Release 2022 R1 Highlights
Ansys Minerva



Release Summary

- Data Management
- Process Management
- HPC Job Submission
- Dashboards and Reports
- Applications creation & deployment

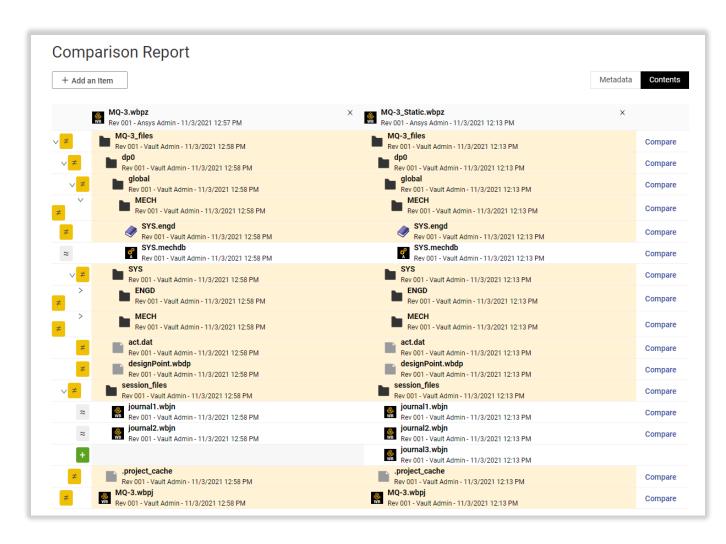


Data Management

Ansys Workbench Project Comparison

Gain insights and make better decisions with side-by-side comparison of Ansys Workbench projects

- Instantly assess differences in Ansys
 Workbench file and folder structures
- Compare changes made by team members to the content of the project files
- Includes the ability to compare metadata of the project files as well as the content of these projects

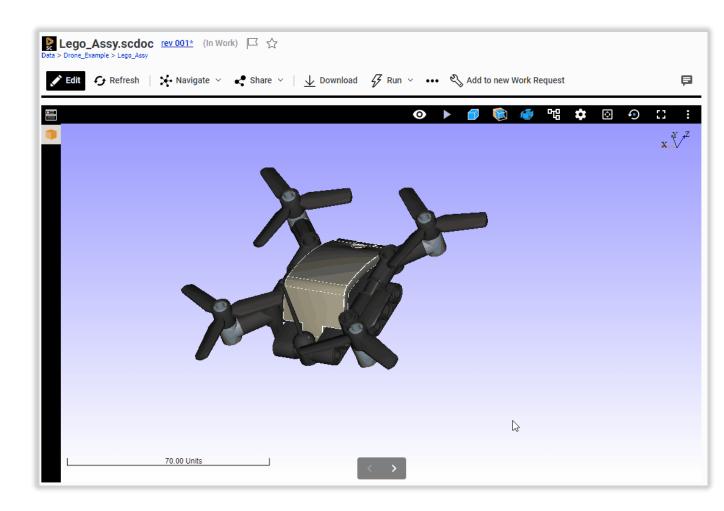




Exploration Options within 3D Viewer

Get a better understanding of your 3D models with options to explore and access to more information

- Users can create and modify cutting planes to view the model from various perspectives
- The explode feature lets users understand part assemblies better and how the model is setup
- Only expose relevant information with the ability to hide parts/bodies within the model

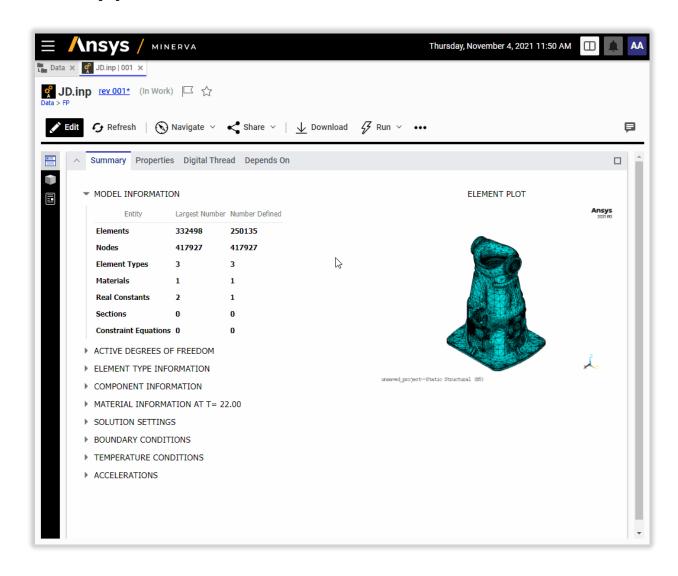




Metadata Extraction for More File Types

Gain deeper insights into the simulation analysis results with extended metadata extraction support to more file types

- Support for new file types: MAPDL input files, Fluent file types (.gz, .h5)
- Additional hooks to easily extend default Metadata extraction

