IFS APPLICATIONS™ FOR
MARITIME
CAPABILITY
SUPPORT
When we first set out to create IFS Applications over 25 years ago, our goal was to make the most usable business solution on the market. And to help us achieve that ambition, we put simplicity at the forefront of everything we did.

We still do.

We decided that we would make only one product, which can be easily configured to match the specific requirements of a broad range of industries.

We still do.

We decided that we would build IFS Applications on standards so our customers would not be locked into any particular technology.

We still do.

We decided to design IFS Applications as a component-based structure so it can be easily extended and updated.

We still do.

We decided that each software component must be totally compatible with every other, yet capable of running independently.

We still do.

We decided to build a product that could handle change and long-term evolution.

We still do.

And, that we would make the most user-friendly business software on the market.

We still do that, too.
FROM ENTERPRISE MANAGEMENT AND MAINTENANCE TO PROJECT CONTROL, FLEET MANAGEMENT AND BUSINESS PERFORMANCE DATA

ALL IN ONE INTEGRATED, COMPONENT-BASED SOLUTION—IN THE DOCKYARD, PORT OR ON BOARD
THE LEADING INTEGRATED MARITIME CAPABILITY SUPPORT SOLUTION

Modern ship fleet management demands improved operational effectiveness and financial efficiency.

Over 70% of the whole-life costs of complex equipment is incurred in in-service support. Reducing support costs, enabling Contracting for Availability (CfA) and Class Output Management (COM) while also increasing operational output, require intelligent and predictive support solutions.

IFS Applications™ for Maritime Capability Support is the key through-life enabler for Naval and Civil fleets.

IFS FOR MARITIME SUPPORT—THE LEADING INTEGRATED MARITIME SOLUTION

In both Naval and Civil Fleets, to achieve high levels of combat or commercial availability, suppliers and maintainers need to continually improve performance of fleets, assets and the associated maintenance processes. Agile and efficient fleet optimization and management, fleet maintenance, service and refit need to be synchronized in a Continuous Engineering Support (CES) environment leveraging the advantages of modern technology.

Working with a cross-section of customers from commercial shipyards, specialist contractors in the defense sector and military end-users, IFS has built and deployed a solution with capabilities that cover all aspects of the lifecycle of maritime assets.

IFS Applications for Maritime Capability Support enhances the capabilities of IFS Applications for Shipbuilding to provide:

- enterprise management for defense dockyards;
- civil shipyards and port functions;
- capabilities for in-service operations, maintenance and repair (both ashore and afloat);
- RCM (both ashore and afloat);

and enables:

DOCKYARDS AND PORTS

- Enterprise Business Management including Financials and HR
- Depth Repair of Naval and Civil Platforms/Vessels
- Major Refits
- Maintenance, Defect Rectification and Capability Upgrades
- Facilities Management
- Logistics, Transport and Waterfront Support
- Naval Design and Technical Service
- Fleet Time Management
- Project and Document Management
- Business Modeling and Business Information Management
- Reliability-Centered Maintenance (RCM)
- Shore-based Maintenance Planning for all Deployed Platforms (MMS)
- Platform-to-Shore Maintenance, Spares and Health-Monitoring Data Synchronization
• Contracting for Availability (CfA) and,
• Class Output Management (COM).

IFS Applications is a commercial off the shelf (COTS) application where components can be selected to deliver the end-to-end processes needed to support operations. And with our service-oriented architecture (SOA) makes the solution faster and easier to implement. The design of the application enables organizations to retain existing systems and integrate as much or as little of IFS Applications as needed—in the full knowledge that you can implement more functionality as and when you need to as the maritime operation evolves. This lowers the ‘total cost of agility’, reduces risk, and increases return on investment (ROI) in both a financial and operational context.

IFS adopts a project-centric enterprise approach, across the maritime lifecycle, involving all aspects of change that can be planned, managed and accounted for within the same solution—all from one supplier.

RELIABILITY-CENTERED MAINTENANCE IN THE MARITIME ARENA

Since 1995 our fleet management solution has exploited the growing market for asset maintenance solutions based on the principles of RCM—a concept developed originally by the civil aviation industry to determine the optimum maintenance tasks needed for each aircraft platform.

Over the past 20 years RCM has become the solution of choice for developing maintenance schedules for high-value assets with significant downtime costs or where failures could lead to serious safety or environmental problems.

IFS’ RCM Toolkit enables storage of maintenance strategies derived using RCM analysis techniques in a database. In the late 1990s, The Royal Navy (RN) adopted a specific RN version of IFS’ RCM Toolkit to drive savings in through-life platform maintenance, and in 2001, the RN awarded iSC (now part of IFS Defense) a development contract to satisfy a need for enterprise-wide availability of information. The IFS Unit Maintenance Management System (UMMS) was born from this development.

