

Copies to	Title <b>What's New RobotStudio 5.13.02</b>	Ref	
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## What's New RobotStudio® 5.13.02

### *New Functionality RobotStudio 5.13.02*

#### **PC SDK and FlexPendant SDK 5.13.02 installed with RobotStudio**

Version 5.13.02 of PC-SDK and FlexPendant SDK are installed with the Complete installation of RobotStudio and can optionally be installed with the Custom installation option.

#### **New generation of positioner libraries**

The M2009 generation of ArcWelding positioners is available in RobotStudio. The M2001 positioners will still be available in the RobotStudio installation. Read more in the section '*Positioner Libraries*' of the document '*RobotStudio Release Notes 5.13.02.pdf*'.

**Note:** *The new libraries are not saved as libraries by default, they are stored in the station. A consequence is that part positions can be modified. To prevent the library from being accidentally modified, you should save it as a library.*

#### **New paint robot IRB5500 ProcessArm**

A variant of the IRB5500 with process arm is available in RobotStudio 5.13.02.

#### **Updated demo station for Smart Components**

The demo station for Smart Components named '*Smart Component Solar Simulation.rspag*' has been updated with randomized input positions and a sensor that reads positions and feeds the virtual controller during run-time.

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## *New Functionality RobotStudio 5.13.01*

### **PC SDK and FlexPendant SDK 5.13.01 installed with RobotStudio**

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Version 5.13.01 of PC-SDK and FlexPendant SDK are installed with the Complete installation of RobotStudio and can optionally be installed with the Custom installation option.

### **Smart Components**

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#### **New base component: MoveAlongCurve**

A base component that moves an object along a geometric curve at a specified speed

#### **Show/Hide available for Queue Components**

Some people find it too time consuming for show/hide operations of several object to use SmartComponents. That is why Show/Hide is now available for Queues.

#### **New base component: Simulation Events**

To get events for simulation start and stop.

#### **New base component: JointReader**

Reads the joint values of a mechanism. Similar to PositionSensor.

### **Offline**

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#### **Baseframe values can be copied between mechanical units**

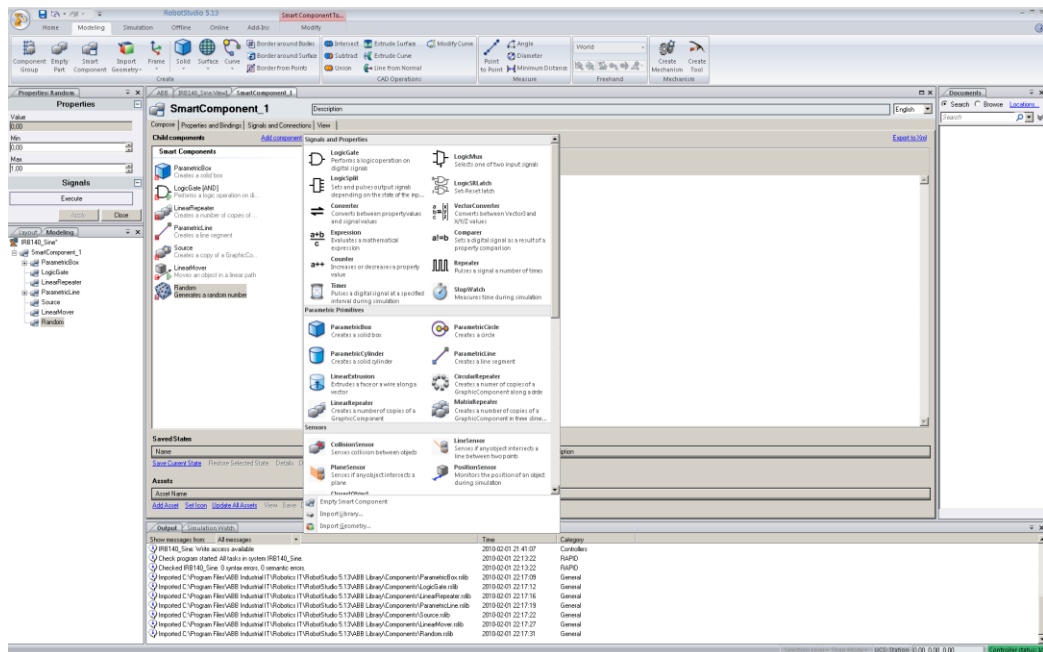
A copy function is now available in the System Configuration dialog, so that a baseframe value can be copied to another single mechunit

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## New Functionality RobotStudio 5.13

### Smart Components

Smart Components offers a new way of creating simulations by adding behavior to the simulated objects. It brings life to the graphical component libraries by the addition of so-called *Base Smart Components* for basic motion, signal logic, arithmetic, parametric modeling, sensors etc, etc. Moreover, Smart Component authoring can be separated from its use in a simulation. The internal logic of the user-created, composite Smart Component is hidden to the component user that only needs to know how to connect it to other high-level Smart Components of the simulation. This allows Smart Components for common equipment to be re-used over and over again, thus saving valuable time.



