



Federal Emergency Management Agency (FEMA)



FEMA

DM-Framework Full Requirements

DRAFT FOR REVIEW

February 19, 2009

Table of Contents

1	Background	3
2	Purpose	3
3	Overview	3
4	Requirements Identified by Component	4
4.1	Provide Incident Planning and Response Capabilities	4
4.2	Provide Shared Interactive Maps	9
4.3	Provide Resource Request and Tracking.....	12
4.4	Provide CAP and NWEM Alerts.....	14
4.5	Provide National Map for Incidents and Alerts	16
4.6	Provide Journal Recording	19
4.7	Provide Secure Instant Messaging	19
4.8	Provide Weather Forecast Data, Doppler Radar, and Alerts.....	20
4.9	Create and View EDXL-DE wrapped content.....	21
4.10	Provide Operator Interface Functionality	23
4.11	Provide Core DM-Framework System Functionality.....	25
4.12	Provide COG and Operator Administration.....	27
4.13	Provide Security Functionality	29
4.14	Provide Reference Material for Operational Effectiveness.....	30

1 Background

The current Disaster Management Interoperability Toolset (DMIS) is a Java client server application designed to provide Emergency Management personnel with several emergency management software related functionalities (e.g. basic incident management system functions and shared interactive maps). It is provided as a service to qualified local, state, federal, and tribal emergency management organizations that register and request the software. DMIS communicates Common Alerting Protocol Version 1.1 (CAP1.1) Alerts to members of the DM network (including non-DMIS) applications through DM-OPEN. It also provides a special purpose CAP1.1 interface for building Non-Weather Emergency Messages (NWEM) for transmission through the NOAA Radio.

While DMIS is a fully operational set of tools, the implementation needs to be updated. It is currently a client server based "thick client" that needs enhancements to make it viable for the long term in a more robust Service Oriented Architecture environment.

2 Purpose

The DMI-Services Concept of Operations calls for DMIS to be replaced by a new set of capabilities known as the DM-Framework. Original DMIS requirements and new requirements associated with the DM-Framework are being thoroughly evaluated to ensure that core functionality from DMIS is not lost when new capabilities are implemented. These requirements will be used to evaluate potential COTS, GOTS and open source components of the DM-Framework as they are acquired and implemented. The Initial Operating Capability (IOC) requirements identified in this document form a base line expected to be operational in Fall 2009. All additional requirements identified are being evaluated for future functionality development to be scheduled after the Fall 2009 delivery of the IOC.

3 Overview

The DM-Framework will be a container for user capability designed to be a preferred point of entry for access to emergency management software application functionality. The DM-Framework along with DM-OPEN will provide a federated platform that will allow for the loose coupling of different systems. This will also allow organizations to leverage existing solutions side-by-side and add additional products that can supplement and/or compliment their current systems. The base framework functionality will deliver a set of common services with enterprise reach. DM-Framework Initial Operating Capability (IOC) will include:

- Incident Planning and Response
- Reference Material for Operational Effectiveness
- Resource Request and Tracking
- COG and Operator Administration
- Common Alerting Protocol (CAP) and Non-Weather Emergency Messages

(NWEM) (National Weather Service (NWS) HazCollect) Alerts

- National Map for Incidents and Alerts
- Create and View EDXL-DE wrapped content
- Weather Forecast Data, Doppler Radar, and Alerts
- Secure Instant Messaging
- Operator Interface Functionality
- Journal Recording
- Core System and Security Functionality
- Shared Interactive Maps integrated with Incident Planning and Response

4 Requirements Identified by Component

The various DM-Framework capabilities will be implemented as separate components within the framework. This section identifies each component and lists the specific requirements associated with each component. All requirements designated as IOC: True are currently being evaluated for Fall 2009 release.

4.1 Provide Incident Planning and Response Capabilities

Incident Planning and Response is a fundamental capability of the DM-Framework. This capability covers the ability for emergency management personnel to plan for and respond to emergencies of all kinds. Requirements identified for this capability are usually found in comprehensive emergency management applications, but some aspects may also be found in smaller, more targeted applications. Projected requirements for Incident Planning and Response Capabilities are identified in the following table:

#	Requirements
4.1.1	IOC: True The DM-Framework Operator shall not modify an Archived Incident Record.
4.1.2	IOC: True The DM-Framework shall provide Authorized Operators with the ability to view incident information that has been posted to the Operator's COG.
4.1.3	IOC: True The DM-Framework shall provide Authorized Operators with the ability to capture current Weather Information as an On Scene Weather Observation.
4.1.4	IOC: True The DM-Framework shall provide Authorized Operators with the ability to link artifacts to the incident record.

#	Requirements
4.1.5	IOC: True The DM-Framework shall provide Authorized Operators with the ability to post an incident to selected COGs.
4.1.6	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update Medical Facility Information.
4.1.7	IOC: True The DM-Framework shall provide Authorized Operators with the ability to plot incident information on a map.
4.1.8	IOC: True The DM-Framework shall provide Authorized Operators with the ability to select contacts and site addresses from a stored list.
4.1.9	IOC: True The DM-Framework shall provide Authorized Operators with the ability to access an Incident Summary Listing that provides a list of incidents that the user has received.
4.1.10	IOC: True The DM-Framework shall provide Authorized Operators with the ability to update incident information that has been plotted on a map.
4.1.11	IOC: True Once the DM-Framework archives an Incident Record, it shall not be returned to the active status.
4.1.12	IOC: True The DM-Framework shall provide Authorized Operators with the ability to view multiple incidents and/or multiple facets of the same incident simultaneously.
4.1.13	IOC: True The DM-Framework Web Tools Operator shall be able to select any combination of posted Incidents and Alerts at the National or COG level also including working versions of Incidents.
4.1.14	IOC: True The DM-Framework Web Tools Operator shall have the ability to view Incidents that have been posted by, are being worked in, or are posted to their Organization and selected for display on My Map.
4.1.15	IOC: True The DM-Framework Web Tools Operator shall have the ability to view all Incidents that have been plotted on the National Summary Map (NSM).
4.1.16	IOC: True The DM-Framework Web Tools Authorized Operators shall have the option to remove National Incidents, created by their Organization, from the NSM.
4.1.17	IOC: True The DM-Framework Web Tools System captioning functionality shall provide Alert and Incident summary information.

