



Mach-SEMS[®]



Security Efficiency Management System Checkpoint Solution

- Improves operational efficiency
- Reduces queue waiting times and congestion
- Enhances overall public safety, security and service
- Real Time Data Collection
 - Events, Reports and Statistical Analysis
 - Facility & Personnel Performance Management
 - Service Level Agreement Management
- Seamless Integration
 - Mach-Secure™ Product Family
 - 3rd party Applications

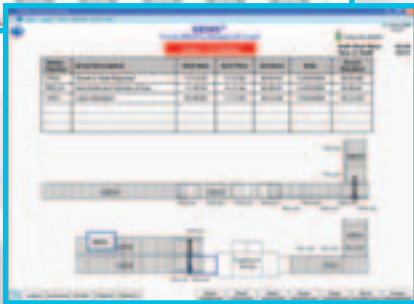
Mach-SEMS®

Security Efficiency Management System



> Overview Page

Mach-SEMS® provides the master information summary for all 'Key Performance Indicators' associated with the checkpoint facility. The overview page provides supervisors with real time visibility of throughputs, status and performance of equipment and staff operations, immediately highlighting bottlenecks or shortfalls in performance.



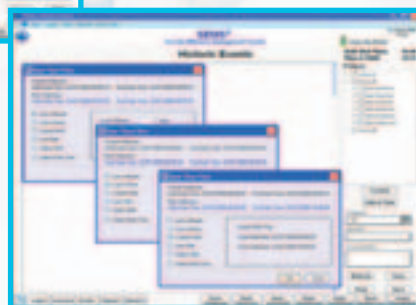
> Drill Down Pages

Mach-SEMS® provides simple drill down methods for the operator to select discrete items of equipment or selected areas for current status and performance analysis.



> Events

All connected system events are categorised, time & date stamped and stored for historical evaluation, filtering and reporting. The most recent 1000 events are displayed on-screen in order of occurrence by default with filtering functions to refine on-screen viewing.



> Event Filters

User friendly tools enable filtering of single or multiple events from defined event category and/or periods of time.

> Reports

Standard shift, daily, weekly and monthly reports are available at all times.



> Performance Charts

Customised performance charts may be incorporated within the standard reporting format to meet the facility management requirements.



> Mach-SEMS®

Mach-SEMS® is a comprehensive monitoring system, collating DATA for statistical analysis to allow the efficient management and control of the complete checkpoint security facility.

The Mach-SEMS® solution for the first time allows management to have full visibility of the complete checkpoint process and enables the adoption of intelligent real time decision making processes.

The information provided by Mach-SEMS® ensures the management has the full statistical data available for detailed analysis of service level agreements associated with equipment suppliers, service providers and Airlines.



> Queue Management Supervisors Terminal

Assists the queue supervisor in the distribution of the passengers evenly across the checkpoint lanes. The single page overview, using intelligent algorithms, clearly indicates the availability and status of each lane in service.

> Instant Messaging

Offers instant messaging to network terminals whether it be screener, searcher or queue manager as well as PDA's and mobiles. Together with automatic SMS and e-mail alerts the IM module, serves up the relevant information to the appropriate security personnel to achieve maximum response to all issues.



> Statistics

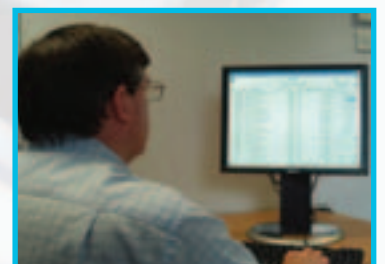
Statistical pages offer a comprehensive synopsis of the facility efficiency and operator performance.

Customised statistics offer detailed:

- Count analysis by passengers, trays and categorised threats
- Average times for loading, screening, bag and PAX search collectively or by operator
- Percentages of PAX/Tray, Threats/Airline and AMD suspect PAX/cleared PAX

> Remote Viewing

Provides managers with information at all times, Mach-SEMS® offers remote viewing on & off site via intranet and internet access. Remote access is controlled through user defined security levels.



> Mach-Secure™ Applications

The Mach-Secure™ product family seamlessly interfaces into the Mach-SEMS® solution offering a fully integrated system for the complete checkpoint security facility. Every member of the product family reports all live data to Mach-SEMS® for dynamic decision making and historical statistical analysis.