The Base Smart Components available in RobotStudio 5.13 will cover the most cases, which removes the need for customization in e.g. Visual Studio Tools for Applications (VSTA). Advanced users still have the possibility to develop their own customized smart components using Microsoft Visual Studio C# or any other programming language that supports Microsoft .NET Framework.

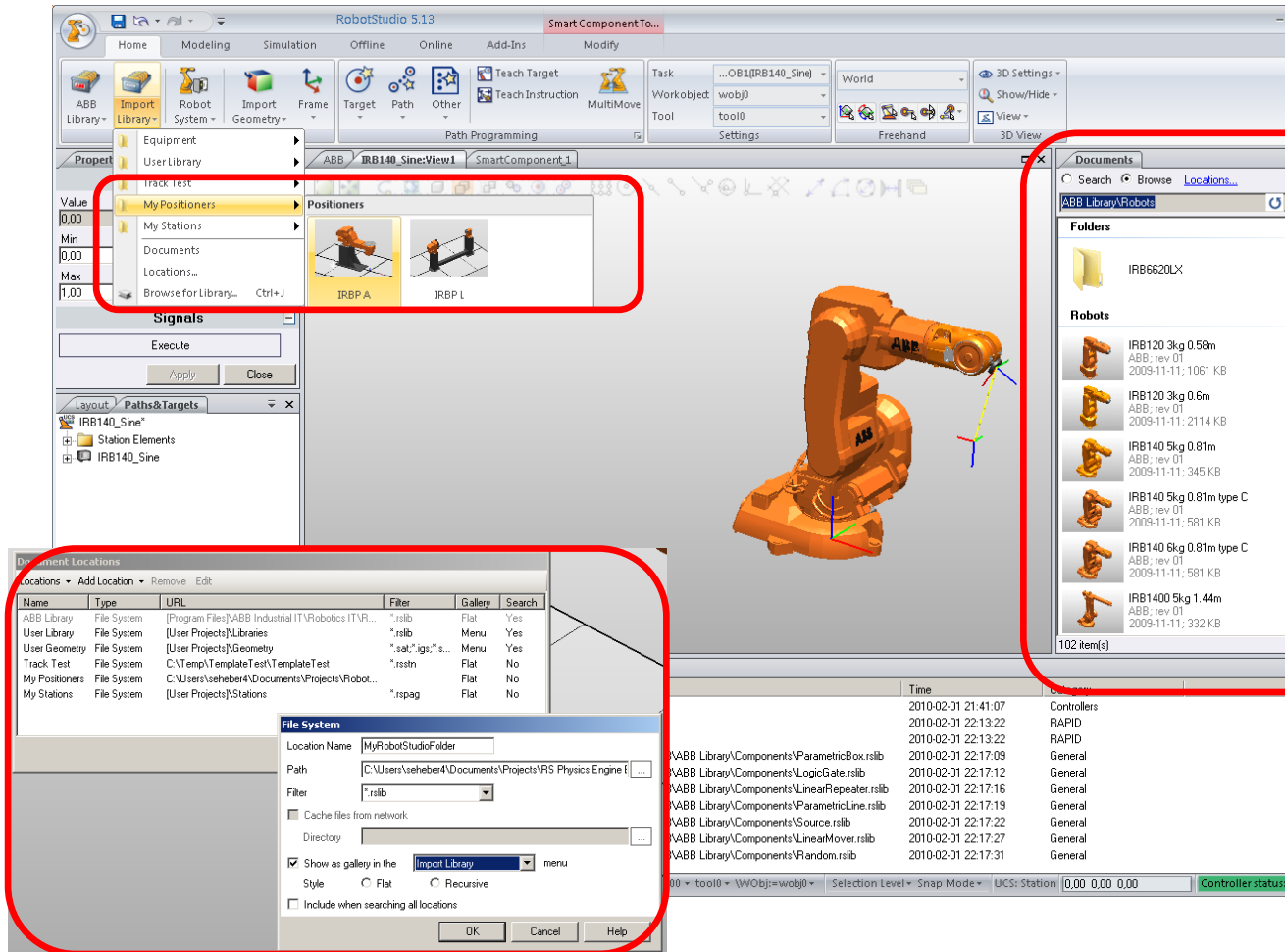
Smart Components is a replacement to the Event Manager. Instead of adding the simulation logic to the centralized Event Manager, the logic is distributed to the simulation objects themselves. However, the Event Manager will still be available for backwards compatibility.