#	Requirements
4.1.18	<p>IOC: True</p> <p>The DM-Framework Web Tools System shall display a posted alert on the map based on one or more sets of Area Block data. If multiple pieces of data are provided, they will all be plotted...</p>
4.1.19	<p>IOC: True</p> <p>When the owning COG archives a posted incident record, the DM-Framework shall establish the incident as archived for all COGs</p>
4.1.20	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to transfer ownership of an incident to another COG.</p>
4.1.21	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to generate ICS reports.</p>
4.1.22	<p>IOC: True</p> <p>The DM-Framework shall Archive any Attachments and Resource Requests/Replies along with the Incident Record during the archival process.</p>
4.1.23	<p>IOC: True</p> <p>The DM-Framework shall display all archived Incident Records on an Archived Incident List.</p>
4.1.24	<p>IOC: True</p> <p>The DM-Framework shall provide all operators with the ability to directly retrieve and view archived incidents.</p>
4.1.25	<p>IOC: True</p> <p>Stakeholder requests a map-centric environment that supports the two main functions of an EOC...</p>
4.1.26	<p>IOC: True</p> <p>DM-Framework shall provide the ability to create an Alert from within an open incident record.</p>
4.1.27	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to enter and update Infrastructure Information impacted by an incident.</p>
4.1.28	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to enter and update Contact Information associated with the Incident and related Resource Records.</p>
4.1.29	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to archive an incident that is no longer active.</p>
4.1.30	<p>IOC: True</p> <p>The DM-Framework shall provide Authorized Operators with the ability to enter and update incident Site information.</p>

#	Requirements
4.1.31	IOC: True The DM-Framework Web Tools System shall provide captioning capability to distinguish alerts plotted on the map.
4.1.32	IOC: True The DM-Framework shall provide Authorized Operators with the ability to obtain Weather Forecast Information.
4.1.33	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update Casualty Information.
4.1.34	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update On Scene Weather Information.
4.1.35	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update Population Action Information.
4.1.36	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update Property Damage Information.
4.1.37	IOC: True The DM-Framework shall provide Authorized Operators with the ability to view, enter and update core incident information.
4.1.38	IOC: True The DM-Framework shall provide Authorized Operators with the capability to post weather observation associated with an incident.
4.1.39	IOC: True DM-Framework shall support the ability to allow the COG to which an incident has been posted to archive the incident record on their view, without affecting the active incident list of the owning COG.
4.1.40	IOC: True The DM-Framework shall provide Authorized Operators with the ability to enter and update incident CBRNE Agent Information.
4.1.41	IOC: True The DM-Framework Web Tools System shall have a command item that provides additional options to allow a user to set an area of interest to set initial map display.
4.1.42	IOC: True The DM-Framework Web Tools System shall provide a command item to view the linked information.
4.1.43	IOC: True The DM-Framework Web Tools System shall provide a mechanism to inform Operators of all new and unexpired alerts posted to the NSM.

#	Requirements
4.1.44	IOC: True The DM-Framework Web Tools System shall provide a visual indicator when the alert category is 'Actual'.
4.1.45	IOC: True The DM-Framework shall provide the Operator with the ability to generate archived incident reports.
4.1.46	IOC: True The DM-Framework shall provide only authorized Operators with the ability to archive incidents.
4.1.47	IOC: True The DM-Framework Web Tools System shall provide Authorized Operators the ability to select incidents (working incidents from Operator's COG, incidents posted to, or incidents posted by the Operator's COG) for display on the map.
4.1.48	IOC: True Once the DM-Framework archives the most recent version or the working version of an Incident Record, all previous versions of the incident record are also archived.
4.1.49	IOC: True The DM-Framework Web Tools System shall provide captioning capability to distinguish incidents plotted on the map.
4.1.50	IOC: True The DM-Framework Web Tools System shall provide the Operator with the ability to select the desired linked information from a list associated with the incident, alert, or other record being viewed.
4.1.51	IOC: True The DM-Framework Web Tools System shall provide a visual indicator when the incident category is 'Actual'.
4.1.52	IOC: True Stakeholder requests ability to post situation information and requests for assistance to a central location as a means of expediting secondary response.
4.1.53	IOC: False Stakeholder requests ability to provide Second Responder access to GIS site surveys of cities / municipalities to be used for pre-deployment planning.
4.1.54	IOC: True Stakeholder requests ability to provide a methodology to pass current operational information to first responders.
4.1.55	IOC: True Stakeholder requests ability to provide a reach back capability to links and points of contact information to allow first responders access to experts not physically located at the site, i.e., USAMRIID, USAMRICD, SBCCOM, etc.

#	Requirements
4.1.56	IOC: True Stakeholder requests ability to provide a standard template for information exchange between all organizations/agencies at the local community, state and federal levels.
4.1.57	IOC: True Stakeholder requests ability to provide a map-centric environment that supports the two main functions of an EOC: Compile and disseminate the common operational picture (situation awareness). Compile, disseminate and coordinate resources.
4.1.58	IOC: True Stakeholder requests ability to provide access to staging, storage, response facility, and utility requirements from second responders.
4.1.59	IOC: True Stakeholder requests ability to provide access to tactical information to incoming support responders, to include: (1) hot zones (2) local access to various resource databases (3) safe zones (4) points of contact (5) mission tracking.
4.1.60	IOC: True Stakeholder requests ability to provide access to an incident in progress to include "real time" picture of resources, incident, and facilities.
4.1.61	IOC: False DM-Framework shall support automated notification to all posted COGs when the owning COG archives a posted Incident Record.
4.1.62	IOC: True Stakeholder requests ability to provide guidance that facilitates the repackaging and deployment of incoming supplies and equipment.
4.1.63	IOC: False Stakeholder requests ability to provide recommendations for stabilizing the scene and situation while waiting for assistance.

4.2 Provide Shared Interactive Maps

Interactive mapping is a fundamental need for shared situation reporting and planning. This capability allows operators at multiple locations to share maps and map mark-up in real time. Map markup includes both symbology and information associated with map symbols. The shared interactive maps will include the use of OGC Standard Web Map Services. Projected requirements for Shared Interactive Maps are identified in the following table:

#	Requirements
4.2.1	IOC: True DM-Framework shall display data attributes associated with items that symbols displayed on the map represent.
4.2.2	IOC: True Stakeholder requests a map-centric environment that supports the two main functions of an EOC...

