

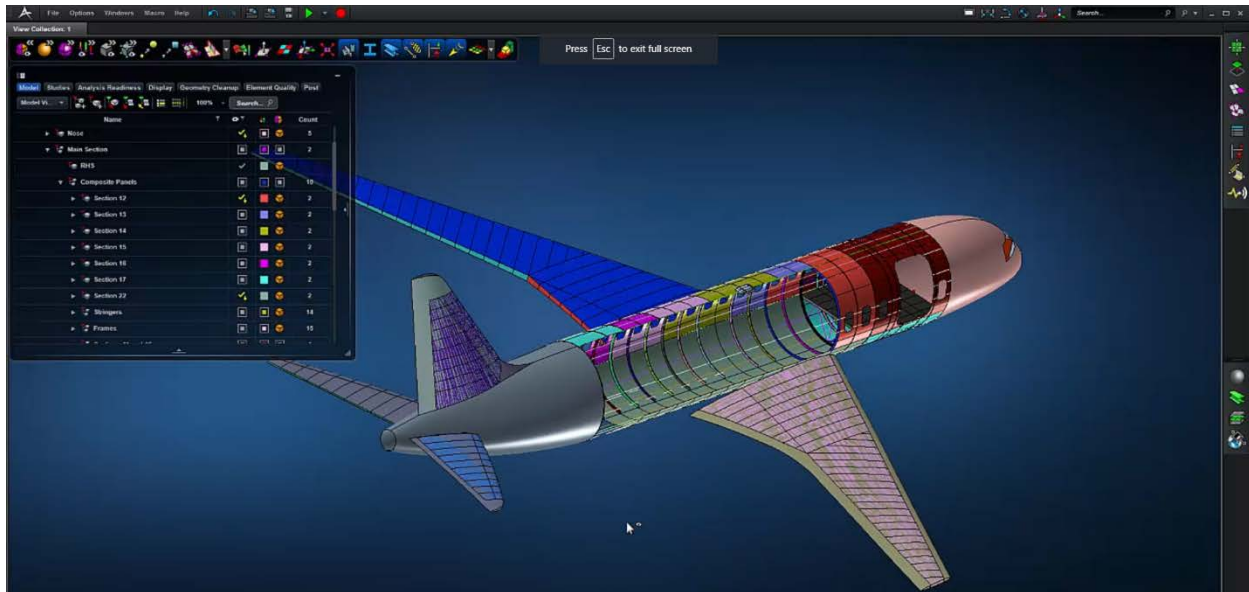
Introducing MSC Apex Harris Hawk – Accelerate Structural Analysis for Aerospace Composites

NEWPORT BEACH, CA--(– February 26th, 2018) – [MSC Software Corporation](#) today announced the eighth release of [MSC Apex](#), the company's [award winning](#) next-generation Computer Aided Engineering (CAE) platform.

Aerospace vehicles are some of the most complex structures to design due to the level of physics and mathematics that needs to be involved. CAE has been a key driver for reducing cost and accelerating innovation, but current processes still suffer workflow inefficiencies and results often come too late in the design cycle - especially when designing composite structures.

MSC Apex's latest release, Harris Hawk, delivers a unique composite modeling and simulation experience that closely mimics the steps of the manufacturing process. Instead of using finite element abstractions, MSC Apex allows engineers to manipulate physical representation such as fabric, layups, plies, panels, and zones. Within a few hours, MSC Apex users can become efficient with composite modelling and on-the-fly failure calculation.

"MSC Apex gives EcoFlight the tools it needs to fulfill many of our aerospace and motorsport engineering analysis requirements," said John Wighton, Director at EcoFlight. "The composite functionality in Apex Harris Hawk embeds methodology and capability, which greatly improved process efficiency. We couple the advanced composites capabilities of MSC Apex with MSC Nastran to give consulting clients a flexible and fast capability at a cost-effective price," said Wighton.



MSC Apex model of a composite layup - airplane structure

Modeling productivity – This release introduces a new geometry tool for surface extensions to eliminate manual rework and to allow engineers to automate model preparation tasks. Generative tie connections for assembly creation now takes minutes instead of hours. Users can now create large assemblies of parts using mesh dependent connections while preserving the product structure. MSC Apex Harris Hawk also features a high performing hex-meshing tool to help users mesh complex solid geometries.

Complete structural analysis – MSC Apex Harris Hawk expands its structural analysis capabilities with support for multi-events static analysis. Users can now manage multiple load cases. It also features the ability to define pre-stiffening in the linear buckling scenario. The brand new model browser-picking tool better supports result processing for model introspection.

Open and complementary - Beyond modeling productivity and structural analysis completeness, MSC Apex Harris Hawk continues to build on an open and interoperable framework with a full set of Python Scripting APIs for conceptual modeling iterations and interoperability for MSC Nastran-Patran with exporting of scenarios.

About MSC Software

MSC Software is one of the ten original software companies and a global leader in helping product manufacturers to advance their engineering methods with simulation software and services. As a trusted partner, [MSC Software](https://www.msc-software.com) helps companies improve quality, save time, and reduce costs associated with

design and test of manufactured products. Academic institutions, researchers, and students employ MSC's technology to expand individual knowledge as well as expand the horizon of simulation. MSC Software employs 1,300 professionals in 20 countries. For more information about MSC Software's products and services, please visit: www.mscsoftware.com

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