IFS Disconnected Operations

Ultimate survivability for mission effectiveness

IFS

Supporting defense organizations in all levels of connectivity

IFS Disconnected Operations offers a robust solution for supporting defense organizations in varying levels of planned or unplanned connectivity while operating in a forward environment.

Military organizations operate in hostile environments characterized by remoteness, extreme weather conditions and threat of conflict–putting personnel, military assets and communications channels in harm's way.

In response, military organizations have mitigated these threats by shifting towards distributed operations, representing a significant change in the way assets and personnel are deployed. In these scenarios, they may "operate in the dark" for multiple months before returning from missions.

During that time, Military engineering authorities will continue to issue actionable insights such as maintenance program modifications for bases to adopt. Lack of reliable connectivity does not ease the importance of covertness nor the need to maintain operational security.

IFS Disconnected Operations is designed to provide military and defense organizations the ability to deploy, operate, protect, and safely return air assets and data anywhere in the world for as long as needed with any level of connectivity from disconnected hardware, such as laptops. This defense aviation solution provides all maintenance capabilities required to retain mission effectiveness and compliance, enable technical records collection throughout missions and ensure data integrity and completeness upon base return.

Disconnected doesn't mean isolated

IFS Disconnected Operations provides critical information and decision support for military organizations while disconnected and helps increase availability and reduce overall lifecycle expenditure.

IFS Disconnected Operations: Benefits

As global operational commitments continue to evolve, the need for continuous operations anywhere in the world, with any level of connectivity, remains crucial.

Military and defense operators have definite pain points and requirements beyond those typically found in a line maintenance environment even when operating at home, including:

- Centralized control and decentralized execution

- Flexibility and scalability

- Data security and integrity

IFS Disconnected Operations solves the following problems for defense organizations:

Autonomous units, centralized authority

Aircraft and inventory assets must be deployed to locations that are either disconnected, or can be disconnected at any time, from the central maintenance management system. IFS Disconnected Operations enables you to manage your application and engineering data from a central point, then publish updates to operating nodes.

Flexible network, robust solution

Deploy assets to any operating theaters with IFS Disconnected Operations while safeguarding network resilience, regardless of connectivity constraints.

Continuous airworthiness operations

Disconnected bases must be able to operate and maintain aircraft independently and in full compliance with airworthiness requirements. IFS Disconnected Operations provides an accessible engineering authority and technical records repository for all outposts.

Distributed records, total asset visibility

No matter where maintenance occurs, the technical records for an asset must be aggregated and accessible in a central repository. IFS Disconnected Operations enables securely operating assets with isolated records, still ensuring data integrity through incremental consolidations.

Improved accuracy and data consistency

Distributed operations and disconnection are no excuse for inaccurate or duplicate data. With IFS Disconnected Operations, there can only be one active asset record at any given time.

Keeping communication lines 'open'

In order to achieve disconnected operations, the underlying software infrastructure requires the capability to aggregate, consolidate and store data, while providing physical and software-based hardening against attack.

IFS Disconnected Operations has been purpose-built to address these unique challenges to operate from remote and austere environments.

Asset compliance

IFS Disconnected Operations addresses the core requirement needed to transfer assets between nodes for military operations, including asset transfers (air vehicle and loose inventory), baseline transfers along with the asset, and technical records transfers along with the asset. IFS Disconnected Operations' Workflow Manager prepares deployments and imports of assets from Main Operating Bases (MOBs) to Forward Operating Bases (FOBs) and inversely from FOBs to MOBs, as well as FOB to FOB. When assets are transferred, baseline updates and a portion of their technical records are automatically transferred.

Central engineering authority & baseline update

In defense operations, the Central Engineering Authority (CEA) creates and maintains the maintenance and equipment baselines; baselines at autonomous bases must remain as up-to-date as possible. IFS Disconnected Operations enables CEA engineers to create, update, or delete these baselines, which can then be 'pushed' to MOBs and FOBs. Conversely, bases can view the batch number their location is using and request an update from MOB or CEA.

Technical records respository

In situations where technical records for an asset are created in multiple internal or external systems, wing command or central maintenance management requires an aggregated view of an asset's technical records. The Technical Records Repository (TRR) enables planners, reliability departments, and others to view the full set of historical records for maintenance performed and usage accrued on an aircraft or component. Bases that perform maintenance can keep the central TRR up to date by sending technical record updates through the built-in Workflow Manager feature.

Integration with IFS Maintenix

IFS Disconnected Operations comes fully integrated with best-of-breed IFS Maintenix aviation maintenance management software, eliminating the need for data duplication, and delivering a complete spectrum of aviation maintenance management in a single integrated business platform.

Learn more about how our enterprise software solutions can help your business today at ifs.com.