#	Requirements
4.2.3	IOC: True DM-Framework shall provide the ability to display geographically referenced data on a map.
4.2.4	IOC: True DM-Framework shall provide the ability to create and view multiple layers associated with a displayed map.
4.2.5	IOC: True DM-Framework shall provide the operator with the ability to identify locations (i.e. street addresses, lat/long, etc.) within the map display.
4.2.6	IOC: True DM-Framework shall provide the operator with the ability use map mark-up functions on the map display.
4.2.7	IOC: True DM-Framework shall provide the operator with the ability to modify the transparency of a Web Map Service (WMS) layer from (0-100%).
4.2.8	IOC: True DM-Framework shall provide the operator with the ability to refresh the map display.
4.2.9	IOC: True The DM-Framework shall provide Authorized Operators with the ability to plot incident information on a map.
4.2.10	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message types to be selected for display on NSM.
4.2.11	IOC: True Alerts of type Acknowledgements "ACK" should not impact the map view in any way.
4.2.12	IOC: True Stakeholder requests ability to describe an incident and share that description with those who have need for a common operations picture/situation awareness.
4.2.13	IOC: True DM-Framework shall provide the ability to search/request for geographically referenced information by specifying an area of interest on a map.
4.2.14	IOC: True DM-Framework shall provide the ability to select an alert area on a map and the polygon or circle coordinates will be populated within the Area Element for Polygon or Circle coordinates.
4.2.15	IOC: True All DM-Framework maps shall use the map symbology created by the FGDC Homeland Security Working Group (http://www.fgdc.gov/HSWG/).

#	Requirements
4.2.16	IOC: True DM-Framework shall provide the operator with a configurable pick list for frequently accessed web map service layers.
4.2.17	IOC: True DM-Framework shall provide the operator with selected mapping functions to navigate the map display.
4.2.18	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message scope types to be selected for display on NSM.
4.2.19	IOC: True The DM-Framework Web Tools System shall provide Authorized Operators the ability to select incidents (working incidents from Operator's COG, incidents posted to, or incidents posted by the Operator's COG) for display on the map.
4.2.20	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message statuses to be selected for display on NSM.
4.2.21	IOC: True The DM-Framework Web Tools System shall allow All Working and Posted Incident categories to be selected for display on NSM.
4.2.22	IOC: True The valid types of alerts to be plotted on the map are: 'Alert', 'Update' and 'Error'.
4.2.23	IOC: True DM-Framework shall allow multiple operators to simultaneously update the same map display.
4.2.24	IOC: True Stakeholder requests ability to provide a monitored and moderated collaborative workspace for information exchange.
4.2.25	IOC: True Stakeholder requests ability to provide GIS interoperability among GIS COTS products.
4.2.26	IOC: True Stakeholder requests ability to provide automated GIS support as a central feature of all relevant applications.
4.2.27	IOC: True Stakeholder requests ability to provide array / display of shelter resources over zoom-in/zoom-out map background.
4.2.28	IOC: True Stakeholder requests ability to provide a means of receiving on-scene imagery from sources external to the system and distributing them to selected authorized operators within the system environment.

#	Requirements
4.2.29	IOC: True Stakeholder requests ability to provide access to GIS tools with download and distributed use capabilities to include pre-plans and response resources over mapping background.
4.2.30	IOC: True Stakeholder requests ability to provide access to shared GIS resources including current GIS datasets.
4.2.31	IOC: False DM-Framework shall provide the operator with the ability to save the map display/image as an image file to their local computer.
4.2.32	IOC: True Stakeholder requests ability to provide a GIS capability that displays and supports relevant emergency response information.
4.2.33	IOC: True Stakeholder requests ability to provide a map-centric environment that supports the two main functions of an EOC: Compile and disseminate the common operational picture (situation awareness). Compile, disseminate and coordinate resources.

4.3 Provide Resource Request and Tracking

Requesting and providing resources in an emergency is a vital component of any Emergency Management System. This capability provides a DM-Framework operator with the ability to request emergency resources (equipment, supplies, people, and teams in any combination) and reply to those requests. It also provides the ability to report and request status of deployed resources. It will use data standards from the Emergency Data Exchange Language (EDXL) Resource Messaging (RM) Specification for exchanging resource information between exchange partners. Projected requirements for Resource Request and Tracking are identified in the following table:

#	Requirements
4.3.1	IOC: True The DM-Framework shall provide the ability for Authorized Operators to view all Resource Requests and Line Item information created or received by their COG.
4.3.2	IOC: True The DM-Framework shall group Resource Requests by status.
4.3.3	IOC: True The DM-Framework shall provide Authorized Operators with the ability to choose receiving COGs for each Resource Request.
4.3.4	IOC: True The DM-Framework shall provide Authorized Operators with the ability to create, update, and view detailed Line Items associated with the general requests.
4.3.5	IOC: True The DM-Framework shall provide Authorized Operators with the ability to create, update, view, and send one or more Resource Requests.

#	Requirements
4.3.6	IOC: True The DM-Framework shall record and display the date and time that the Operator last updated the Resource Request or Resource Request Line Item.
4.3.7	IOC: True The DM-Framework shall reference all previously issued Resource Requests associated with an Incident Record when the Incident Record is re-posted.
4.3.8	IOC: True The DM-Framework shall transfer all Resource Requests and Replies associated with an Incident Record when the Operator transfers ownership of the Incident Record to another COG.
4.3.9	IOC: True The DM-Framework shall provide the Operator with the ability to search for a Resource Request or Reply.
4.3.10	IOC: True The DM-Framework shall enable Authorized Operators to reply to Resource Requests.
4.3.11	IOC: True The DM-Framework shall provide Authorized Operators with the ability to specify site and delivery information.
4.3.12	IOC: True The DM-Framework shall provide the Operator with the ability to provide amplifying information to the Resource Request.
4.3.13	IOC: True The DM-Framework shall provide a one-to-many relationship between a general request, line item requests, and replies.
4.3.14	IOC: True The DM-Framework shall Archive any Attachments and Resource Requests/Replies along with the Incident Record during the archival process.
4.3.15	IOC: True Stakeholder requests a map-centric environment that supports the two main functions of an EOC...
4.3.16	IOC: True The DM-Framework shall provide Authorized Operators with the ability to specify Requestor information.
4.3.17	IOC: True Stakeholder requests ability to provide a message text format and/or on-line template for requesting support from mutual aid and state resources.
4.3.18	IOC: True Stakeholder requests ability to provide a mechanism for emergency managers to readily see support resource capabilities, support request protocols, and support resource contact information.