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## Document Manager

The Document Manager allows you to search and browse RobotStudio documents like libraries, geometries and so on in large numbers and from different locations. Commonly used folders can be added to a gallery such as the standard gallery for ABB Library components. Two modes are supported: Searching and Browsing

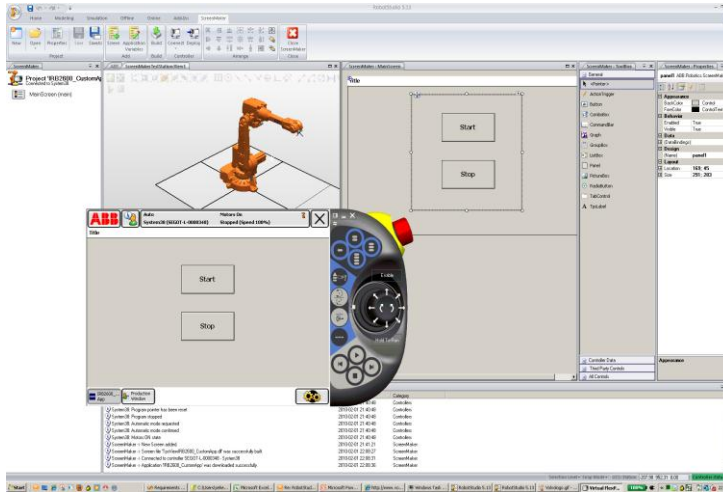


## ScreenMaker

ScreenMaker is fully integrated with RobotStudio and need no longer be installed as a separate product. It allows easy creation of FlexPendant operator panels.

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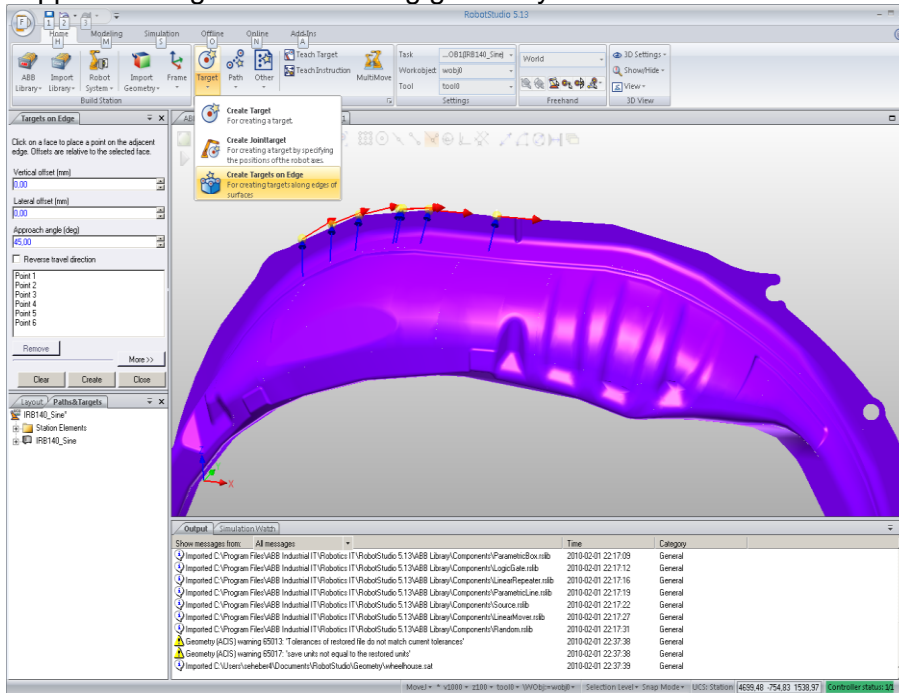
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## Developer Tools

PC-SDK and FlexPendant SDK are now integrated in the RobotStudio installer and can be installed with the Complete or Custom installation option.

