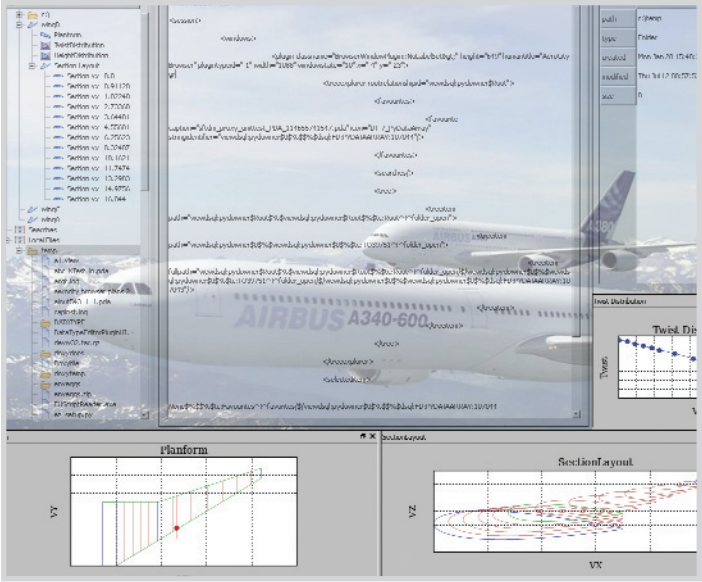
CASE STUDY

Industry: Aerospace & Defense
Products: PHX ModelCenter & PHX CenterLink

AIRBUS UNITED KINGDOM

PHX CenterLink® Fills Critical Role in Advanced Airbus Aerodynamic Framework



COMPANY: Airbus

From its inception in 1970 as a European consortium, Airbus has grown into a global company, offering 14 types of aircraft. With its head office in Toulouse, France, Airbus operates from more than 160 international locations. The company has sold more than 5,500 aircraft to over 200 customers, maintains relationships with over 1,500 suppliers in 30 countries, and employs more than 55,000 people in more than 80 countries. Airbus is owned by the European Aeronautic Defence and Space Company (EADS).

PROGRAM: Airbus Aerodynamic Framework: AeroCity

The Airbus aerodynamics domain designs the external shapes of aircraft and qualifies the behaviors of shapes in terms of performance and loads. Increasing dependencies on computational fluid dynamics and numerical simulation for quantitative predictions of aircraft performance exceeded capabilities of existing engineering frameworks and data management systems. The amount of data for a single design campaign involved an order of magnitude of one terabyte. AeroCity is Airbus' dedicated solution integrating state-of the-art commercial components to deliver an efficient industrial aerodynamics domain capability.

> "The automated capability to directly use any integrated service in ModelCenter [and CenterLink], as part of a more complex process or to just analyze designs, reduces the methods and tools effort to provide users with a ready to deliver solution"
>
> — THIERRY CHEVALIER
> Head of Airbus Aerodynamics Methods & Tools

PHX CENTERLINK ADVANTAGES: Complete Engineering Analysis Toolkit to Manage Complex Design Processes

Airbus selected PHX ModelCenter® with Analysis Server to build design models and PHX CenterLink® as AeroCity's "Process Management" component to graphically chain processes and run models through design trade studies. CenterLink executes models with Fujitsu SynfiniWay grid computing software providing load balancing and end-user access to AeroCity's network resources. As the solution's engineering analysis toolkit, the Phoenix Integration software enables integrating distributed analysis codes to create process models, identify most important variables, understand variable trends and relationships, visually and interactively perform design trade studies, and automatically search for optimal designs.

"Classical benchmarking led us to select [PHX ModelCenter and PHX CenterLink], which cover all the requirements for [our process management] component [in AeroCity]," says Thierry Chevalier, Head of Airbus Aerodynamics Methods & Tools. "The automated capability to directly use any integrated service in ModelCenter [and CenterLink], as part of a more complex process or to just analyze designs, reduces the methods and tools effort to provide users with a ready to deliver solution." ModelCenter and CenterLink were already engineer-oriented and easy to use, making them the best choices for inclusion within the AeroCity framework.

About Phoenix Integration

Phoenix Integration commands a leadership position in flexible, scalable, high-performance enterprise solutions for engineering process integration and design optimization. Phoenix software is used worldwide for modeling and simulation during engineering design phases by global organizations in the aerospace and defense industries, and commercial enterprises, including nine of the top 10 U.S. defense contractors and seven of the top 10 aerospace companies. Headquartered in Philadelphia, Phoenix Integration conducts R&D and customer support operations from facilities in Blacksburg, Virginia.

Toll-free: 800.500.1936 Website: www.phoenix-int.com

PHOENIX® INTEGRATION