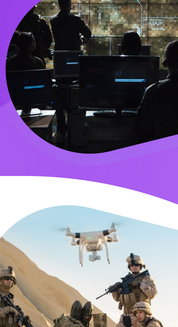
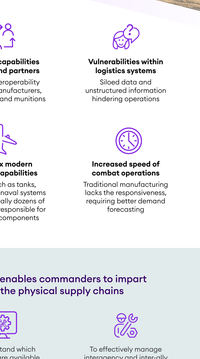
Enabling Decision Advantage in the Future of Contested Logistics

Building resilient and agile supply chains, leveraging expeditionary manufacturing and a digital backbone, and eliminating data silos to enable unified decision advantage to address future contested logistics.



Building resilient and digitalized supply chains

With advancing technology, the shifting scope of threats, and the growing scale conflicts, this has highlighted the failure of just-in-time models for military operations. Military leaders are having to relearn the necessity for resilience within the sustainment warfighting function.



When modern conflict is large-scale, contested, dynamic, and complex...

Scale of operational theatres

Operations can span oceans and continents, displaced from resupply points and manufacturing centers

Differing capabilities of allies and partners

Limited interoperability between manufacturers, repair parts, and munitions

Vulnerabilities within logistics systems

Siloed data and unstructured information hindering operations

Digital supply chain disruption

As physical supply chains are under threat, digital information supply chains need to be more robust and responsive

Complex modern combat capabilities

Assets such as tanks, aircraft, and naval systems have potentially dozens of contractors responsible for individual components

Increased speed of combat operations

Traditional manufacturing lacks the responsiveness, requiring better demand forecasting

...Digitalizing the supply chain enables commanders to impart resilience and agility into the physical supply chains

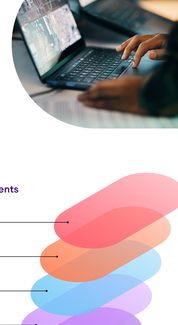
To coordinate supply movements and accurately predict both what is needed where, and how long it will take to produce, transform, and deploy over massive distances.

To understand which resources are available for effective deployment, even under Denied, Degraded, Intermittent, and Latent conditions.

To effectively manage interagency and inter-ally supply chain interoperability to coordinate supply efforts and share resource.

Leveraging expeditionary manufacturing and a digital backbone

Building a resilient supply chain, along with expeditionary manufacturing with a digital backbone and accurate forecasting provides commanders with curated and unified streams of information to establish the operational insights they need to make better decisions faster.



Proactive procurement models make use of accurate data and advanced analytics to update operational requirement and procurement in near real time to close supply chain gaps and minimize operational downtime

Expeditionary manufacturing

Enabling defense forces to rapidly produce parts from raw materials and digital files in the field.

- Improve operational resilience and efficiency
- Create the shortest possible supply chain
- Reduce time-to-repair, minimizing the chance of disruption
- Increase the efficiency of forward positioning, eliminating the need to overstock
- Fabricate new designs to replace obsolete or deprecated parts

Digital backbone

Prepare defense forces with digital engineering capabilities, to quickly generate and send files into the field for manufacturing.

- Transport manufacturing equipment and raw materials where they're needed
- Duplicate or replicate parts using bandwidth-intensive, advanced technologies like digital twins

Accurate forecasting

Accurately forecast for repair parts, raw materials to produce them, and the resources to keep machines running.

- Anticipate needs to speed up the supply chain
- Issue warnings in real time around replenishment based on forecasted need
- Identify and address issues before they compromise operations

Eliminate data silos and deploy a cutting edge, optimized COTS solution

Battlefield and operational condition evolve quickly, meaning agility and real-time adaptability are critical to mission success. Logistics systems must go beyond simple data gathering – they must draw on a single source of truth that is maintained throughout the supply chain and between stakeholders. To deliver accurate and current data that can be analyzed and transformed into usable operational information.

Maintaining access to high-quality data and enabling systemic synchronization presents challenges in defense environments

- Data residing in structured and protected data silos
- Varied data fidelity, even down to the individual level
- Decision-makers operating in data vacuums
- Operational systems depend on different data structures
- Operational stocks built on outdated and incompatible core systems
- Data silos preventing access to basic data for supply chains

Handle the unique logistics realties and challenges that defence organizations face today with IFS and Accelint

Our integrated data systems built on Commercial off-the-shelf (COTS) asset management and resource planning can reshape and refine supply chain logistics for greater operational resilience.

- A single pane-of-glass view into the status of all supply chain assets
- Designed to connect data across a digital thread, ensuring a resilient architecture and consistency across the supply chain
- Adjust and tailor composable and configurable systems without compromising interoperability
- Achieve value immediately without systemic overhauls
- Continual development and improvement for access to the latest and greatest capabilities without bearing the cost alone

Strengthen resilience, maintain operational advantage, and ensure mission success in even the most contested environments

- Seamlessly integrate information from all sources
- Enable predictive maintenance and the use of AI to process technical content and help technicians find and repair issues faster
- Achieve earlier and more precise forecasting to reduce downtime and improve on-the-ground mission capacity and ability
- Make complex assets easier to manage and understand at-a-glance
- Immediately identify certified spare parts already deployed in-theater
- Route requests to expeditionary manufacturing nodes
- Predictive alerts to enable proactive responsiveness

Let's talk

The combination of IFS software solutions and Accelint's implementation expertise equips defense organizations with the capabilities needed to tackle today's contested logistics challenges. It provides a single source of truth that enables defense organizations to make faster and better-informed logistics decisions that maximize asset availability and mission readiness.

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