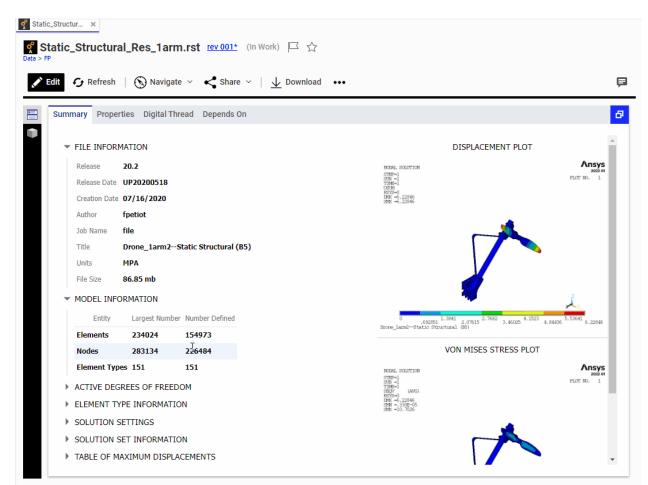




New File Details View

Streamlined and easier access to the context of your data with the redesigned file details view

- A new and simplified data tab (with a subset of Details, Metadata, and System Properties tabs) has been replaced with two tabs: Summary and Properties.
 - The Summary tab displays a simulation details report.
 - The Properties tab displays a file's system properties.
- Consistent UI in Edit and Non-Edit mode
- The UI is easily extensible via configuration



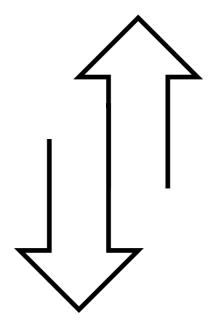




Data Management Performance Enhancements

Enhanced efficiency in interacting with Ansys Minerva

- Removal of browser freezes during large uploads
- Faster uploads for large data sets
- Faster Metadata Extraction (up to 10x)
- Optimization of file management during Metadata Extraction



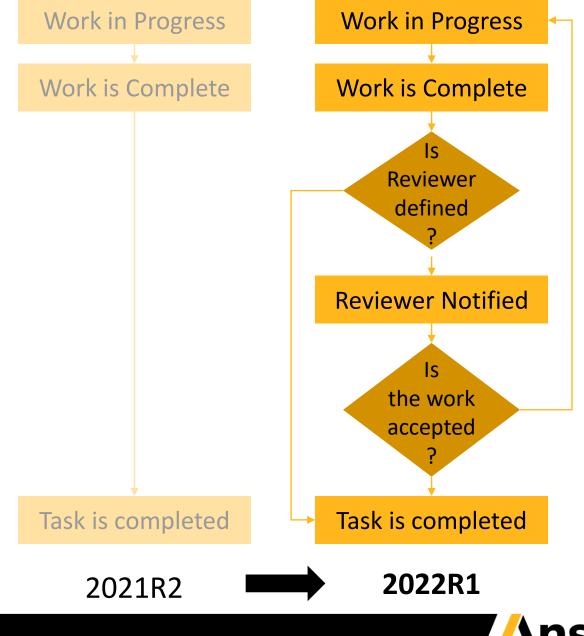


Process Management

Simulation Task Review

Orchestrate your review process by incorporating a reviewer within the task process

- Reviewers can be added to review the tasks to enable downstream decisionmaking
- Reviewers are notified by emails
- Reviewers can Accept or Reject the Task



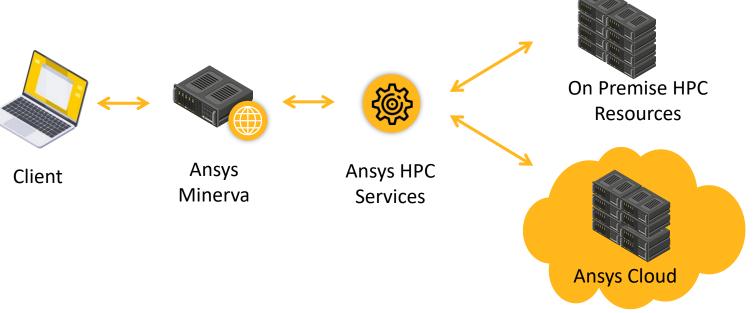


HPC Job Submission

Job Submission to Ansys Cloud

Streamline your HPC job submissions directly from Ansys Minerva to Ansys Cloud and leverage Ansys Cloud's infinite HPC resources

- Manage the data generated by HPC job submissions to Cloud within Ansys Minerva
- Monitor your Ansys Cloud job submission status
- Consistent user experience irrespective of whether the user submits jobs to On-Prem HPC resources or to Ansys Cloud





VDI: Windows Remote Desktop

Solve network issues by using Remote VDI to interact with Ansys Minerva

- Start remote visualization sessions managed by Ansys Minerva
- Ansys Minerva controls the Data Flow in and out, as for other Applications
- Starts Windows Remote Desktop sessions



