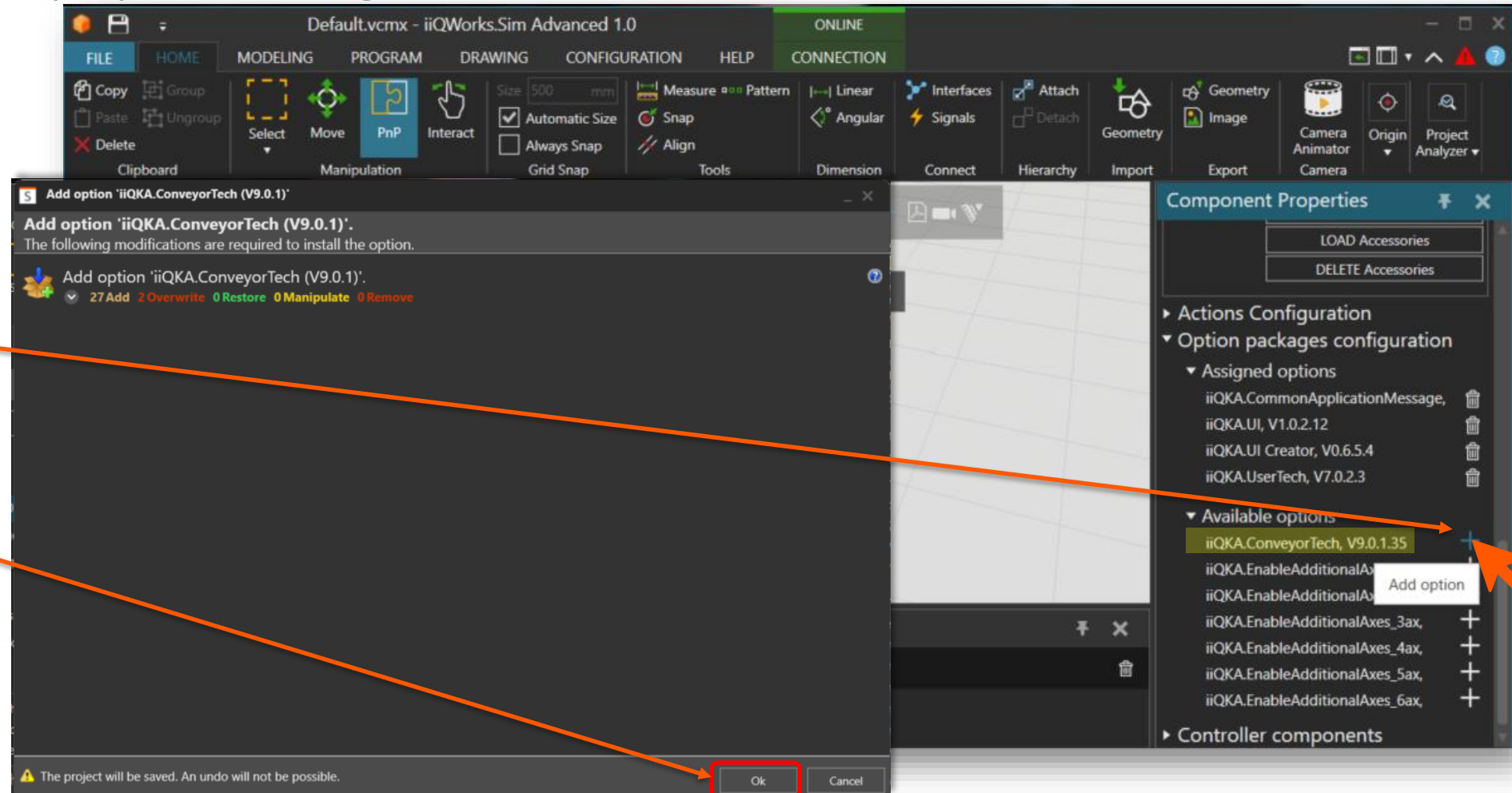
All available systems running KUKA Device Manager will be listed in the online section and you can open any instance by **doubleclicking** on it



