



Fusion Center Interoperability

- Fusion Center Interfaces, Policies, and Requirements
- Frances H. Butler, Y-12 National Security Complex



Contact Information

- Frances H. Butler
 - Phone: 865-574-3694
 - E-mail: butlerfh@y12.doe.gov
 - US Mail: 602 Scarboro Road, MS 8227
Oak Ridge, TN 37830



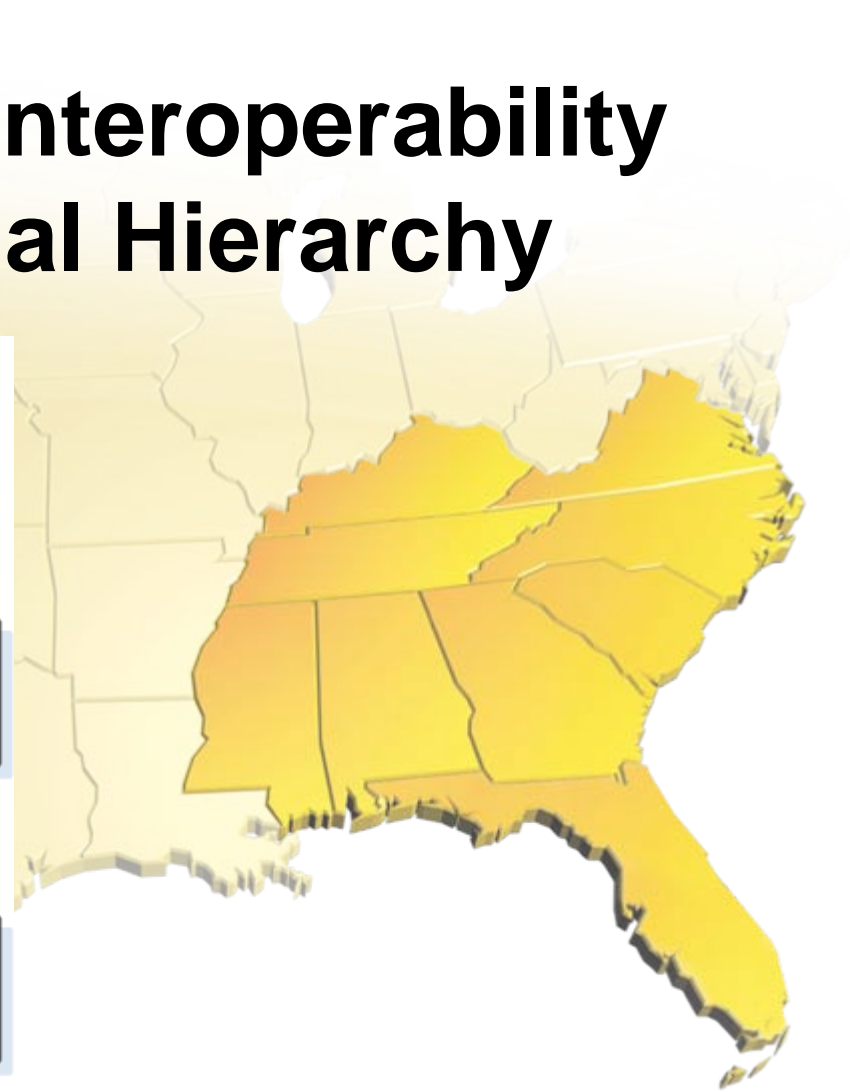
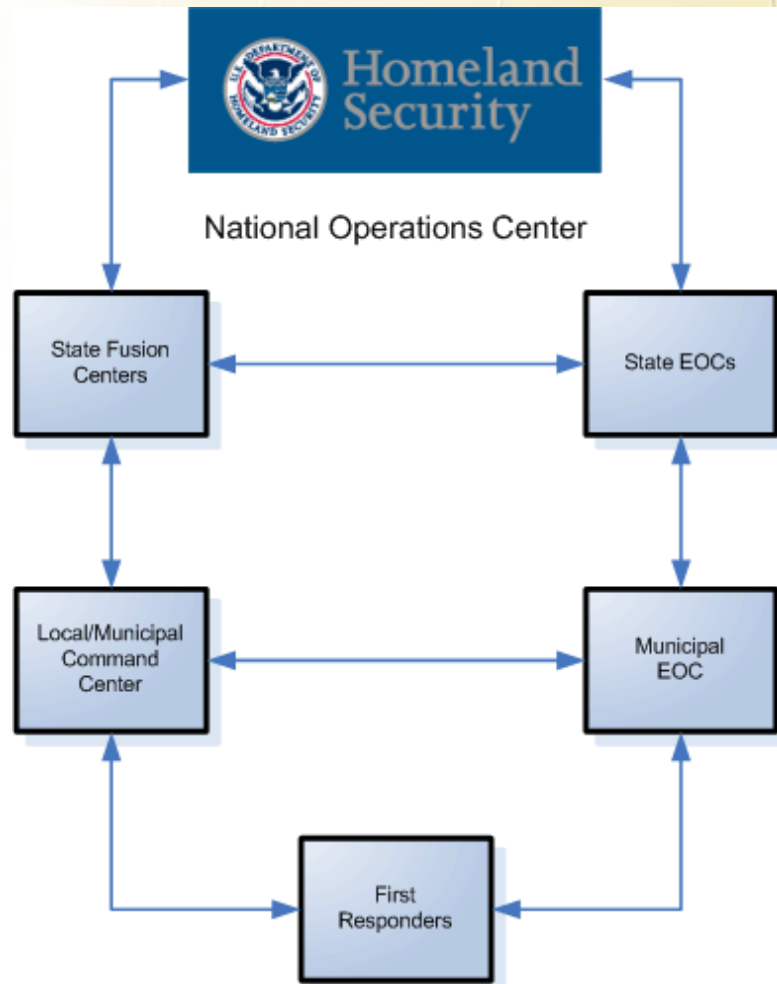
Project Description

