

EXECUTIVE SUMMARY

Model editing

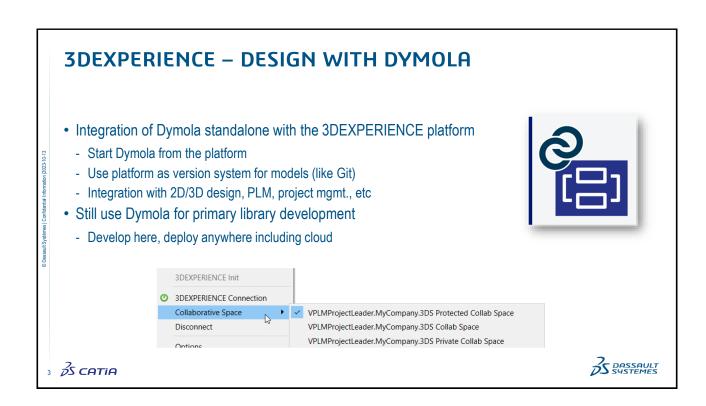
- 3DEXPERIENCE Design with Dymola
- Improved Git support (even more)
- Process Modeling Library

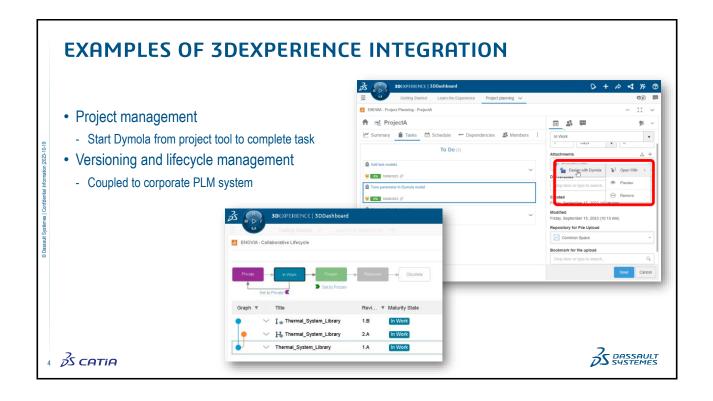
Simulation

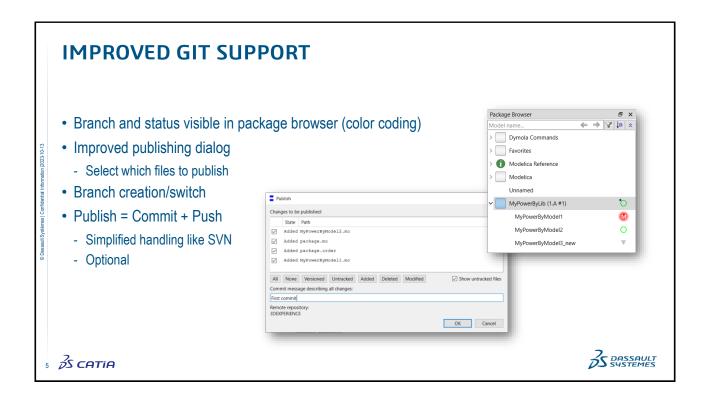
- Sparse solver for system of equations,
- Faster Jacobian approximation
- FMI 3: Event mode, intermediate input, variable step co-sim

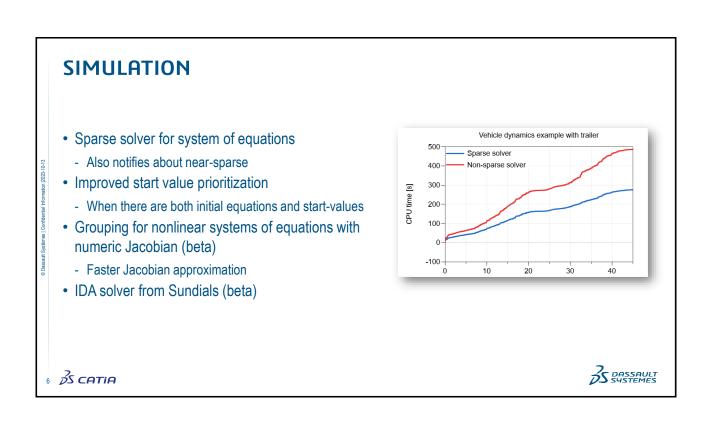
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DASSAULT SUSTEMES



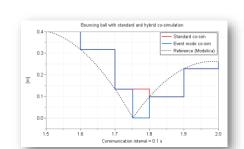






FMI 3 AND SSP

- FMI 3
 - Event mode: early return when an event occurs
 - Intermediate input and input interpolation
 - Variable step co-simulation (Beta-test)
 - o Control FMU step from the model
 - Terminals, icons, arrays
- SSP
 - Improved support, more closely follows the specification
 - Support for multiple sections of SRMD meta data (also in Modelica)
 - Support for Modelica models in SSP (2.0-alpha)

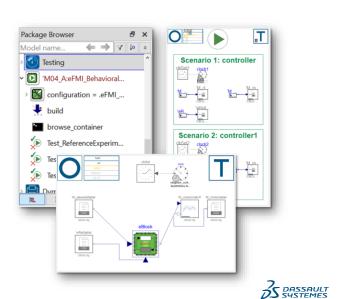


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EFMI

- eFMI behavioral models
 - Define test scenarios including floating-point tolerances
 - Run MIL and SIL tests, leveraging the Testing library
- Customized build environments
- · Error-safe default initialization



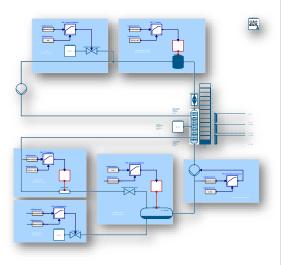
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PROCESS MODELING LIBRARY

- Models to simulate thermal separation processes based on multi-phase multi-component equilibria
 - Predict the behavior of separation units
 - Analyze heat and mass transfer processes
 - Optimize operating conditions to maximize efficiency and minimize energy consumption
 - Troubleshooting, improve product quality, reduce environmental impact
- Uses the Multiflash software for the calculation of physical properties
 - "Dymola Thermodynamics Connector" is a pre-requisite







OTHER

- Modelica language 3.6
 - Clarification of several issues
 - Figure annotations (links)
- Improved diagnostics
 - E.g. logging of external function calls during translation
- Environment
 - Windows 11
 - Clang compiler (Linux, WSL, VS)







