

ANSYS Systems in 2019 R3

Systems:

ANSYS 2019 R3 updates make it quicker and easier for you to build, validate and deploy simulation-based digital twins for predictive maintenance in **ANSYS Twin Builder** to optimize your product's operation and extends its lifetime.

- Electrification-specific enhancements to Twin Builder enable you to better simulate battery management systems and deploy digital twins for other electrification applications.
- Additional advances in this release include Modelica enhancements, new reduced-order model (ROM) capabilities and an improved electronics control module (ECM) toolkit.

ANSYS medini analyze extends its functional safety analysis expertise beyond automotive and aerospace to industrial equipment requiring IEC 61508 standardization.

It includes –

- consistent safety integrity level (SIL) management covering process hazard analysis (PHA), systems requirements and system design.
- Failure modes, effects and diagnostic analysis (FMEDA) with safe failure fraction (SFF) and diagnostic coverage (DC) computations are also covered.

The release includes innovative sensor and sound simulations in **ANSYS VRXPERIENCE** as well as new capabilities in virtual reality (VR), providing a software-in-the-loop connector from the HMI.

- VRXPERIENCE now includes multi-bounce ray casting in the ideal ground-truth sensor; flashing and rotating models of physics-based lidar; and a dynamic live preview enabling geometry movement during SPEOS Live Preview.
- ANSYS SCADE Suite and SCADE Display integration makes it easy to interact with your embedded software in VR.