- Define and characterize data in SERRI Information Sharing and Management Projects (IS&MS) and determine policy and requirements surrounding the collection and transfer of the data.
- Assist state fusion centers and emergency operations centers (EOCs) in their homeland security missions and critical infrastructure protection.

Landscape Assessment

- Deliverables will provide an independent, objective analysis of the data and applicable federal and state laws that would indicate constraints to effective information sharing.
- Deliverables will avoid the classic IT question: “How do we share?” This project is different because it addresses the question: “Should we share?”

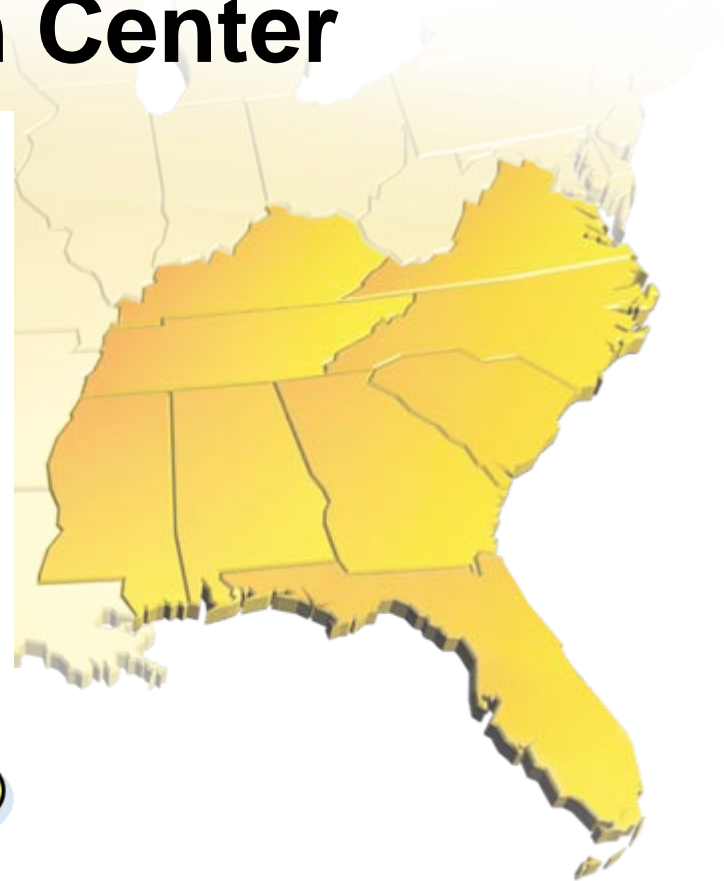
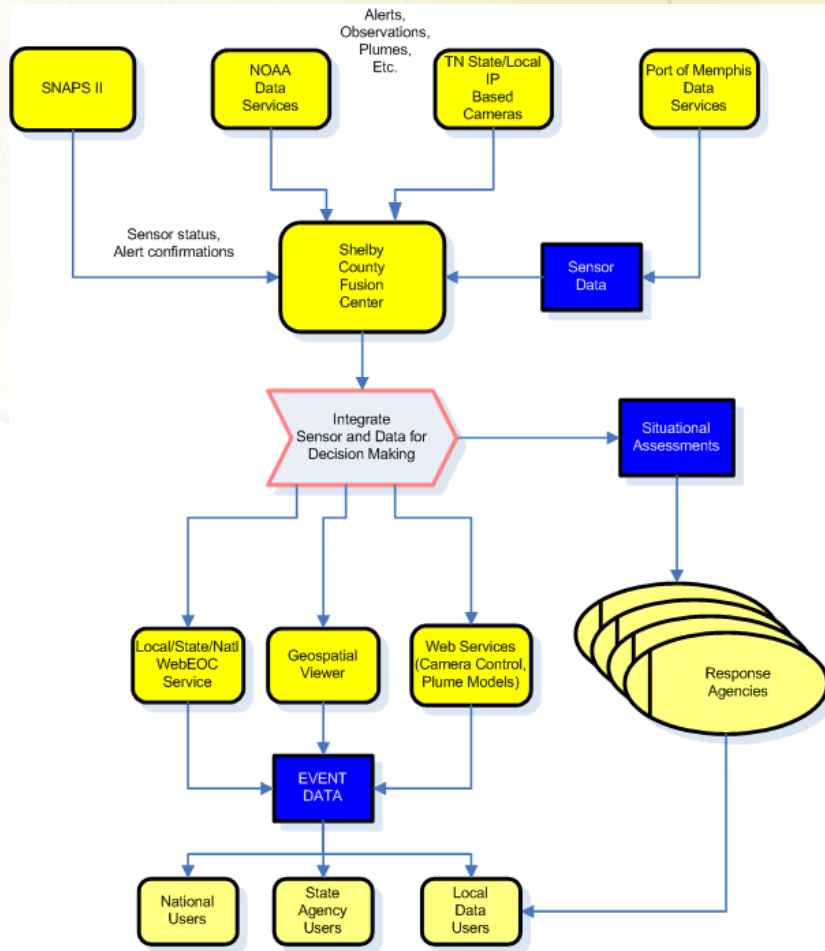
Fusion Center Interoperability Organizational Hierarchy



