

PRODUCTIVITY AND
PERFORMANCE
FOR HUMAN
MACHINE INTERFACE
DEVELOPMENT

ODS Toolbox™

HARRIS® | Orthogon

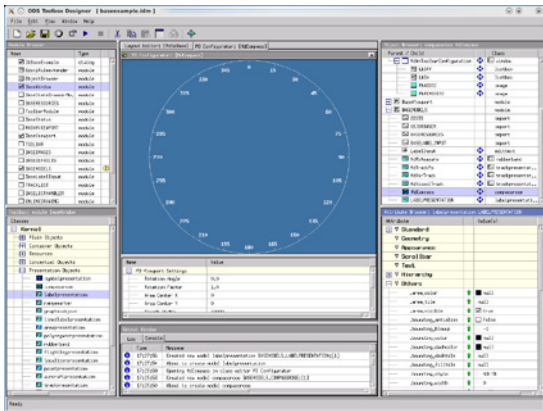
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ODS Toolbox™ Characteristics

ODS Toolbox™ is a development environment for high performance operational display systems required in mission-critical domains such as Air Traffic Control and Air Defense. It is ideal for the development of systems that requires a display visualizing large amounts of dynamic objects in an environment requiring high human-machine interactivity.

ODS Toolbox™ supports the complete software development lifecycle from design, prototyping, development and testing through operational deployment, usage and maintenance.

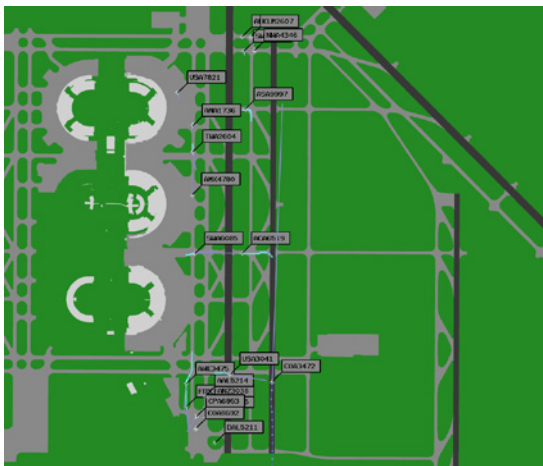
Key Components of ODS Toolbox™



ATC VISUALIZATION

The ODS Toolbox™ is equipped with a complete set of interactive graphics components covering all needs of air traffic control applications.

The high performance drawing engine manages object layering, fast rendering and automates fine grained interaction with the graphics components.

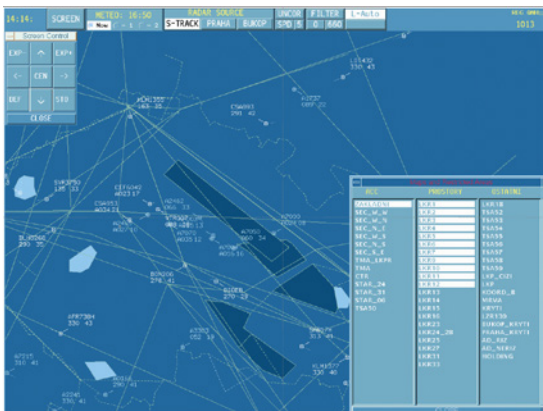


RUNTIME KERNEL

The ODS Toolbox™ provides best-performance runtime libraries for interactive graphics, communication and application data flow.

Communication converters for ASTERIX and ASN.1 exist and can be extended by custom protocol converters.

The ODS Toolbox™ dialog language allows implementation of application logic extremely fast. The language is powerful and compact, yet easy to learn. No compilation is required, which allows for fast turnaround times during development.



DEVELOPMENT

The ODS Toolbox™ is delivered with a complete set of manuals and reference documentation in HTML and PDF.

The ODS Toolbox™ Designer enables intuitive GUI design. Its browsers, resource and layout editors support an easy, interactive composition of applications.

ODS Toolbox™ Features & Benefits

- > **Full system life cycle support:** From design, prototyping, development and testing to operational usage and maintenance.
- > **Productivity without boundaries:** Pre-designed components and modules for exceptional development productivity.
- > **Risk minimization:** Over 20 years of usage by customers in globally deployed and operational ATC systems.
- > **Exceptional performance:** Displaying of interactive, highly dynamic objects with maximal performance.
- > **A secure investment:** Portability across all major operating systems and graphics platforms and availability of long term support.
- > **Training and support:** Specialized training, consultancy and support teams always available.

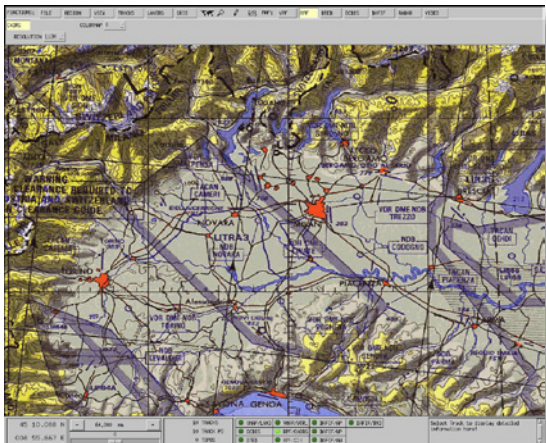


SPECIALIZED SERVICES

The color server and color service allow for flexible allocation, adaptation and sharing of color resources including blinking, brightness control and transparency.

The multi-display feature places windows on different displays across the network and drives several screens with one mouse and keyboard.

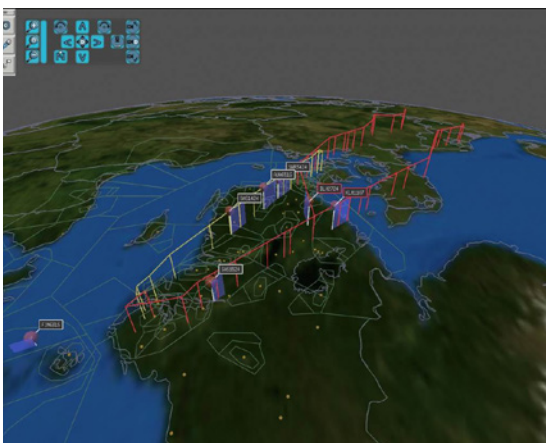
The ODS window manager features extended functionality such as window priorities, protected screen areas and alert functions.



GEOGRAPHY AND MAPPING

The ODS Toolbox™ features a complete infrastructure to handle geographical data. A set of geographical presentation objects is accompanied by more than 120 projection variants.

Map importers support loading geographical map data from various formats.



ADVANCED VISUALIZATION

The OpenGL backend of the ODS Toolbox™ drawing engine enables advanced visualization options. All presentation objects can use anti-aliasing and transparency.

Data can be shown in 3D and streaming CCTV and radar video can be visualized.

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Harris Orthogon GmbH
Hastedter Osterdeich 222
28207 Bremen, Germany
Tel: +49-421-20 12 20
Fax: +49-421-20 12 29 99

info.osyris@exelisinc.com

www.exelisinc.com/solutions/osyris

www.harris.com

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