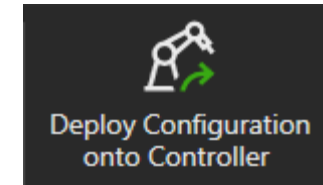
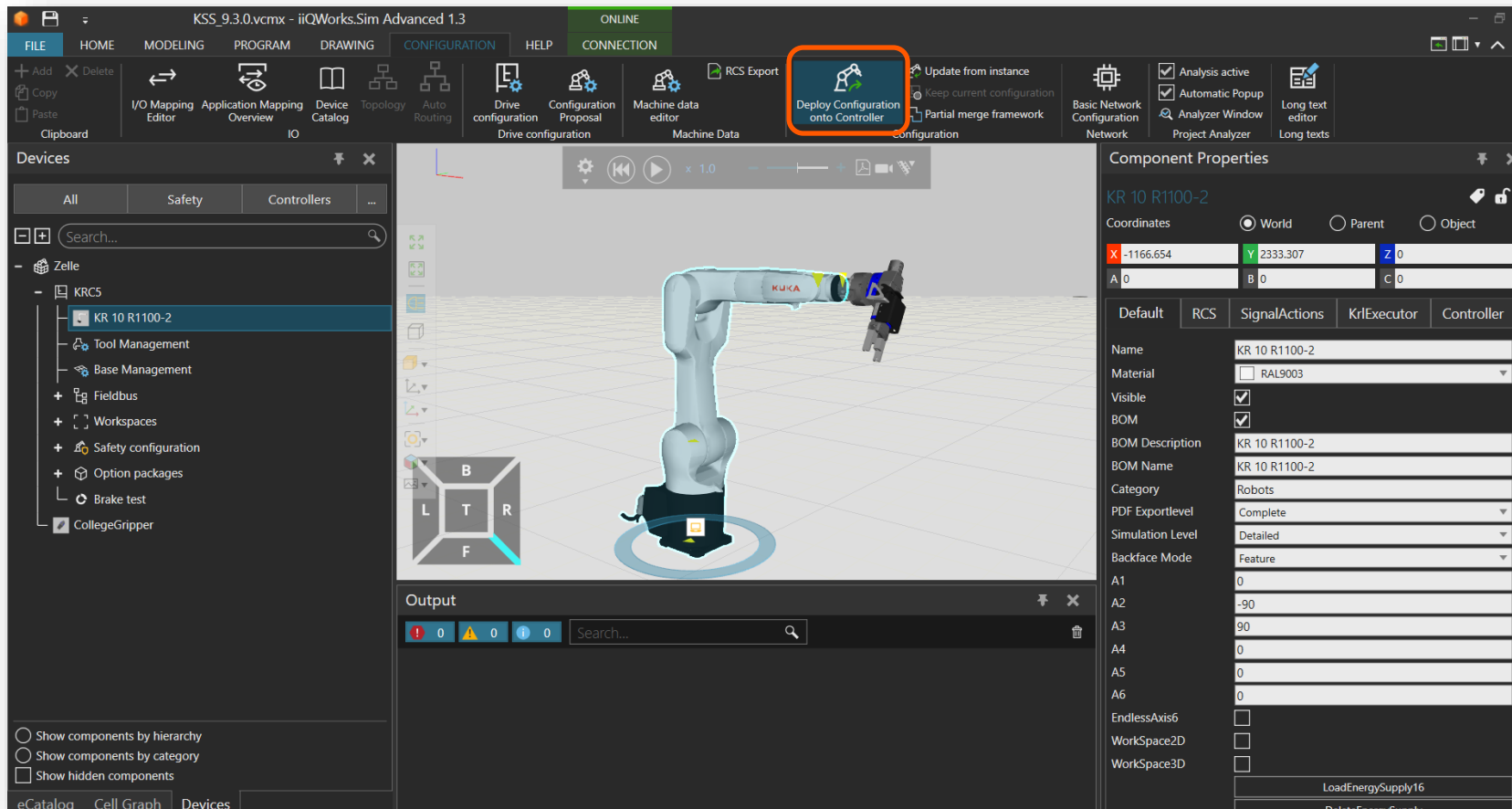
_iiQWorks.Sim – Deploy Option Package

To deploy an Option Package onto the controller:

1. Add your Option Package in iiQWorks.Sim (see slide [_iiQWorks.Sim – Add .kop](#))
2. Click on the Robot. On the Component Properties > Option packages configuration tab, click on the “+” next to the available option that need to be installed
3. Click OK to complete adding the option.



