SODIUS WILLERT

# Power Pack for Harmony Model-Based Engineering

Power Pack for Harmony MBE is a collection of powerful automation features providing additional value for engineers working with IBM Rhapsody and Harmony MBE.

## STREAMLINE YOUR MODEL BASED ENGINEERING PROJECTS WITH POWER PACK FOR HARMONY MBE

Harmony MBE is the latest version of Harmony, a set of guidelines, best practices and automations supporting engineers in their demanding projects. IBM Rhapsody users can easily leverage Harmony MBE by selecting Harmony MBE as the project type in new Rhapsody projects.

**Leverage a multitude of automation helpers with Power Pack for Harmony MBE**
This add-on provides engineers with a broad range of proven and well thought-through automation helpers for greatly reduced manual work, streamlined workflows, built-in consistency checking, and more.

### USE CASES

- **Consistency checking:** Benefit from automated checking of your models for inconsistencies or missing elements
- **Automated creation of artifacts:** Save time through automated creation of panel diagrams, test architectures and ICDs
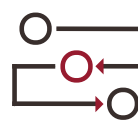
### LEVERAGE THE HARMONY MBE PROCESS FOR HIGHER QUALITY

The workflows and best practices included in the Harmony MBE process aim to support engineers in building complex Rhapsody models. Power Pack for Harmony MBE, available from SodiusWillert, empowers the use of Harmony MBE and increases the value of using Harmony MBE by providing an additional set of automation tools that relieve engineers of tedious routine manual tasks.

### ENSURE CONSISTENCY OF YOUR MODEL

These helpers are designed to automate the tedious manual examination of model elements. They help identify inconsistencies or missing elements, such as discrepancies between call operations and accept event actions in a swimlane, scenario inconsistencies, or bus inconsistencies.

### AUTOMATE PREREQUISITES FOR MODEL BASED EXECUTION AND TESTING

Model execution allows validation of models early in the project. Power Pack for Harmony MBE automates creation of panel diagrams to support model execution, and it automates creation of Rhapsody TestConductor test architectures specifically for Harmony MBE models.

## PRODUCT FEATURES

### Automated Scenario Consistency Check
Power Pack for Harmony MBE includes a tool that checks the consistency between call operations, accept event actions, send actions in an activity diagram and the messages on related sequence diagrams. It detects a number of consistency errors, in activities or in sequence diagrams. These are flagged and displayed for the user to take action.

### Convert Between Actors and Blocks
With standard IBM Rhapsody, it is not possible to convert an actor into a block or vice versa. This helper allows an actor to be changed into a block including its Harmony MBE based references. Any existing block can be changed to an actor in the same way.

### Create a Test Architecture
Leveraging the IBM Rhapsody TestConductor add-on, this routine creates a test architecture for the currently selected block or layer. It verifies that all needed elements are available, parameters are set correctly and invokes TestConductor for creating the test architecture to validate the system under test.

### Automate the Generation of Interface Control Documents (ICD)
Using the IBM Engineering Lifecycle Management Publishing (PUB) tool, this helper automatically generates an ICD from the selected level of architecture. PUB is launched in the background, and the files returned are added as controlled files to the layer package.

## BENEFITS OF POWER PACK FOR HARMONY MBE

### Automatically Detect Inconsistencies
Thanks to automated checking for inconsistencies, errors in the model can be detected much faster and with lower risk of missing any issues. Minimize the risk of inconsistencies slipping through during manual examination of models, reduce project runtime and increase quality of results.

### Reduce Manual Workload
Leverage Power Pack for Harmony MBE to automate routine tasks, such as generation of panel diagrams, interface documentation, removing unused model elements, etc. Reduce the time spent going through manual workflows and dedicate more time to value adding engineering tasks.

### Increase Value of Using Harmony MBE
With its comprehensive guidelines and best practices, Harmony MBE is a great process to follow on engineering projects to achieve high-quality results. Power Pack for Harmony MBE introduces additional powerful automations that augment and supplement the automations provided by Harmony MBE, increasing the value of using it.

### About SodiusWillert
SodiusWillert helps organizations manage the challenges of developing complex products and systems by providing powerful add-ons for engineering lifecycle tools, advanced solutions for embedded systems, and expert advice for developing complex systems and software. We support organizations in Aerospace, Automotive, Transportation, Defense and Medical industries. For more information, visit sodiuswillert.com.