SBCCOM
C Battlefield Management
Geospatial Enablement
Initiatives

ACTD’s
Joint Service
DoD
HLS / HLD

Joint Battle Decision Space
SBCCOM and AFRL

US Army Soldier Biological Chemical Command
NBC Battlefield Management
Air Force Research Labs – Rome, NY
Battlefield Technologies

Advanced Concept
Technology
Demonstration

RestOps

2001

ROIMS
RestOps Information Management System

PortWARN
Port Warning & Reporting Network

2002
2003

CASPOD

RestOps
Restoration Of Operations
NBC Situational Awareness
Response/Recovery
Force Protection
C2 Integration

CASPOD
Contaminant Avoidance at Seaports of Debarkation

Port NBC Operations
NBC Situational Awareness
Response/Recovery
Force Protection

ROIMS Components

Dashboard

Sweep Tool

Operations

Database

SRC Map

Interface

NBC RPM

Tool

SRC Database

Hazard Prediction

Attack Management

Portal Shield

Theater Battle Management Core Systems Unit Level

CAF C2 Air Operations
40+ Locations Worldwide

TASAMS - Air Ops Scheduler
SRC Map Tool - Garrison Viewer
SIPRNET Command Control - Web Enablement
NBC Situational Awareness - RestOps Core
ROLE CONNECTIVITY

Battle Management
C2 Approach
Perspective View
Situational Awareness

INTELLIGENT
Perspective
Communication
Data Flow

Scoped
Communications
Awareness
Domain Specific

Battle Staff
Contingency
Support

ROLE OPERABILITY

Scoped Communications Authorizations Domain Operability

Operations Resolution

OWNERSHIP
Manager
Consumer
Processor

WOC SRC UCC

Data Wall and the ROIMS 2002

Osan AB 1Q 2003
70+ Simultaneous Users
5,000+ Events Logged
Coordinated C2
NBC Ops, Material, Technologies
2003 MAJCOM Garrison and Expeditionary Deployment

- ACC
  - 10 CONUS (plus TBD OCONUS)
    - Probable Rapid Implementation
- PACAF
  - 9 MOB’s & 5 COB’s
    - Probable Staggered Schedule

Precursor to FULL TBMCS-UL Deployment
Automated Preparation

Preparatory - Infrastructure
COTS - GOTS Specifications
Automated Processes

Deployable Decision Systems

Infrastructure Resources- HW/SW
Core User Base Bandwidth Applicability

Reach Back Automated Update Domain Shifts Battle Management

Key Requirements
1- Continuity
2- Deployability
3- Resolution Enhancement

SECURE
Flow
Function
Reliability

Geospatial Integration


Specification Mapping
- Layer Continuity
- Normalization

Integrating Constants
- PK & FK
- Domain

Data Fusion
- Mission
- Scope
- Architectures

Facilities
- Airfields
- Critical Infra.
- FP
- NBC


Specification & Standards Integration

- SDSFIE DoD Standard – 2003
- NIMA ...(DoD Legacy)
- HSIP
- National Map
- Fed (FGDC)
- State
- Local

Mission Or Purpose

STRATEGIC
BATTLE MANAGEMENT
TACTICAL
READINESS, RESPONSE, & RECOVERY
MAINTENANCE
Resolution

Facility
Single Building - Complex

Tract – Parcel - Zone
City Block – 1sq K

City
City - Metro

County
County – District - Region

State
Integrated Response

Federal
Domains – Roles - Jurisdictions

Jurisdictions
Integrated Response
Mission Scoping

DoD
- MDS  Mission Data Sets
- MSDS  Mission Specific Data Sets
- MEDS  Mission Essential Data Sets
- NSSE  National Special Security Events

NIMA

HSIP

HLD

Mission Essential Data Sets

NSSE National Special Security Events

BM Battle Management

C2 Command & Control

SA Situational Awareness

FP Force Protection

NBC Nuclear, Bio, Chem

R3 Readiness, Response & Recovery

GeoBase CIP Enablement

Scoped Utility
- Theater
- Garrison
- Expeditionary

Boundary - Cadastre
Facilities
Airfield
Transportation
Infrastructure
MDS
NBC

Architecture
Oracle, SDE, IMS

Formats
Open GIS
ESRI, XML

Domain and Threshold
User Domain Scope

Accuracy/Currency

Enterprise Systems Approach
Geometry
Vectors
Attribution
Imagery

Solution Approach
SQL - XML
Schemas/Stylesheets

Domains:
Manager - Consumer
Processor

Specific Utility
RMS - DTTM
Summary:
NBC Primary Dynamic Layer Types

Facilities
- Operations Infra.
- Critical Facilities

Airfields
- Operations

Force Protection
- Controlled Points
- Districts/Sections
- Barriers/Conduits
- Defenses

NBC Sensors
- Integrated
- Passive
- Automatic
- Placement

NBC Ops
- ROUTES
- WAYPOINTS
- Hazard Prediction
- Chemical Zones

Critical Infra.
- Transportation
- Energy

R3 - CI
- 1st Responders
- Security
- Recovery

QUESTIONS COMMENTS DISCUSSION

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Geospatial Integration
RestOps / NBC / Battle Management
Open Map / Dashboard / Battle Management