_iiQWorks.Sim – Robot/Controller configuration



The **Configuration** menu gives access to all settings like I/O configuration, Controller configuration, drive configuration. With “Deploy Configuration onto controller” the instance will be updated or if selected a new instance will be created with this configuration. The workflow can be compared with the known workflow from WorkVisual deployment.

_iiQWorks.Sim – Create Program

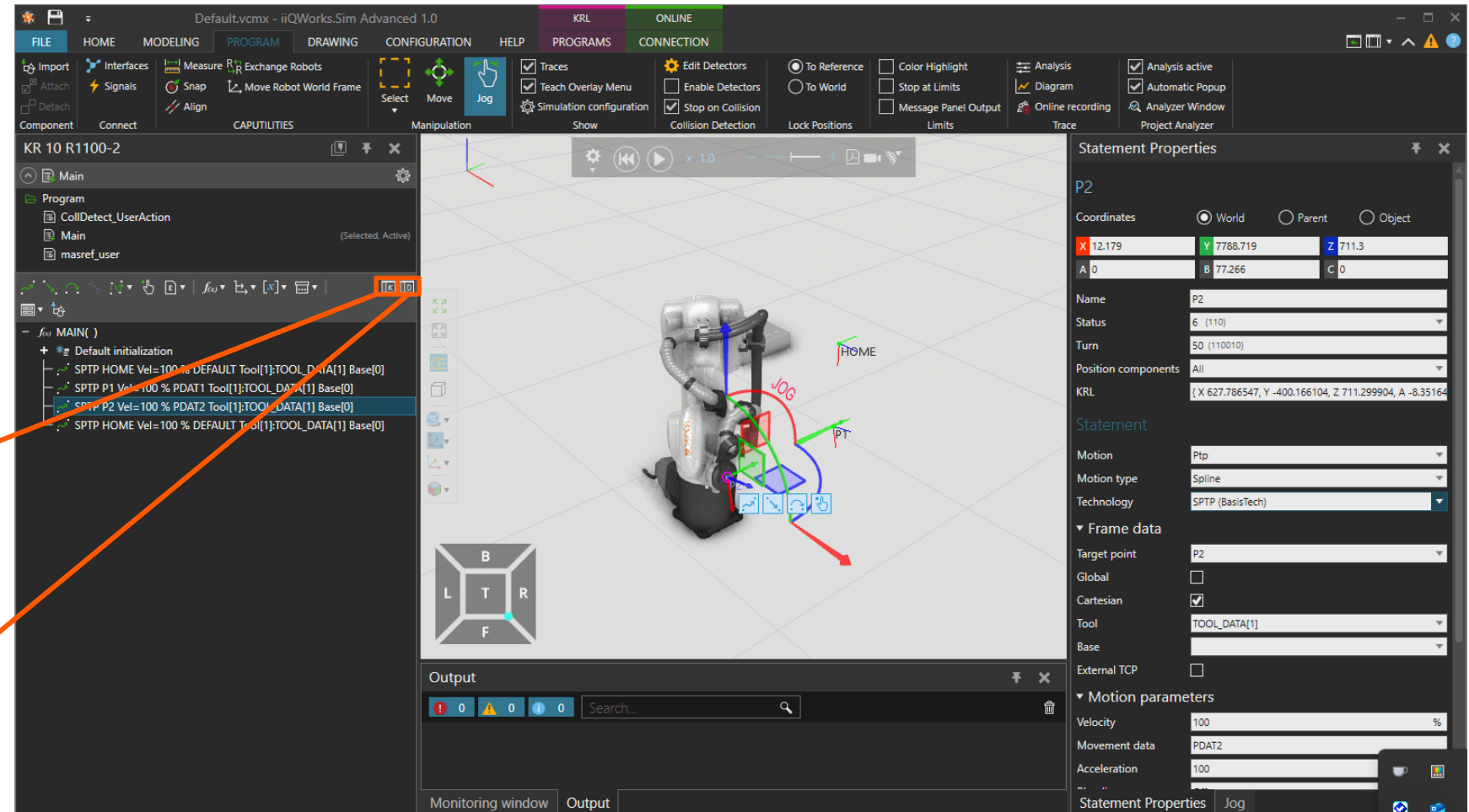
When selecting the robot in the scene, you see all available KRL programs when switching to the “Programs” section. From here you can create new programs, teach motions, touchup etc...

