“JPEN”

An Integrated Force Protection Information Sharing System

“Joint Protection Enterprise Network”

J6 to NC Transition Information Brief, January 2004

As presented to: President George Bush
Chairman of the Joint Chiefs of Staff General Richard Myers
Secretary of Defense Donald Rumsfeld
Deputy Secretary of Defense Paul Wolfowitz
FBI Director Robert Mueller
Former Secretary of Defense Dr. James Schlesinger
Secretary of Homeland Security Tom Ridge

By Professor John Donovan
General Keith Kellog
"... possibly the single-most transforming thing in our force will not be a weapon system, but a set of interconnections and a substantially enhanced capability because of that awareness.”
Hon Donald Rumsfeld Aug 9, 2001

DoD Force Protection Information Sharing today

Hierarchical: "stovepiped" Service-centric Information flows

Net-Centricity Payoffs
- Smarter Decisions based on...
- More information
- Better Collaboration based on...

Shared Battlespace Awareness
Where the initiative started: CJCS Meeting (1 Jun 02)

- Are we thinking creatively in supporting the Global War on Terrorism?
- What can we do to help NORTHCOM?
- “Our number one goal is to protect American citizens from attack...it is what we get paid to do.”
- “I do not want to be patient about it. What message are we sending to the American people -Are we reactive or proactive?”
- “We have a lot of latitude—be bold.”
Problem

- No integrated, cross domain information sharing program for Homeland Defense and Civil Support for NORTHCOM
• The internal “battlefield” has even more seams than the military battlefield

• The **goal**: establish a seamless, integrated force protection information sharing system that provides situation awareness at military installations in NORTHCOM AOR
• Is a rapidly prototyped, command and control program system for force protection information
• Allows integrated force protection information sharing amongst DoD facilities and other subscribers
• Provides a critical tool for DoD and USNORTHCOM in their Homeland Defense /Civil Support Roles
• Unclassified and protected
• Is modular, scalable and can be upgraded with new technologies and capabilities as policies and regulations permit
JPEN Historical Events

Jan 03 – May 03

Jan 03 – Jan 04

Jun 03 – Jan 04

OSD, FBI, OHS Workshop

NORTHCOM Tasks

Dr. Schlesinger

DepSecDef/VCJCS

SecDef

HQ AF 3-Ltrs

DepAG

DOE/DIR SO

Spiral 2 Release

Fed. Register Privacy Act

Spiral 3 Release

FOC NCR

Spiral 4 Release

Spiral 5 Release

FOC Seattle

FOC Norfolk

Transition to Northcom (JAN)

Service OPSDEPS

ASD (C3I)

CJCS

SecDHS

DepSecDef

CellExchange Contractor

Briefings
Meetings
Reports
PowerPoint to Prototype in 90 Days...Operational 60 days later
**Information being Shared**

**TALON Criteria**

1) Non-specific Threats to DoD Interests
2) Suspected Surveillance of DOD facilities and Personnel
3) Elicitation attempts, suspicious questioning
4) Tests of Security
5) Unusual repetitive activity
6) Bomb threats
7) Any other suspicious activity and incidents reasonably related to terrorist activity directed against DoD

**Force Protect Incidents**

1) Chemical, Biological, Radiological, Nuclear alarms/alerts
2) Emergency response events (e.g. fire, bomb explosion)
3) Force Protection conditions
4) Vehicle turnarounds
5) Other significant Force Protection-related events
Defense in Depth

• System accessed via web browsers and Internet

• Information Secured:
  – 128-bit Secure Socket Layer encryption
  – Authentication tokens
  – Firewalls
  – Intrusion detection devices
  – IP filtering
  – Audit trails

• “Thin Client” — no special software required at user level

Information can be securely accessed from any Internet-connected computer
**Event Log**

**Feature:**
- List of JPEN Events based on installation preference
- Ability to update events by “owning” installation and selected users
- Filter and search capability to refine view

**Benefits:**
- Delivers appropriate information
- Flexible to meet unique filtering
- Rapid access to event details
Search Events

Feature:
- Advanced search with pre-defined query

Benefits:
- Ability to query event logs
**Post Event**

**Feature:**
- Tool to aid input of events IAW TALON Format
  -- Event Details, Incident Details, Additional Items (Individuals & Vehicles), Actions taken

**Benefits:**
- Common incident detail structure
- Maximizes data fields for tracking events
- Consistent with OSD TALON directive
Installation Command View