#	Requirements
4.3.19	IOC: True Stakeholder requests ability to provide for the exchange of information necessary for the successful deployment of a support resource from its origin to its employment destination and its sustainment at the destination.
4.3.20	IOC: True Stakeholder requests ability to provide help request templates, such as situation / request for assistance template.
4.3.21	IOC: True Stakeholder requests ability to provide the qualitative, quantitative, temporal, and geographical information for resource movement and sustainment.
4.3.22	IOC: True Stakeholder requests ability to identify the location of a mobile unit over a GIS display.

4.4 Provide CAP and NWEM Alerts

Sending and receiving Alerts in an Emergency is a fundamental capability. The DM-Framework will provide the DM-Framework operator with the ability to create and send CAP 1.1 alerts to others on the DM-Network and, through connecting networks, across the nation. One specific instance of this inter-network capability is the ability to create a specially formulated Non-weather Emergency Message (NWEM) formatted CAP message to the National Weather Service for transmission to the public over NOAA radio. Projected requirements for CAP and NWEM Alerts are identified in the following table:

#	Requirements
4.4.1	IOC: True DM-Framework shall not allow an expired alert to be posted.
4.4.2	IOC: True DM-Framework shall have the ability to direct distribution of alerts to selected DM COGs.
4.4.3	IOC: True DM-Framework shall only display active alerts by default within the Alert Summary List
4.4.4	IOC: True DM-Framework shall provide a connection to DM-OPEN to exchange Common Alerting Protocol messages in accordance with the CAP 1.1 Specification.
4.4.5	IOC: True DM-Framework shall provide the ability to create an Alert from within an open incident record.
4.4.6	IOC: True DM-Framework shall provide the ability to post broadcast alert messages.
4.4.7	IOC: True The DM Framework shall provide a User Interface (EM Interface) for NWEM creation.

#	Requirements
4.4.8	IOC: True The stakeholder requests the ability to use an automated process for drafting a NWEM and converting that message into proper standard format in preparation for AWIPS dissemination.
4.4.9	IOC: True The DM Framework shall require authorization for publishing messages to the HazCollect Server.
4.4.10	IOC: True The DM Framework shall allow an EM to both create and send messages only if their COG has been authorized to send NWEM alert messages to HazCollect.
4.4.11	IOC: True DM-Framework shall have a configurable auto-archive capability.
4.4.12	IOC: True DM-Framework shall provide the ability to archive Alerts.
4.4.13	IOC: True DM-Framework shall provide the ability to select an alert area on a map and the polygon or circle coordinates will be populated within the Area Element for Polygon or Circle coordinates.
4.4.14	IOC: True DM-Framework shall provide the ability to view expired alerts.
4.4.15	IOC: True DM-Framework shall provide sent and posted date/times within the user interface.
4.4.16	IOC: True The DM-Framework Operator shall have the ability to save an alert message without posting.
4.4.17	IOC: True The DM-Framework Operator shall have the ability to view an Alert Summary List.
4.4.18	IOC: True The DM Framework shall provide the EM with the capability to create emergency messages from a data repository without a connection to the NWS.
4.4.19	IOC: True The stakeholder requests the ability to implement NWEM authoring and distribution.
4.4.20	IOC: True The DM-Framework Web Tools System shall remove from the map any Alert referenced by an Alert of type 'Cancel'.
4.4.21	IOC: True The stakeholder requests the ability to provide authentication of Emergency Manager's submitting NWEM alert messages to HazCollect.

#	Requirements
4.4.22	IOC: True The DM-Framework shall forward authored NWEMs to the All Hazards Emergency Message Collection System (HazCollect) server.
4.4.23	IOC: True Stakeholder requests ability to quickly and effectively author alerts and to provide controlled distribution of notifications and alert information to registered DMIS COGs.
4.4.24	IOC: True Stakeholder requests ability to quickly and effectively distribute Incident Records and/or Alert Records to provide controlled distribution of information to registered COGs.
4.4.25	IOC: False The DM Framework shall provide spell checking and other capabilities required to prepare an accurate, clear message.
4.4.26	IOC: False The DM Framework shall provide the EM a language choice for creating messages. (English or Spanish only).
4.4.27	IOC: True Stakeholder requests ability to deliver approved format alerts between heterogeneous systems.

4.5 Provide National Map for Incidents and Alerts

The National Map is a component of the "enterprise-wide reach" concept for the DM-Framework. Incidents and alerts determined to be of significance can be posted for inclusion on a national map that is viewable by all authorized DM-Framework operators. Projected requirements for National Map for Incidents and Alerts are identified in the following table:

#	Requirements
4.5.1	IOC: True All DM-Framework maps shall use the map symbology created by the FGDC Homeland Security Working Group (http://www.fgdc.gov/HSWG/).
4.5.2	IOC: True The DM-Framework Web Tools System shall provide a mechanism to inform Operators of all new and unexpired alerts posted to the NSM.
4.5.3	IOC: True The DM-Framework Web Tools System shall provide a visual indicator when the alert category is 'Actual'.
4.5.4	IOC: True The DM-Framework Web Tools System shall provide the Operator the ability to manually refresh NSM view of the filtered selection.

