

Airbus Defence and Space

Reliable, transparent testing processes powered by Application Lifecycle Management (ALM) solutions



Who Is Airbus Defence and Space?

As a proven leader in the global aerospace sector, Airbus designs, produces and delivers innovative solutions with the aim to create a better-connected, safer and more prosperous world. A commercial aircraft manufacturer, with Space and Defence as well as Helicopters Divisions, Airbus is the largest aeronautics and space company in Europe and a world-wide leader.

Spearheading Aerospace Innovation

Military aircraft are powered by cutting-edge digital technologies, so building world-class aircraft demands both precision engineering and expert software development. To ensure that aircraft always perform effectively in operations, it's crucial that every aspect of their

"We're impressed with the versatility of Micro Focus (now part of OpenText™) ALM Octane. It can support a wide range of testing without having to make extensive customizations."

FRANK WESTERBUHR

Senior Expert 'Complex Avionic Systems Integration'
Airbus Defence and Space

design is thoroughly tested to meet stringent regulatory and operational requirements.

Frank Westerbuhr, Senior Expert 'Complex Avionic Systems Integration' at Airbus Defence and Space outlines the challenge: "Our flagship Eurofighter can travel at over 2,000 kilometers per hour. To keep pilots and military personnel safe and ensure operational effectiveness, it's critical that all aspects of an aircraft are tested in a wide range of scenarios—and that includes both the physical apparatus and every line of real-time computing code under the hood of our fighter jets, weapons systems and unmanned systems."

Since Eurofighter will operate well into the 2060s, adapting the aircraft and computer systems to integrate new technologies as they emerge is vital for ensuring the long-term effectiveness of the aircraft. This also implies the need for stable, reliable system and software testing products with strong long-term vendor support and development.

Westerbuhr continues: "For the aircraft we are responsible for, such as the Eurofighter and Tornado, we have a fleet of test aircraft that we use to ensure that new customizations and developments work safely and effectively. It's very important that the systems and software underpinning these aircraft are tested extensively,

AIRBUS

At a Glance

- **Industry**
Aerospace and Defense
- **Location**
Germany
- **Challenge**
Airbus Defence and Space continuously needs to ensure long-term quality and security standards for military hardware and software
- **Products and Services**
ALM Octane
ALM/Quality Center
- **Success Highlights**
 - + Delivers end-to-end visibility of each unique testing workflow
 - + Paves the way for fully digitized testing workflows with ALM Octane
 - + Instills confidence in regulators and project stakeholders
 - + Helps to deliver on quality, time and cost

“Using Micro Focus (now part of OpenText™) tools helps us to keep testing workloads on track.”

FRANK WESTERBUHR

Senior Expert 'Complex Avionic Systems Integration'
Airbus Defence and Space

Connect with Us

[OpenText CEO Mark Barrenechea's blog](#)



He adds: “The Eurofighter is fitted with computer systems and many of our other aircraft and hardware also rely on software, so testing is required.”

To keep aircraft development running smoothly, system engineers and software developers create daily reports on progress, and provide feedback to management and stakeholders on a weekly or monthly basis to explain the latest advances in granular detail.

Taking Testing to New Heights

Airbus Defence and Space decided to support quality management processes with OpenText™ ALM/Quality Center, and later selected OpenText™ ALM Octane.

Westerbuhr comments: “As well as robust security features to protect sensitive defense data, it was crucial that any application management and quality control tools we implemented could deliver excellent visibility and the flexibility to support each workflow required for each of our varied engineering initiatives. Micro Focus (now part of OpenText™) ALM/Quality Center and ALM Octane were able to deliver on all these requirements, while also offering powerful test automation capabilities. ALM Octane will give us new capabilities and agility.”

“We’re impressed with the versatility of Micro Focus (now part of OpenText™) ALM Octane,” continues Westerbuhr. “It can support a wide range of testing without having to make extensive customizations.”

Engineering teams, consisting of system, software, test, qualification and certification engineers, can all work together within ALM/Quality Center and ALM Octane, delivering their part of the total solution. The comprehensive visibility makes it easy to identify critical testing areas so that efforts and resources can focus on the high-value items. Besides that, national data security rules are supported by the possibility to mark each data entity according to its security classification and by hiding dedicated data entities to selected user.

Ensuring Excellent Quality Every Step of the Way

“Using Micro Focus (now part of OpenText™) tools helps us to keep testing workloads on track,” says Westerbuhr. “The Micro Focus (now part of OpenText™) solutions give us granular insight into all testing initiatives and make it easy for us to export and visualize data in intuitive charts and graphs, which helps when we need to generate documents, e.g., for official review by our Chief Engineering.”

Learn more at
www.microfocus.com/opentext