

GEOGRAPHIC INFORMATION SYSTEMS FIELD DATA COLLECTION TEAM

DESCRIPTION	The Geographic Information Systems (GIS) Field Data Collection Team is responsible for using mobile data collection devices to gather GIS data in the field prior to, during, and after an incident. This resource also supports the integration of the GIS-enabled field data into maps and situational awareness tools.		
RESOURCE CATEGORY	Geographic Info Systems and Info Technology	RESOURCE KIND	Team
OVERALL FUNCTION	<p>The GIS Field Data Collection Team:</p> <ol style="list-style-type: none"> 1. Actively collects data from the field with hardware and software, or passively collects data with other Global Positioning System (GPS) capable mobile data collection devices 2. Collects and integrates relevant GIS field data into maps and situational awareness tools for incident management personnel and decision makers to use 	COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. Discuss logistics for deploying this team, such as security, lodging, transportation, and meals prior to deployment 2. This team typically works 12 hours per shift, is self-sustainable for 72 hours, and is deployable for up to 14 days 3. Order a GIS Map Support Team to convert GIS Field Data Collection Team-collected field data into maps for situational awareness and decision making 4. The team should have internet access through a local area or wireless network

RESOURCE TYPES			TYPE 1	TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Personnel	Per Team	Minimum	8	4	Not Applicable	Not Applicable
NOTES: Not Specified						
Personnel	Per Team	Management and Oversight	Same as Type 2	1 - National Incident Management System (NIMS) Type 1 GIS Analyst	Not Applicable	Not Applicable
NOTES: Not Specified						
Personnel	Per Team	Operations and Support	Same as Type 2, PLUS: 1 - NIMS Type 2 GIS Analyst 3 - NIMS Type 1 Field Data Entry Technician	1 - NIMS Type 2 GIS Analyst 2 - NIMS Type 1 Field Data Entry Technician	Not Applicable	Not Applicable
NOTES: The requestor may increase the number of people assigned to collect data.						
Equipment	Per Team Member	Information Technology	Same as Type 2	Laptop	Not Applicable	Not Applicable
NOTES: Laptops should be workstation-grade and include GIS viewing software, production software, editing software, and analysis software.						

Superseded



RESOURCE TYPES			TYPE 1	TYPE 2	NO TYPE 3	NO TYPE 4
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Equipment	Per Team Member	Field Data Collection	Same as Type 2	Mobile data collection devices	Not Applicable	Not Applicable
			NOTES: Mobile data collection devices depend on internet connectivity. Mobile data collection device examples include tablets and smartphones with GPS capability, cameras, and the ability to communicate with GIS software and data.			
Equipment	Per Team	Storage and Distribution	Same as Type 2	1 - Server	Not Applicable	Not Applicable
			NOTES: Not Specified			
Equipment	Per Team	Transportation	Same as Type 2, PLUS: 3 - Vehicles	2 - Vehicles	Not Applicable	Not Applicable
			NOTES: Vehicles should have 4-wheel drive capable of operating in an incident area and have an inverter to power computer hardware. Team can use vehicles as workspaces if no fixed facilities or other locations exist to house team and equipment.			
Equipment	Per Team Member	Communications	Same as Type 2	1. Cell phone 2. Portable radio	Not Applicable	Not Applicable
			NOTES: Consider alternate forms of communication, such as satellite phones, based on the mission assignment and team needs.			

Superseded



COMMENTS

1. The requestor provides support to the team, such as security, fuel, and power for recharging phones, computers, and other rechargeable devices

REFERENCES

1. FEMA, NIMS 509: GIS Analyst
2. FEMA, NIMS 509: GIS Field Data Entry Technician
3. U.S. Department of Homeland Security, Homeland Security Geospatial Concept of Operations (GeoCONOPS), v. 5.0, June 2013

NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

Superseded