DIFFERENT APPROACH

“BIG PICTURE” VIEW

TWIC IMPLEMENTATION & SYSTEMS INTEGRATION
TWIC IMPLEMENTATION
ISSUES AND CHALLENGES

TECHNOLOGY INFRASTRUCTURE

UNMANNED AUTOMATED GATE

MANNED GATE / SITE SECURITY

FIXED READER
Card Reader
Biometric Scanner
Keypad

ACCESS CONTROL
CCTV & Intercom
Automated Gate

SURVEILLANCE
CCTV (PTZ Camera)

HANDHELD READER
Card Reader
Biometric Scanner
Keypad

2.4/4.9 GHz Wireless
Wireless Mesh Access Point

Ethernet
Field Data Switch

Port Network - Fiber “backbone”

Network Switch(es)
Server(s)
Database

DATA CENTER

Firewall

TWIC Card

TWIC Database

Fixed Reader
Access Control
Surveillance

Ethernet
Field Data Switch
Fiber Backbone

Network Switch(es)
Server(s)
Database
Firewall

TERRY HAYES
PROJECT MANAGEMENT
TRANSPORT INTEGRATION
PORT OF STOCKTON, CA

AAPA
2011 PORT SECURITY SEMINAR
JULY 20, 2011
NEW ORLEANS, LA
TWIC IMPLEMENTATION
ISSUES AND CHALLENGES

SYSTEMS INTEGRATION

TECHNOLOGY INFRASTRUCTURE
Integration, Availability, Security, Resiliency, Survivability, Scalability
Best Practices, Industry Standards, Enterprise Brands
“SUSTAINABLE & FUTURE-PROOF”

- **TWIC Infrastructure**
  - Fixed Reader
  - Handheld Reader
  - Dark Fiber
  - TWIC Database

- **Network Infrastructure**
  - Ethernet Cabling
  - Field Data Switches
  - Fiber Backbone
  - Wireless Mesh Network

- **Data Center Infrastructure**
  - Network Switch(es)
  - Server(s)
  - Database
  - Firewall

- **Security Infrastructure**
  - Surveillance
  - Access Control
  - Command & Control
  - GIS

- **ENVIRONMENTAL**
  - California Environmental Quality Act (CEQA)
  - Traffic Flow, Gate Queuing

- **ENGINEERING**
  - Civil, Structural, Electrical
  - Facility Hardening

- **REGULATORY COMPLIANCE**
  - Maritime Transportation Security Act (MTSA); 33CFR Parts 101/105
  - The International Ship and Port Facility Security (ISPS) Code
  - Coast Guard Navigation and Inspection Circular 03-07; TWIC Implementation
  - Guidance Chemical Facility Anti-Terrorism Standards (CFATS); 06 CFR Part 27

- **SECURITY**
  - Procedures/Protocols
  - Management, Monitoring, Control
  - Rapid Response

- **OPERATIONS**
  - Maintenance, Support, Training
  - Exception Management
  - Throughput, Operational Efficiency

- **People, Process, and Technology**
Security-Technology Investment PORTfolio

- End-to-End
- Holistic
- Vendor-agnostic
- Integrated

Investment PORTfolio is a shift away from one-off approach

Objectives:
- Optimal mix and sequencing
- Relationship or integration
- Standardization
- Process improvement
- Operational efficiencies
- Acceptance
PORT OF STOCKTON SYSTEMS INTEGRATOR PROJECT

11 State/Federal grant and technology projects
$12.2 million, 13 months

By end-August 2011:

✓ 6 months
✓ 5 Contracts Awarded
✓ $9.5 million

Strategic plan and Technology Investment Portfolio that allows the Port of Stockton to continue along its path of growth, as well as future grant and technology projects.

US Port with Tier 1 Security status, as well as a proven track-record as a “good steward” of grant funds, and economic and environmental development initiatives.