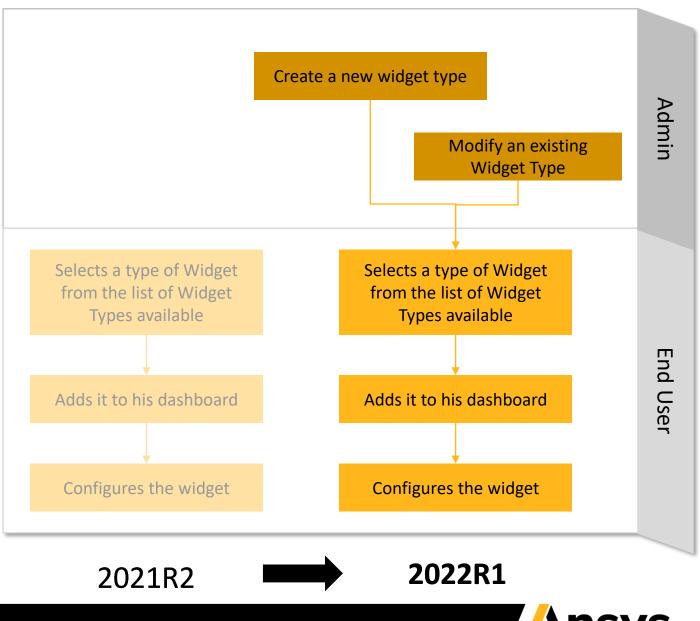


Dashboard and Reports

Custom Widget Framework

Create customized widget types to expose relevant and more valuable information in the dashboards

- Admins can create new widget types and make them available downstream to all team members
- Enrich the existing list of widget types available by creating and sharing new types of widget
- Extend the existing widget types





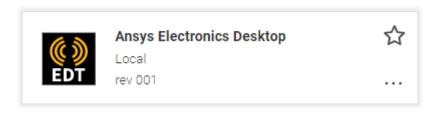
Applications creation & deployment



New Local Applications

Access locally available Ansys tools from Applications

- Local App for Ansys EDT
 - Uses .aedtz or .aedt projects
- Local App for optiSLang Post-Pro
 - Uses .omdb result files



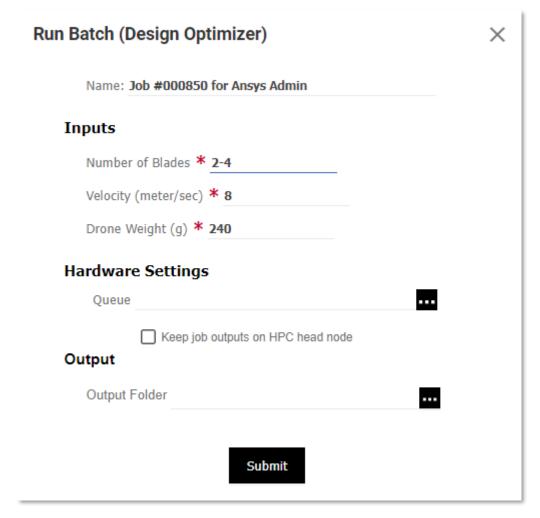




Run Apps without Input Files

More possibilities to use your Apps with reduced dependency on input files.

- Applications don't necessarily require input files to be run
- Now, input files are not mandatory anymore to start your applications
- Works for local and batch Applications



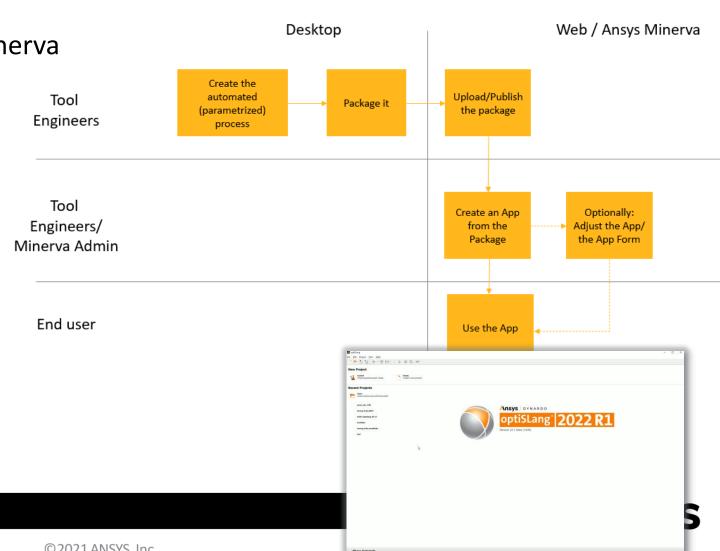
Example of an application with no input files



Publish and Deploy Apps

Save engineering time by converting simulation automations into apps and deploying them directly from Ansys Minerva

- Tool engineers can package their simulation automations and upload to Ansys Minerva
- Admins can then convert these packed automations into apps and manage them directly within Ansys Minerva.
- The apps can be modified if needed and deploy them to the entire enterprise including simulation non-experts
- Ansys optiSLang is supported out-of-the-box and others can be supported through configurations.
- Track the data flow in and out



Additional enhancements around Applications

Better Applications usability and Management

- New "Save a Copy" button to ease the creation of a new app from an existing App
- Versioning is now activated on Applications
- Clearer naming for the local working directory

