Model-Based Design
TeamWork leicht gemacht mit Simulink

Dr. Hans Martin Ritt
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

Model 1
Model 2
Model 3

MATLAB Workspace

Local Data in the Model

Global Data in the Base Workspace
Simulink Data Management in R2014a

Executable Specification = Algorithm + 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
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