#	Requirements
4.5.5	IOC: True The DM-Framework Web Tools System shall provide the Operator the ability to view a map that contains national data in the web-based tools.
4.5.6	IOC: True The DM-Framework Web Tools System shall provide an initial unpopulated CONUS map view when no area of interest has been specified by the Operator.
4.5.7	IOC: True DM-Framework shall display data attributes associated with items that symbols displayed on the map represent.
4.5.8	IOC: True Alerts of type Acknowledgements "ACK" should not impact the map view in any way.
4.5.9	IOC: True The DM-Framework Web Tools System shall provide the Operator with the ability to select the desired linked information from a list associated with the incident, alert, or other record being viewed.
4.5.10	IOC: True DM-Framework shall provide the ability to display geographically referenced data on a map.
4.5.11	IOC: True DM-Framework shall provide the operator with a configurable pick list for frequently accessed web map service layers.
4.5.12	IOC: True The DM-Framework Web Tools System shall provide a visual indicator when the incident category is 'Actual'.
4.5.13	IOC: True The DM-Framework Web Tools System shall provide captioning capability to distinguish alerts plotted on the map.
4.5.14	IOC: True The DM-Framework Web Tools System shall provide captioning capability to distinguish incidents plotted on the map.
4.5.15	IOC: True The DM-Framework Web Tools Operator shall have the ability to view all Alerts that have been displayed on the NSM.
4.5.16	IOC: True DM-Framework shall provide the operator with selected mapping functions to navigate the map display.
4.5.17	IOC: True DM-Framework shall provide the operator with the ability to identify locations (i.e. street addresses, lat/long, etc.) within the map display.

#	Requirements
4.5.18	IOC: True DM-Framework shall provide the operator with the ability to modify the transparency of a Web Map Service (WMS) layer from (0-100%).
4.5.19	IOC: True DM-Framework shall provide the operator with the ability to refresh the map display.
4.5.20	IOC: True The DM-Framework Web Tools System shall prevent the display of any National Incidents from the NSM after a configurable amount of time.
4.5.21	IOC: True Stakeholder requests a map-centric environment that supports the two main functions of an EOC...
4.5.22	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message types to be selected for display on NSM.
4.5.23	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message scope types to be selected for display on NSM.
4.5.24	IOC: True The valid types of alerts to be plotted on the map are: 'Alert', 'Update' and 'Error'.
4.5.25	IOC: True The DM-Framework Web Tools System shall allow All Posted Alert message statuses to be selected for display on NSM.
4.5.26	IOC: True The DM-Framework Web Tools System shall allow All Working and Posted Incident categories to be selected for display on NSM.
4.5.27	IOC: True Stakeholder requests ability to provide GIS interoperability among GIS COTS products.
4.5.28	IOC: True Stakeholder requests ability to provide a GIS capability that displays and supports relevant emergency response information.
4.5.29	IOC: True Stakeholder requests ability to provide communications interoperability within and between organizations / agencies at the local, state, and federal levels.
4.5.30	IOC: False The DM-Framework Web Tools System shall prevent the display of any expired National Alerts from the NSM.
4.5.31	IOC: False DM-Framework shall provide the operator with the ability to save the map display/image as an image file to their local computer.

#	Requirements
4.5.32	IOC: True Stakeholder requests ability to identify the location of a mobile unit over a GIS display.
4.5.33	IOC: True The DM-Framework Web Tools System shall remove from the map any Alert referenced by an Alert of type 'Cancel'.
4.5.34	IOC: True Stakeholder requests ability to provide a common operating picture / situation awareness between on-scene incident command post and emergency operations centers.

4.6 Provide Journal Recording

Journal Recording allows time-stamped record keeping of events that happen during and after an incident. The DM-Framework will include a service for accomplishing journaling activity. Projected requirements for Journal Recording are identified in the following table:

#	Requirements
4.6.1	IOC: True The DM-Framework shall populate the Date and Author fields of Journal entries.
4.6.2	IOC: True The DM-Framework shall provide Authorized Operators with the ability to create and edit Journal entries.
4.6.3	IOC: True The DM-Framework shall not allow Operators to delete Journal entries.

4.7 Provide Secure Instant Messaging

An internal instant messaging capability allows secure "chat" between DM-Framework operators without the risk of using public capabilities. Projected requirements for Secure Instant Messaging are identified in the following table:

#	Requirements
4.7.1	IOC: True DM-Framework Messenger shall provide audio/visual cues when messages are received.
4.7.2	IOC: True DM-Framework Messenger shall provide search capabilities to locate specific Operators.
4.7.3	IOC: True DM-Framework Messenger shall provide the Operator, who controls the "chat" session, with the ability to invite additional Operators to the "chat" session.
4.7.4	IOC: True DM-Framework Messenger shall allow the controlling Operator to transfer control to another Operator involved in the "chat".

#	Requirements
4.7.5	IOC: True DM-Framework Messenger shall provide an indicator when an operator is entering a message.
4.7.6	IOC: True DM-Framework Messenger shall provide the ability to display a list of all Operators that have joined the "chat" session.
4.7.7	IOC: True All registered DM-Framework Operators shall have access to a secure instant messaging service.
4.7.8	IOC: True DM-Framework Messenger shall provide Operators the ability to join or refuse to join a "chat" session when invited.
4.7.9	IOC: True DM-Framework Messenger shall provide Operators the ability to save a transcript of the "chat" session.
4.7.10	IOC: True DM-Framework Messenger shall provide a display window where all Operators participating in the "chat" session can see typed messages.
4.7.11	IOC: True Stakeholder requests ability to provide alternate means of communications other than voice for managing operations.
4.7.12	IOC: True DM-Framework Messenger shall provide the Operator, who controls the "chat" session, with the ability to remove Operators from the "chat" session.
4.7.13	IOC: True DM-Framework Messenger shall establish an Operator that starts a "chat" session as the controlling Operator.

4.8 Provide Weather Forecast Data, Doppler Radar, and Alerts

A weather component will provide access to standardized weather information from within the DM-Framework for all DM-Framework operators. Projected requirements for Weather Forecast Data, Doppler Radar, and Alerts are identified in the following table:

#	Requirements
4.8.1	IOC: True The DM-Framework shall provide Authorized Operators with the capability to post weather observation associated with an incident.
4.8.2	IOC: True The DM-Framework shall provide Authorized Operators with the capability to view Weather Forecast information, radar images, and severe weather alerts based upon zip code.

#	Requirements
4.8.3	IOC: True Stakeholder requests ability to provide real time weather information dissemination throughout the response force.
4.8.4	IOC: False The DM-Framework shall provide Authorized Operators with the capability to view the most current weather forecast in a graphical format.
4.8.5	IOC: True The DM-Framework shall provide Authorized Operators with the ability to capture current Weather Information as an On Scene Weather Observation.
4.8.6	IOC: True The DM-Framework shall provide Authorized Operators with the ability to obtain Weather Forecast Information.
4.8.7	IOC: True The DM-Framework shall provide Authorized Operators with on-demand refresh capability for weather forecast data, radar images, and severe weather alerts.
4.8.8	IOC: True The DM-Framework shall provide Authorized Operators with the capability to automatically receive updated weather forecast data, severe weather alerts, and radar images...

