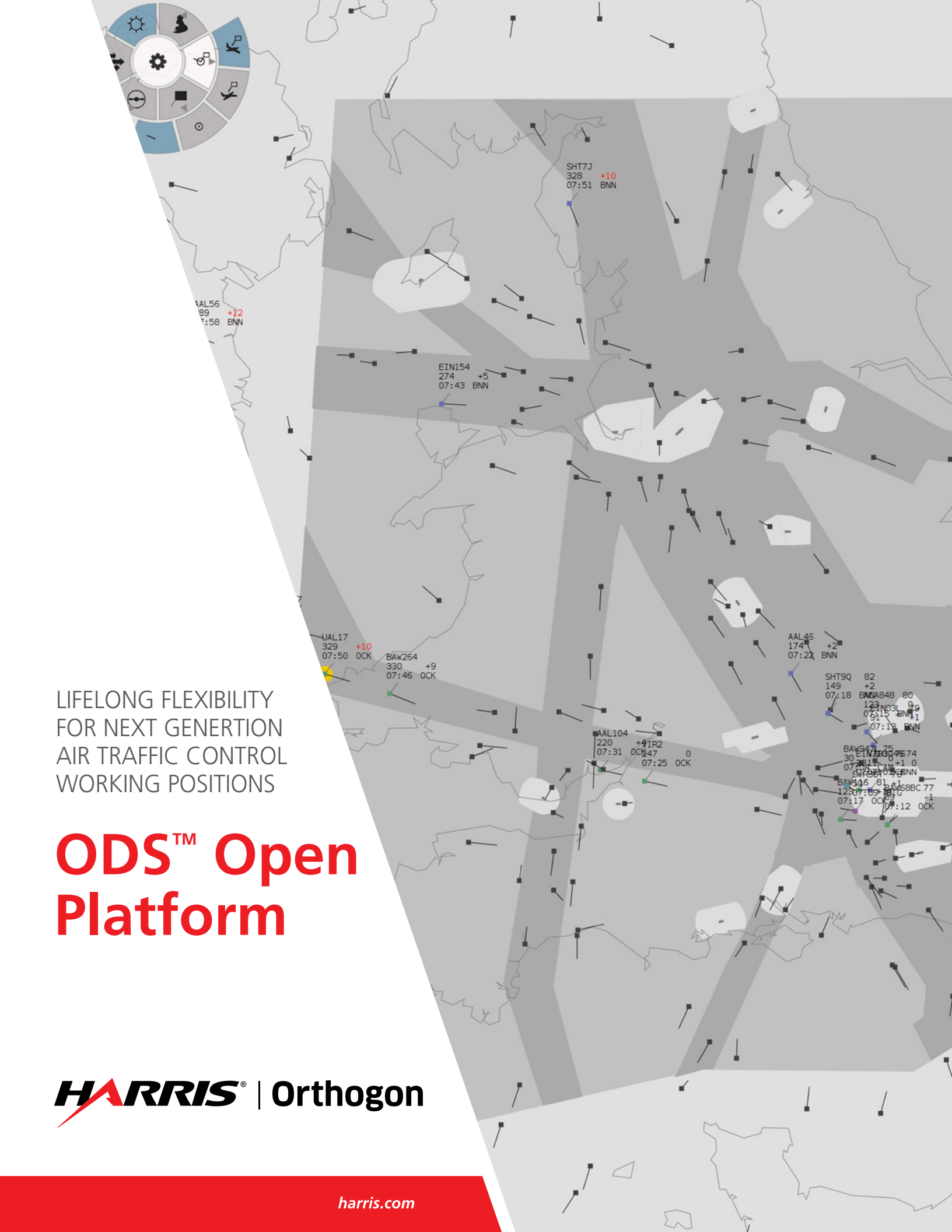




LIFELONG FLEXIBILITY
FOR NEXT GENERATION
AIR TRAFFIC CONTROL
WORKING POSITIONS

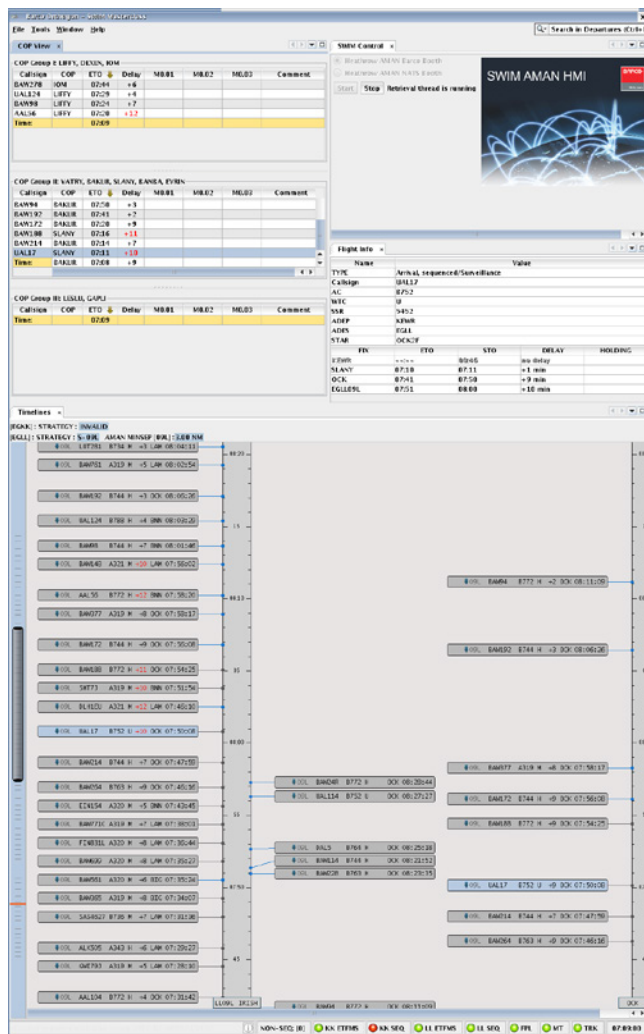
ODS™ Open Platform

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ODS™ Open Platform for Mission Critical HMI Development

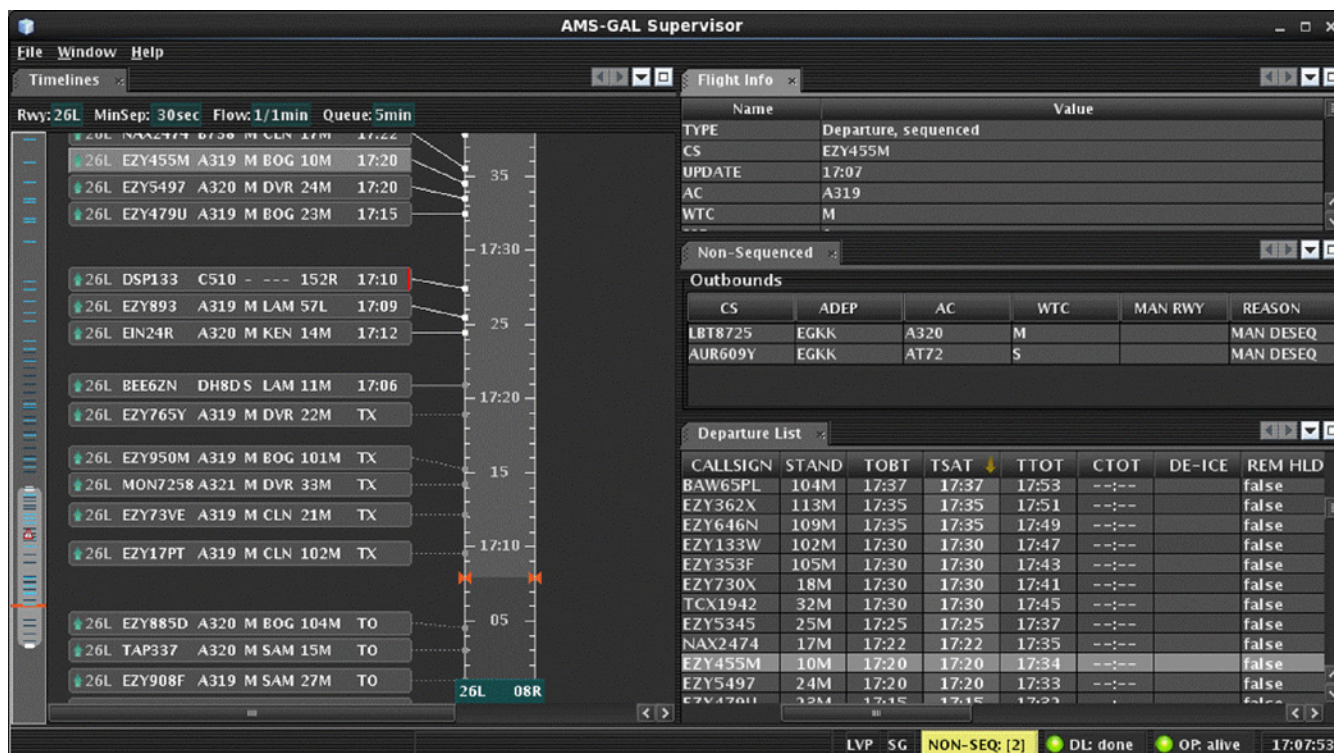
Every future air traffic Controller Working Position (CWP) must cope with a new multitude of factors such as operational concepts, applications, algorithms, and organizational and safety requirements creating an ever-changing system environment. The ODS™ Open Platform is an environment for the development of Human Machine Interfaces (HMIs) for mission critical applications. It is particularly well suited for future CWP developed for virtual center environments.