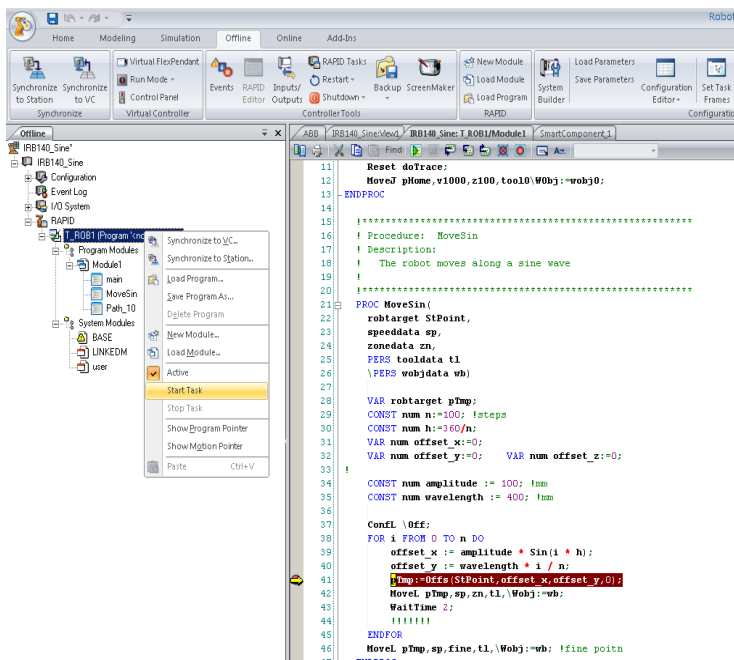
## Targets on Edge

Support for target creation using geometry.



## Start and Stop of Tasks in Offline browser

Tasks (both motion tasks and background tasks) can be selectively started and stopped from the Offline browser.

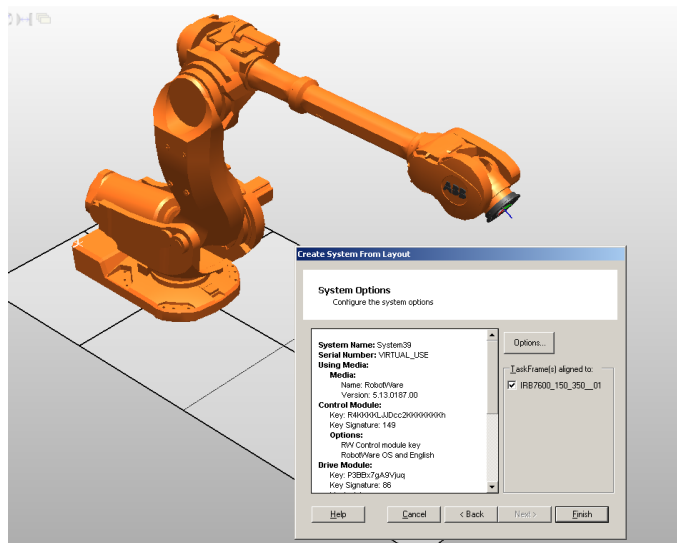


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## Improved support for task frame alignment

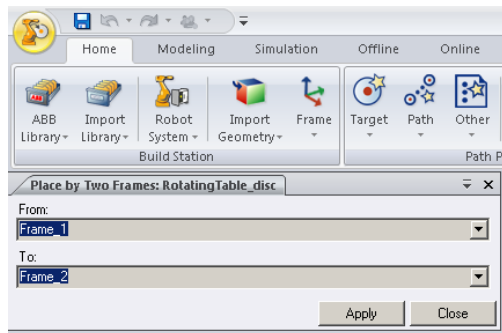
It is easier to define and modify the task frame in RobotStudio 5.13. By default, the task frame is aligned with the robot base frame in 'System From Layout'. This corresponds to setting the base frame translation and rotation equal to zero in the Motion Configuration database of the controller (MOC.CFG).

When moving the task frame, the user gets the options to move or keep the base frame location. Correspondingly, when adjusting the base frame using the Set Position tool, the user gets the option to adjust the task frame.



## Place by Two Frames

New place option



## Support for LOCAL procedures in RAPID

RobotStudio now supports RAPID procedures declared as LOCAL.

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## Mirror function

Geometric entities such as parts, bodies, and curves can now be mirrored around its local origin.