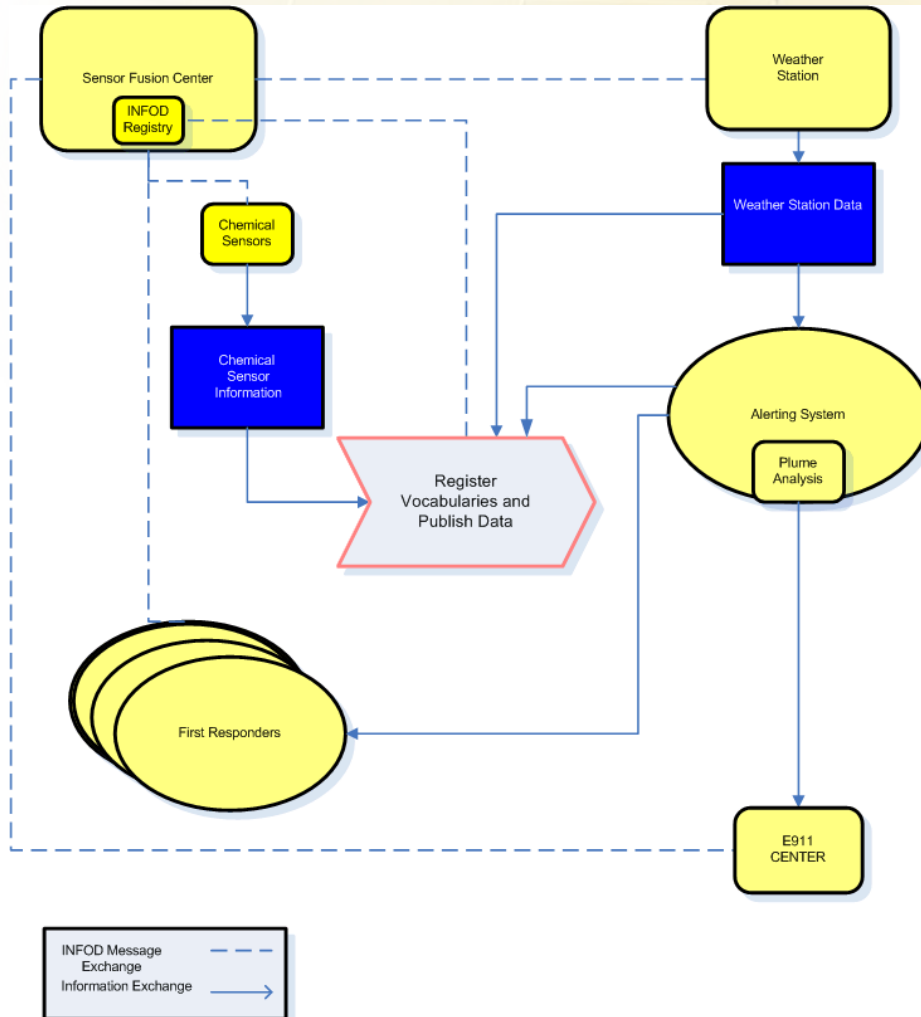
Information Sharing and Management Projects

- Shelby County Sensor Fusion Center (SCFC)
- INFO-D for Wide-Area Sensor Networks
- Kentucky Intelligence Fusion Center (KIFC)
- Integrated Threat Tracking and Information System (ITTIS)