KRL view

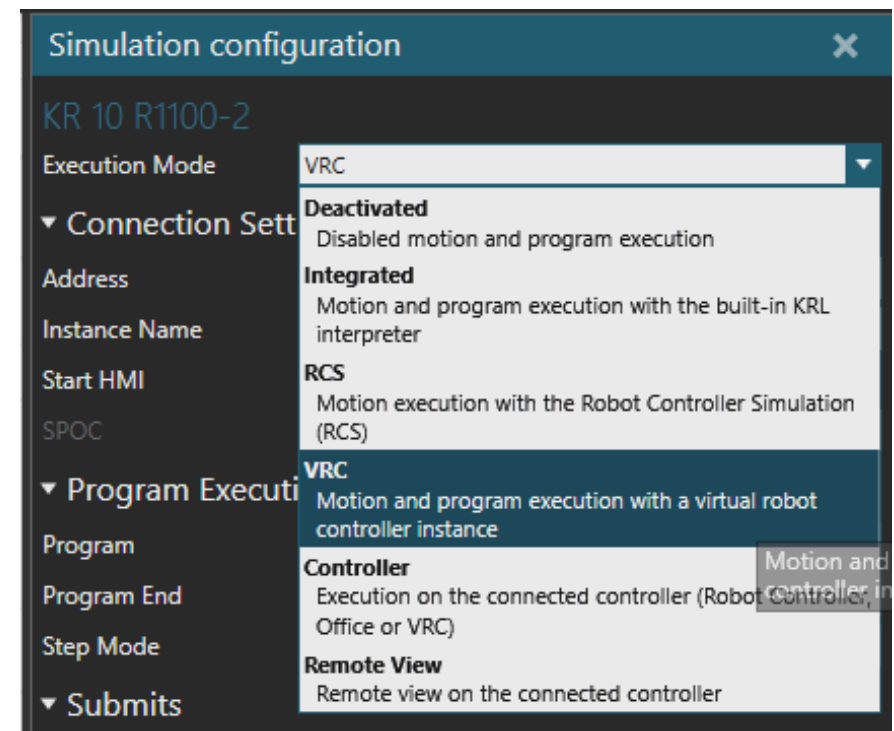
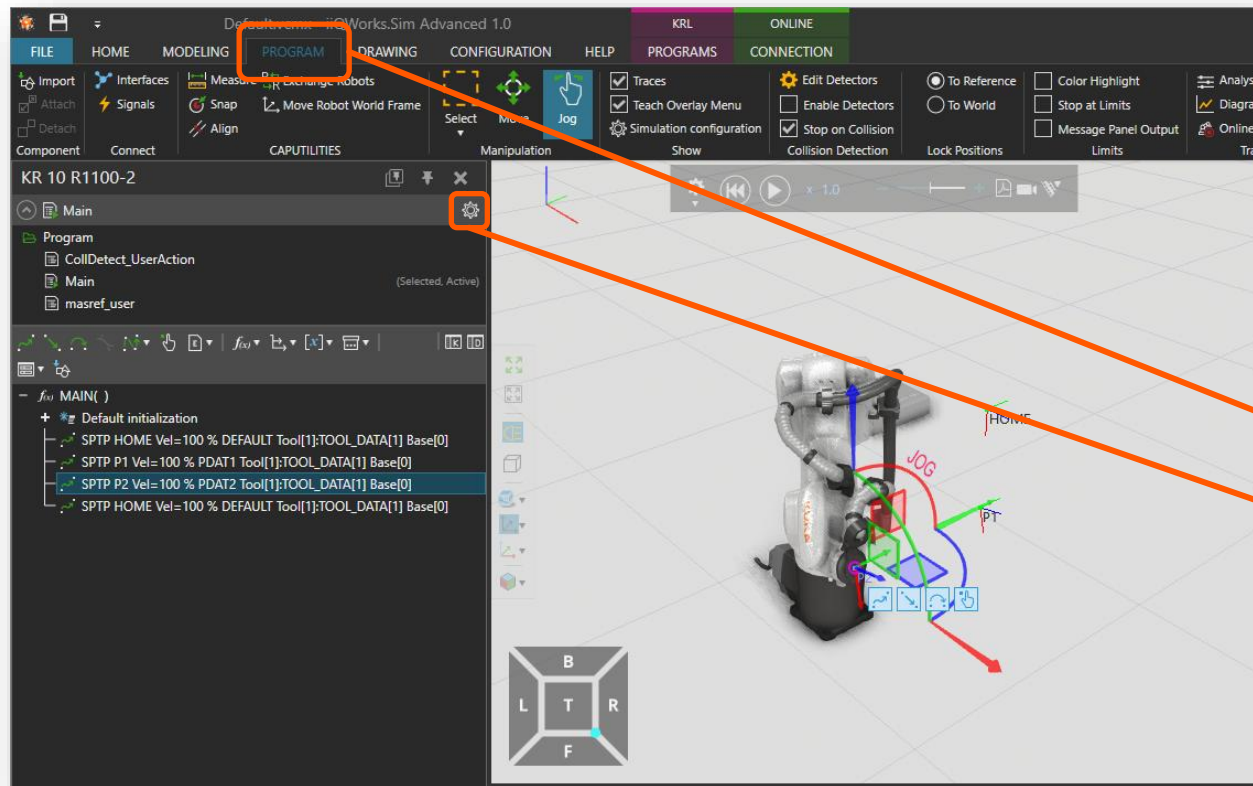
Click to toggle between statement view and KRL view in the program area

