



DMI Core

SECURE

Security Operations Assets are kept 'secure' by 'Stove-piping' so preventing hardware inter-connection through a Wide Area Network. Our architecture is designed to provide the benefits of a connected network of systems without the additional risks of adding those same assets to a standard switch based network.

MULTI-FACETED SECURITY

From point of concept to execution, we design an application that is both secure and stable, using state of the art white box and black box testing to proactively minimize security issues. The infrastructure is deeply intrusion protected and provides user limited communication to any Security Asset.

VENDOR AGNOSTIC

Our Common Object Model approach seamlessly transforms vendor specific information formats into a consistent view, enabling unprecedented speed and ease of access to heterogeneous data.

A New View on Aviation Security Operations.

It's a well-worn truism that the Aviation Security world is becoming more complex every day; new systems, new threats, new risks, new requirements, and new demands. The basic demand is to do more with less, without compromising security in the process.

Meeting this goal requires an approach that provides a real-time overview of the daily management challenges facing Operational Aviation Security. These challenges start with an infrastructure of capital equipment from multiple vendors, located in numerous physical locations, spanning one or more terminals and, for regional operating authorities, wider geographic boundaries. Such local and regional boundaries also restrict access to key data points beyond that local geography; issues that impact operational efficiency and ultimately, the ability to act/react to emerging trends and threats.

DataMain, provides the solution!

DMI Core is not limited by conventional network security considerations but provides deep protection for the security infrastructure. The basic design of this application is built on sound principles of security and interoperability.

From a security perspective, the design is built from the ground up with a deep focus on the risks and related challenges associated with networking heterogeneous devices to provide

enhanced access to operational efficiency data without providing opportunities for malicious access.

The **DMI Core** design includes the virtual versions of those fundamental physical security principles of, Perimeter Security, Barriers and Checkpoints, Surveillance and Reporting, and Protection of the Command Center. We have short term future plans for full command and control functionality. Our deep focus on a security philosophy doesn't stop there. Our Software Development Life Cycle (SDLC) and our live installed product uses advanced in-line testing techniques to continually monitor the application and detect application anomalies and then, using those same techniques, enable asset testing to determine if there is a risk or breach.

We firmly believe that, interoperability starts with the concept of enabling secure, enhanced interconnected access, to mission critical security operations information, that is unlimited by vendor or geography and is a unique and imperative part of our approach; but that is just the beginning.

When thinking about the greater issues of supporting today's complex screening operations, there are complexities related to heterogeneous equipment. Being able to effectively acquire, consolidate, and transform that raw data into meaningful information in a timely, repeatable, and automated process is *the* key data-mining component of **DMI Core**.

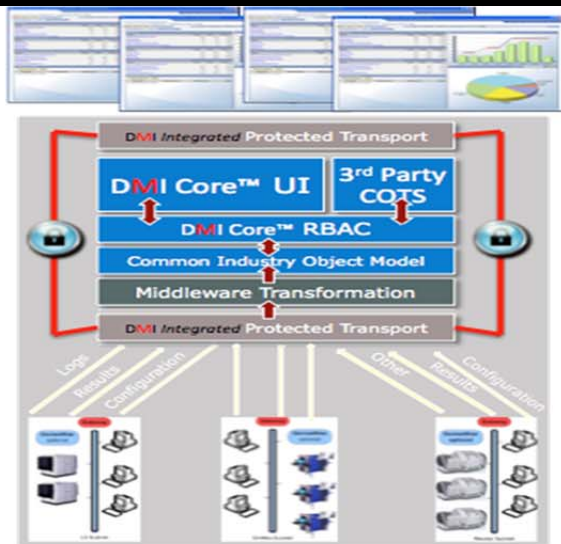


Figure 1

Why This Approach?

We know from our experience in other industries, that you can release an immense amount of untapped value available to Aviation Security operations by harvesting, time synchronizing, harmonizing, and reporting on information from your security assets. Once this information is centrally stored and transformed into a Common Industry Object Model, ^{Fig 1} the potential uses are almost boundless. Imagine the benefits of timely operational information flowing into a single system providing insight into issues only just now occurring in the field regardless of where those assets are within your jurisdiction.

- **Changes in flow rates of passengers and bags indicating a need to reallocate staff between checkpoints to improve throughput and enhance passenger satisfaction.**
- **Changes in rescan rates indicating service or training issues that could be addressed more proactively.**
- **Increased levels of alarm rates on one or all security operations indicating a concerted attack.**
- **Near real-time interaction with the TIP program.**
- **Are devices unexpectedly offline? When did the outage start? Are there planned maintenance activities?**
- **Targeted Maintenance giving reduced time off line, from remote fault diagnosis by vendor.**

With **DMI Core** you will augment your existing capabilities with the ability to use advanced analytical tools to evaluate trends and the potential to uncover coordinated threats.

DMI Core will dramatically improve your insight into your operations in near real time, empowering your security staff to spend time more effectively on valuable security related tasks.



Figure 2

The Future.

DataMain International focusses on solving the very real challenges that exist within Aviation Security asset management. We are a group that combines deep, domain specific knowledge of the Aviation Security world with current and emerging technologies to realize our goal of providing Aviation Security operators and their oversight authorities, with unprecedented access to customizable reports and dashboards that improve overall operation efficiencies and provide additional tools to enable deeper insight into your security operations.

The initial release of **DMI Core** ^{Fig 1} concentrates data collection from a wide variety of device types and manufacturers into a Common Object Model, enabling advanced reporting and dashboard capabilities across devices and locations. This application includes Roles Based Access Control (RBAC) that allows fine grained access to specific information. The major benefit of this release will be advanced operational reporting and support of reporting requirements being enforced by operating authorities.

Our subsequent releases will continue to build on this infrastructure by enabling additional reporting and analytical tools as well as centralized access and control over remote devices using vendor supported access methods. ^{Fig 2}

For more details about our product plan and technologies, please contact:

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