FLEET ON BOARD (UMMS)

• Maintenance Management—scheduling, tasking and feedback
• Supply Chain Integration with Maintenance Management System
• Health and Usage Monitoring (HUMS) integration with UMMS
• Ship-to-Shore Synchronization of all Maintenance data with Ashore Team
UNIT MAINTENANCE MANAGEMENT SYSTEM

UMMS is a comprehensive web-enabled maintenance management and reporting system deployed to support the majority of the surface, submarine and auxiliary fleets in the RN as well as all RN/industry shore support organizations. It manages all aspects of ashore and afloat maintenance management. The solution links all surface and submarine vessels with shore-based support and known problems are communicated automatically to the fleet manager.

RCM drives the compilation of a complete functional analysis (using Def Stan 00-45) based on the RCM 2 methodology. The latest version of UMMS, the Integrated UMMS Environment (IUE), enables easy implementation of the derived maintenance strategy utilizing a common task repository (CTR) that manages a single set of maintenance tasks across the RN. The IUE significantly reduces the duplication of maintenance requirements data. A major benefit of the IUE is the introduction of approval workflow and version control, which greatly improves the resolution of previous safety and environmental concerns. The IUE also provides configuration management for platforms which are not managed within the RN’s configuration databases. UMMS enables presentation of information authored to the S1000D standard for technical documentation.

A key feature of UMMS is its ability to handle user feedback on equipment configuration, maintenance tasks, defects and spare parts—and therefore provides the ability to deliver continuous improvement.

UMMS interfaces with all RN dockyard planning systems by outputting a set of maintenance tasks and spares requirements formed into a work package for a given platform. Work packages exported from UMMS feed the IFS dockyard enterprise systems —now a key capability in each of the major RN dockyards.

Example UMMS Implementation
THE IFS MARITIME SOLUTION IN ACTION

UK Dockyard Support (BAES)—IFS supports BAES Surface Ships and the UK MOD dockyards at Portsmouth Naval Base and Glasgow. It underpins an enterprise-wide solution that includes deep repair of naval and commercial vessels, maintenance, defect rectification and capability upgrades, facilities management, logistics, transport and waterfront support.

UK Dockyard Support (Babcock)—IFS also supports Babcock Engineering Services and the UK MOD dockyards at Rosyth, Faslane and Devonport. This includes support for major refits for the Royal Navy, modular construction, manufacturing and fabrication, naval design and technical services.

Royal Norwegian Navy (RNoN)—utilizes IFS Applications to establish engineering and in-service support based on one data baseline driven directly by the Integrated Logistics Support (ILS) solution—it also covers engineering and project management. The RNoN operates a fleet of some 100 vessels.

Todd Pacific Shipyards—is the Pacific Northwest’s largest private-sector shipyard, performing a wide range of new construction, conversion, and repair projects for government and commercial customers. Located on Harbor Island in the deepwater port of Seattle, Washington, Todd Pacific has been a mainstay of the area’s maritime industry since 1916.

Babcock Marine—is the UK’s leading provider of engineering and support services to the Royal Navy. It currently carries out three quarters of the annual maintenance and refit load required to support the Royal Navy’s surface ship capability.

STX Europe ASA—(formerly Aker Yards ASA), the world’s fourth largest shipbuilding group—comprises yards in Brazil and Romania. The Norwegian yards, Brattvaag Skipsverft AS and Søviknes Verft AS shipyards, were founded 50 and 64 years ago, and employ 160 and 170 employees, respectively, and build and maintain specialized vessels for the offshore industry.

Naval Shipyard Gdynia S.A, Poland—is involved in the maintenance, construction, repair, conversion and modernization of navy vessels, commercial and fishing vessels, and technical as well as special-purpose vessels.

PT PAL—located in Surabaya, Indonesia, has more than 26 years of shipbuilding experience producing both merchant and naval vessels; together with maintenance repair and overhaul activities. IFS Applications replaced an array of disparate systems and has delivered higher productivity, reduced costs and improved customer service.

DAMEN—is the largest shipbuilder in the Netherlands. It delivers modular shipbuilding and standardized designs in very short delivery times and at competitive prices. It has over 30 shipyards and related companies globally. In addition, it manages and maintains a significant fleet of civil ships, military and support vessels. IFS Applications optimizes project and contracting management, reduces risk and provides integration with engineering, purchasing, production and service/installation. It delivers a full insight into project progress, costs (including budgeted, committed and actual) in real-time.
ABOUT IFS AND IFS APPLICATIONS

IFS is a public company (OMX STO: IFS) founded in 1983 that develops, supplies, and implements IFS Applications™, a component-based extended ERP suite built on SOA technology. IFS focuses on agile businesses where any of four core processes are strategic: service & asset management, manufacturing, supply chain and projects. The company has more than 2,000 customers and is present in 50+ countries with 2,700 employees in total.

If you are interested in further information, e-mail info@ifsworld.com or contact one of our regional offices or visit our web site:

www.IFSWORLD.com

www.IFSDEFENCE.com

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