HMI Development

The ODS™ Open Platform, which is used to develop modern graphical user interfaces for air traffic CWP's, offers customers maximum flexibility throughout the entire software development lifecycle.

- **Open Software Architecture:** user interface and system interfaces can evolve independently of each other
- **Open Application Interfaces:** plug-in technology and open programming interfaces ensure interoperability
- **Enterprise Module Repository:** enable sharing of plug-in modules between different applications and across an enterprise development team
- **Operating System Independent:** platform-independent due to Java implementation
- **High Performance Application Environment:** optimizes use of multi-core CPUs
- **Reduced Cost of Ownership:** ready-to-use modules, automated functions, open interfaces, and automated regression testing results in lower lifecycle costs
- **Air Traffic-specific data model** with "live" inspection possibility



Customer References: Operational Air Traffic Control Applications

Since 2013, ODS™ Open Platform has been used to develop and deploy air traffic CWP's running the safety critical queue management and demand-performance prediction applications:

- **United Kingdom:** The OSYRIS Departure Management (DMAN) assistance tool at Gatwick Airport has been in operation since June 2014.
- **Turkey:** The OSYRIS Arrival Manager (AMAN) and DMAN assistance tools for the Turkish Air Navigation Service Provider, DHMI, at Istanbul Ataturk International Airport.
- **China:** The AMAN manages traffic arriving in the Xi'an Terminal Movement Area.
- **China:** The AMAN tools for the Chinese Air Navigation Service Providers, ATMB North-East and ATMB Xinjiang, at Shenyang and Urumqi.
- **Vietnam:** The AMAN and DMAN tools for the Vietnamese Air Navigation Service Provider, VATM, for the airports at Noi Bai and Cat Bi.

ODS™ OPEN PLATFORM BENEFITS

- **Quality and Safety Critical Applications:** supports quality and safety regime from prototyping to operation.
- **Development Flexibility:** the platform architecture ensures lifelong flexibility for constantly changing environments all the time.
- **Automatic regressions tests:** reduces time and cost of manual tests.
- **Parallel Development Workflows:** allows collaboration across software development team to create and maintain consistent, appealing user interfaces.
- **No "throw-away prototyping":** functions and interfaces to evolve simultaneously at their individual speeds.
- **Combines high performance with platform independency** thanks to pure Java.
- **Virtual Center** applications benefit from **Rich Client software** technology.

BEST-IN-CLASS SWIM MASTER CLASS AWARD WINNER IN 2013

In November 2013 the SESAR Joint Undertaking awarded Harris Orthogon the Best-in-Class SWIM Master Class award in the "applications" category. The Harris application displayed real-time arrival sequences calculated by the OSYRIS Arrival Manager at London Heathrow using the System-Wide Information Management (SWIM) platform.

Harris is dedicated to developing best-in-class
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and services



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