4.9 Create and View EDXL-DE wrapped content

The EDXL Distribution Element (EDXL-DE) provides a standard wrapping construct for message content of all kinds. The DM-Framework will provide a user-interface that allows its members to create the wrapper, enclose chosen content, and post that content to DM-OPEN for retrieval by other authorized DM-Framework operators and authorized operators of DM-OPEN. On the return side, the DM-Framework operators will have the capability to retrieve and view EDXL-DE messages posted to them through DM-OPEN. Projected requirements for Create and View EDXL-DE wrapped content are identified in the following table:

#	Requirements
4.9.1	IOC: True The DM-Framework shall provide the ability for an operator to directly post EDXLDistributions to a selected set of COGs.
4.9.2	IOC: True The DM-Framework shall allow operators to query DM-OPEN for a list containing all EDXLDistributions available to the COG that are related to a particular distributionReference as defined in the distributionReference tag of an EDXLDistribution.
4.9.3	IOC: True The DM-Framework shall allow operators to retrieve a particular EDXLDistribution based upon its Identifier as long as the EDXLDistribution is available for distribution to the Operator's COG.

#	Requirements
4.9.4	IOC: True The DM-Framework shall provide a selectable listing of Value List URNs
4.9.5	IOC: True The DM-Framework shall provide the ability to query DM-OPEN for a list of URNs that are understood by DM-OPEN as useable in a Value list URN Structure.
4.9.6	IOC: True The DM-Framework shall provide the ability to query DM-OPEN with a value list URN and retrieve all allowed values in the list.
4.9.7	IOC: True The DM-Framework shall provide a mapping interface for the definition of an EDXL DE Target Area.
4.9.8	IOC: False The DM-Framework shall provide operators with the ability to retrieve a list of EDXL Message identifiers posted to the operator's COG through interest or by direct post for a time interval.
4.9.9	IOC: False The DM-Framework shall allow operators to use a Message Interest to query DM-OPEN and retrieve a Cog List of all COGs that have registered a matching or overlapping interest.
4.9.10	IOC: False The DM-Framework shall provide operators with the ability to retrieve a COG List of COGs that have retrieved a specific EDXLDistribution posted from the operator's COG with the date and time of first retrieval.
4.9.11	IOC: False The DM-Framework shall allow operators to query DM-OPEN to retrieve a list containing all EDXLDistributions available to the COG that are related to an incident identifier as defined in any IncidentID tag within an EDXLDistribution.
4.9.12	IOC: True The DM-Framework shall provide operators with the ability to display non-XML Content that includes a valid mime type tag using an existing native application that supports the mime type.
4.9.13	IOC: True The DM-Framework shall provide operators the ability to post an EDXL Distribution generally to all COGs with no specification of COG list.
4.9.14	IOC: True The DM-Framework shall provide operators with the ability to display XML Content from EDXL Distributions received, either as raw XML, or as designed when an accompanying XSLT is provided as additional Content to the EDXL Distribution.
4.9.15	IOC: True The DM-Framework shall provide operators with the ability to retrieve all EDXLDistributions posted to the operator's COG through interest or by direct post for a time interval.

#	Requirements
4.9.16	IOC: True The DM-Framework shall provide operators with the ability to retrieve the EDXLDistribution (without content) for all EDXL Messages posted to the operator's COG through interest or by direct post for a time interval.
4.9.17	IOC: True The DM-Framework shall provide operators with the ability to create EDXLDistribution wrappers for message content to be posted through the DM-OPEN interface.

4.10 Provide Operator Interface Functionality

Certain Operator Interface functionality should be ubiquitous across all services of the DM-Framework. Requirements for this operator functionality are gathered under this cross-component service. Projected requirements for Operator Interface functionality are identified in the following table:

#	Requirements
4.10.1	IOC: True DM-Framework shall provide sent and posted date/times within the user interface.
4.10.2	IOC: True The DM-Framework shall display on screen status updates during and after the retrieval process to indicate the state of operation.
4.10.3	IOC: True The DM-Framework notification process shall provide the ability for set unique audible/visual notifications based on information type.
4.10.4	IOC: True Stakeholder requests ability to provide controlled role-based access to DMI-Services system that is specific to the operator and the Collaborative Operational Group (COG) selected.
4.10.5	IOC: True Stakeholder requests ability to provide ability to click on shelter icon and see attributes of the shelter facility with contact information.
4.10.6	IOC: True Stakeholder requests ability to provide the ability to print screens for distribution to personnel without incident management application (i.e., GIS).
4.10.7	IOC: False DM-Framework shall provide the operator with the ability to save the map display/image as an image file to their local computer.
4.10.8	IOC: True Stakeholder requests ability to rapidly populate Sites (Incidents, Property Damage) and Facilities (Medical, Shelter, Weather) with data from local files as a pre-incident planning activity to save data entry time during incident response.

#	Requirements
4.10.9	IOC: True DM-Framework shall provide the ability to search/request for geographically referenced information by specifying an area of interest on a map.
4.10.10	IOC: True DM-Framework shall provide the ability to select an alert area on a map and the polygon or circle coordinates will be populated within the Area Element for Polygon or Circle coordinates.
4.10.11	IOC: True DM-Framework shall provide the operator with selected mapping functions to navigate the map display.
4.10.12	IOC: True The DM-Framework shall provide an Operator with the ability to specify the time zone in which they select to work.
4.10.13	IOC: True The DM-Framework Web Tools System shall have a command item that provides additional options to allow a user to set an area of interest to set initial map display.
4.10.14	IOC: True The DM-Framework Web Tools System shall support all commonly used web browsers.
4.10.15	IOC: True DM-Framework shall provide a visual indicator to signify the presence of a linked artifact to any record.
4.10.16	IOC: True DM-Framework shall provide the ability to select an alert area on a map and the polygon or circle coordinates will be populated within the Area Element for Polygon or Circle coordinates.
4.10.17	IOC: True DM-Framework shall provide filtering capability on any list provided.
4.10.18	IOC: True The DM-Framework notification process shall provide the ability to configure at the workstation level to 'Turn On' and 'Turn Off' audio and/or visual notifications by information type.
4.10.19	IOC: True DM-Framework shall display any list provided with a sortable column header.
4.10.20	IOC: True DM-Framework shall display an icon for each entry on the message Summary List to indicate the status of the message within the DM-Framework.
4.10.21	IOC: True DM-Framework shall display message summary lists in a tabular format complete with column headings.