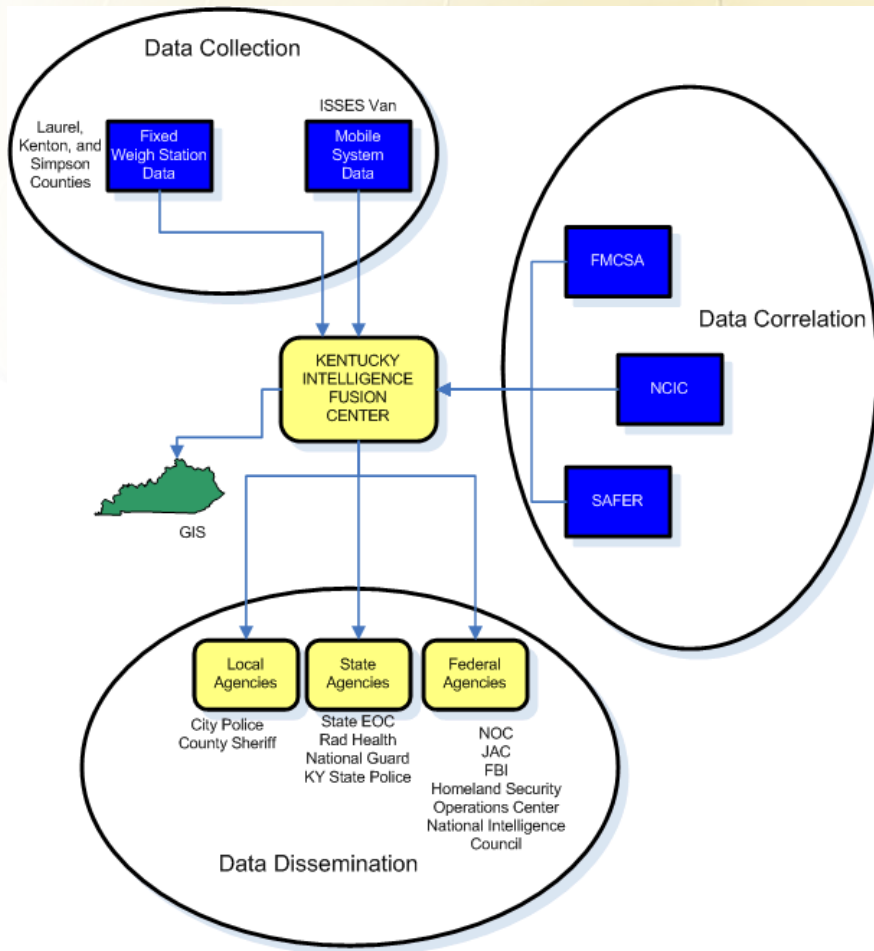
Shelby County Sensor Fusion Center



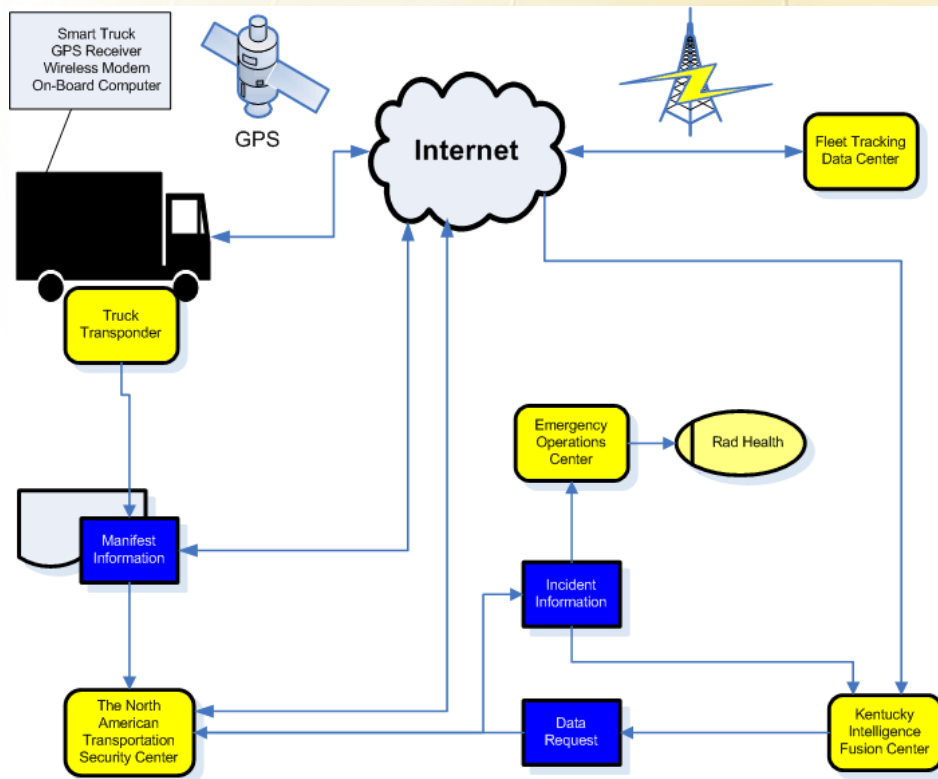
INFO-D for Wide-Area Sensor Networks



