



## Aerospace Capabilities

On actuator level DSHplus can set-up models for:

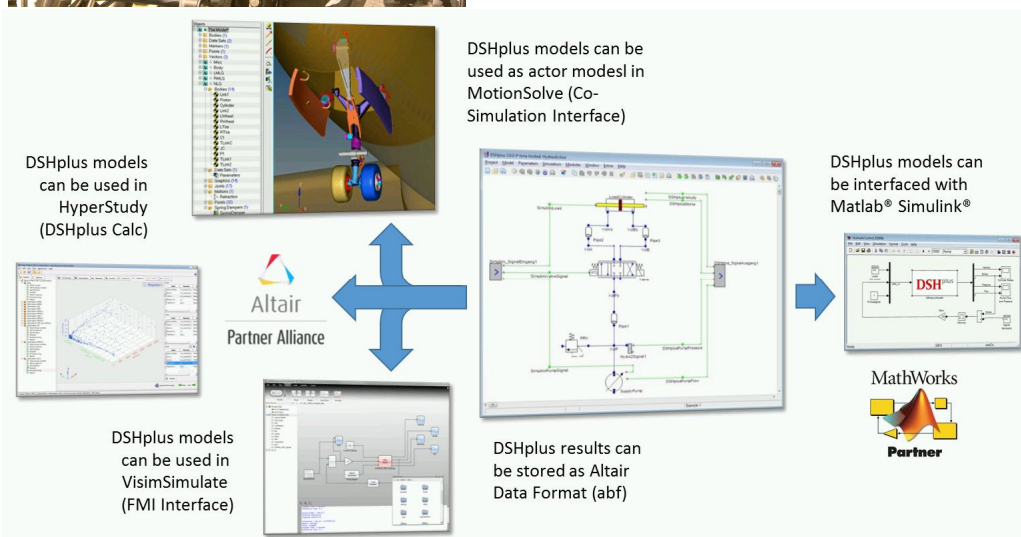
- Primary flight control surfaces (rudder, elevator, aileron, active (multi-function) spoiler ...)
- Secondary flight controls (high lift (flap / slat), horizontal stabilizer, spoiler, thrust reverser)
- Landing gear systems (extension and retraction, locking, braking, steering, shock absorber ...)
- Cargo doors
- Thrust reversers, etc.

On system level DSHplus completes the simulation model with pumps, all sorts of valves, reservoirs, accumulators, and the hydraulic pipe network. Thus it is possible to analyze and optimize power consumption and power distribution of the system.

A critical part of the system's design is the architecture of the hydraulic pipe network. In this context DSHplus hydraulic pipe models support the investigation of water hammer effects (such as caused by too rapidly closing valves) and the analysis of pipe network resonance (such as induced by the pump's flow fluctuations).

## Available Interfaces

As a part of Altair's HyperWorks Partner Alliance, DSHplus offers multiple options to exchange data and to interface with programs out of the HyperWorks suite.



FLUIDON is a member of Matlab® Third Party Program and DSHplus models can be interfaced with Matlab® Simulink®.

More information on DSHplus at: [www.fluidon.com](http://www.fluidon.com)