

PathWave Advanced
Design System

PathWave Advanced Design System 2022 Update 0.1 Release Notes

Notices

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ADS 2022 Update 0.1 Release Notes

ADS 2022 Update 0.1 (minor update release) is a cumulative minor update release installed on ADS 2022 (base release). You can upgrade your existing ADS installation (ADS 2022) to ADS 2022 Update 0.1 without uninstalling any previous minor updates (if available any).

Release: August 31, 2021

Version: 550.update0.1

The following table lists the application version information.

Executables	Linux	Windows
Design Environment	550.shp Jul 26 2021 (64-bit)	550.shp Jul 24 2021 (64-bit)
Data Display Server	550.shp Jul 26 2021 (64-bit)	550.shp Jul 26 2021 (64-bit)
hpeesofsess	550.shp Jul 26 2021 (64-bit)	550.shp Jul 24 2021 (64-bit)
Momentum MomEngine	2022.00.265 (*) built: Jul 2 2021	2022.00.265 (*) built: Jul 2 2021
FEM engine	410.100 2021-08-19	410.100 2021-08-19
hpeesofsim	550.update0.1 Aug 21 2021, MINT version 5	550.update0.1 Aug 21 2021, MINT version 5
	(64-bit linux built: Sat Aug 21, 2021 06:49:40 +0000)	(64-bit windows built: Fri Aug 20, 2021 18:45:04 +0000)

Platform OS Support

For platform OS support details, refer to [Windows and Linux 64-bit](#).

Enhancements

ADS 2022 Update 0.1 includes enhancements in Circuit Simulation and HSD.

Circuit Simulation

- Added support for doublequotes nested into singlequotes in hspice.

HSD

- Allow users to change the plot title in s-parameters window.
- Higher default value, 40GHz, for the phase interpolator's parasitic cutoff frequency with single ended PAM4.
- When you double-click the plot title in the S-Parameter toolkit, it allows you to edit the title. Also, you can reset to the default name using the "Set to Default" button.

Issues Fixed

ADS 2022 Update 0.1 addresses issues related to Circuit Simulation, HSD, Design Kits, EM Simulation, and SIPro/PIPro.

HSD

- Added translation of AMI parameter values True/False for the In and InOut AMI parameters of Redrivers.
- When risetime or falltime measurement calculation fails because of too small amplitude resolution, the simulator will error out faster.
- Support frequency units for Memory Interface AMI Model Builder custom CTLE options.
- Fixed the pass/fail result issue for COM 2.6 calculation in Windows.
- Fixed the reference impedance scaling when the S-Parameter matrix is specified by its upper or lower half.
- Improved single-ended PAM4 timing behavior.

Design Kits

- Updated the FET and FET_2 component help.
- DemoKit_mmWave: Fixed a Pcell bug in the "demo_mmWave_Cross" and "demo_mmWave_Tee" components, appearing when parameters W1 or W3 < 6um.

EM Simulation

- **RFPro**

- Fixed an issue where RFPro refused to reopen a design that contained natively placed 3D components and bondwires.
- Fixed an issue in RFPro-FEM Generation 2 causing the simulation to fail with the 'There is no mesh around line' error.

SIPro/PIPro

- **SIPro**
 - Issue addressed with failing SIPro simulations on clusters when number of parallel jobs is > 1 .
 - SIPro log reporting showing 0 unknowns for sub domain simulations fixed. Original issue did not affect the simulation results.
 - Issue blocking tuning of surface roughness in MLSUBSTRATE addressed.
 - Issue with simulations of setups using of Reference Pin on layers addressed.
 - Improved LF behavior for SIPro simulation for setups with address lines.
- **PIPro**
 - SIPro log reporting showing 0 unknowns for sub domain simulations fixed. Original issue did not affect the simulation results.

