

GEOGRAPHIC INFORMATION SYSTEMS (GIS) 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	The GIS Field Data Collection Team: 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 is into maps and situational awareness tools for incident management personnel and decision makers to use
COMPOSITION AND ORDERING SPECIFICATIONS	1. Discuss logistics for deploying this team, such as working conditions, length of deployment, security, lodging, transportation, and meals prior to deployment 2. Order a GIS Map Support Team to convert GIS Field Data Collection Team-collected field data into maps for situational awareness and decision making 3. The team should have internet access through a local area or wireless network

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	NOTES
MINIMUM PERSONNEL PER TEAM	8	4	Not Specified
MANAGEMENT AND OVERSIGHT PERSONNEL PER TEAM	Same as Type 2	1 - National Incident Management System (NIMS) Type 1 GIS Analyst	Not Specified
SUPPORT PERSONNEL PER TEAM	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	The requestor may increase the number of people assigned to collect data.
INFORMATION TECHNOLOGY EQUIPMENT PER TEAM MEMBER	Same as Type 2	Laptop	Laptops should be workstation-grade and include GIS viewing software, production software, editing software, and analysis software.
FIELD DATA COLLECTION EQUIPMENT PER TEAM MEMBER	Same as Type 2	Mobile data collection devices	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.
STORAGE AND DISTRIBUTION EQUIPMENT PER TEAM	Same as Type 2	1 - Server	Not Specified



Resource Typing Definition for Planning
Geographic Info Systems and Info Technology

COMPONENT	TYPE 1	TYPE 2	NOTES
TRANSPORTATION EQUIPMENT PER TEAM	Same as Type 2, PLUS: 3 - Vehicles	2 - Vehicles	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.
COMMUNICATIONS EQUIPMENT PER TEAM MEMBER	Same as Type 2	1. Cell phone 2. Portable radio	Consider alternate forms of communication, such as satellite phones, based on the mission assignment and team needs.



NOTES

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

REFERENCES

1. FEMA, NIMS 509: GIS Analyst
2. FEMA, NIMS 509: GIS Field Data Entry Technician
3. FEMA, National Incident Management System (NIMS), October 2017
4. U.S. Department of Homeland Security, Homeland Security Geospatial Concept of Operations (GeoCONOPS), v. 5.0, June 2013