Issue Alerts/Notifications

Feature:
- Ability to perform notification of impacting events

Benefits:
- Provides for manually generating alerts
- Provides for associating alerts with events
- Provides for notification of associated events to other installations
Installation Command View

Home View

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**Force Protection Levels**

**Feature:**
- Provides installations current Force Protection Level
  - Alpha through Delta including “+” parameter
- Amplifying information: Reason for Level and additional measures being undertaken

**Benefits:**
- Provides “quick read” of current Force Protection Level at installation-selectable locations
- Allows for cross-checking security procedures
Collaborations

Feature:
- Easy access to SBU collaboration tools
- Currently asynchronous. Chat, etc. coming

Benefits:
- Accelerates command center to command center collaboration
Installation Command View

Home View

Event Assessments

Feature:
- Provides each installation assessment based on locally-defined weights
- Partitioned bar allows for visualizing weight of event IRT threshold
- "Hovering" cursor over partition provides "quick look" of event

Benefits:
- Provides "quick read" situational awareness of event assessment
- Ability for one installation to view how others perceive events as they occur
- Color code provide view towards threshold
  -- Red > 100%, Orange: > 75%, Yellow > 50%, Blue > 25% & Green < 25%
NORTHCOM/Service Operations Center View

Geographical View

Feature:
- Provides Geospatial reference to event location

Benefits:
- Provides visual representation of events location
Implementation Schedule

Feb 03

Mar 03

Apr 03

Prelim. Critical Design Review

Design

May 03

Stand-Alone Demo

- Initial Test
- System Design Complete
- Begin Spiral Enhancements

Development

Jun 03

- Initial Ops Capability
- Servers “Hardened”
- DISA IATO
- CONOPS Planner-level Approved
- “Smart Pull”
- Collaboration

Design Draft

- Geospatial Info System
- DISA-Cert
- Collaboration
- Federated Search
- Additional installations
- Additional data sources

Aug 03

Sep 03

Prototype

Spiral 1

Pilot Program

Transition to NORTHCOM

Experiment Program

DP 03

- Final Design, Test & Change Mgmt Doc

CONOPS

Spiral 2

Critical Design Review

Test & Change Mgmt Doc

Final Design, Test & Change Mgmt Doc
Pilot Locations

Seattle Region
- Ft Lewis
- McChord AFB
- Everett Naval Station
- Bremerton Naval Station
- Bangor Naval Sub Base

NORTHCOM
- Domestic Warning Center
- Domestic Events Officer

NCR
- Bolling AFB
- FMMC
- Wash Navy Yd
- MCB Quantico
- Svc Ops Ctrs
- Pentagon
- Andrews AFB
- Ft Belvoir
- Ft Meade
- Henderson Hall
- CIFA
- JITF-CT
- TSA (NCRCC)

Norfolk Region
- Norfolk Naval Station
- Norfolk Naval Shipyard
- Norfolk Naval Air Station
- Langley AFB
- Ft Eustis
- SJFHQ-HLS
- JTF-CS

JPEN pilot capabilities expand in National Capital Region and to Norfolk and Seattle regions
• Operational cross domain unclassified/protected information sharing system

• Fielded Prototype in 90 days…Operational 60 days later

• Rapidly scalable

• Allows for integration of other data sources and applications
“JPEN”

An Integrated Force Protection Information Sharing System
• ADNET-U: Anti-Drug Network - Unclassified
• CDR: Critical Design Review
• CIFA: Counter Intelligence Field Agency
• DEO: Domestic Events Officer
• DWC: Domestic Warning Center
• DP 03: Determined Promise 2003
• EOC: Emergency Operations Center
• FMMC: Fort Myer Military Community
• FP: Force Protection
• GIS: Geospatial Information System
• IP: Internet Protocol
• IATO: Interim Approval to Operate
• JITF-CT: Joint Intelligence Task Force - Counter Terrorism
• JPEN: Joint Protection Enterprise Network
• NCR: National Capital Region

• NCRCC: National Capital Region Coordination Center
• HQMC: Headquarters Marine Corps
• MCB: Marine Corps Base
• MDW: Military District of Washington
• NCIS: Naval Criminal Investigative Service
• NDW: Naval District of Washington
• OSI: Office of Special Investigation
• PDR: Preliminary Design Review
• PMO: Provost Marshal Office
• SecDHS: Secretary of Depart of Homeland Security
• SBU: Sensitive but Unclassified
• SFS: Security Forces Squadron
• TSA: Transportation Security Administration
• XML: eXtensible Markup Language