

BAE Systems Workstation Deployment 30x Faster with **Acronis** Backup Advanced

Streamlined Deployment Cuts Installation
Time by Weeks for Global Defense,
Security, and Aerospace Company

SETTING THE SCENE

BAE Systems is the premier global defense, security, and aerospace company, delivering a full range of products and services for air, land, and naval forces, as well as advanced electronics, security, information technology solutions, and customer support services. With approximately 105,000 employees worldwide, BAE Systems' sales exceeded £18.5 billion (US \$34.4 billion) in 2008. The company has major operations across five continents, with a particularly strong presence in Australia, Saudi Arabia, South Africa, Sweden, UK, and the US. It has customers in over 100 countries and is credited with more than 100 new inventions each year. BAE's Engineering Support System (ESS) product is used by the customer to manage and record the maintenance of the Eurofighter Typhoon fleet. The Eurofighter is an extremely agile fighter designed to dominate the skies in the 21st century. It is a single seat, twin-engine fighter with optimal performance in close combat and significant ground attack capabilities.

NEED FOR SPEED AND ACCURACY

The servers and workstations supported by the GIST IT team (GSS Installation Support and Training) play a key role in monitoring and recording all the in-flight data gathered from the Eurofighters. Quite simply, if the information on the systems is not available then the aircraft won't fly. The department has over 1,000 dedicated workstations

ORGANIZATION

BAE Systems

SECTOR

Defense

KEY CHALLENGES

- Source a fast, reliable, and secure way of deploying hundreds of workstations in one session
- Reduce workstation rebuild times in the event of a disaster

ENVIRONMENT

1,000 Workstations running on Windows®

SOLUTION

1,000 licenses to Acronis Backup Advanced for PC*

BUSINESS BENEFITS

Benefits realized across 11 bases in Europe, with plans to expand to a further nine

- Software meets BAE's strict data security guidelines to support the department which oversees the Eurofighter Typhoon
- Average time for hundreds of workstations to be installed cut from over a month to just two days
- Deployment speed 30 times quicker than a manual build

distributed across different bases internationally. The workstations have to have exactly the same systems settings and were initially built and deployed manually, with team members following a 300-page build document that explained every step of the process with military precision – making it an extremely demanding and time-consuming task. Lee Carden, Hardware Technical Authority for ESS, explains: “We have to be 100 percent accurate with each build or we run the risk of creating workstations that can’t store and process data correctly. In some instances we need to build up to 200 workstations in a single location.”

BACKING UP 100 VIRTUAL SERVERS AND MORE THAN 300 VIRTUALIZED WORKSTATIONS

The organization had been relying on the VMware solution to provide basic backup capability, without any additional disaster recovery or data protection features. Complexities were starting to arise from these multi-task functionalities that were not dedicated to the protection of data. Facing time and cost constraints, Chemouni needed an easy to use, software solution to back up all the virtual machines, including servers and workstations, and one that didn’t require any in-depth IT training. The company required a software solution capable of securing the digital assets of the company, with the ability to back up on a regular basis and quickly restore damaged or lost machines.

ACRONIS DELIVERS ON-TARGET DEPLOYMENT

Carden recognized that imaging technology was the best alternative to the manual build process because it captures a PC’s operating system, applications, and files. Initially he tried using Symantec’s imaging software but it was unreliable

and often filled valuable disk space with unrequested drivers and applications that slowed down the workstations. Carden looked to an alternative imaging provider, Acronis. After a thorough trial of the product, Carden was so impressed with the way in which Acronis’ software worked that he purchased 1,000 licenses of Acronis Backup Advanced for PC*. The software allows Carden and his team to create a single master workstation image. This image comprises every aspect of the operating system, settings, and applications and can be easily uploaded onto each machine. Unlike competing solutions, Acronis provides BAE with the option to upload the image template across a network, from a master CD or DVD. “Although Acronis offers an effective network-based deployment option, we chose a CD-based method. That’s because many of the applications and related data are extremely sensitive, and we don’t want to run the risk – however small – that they might be detected by unauthorized personnel during a network-based download. Everything is carried out locally to protect our data,” notes Carden.

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300 PAGE INSTALLATION MANUAL TO TWO SIDES OF A4 INSTRUCTIONS

Acronis enables Carden and his team to deploy a workstation over 30 times faster than was possible with a manual build – slashing build time from over six hours to under ten minutes. This means that an entire base, which has around 200 workstations, can now have the image put on them in less than two days. This saves an incredible amount of time, plus resources in terms of man hours. “It would take over a month to fully deploy an average base before we invested in Acronis’ software. The team love it because instead of having to adhere to a 300 page manual, they can deploy each workstation using

instructions printed on just two sides of A4,” says Carden. Acronis also plays a role in providing BAE with business continuity and recovery capabilities. If a workstation fails for any reason, Acronis’ software is used to deploy the same image straight onto new hardware – keeping downtime and disruption to a minimum. This can be run at a local level from a boot CD or USB flash drive. Acronis is also used during the initial deployment process to protect against any errors or system crashes. If any problems occur during the deployment, Carden and his team simply roll the image back to a point before the error occurred and pick up the deployment from that point – which keeps installation times to an absolute minimum. Carden concludes: “We now use Acronis on approximately 1,000 workstations in 11 bases across Europe, and plan to expand our usage across a further nine bases in the near future. In our business, it’s crucial that the solutions are reliable, secure, and robust. Acronis offers the most efficient, straight-forward, and reliable way to carry out mass workstation deployment – there’s nothing else on the market with same ease-of-use and dependability.”

ABOUT BAE

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products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions, and customer support services. With approximately 105,000 employees worldwide, BAE Systems’ sales exceeded £18.5 billion (US \$34.4 billion) in 2008. The company has major operations across five continents, with a particularly strong presence in Australia, Saudi Arabia, South Africa, Sweden, UK, and the US. It has customers in over 100 countries and is credited with more than 100 new inventions each year.

ABOUT ACRONIS

Acronis sets the standard for [cyber protection](#) and [hybrid cloud storage](#) through its innovative [backup](#), [anti-ransomware](#), [disaster recovery](#), [storage](#), and [enterprise file sync and share solutions](#). Enhanced by [AI-based Active Protection technology](#), [blockchain-based authentication](#) and a unique [hybrid-cloud architecture](#), Acronis protects all data in any environment, including physical, virtual, cloud, mobile workloads and applications.

[Founded in Singapore in 2003](#), today the company is trusted by more than 5 million consumers and 500,000 businesses worldwide, including [79 of the top 100 most valuable brands](#).