Model-Based Design
TeamWork leicht gemacht mit Simulink

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Motivation

**Individual user**

- One model per simulation/design task
- Working and model storage on desktop PC
- Model parameters/simulation data managed in MATLAB

**Team of users**

- Several models integrated for an application model
- Storage and versioning of models and data managed in source control system
Motivation

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**Team of users**

- Source control integration based on Simulink Projects
- Simulink Data management based on Simulink Data Dictionary
Source Control Integration

- Source control information
- Source control actions integrated into UI.
- Integrated with comparison tools
Managing complex projects

- Dependency Analysis
- Model difference/merge
Physical Layer Prior to R2014a

Executable Specification = Graphical Model + Data
Simulink Data Management in R2014a

Executable Specification = Algorithm + Data

- SLX File
- SLDD File

Simulink

Model 1
Model 2
Model 3

Global Data

Local Data in the Model

Global Design Data in a Data Dictionary

MATLAB Workspace
Model data management in team setup

Simulink Data Dictionary

- Categorization
- Partitioning
- Change detection
- Traceability
- Data persistence
- Conflict resolution
Simulink Data Dictionary
Simulink Data Dictionary
Model-Based Design
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Simulink Projects helps you to manage models and data by source control integration

New Simulink Data Dictionary helps you to manage model data in larger projects

Simulink Projects and Simulink Data Dictionary are part of standard Simulink