The Mach-SEMS® modular design offers a scalable approach to any size of checkpoint facility and can also be retrofitted to existing systems.

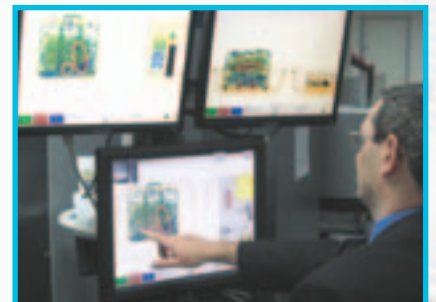


> Mach-SmartLane™

With the non-intrusive integration of the worlds leading X-ray machines, Mach-SmartLane™ automates the checkpoint tray handling process. The automatic segregation and diversion of suspect trays to the search table along with the automated return of empty trays, minimises the resource requirements to safely and effectively operate the system.

> Mach-SmartView™ Screener

Enables the screener to tag suspected threat items on the X-ray image and photo image of the tray content. On completion of the X-ray process the tagged images are stored for retrieval at the search table.



> Mach-SmartView™ Searcher

On arrival at the search table the tray is scanned and the associated images are displayed to the searcher to validate. This automated process eliminates the need for verbal instructions between the operators, avoiding communications errors and delays in screening and searching operations.

> Mach-SmartGate™

Processes passengers through the Automatic Metal Detection system in a safe and singular manner. Passengers are automatically detected and routed to a secure central search area or to baggage reconciliation. The Mach-SmartGate™ solution reduces the manpower required to operate the security PAX search area whilst increasing the PAX throughput.



> Mach-Secure™ Integrated Applications

As part of the Mach-Secure™ range of products and applications MacDonald Humfrey have partnered with leading manufactures of CCTV equipment for Mach-SmartVision™, RFID systems for Mach-SmartSense™ and ID recognition equipment for Mach-SmartAccess™, all of which have been designed to integrate seamlessly into the Mach-SEMS® product

This holistic approach to the management of the complete checkpoint security facility, ensures total management transparency and efficiency is assured.



> Mach-SmartVision™

An intelligent integrated CCTV system providing full visual coverage of the security facility. Mach-SEMS® automatically displays designated areas, relative to programmed events inclusive of failures, system congestion and operator alarms. All security operator alarms are logged for historical analysis and protection. The adoption Mach-SmartView™ alongside the Mach-Sense™ solution provides the ability to track, monitor and log all actions associated with a security operator activated alarm.

> Mach-SmartSense™

Mach-SmartSense™ is a precise real-time location solution providing 15cm 3D accuracy. Valuable assets and personnel are located and tracked throughout the checkpoint facility, enabling management to rapidly redeploy equipment and floating staff to trouble shoot congestion zones. Mach-SmartSense™ together with Mach-SmartVision™ can be configured within Mach-SEMS® to automatically display location of registered asset or person.



> Mach-SmartAccess™

Collates security personal ID references directly from access/exit points or via interfacing to customers access management system. Personnel entry and exit dates and times are stored and can be viewed via the Mach-SmartAccess™ page on Mach-SEMS®.

> 3rd Party Integrated Applications

The modular structure of Mach-SEMS® offers a cost effective solution to integrate existing or customer preferred 3rd party applications. The multi functional Mach-SEMS® suite of software allows for independent services to be fully managed and incorporated within the Mach-SEMS® reporting structure.

Mach-Secure™ - Integrated Checkpoint Security Solutions

- > The Mach-Secure™ suite of innovative products and systems has been specifically designed for security checkpoint applications. These dedicated products and systems address the day to day operational and financial challenges faced by today's modern businesses. The Mach-Secure™ suite of products and systems will increase the overall efficiency of a total security checkpoint application whilst lowering the operational costs. For the first time Mach-Secure™ introduces a totally integrated system solution to the checkpoint security environment.

Mach-Secure™ Checkpoint Products:

- Mach-SmartLane™ - Automated Tray Handling
- Mach-SmartView™ - Remote Search Facility
- Mach-SmartGate™ - Passenger Automated Gates
- Mach-SmartVision™ - Integrated CCTV
- Mach-SmartSense™ - Personnel Tracker
- Mach-SmartAccess™ - Personnel Access Control
- Mach-SEMS® - Security Efficiency Management System

The Mach-Secure™ suite of products and systems offers a coherent, structured and centrally controlled solution to provide the security checkpoint of the future.



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