Kentucky Intelligence Fusion Center

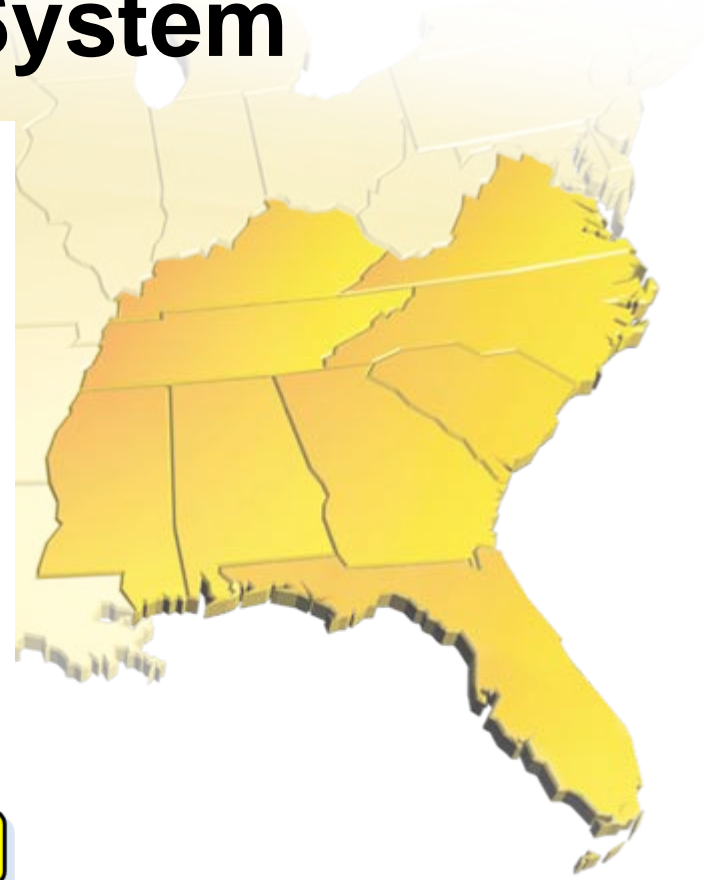


Integrated Threat Tracking and Information System



Data Objects:

- Cargo
- Driver
- Truck Location