DAT view

Click to toggle between SRC view and DAT view in the program area



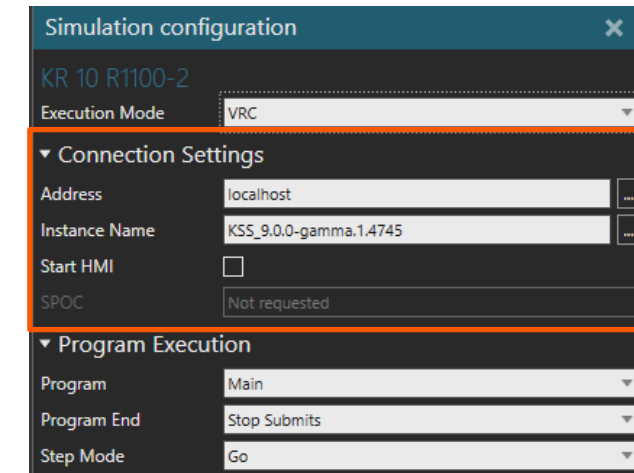
_iiQWorks.Sim – Simulate Program in VRC



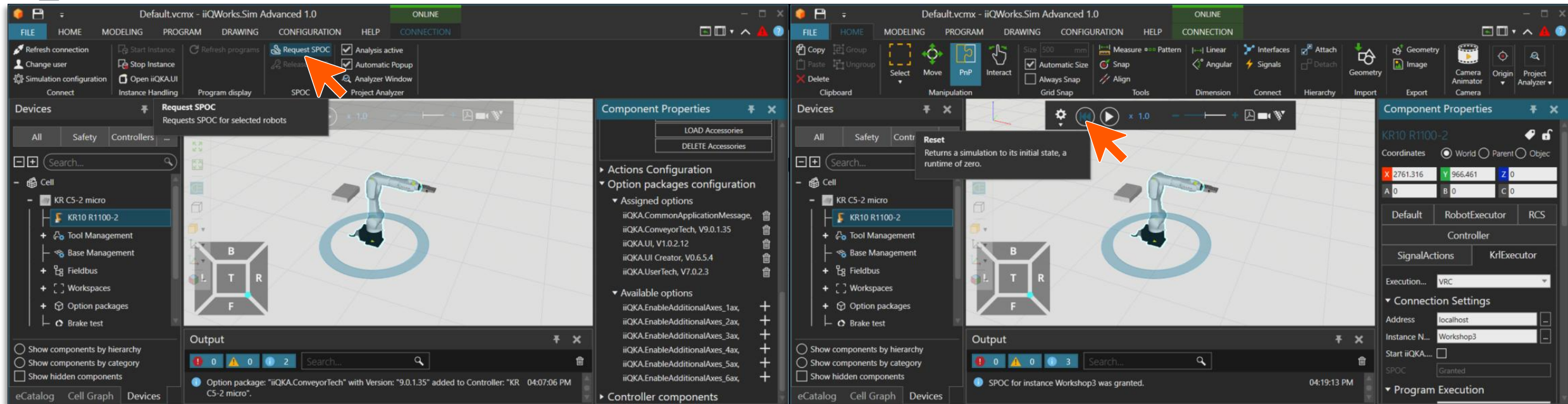
In the Program ribbon, select the robot.