#	Requirements
4.10.22	IOC: True DM-Framework shall provide a graphical user interface to create, update, and view message records.

4.11 Provide Core DM-Framework System Functionality

Certain core capabilities should be ubiquitous across all services of the DM-Framework. Requirements for these operator capabilities are gathered under this cross-component service. Projected requirements for Core DM-Framework System Functionality are identified in the following table:

#	Requirements
4.11.1	IOC: True Stakeholder requests ability to provide controlled access and verification of information containing indicators, capabilities and resources.
4.11.2	IOC: True Stakeholder requests ability to provide controlled access to DMIS capabilities based upon user needs, roles, and local procedures.
4.11.3	IOC: True Stakeholder requests ability to provide for information exchange and collaborative processing between existing emergency preparedness information systems.
4.11.4	IOC: True Stakeholder requests ability to provide access to tools that are sufficiently scalable and flexible to aid maintenance of normal operations in parallel with WMD incident response (i.e. be able to handle multiple incident records at the same time).
4.11.5	IOC: True Stakeholder requests ability to provide controlled role-based access to DMI-Services system that is specific to the operator and the Collaborative Operational Group (COG) selected.
4.11.6	IOC: True Stakeholder requests ability to provide the capability to exchange situation and status information during responses to biological attacks.
4.11.7	IOC: True Stakeholder requests ability to provide the mechanism for authorized individuals to view the alert content upon receipt of an advisory notification.
4.11.8	IOC: True Stakeholder requests ability to provide secure data transfer, to include: (1) authorized access (2) encryption (3) no public access.
4.11.9	IOC: True Stakeholder requests ability to provide information sharing at the following levels: Horizontally across all relevant response disciplines (fire, EMS, utilities, etc.); Horizontally among supporting jurisdictions in support of the invocation

#	Requirements
4.11.10	IOC: True Stakeholder requests ability to provide mechanisms for rapid dissemination of health threat information to first responders.
4.11.11	IOC: True Stakeholder requests ability to rapidly populate Sites (Incidents, Property Damage) and Facilities (Medical, Shelter, Weather) with data from local files as a pre-incident planning activity to save data entry time during incident response.
4.11.12	IOC: True Stakeholder requests capability to post situation / status reports to central location for strictly controlled access by potential secondary and tertiary responders.
4.11.13	IOC: True Stakeholder requests ability to provide for info exchange with incoming responders such as: (1) ETA (2) resources available (3) support requirements (4) transportation mode (air, ground, etc) (5) number of vehicles (6) vehicle size/weight requirements.
4.11.14	IOC: True The DM-Framework notification process shall monitor for the receipt of posted information at configurable intervals.
4.11.15	IOC: True The DM-Framework shall provide the Operator the ability to export tabular information to external software.
4.11.16	IOC: True The DM-Framework notification process by default shall set all audio and visual notifications to 'On'.
4.11.17	IOC: True The DM-Framework shall provide the Operator with the ability to print reports to a printer or to a file on the local machine.
4.11.18	IOC: True The DM-Framework shall require that User ID's must be unique within a COG.
4.11.19	IOC: True The DM-Framework will store all date/time data in either server-time with offset from GMT or in GMT.
4.11.20	IOC: True The DM-Framework Operator shall have the ability to link and unlink artifacts to an information record if the operator is a member of the originating COG.
4.11.21	IOC: True The DM-Framework Operator shall have the ability to view a list of artifacts that are linked to an information record.
4.11.22	IOC: True The DM-Framework shall enforce that in all forms, entries should be date/time stamped and track the COG and Operator that entered the information for display as needed.

#	Requirements
4.11.23	IOC: True The DM-Framework Operator shall have the ability to view artifacts that are linked to received messages.
4.11.24	IOC: True Stakeholder requests ability to be made aware that an advisory is available and conveniently view it.
4.11.25	IOC: False The DM-Framework notification process shall provide the ability to choose available audible notification.
4.11.26	IOC: False The DM-Framework Operator shall have the ability to create/update distribution lists within their COG composed of existing COGs based on retrieval of registered interests.
4.11.27	IOC: True Stakeholder requests ability to deliver approved format alerts between heterogeneous systems.
4.11.28	IOC: True Stakeholder requests ability to increase the efficiency of multi-jurisdiction communication between participants responding to a large scale or WMD event.
4.11.29	IOC: True The DM-Framework shall allow import of any recurring reference data
4.11.30	IOC: True DM-Framework shall provide the Operator with the ability to generate reports.
4.11.31	IOC: True The DM-Framework reporting functionality shall support NIMS ICS reporting requirements
4.11.32	IOC: True The DM-Framework shall provide the Operator with the ability to 'Search Report Types'.
4.11.33	IOC: True The DM-Framework Operator shall have the ability to manage distribution lists within their COG composed of existing COGs.
4.11.34	IOC: True The DM-Framework Operator shall have the ability to post information records to other COGs using distribution lists.