- Problem Exists?
- Problem Description
- Destination
- Route
- Zone (Exclusionary?)



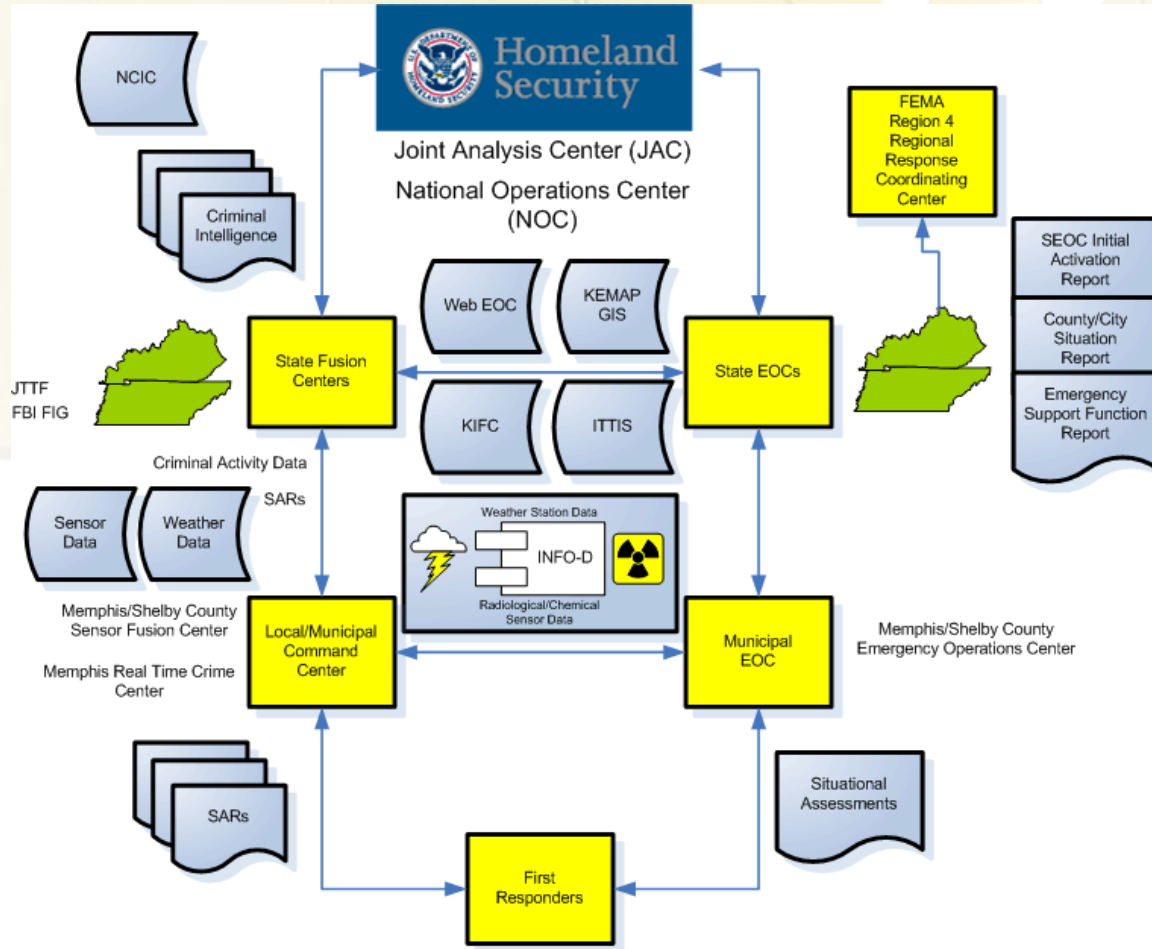
Data Flow Definition and Characterization