Open simulation settings with the gear.

With VRC, you then can select the system + instance which the simulation should be executed on.



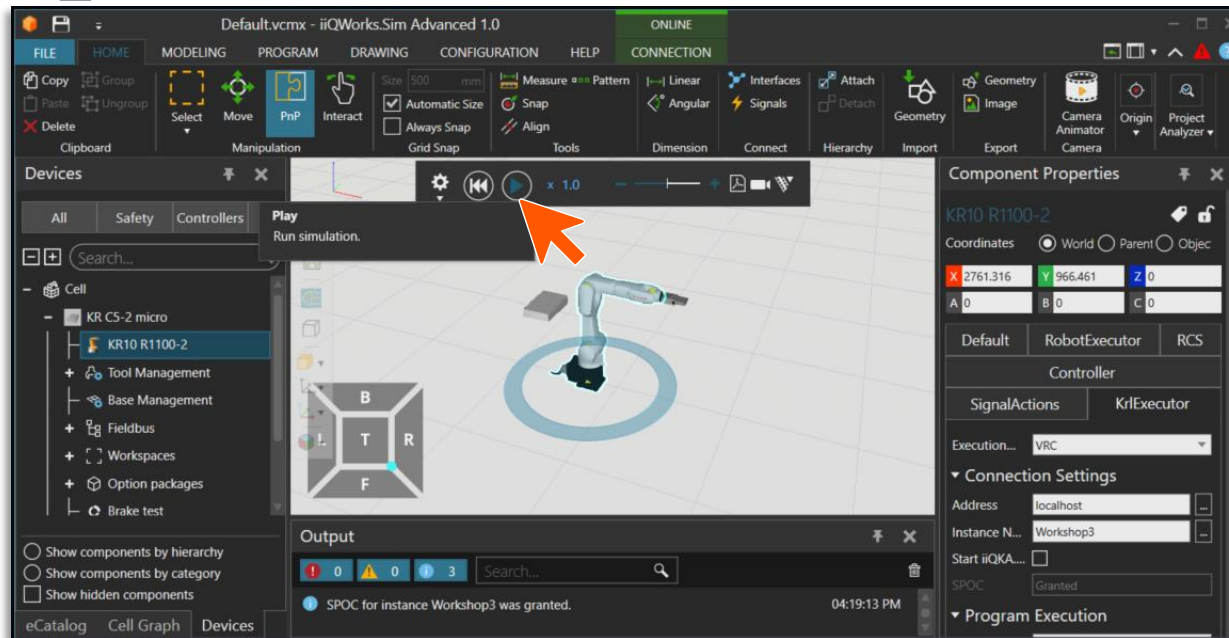
_iiQWorks.Sim – Run simulation



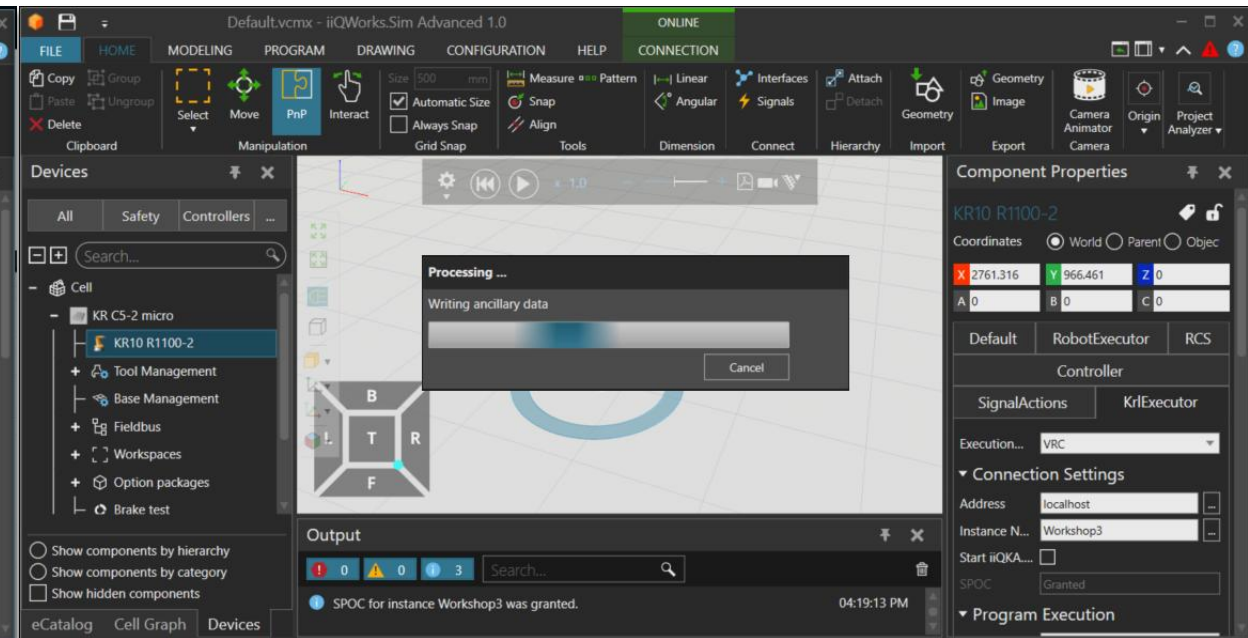
1. Request the SPOC in the Connection Tab

2. Reset the simulation

_iiQWorks.Sim – Run simulation



3. Start the simulation



4. Wait for the simulation to load

Resources & Support



_Xpert Documentation

- KRC5 micro-2: [LINK](#)
- iiQKA.OS2 KSS 9.3: [LINK](#)
- iiQWorks.Sim 1.3 [LINK](#)
- iiQWorks.Sim 1.3 - Installation and licensing: [LINK](#)
- iiQWorks.Sim 1.3 – VRC Setup: [LINK](#)
- iiQWorks.Cockpit 1.4: [LINK](#)
- iiQWorks.App Builder 1.2: [LINK](#)

_YouTube Video playlist

Playlist 01 – 5 Videos – 01 - iiQWorks Tutorial - Download Installation Licensing - [LINK](#)

Playlist 02 – 3 Videos – iiQWorks Tutorial - iiQWorks.Sim Overview - [LINK](#)

Playlist 03 – 3 Videos – iiQWorks Tutorial - iiQWorks.Cockpit Instance Handling - [LINK](#)

Playlist 04 – 12 Video – iiQWorks Tutorial - iiQWorks.Sim First Commissioning process - [LINK](#)

Playlist 05 – 1 Video – Advance ConveyorTech - [LINK](#)

Playlist 06 – 7 Videos – Interfaces and signal mapping, Simit, OPC UA, Y200 - [LINK](#)

_Support

If you are facing any issues, you can request support through **my.KUKA** and open a support ticket: [LINK](#)

Or contact directly the Ecosystem team by sending us an E-Mail: Ecosystem@kuka.com

Case erstellen / Xpert durchsuchen

Bitte machen Sie die folgenden Angaben:

* Topic

Technische Unterstützung / Hotline

Betreff des Kundenvorgangs

[Ecosystem] xxxxxxxxx

Case Description

Dear Support,

<problem description>

<screenshot>

Roboter mit dem Support-Case verknüpfen

Search

1 - 3 von 3 Artikel

Assetname	Robotermodell	Seriennummer
☐ KUKA Robots KR 6 R700-2	KR AGILUS	1025868
☐ KUKA Robots KR 6 R900-2	KR AGILUS	1027392
☐ KUKA Robots KR 6 R900 sixx	KR AGILUS	510760

<

1

>

Fall erstellen