4.12 Provide COG and Operator Administration

COG (Collaborative Operations Group) and Operator administration concerns the management of DM COGs (the basic unit for grouping DM operators under the management of an organizational group). This functionality includes the ability to add and deactivate operators, update operator data, and manage organizational data relative to the COG. Projected requirements for COG and Operator Administration are identified in the following table:

#	Requirements
4.12.1	IOC: False The DM-Framework shall provide the ability for a COG Administrator to remove any Registered Interest (including Disinterests) from DM-OPEN that was created for the operator's COG.
4.12.2	IOC: False The DM-Framework shall provide the ability for an operator to query DM-OPEN for a list of Registered Interests registered to the Operator's COG.
4.12.3	IOC: False The DM-Framework shall provide operators the ability to register interest for their COG in receiving messages by any combination of Message Interests
4.12.4	IOC: True The DM-Framework shall provide the COG Administrator with the ability to reset operator passwords.
4.12.5	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to assign specified roles to Operators within their COG.
4.12.6	IOC: True The DM-Framework shall provide the COG Administrator with the ability to view, add, update, or delete information related to their COG's Profile.
4.12.7	IOC: True The DM-Framework shall provide the COG Administrator with the ability to modify an Operator Account status to Active or Inactive.
4.12.8	IOC: True Stakeholder requests ability to group related COGs in order to provide a mechanism for the mass distribution of Incident and/or Alert Record information.
4.12.9	IOC: True Stakeholder requests ability to have a visual representation of the distribution of DMIS COGs throughout the nation and an ability to see the contact information related to those COGs.
4.12.10	IOC: False The DM-Framework Operator shall have the ability to create/update distribution lists within their COG composed of existing COGs based on retrieval of registered interests.
4.12.11	IOC: True The DM-Framework shall provide Operators who are not COG Administrators with the ability to view information related to their COG's Profile.
4.12.12	IOC: True The DM-Framework shall provide the COG Administrator with the ability to view, add, update, or delete operator profiles.
4.12.13	IOC: True The DM-Framework shall enforce strong passwords.

#	Requirements
4.12.14	IOC: True The DM-Framework shall provide individuals with the ability to be a member of more than one COG.
4.12.15	IOC: True The DM-Framework shall provide Operators with the ability to change their own passwords.
4.12.16	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to generate administrative reports that provide Operator detail and account data.
4.12.17	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to grant administration authority to DM-Operators who are members of their COG.
4.12.18	IOC: True The DM-Framework shall provide DM-Operators with the ability to update personal information within their profile.
4.12.19	IOC: True The DM-Framework Web Tools System shall provide controlled role-based access to DM-Framework Web Based Tools.
4.12.20	IOC: True The DM-Framework shall provide only COG Administrators for an assigned COG the ability to add any Operator to their assigned COG(s).

4.13 Provide Security Functionality

Certain core security functionality should be ubiquitous across all services of the DM-Framework. Requirements for security are gathered under this cross-component service in accordance with the following references: The Federal Information Security Management Act (FISMA) of 2002, DHS 4300A Sensitive Systems Policy, National Institute of Standards and Technology's 800-14, 800-37, and 800-53 and DHS MD 11042 Safeguarding Sensitive But Unclassified (For Official Use Only) Information. Additional functional requirements for security are identified in the following table:

#	Requirements
4.13.1	IOC: False The DM-Framework Web Tools System will be available 99.9 % of the time (not including scheduled downtime).
4.13.2	IOC: False The DM-Framework will provide the ability to perform incremental daily backups and full week backups.
4.13.3	IOC: False The DM-Framework will support up to 15,000 concurrent users (with the ability to scale in the future).

#	Requirements
4.13.4	IOC: False The DM-Framework will support up to 300,000 registered users (with the ability to scale in the future).
4.13.5	IOC: True Stakeholder requests ability to provide secure data transfer, to include: (1) authorized access (2) encryption (3) no public access.
4.13.6	IOC: True The DM-Framework shall enforce strong passwords.
4.13.7	IOC: True The DM-Framework will provide the web access for administrators to generate metric reports and graphical displays for the following...
4.13.8	IOC: True The DM-Framework shall require that User ID's must be unique within a COG.
4.13.9	IOC: True The DM-Framework shall enforce that in all forms, entries should be date/time stamped and track the COG and Operator that entered the information for display as needed.
4.13.10	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to assign specified roles to Operators within their COG.
4.13.11	IOC: True The DM-Framework shall provide the COG Administrator with the ability to modify an Operator Account status to Active or Inactive.
4.13.12	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to generate administrative reports that provide Operator detail and account data.
4.13.13	IOC: True The DM-Framework shall provide only the COG Administrator with the ability to grant administration authority to DM-Operators who are members of their COG.

4.14 Provide Reference Material for Operational Effectiveness

Needed reference material in an emergency should be easily accessible within the DM-Framework pertinent to emergency planning and response. The material should be accessible using a minimum number of different access methods or channels. This component offers a single source for links to reference material of all kinds that may be needed by emergency management/responder personnel. Projected requirements for Reference Material for Operational Effectiveness are identified in the following table:

#	Requirements
4.14.1	IOC: True Stakeholder requests ability to provide "one stop shopping" for WMD counter-terrorism reference material.

#	Requirements
4.14.2	IOC: True Stakeholder requests ability to provide a set of decision aids that will assist first responders during the first 4-6 hours of an incident.
4.14.3	IOC: True Stakeholder requests ability to provide controlled access to a centralized lessons learned repository containing operational details.
4.14.4	IOC: True Stakeholder requests ability to provide controlled access to centralized threat / intelligence information (processed and filtered) to include trend analysis.
4.14.5	IOC: True Stakeholder requests ability to provide access to handbook for first responders on threats, hazards, PPE, improvised equipment possibilities, symptoms, persistency of agents and decontamination requirement.
4.14.6	IOC: True Stakeholder requests ability to provide access to WMD training resources.
4.14.7	IOC: True Stakeholder requests ability to provide access to a library containing lessons learned from first responders, CSTs, and other federal agencies.
4.14.8	IOC: True Stakeholder requests ability to provide access to current emergency operations plans and response guides.
4.14.9	IOC: True Stakeholder requests ability to provide access to major incident operations plans.
4.14.10	IOC: True Stakeholder requests ability to provide access to responder emergency support request procedures.
4.14.11	IOC: True Stakeholder requests ability to provide access to second responder information templates to determine informational, logistical, and resource needs at the incident site.
4.14.12	IOC: False Stakeholder requests ability to provide standardized training modules for areas of general terrorism and WMD awareness that are applicable to all states and local communities and are easily modified to meet state and local community specific requirements
4.14.13	IOC: False Stakeholder requests ability to provide reference information on protective equipment approved for civilian use.
4.14.14	IOC: True Stakeholder requests ability to provide immediate access to the Center for Disease Control for information concerning decontamination and cleanup.

#	Requirements
4.14.15	IOC: True Stakeholder requests ability to provide information on WMD exercises and lessons learned.