Tier 4

Tier 3

Tier 2

Tier 1





Suspicious Activity Report (SAR)

Subject
-FirstName
-LastName
-Gender
-Nationality
-ClothingDescription
-ScarsTattoosOtherMarks
-EyeColor
-HairColor
-ProfessionalTitle
-AgencyOrOrganization
-BusinessPhone
-MobilePhone
-eMailAddress

Source
-FirstName
-LastName
-ProfessionalTitle
-AgencyOrOrganization
-BusinessPhone
-MobilePhone
-eMailAddress

Incident
-HasItHappened
-IncidentDate
-IncidentHour
-IncidentCity
-IncidentState
-IncidentZipCode
-IncidentCounty
-IncidentCountry
-VehicleMake
-VehicleModel
-VehicleColor
-VehicleLicensePlateNumber
-PriorReportIfAny
-IncidentDescription
-WhyIsThisUnique
-Priority
-IncidentClassification



Collaborative Opportunities

- Partner with universities to improve information sharing:
 - Develop searchable software catalog to assist fusion center intelligence analysts in managing their data within the Homeland Security Information Network (HSIN).
 - Incorporate real-time video and sensor feeds from Tier 2 organizations into state EOCs to ensure safety and security of first responders.
- Integrate project findings with ORNL's SARs Exchange Project (POC: Frank DeNap).
 - SAR Exchange Framework – Employs NIEM XML to provide basic SAR data to fusion centers
 - Presented to Southern Shield Technical Group in June
 - Benefits this project by integrating policy rules with SAR Exchange software
 - Provides mechanism for policy rules to be automated, communicated, and understood by users

Project Timeline

ID	Task Name	Start	Finish	Duration	Q1 08			Q2 08			Q3 08			Q4 08		
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Phase I - Task 1.A – Data Flow Definition	1/1/2008	2/28/2008	43d	█											
2	Phase I - Task 1.B – Initiate Data Characterization	3/3/2008	5/30/2008	65d				█								
3	Phase II - Task 2.A – Current and Future Data Needs	6/2/2008	9/30/2008	87d							█					
4	Phase III - Task 3.A – Data/Policy Constraints	10/1/2008	1/1/2009	67d										█		

- Task 1 Draft White Paper Complete – 2nd Quarter, FY 2008 (June)
- Task 2 and Task 3 Expected completion – 1st Quarter, FY 2009



Summary & Conclusions

- Completed Draft White Paper to identify preliminary data and policies.
- Unexpected developments encountered during the project:
 - identified opportunities to assist fusion centers and state EOCs in new ways,
 - identified importance of SARs to fusion centers,
 - recognized the importance of human factors relative to information sharing, and
 - found information gaps that need to be addressed.
- Availability and feasibility of subcontracting support identified late in FY 08.
- Next six months: Complete Data/Policy Matrix, deliver HSIN enhancement, and Develop Final Report
- Change in Key Personnel: Project Manager retirement.