



Public Safety GIS Resource Typing Definition Version 1.0 - 2015

GEOGRAPHIC INFORMATION SYSTEMS (GIS) MAP SUPPORT TEAM

DESCRIPTION	The GIS Map Support Team is responsible for the production of GIS-based computer maps which are used for decision making, navigation, incident assessment, and threat & hazard identification.		
RESOURCE CATEGORY	Geographic Information Systems and Information Technology	RESOURCE KIND	Team with an equipment component.
OVERALL FUNCTION	<p>The team:</p> <ol style="list-style-type: none"> 1. Supports the development of map settings and map applications for the field. 2. Supports GIS hardware and software used in the field, at the command post, and in Emergency Operations Centers. 3. Edits connected and disconnected data. 4. Ensures decision makers have access to and can use location-based information for enhanced situational awareness and decision making. 	COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. The requestor must provide information on the type and size of incident when ordering the resource. 2. Logistics for deploying this team, such as security, lodging, transportation, meals, etc., must be discussed prior to deployment of this resource. 3. Teams can work up to 12 hours per shift, are self-sustaining for 72 hours, and deployable for up to 14 days. 4. The Type 3 GIS Map Support Team is intended for maximum mobilization in support of existing infrastructure. 5. The Type 2 and Type 1 GIS Map Support Teams are intended to deploy complete with printing resources when existing printing infrastructure is not available. 6. The Type 4 GIS Map Support Team is intended for virtual and at-a-distance mutual aid.

RESOURCE TYPES			TYPE 1	TYPE 2	TYPE 3	TYPE 4 (VIRTUAL)
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Personnel	Per team	Total	13	7	3	3
NOTES: Not Specified						
Personnel	Per team	Management and oversight	Same as Type 3 PLUS: 1 - Type 1 GIS Supervisor 1 - Imagery Manager	Same as Type 3	Same as Type 4	1 - Type 1 GIS Team Leader
NOTES: Not Specified						
Personnel	Per team	Operations and Support	Same as Type 3 PLUS: 1 - GIS Developer 1 - Information Technology (IT) Technician 1 - GIS Database Administrator	Same as Type 2 PLUS: 1 - Imagery Specialist 1 - Type 1 GIS Analyst 1 - Type 2 GIS Analyst 1 - Type 1 GIS Technician	Same as Type 4	1 - Type 1 GIS Analyst 1 - Type 2 GIS Analyst
NOTES: Not Specified						



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RESOURCE TYPES			TYPE 1	TYPE 2	TYPE 3	TYPE 4 (VIRTUAL)
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Equipment	Per team	Information Technology	Same as Type 3 PLUS: 5 - Laptops	Same as Type 3	3 - Laptops 1 - Server	3 - Laptops or Desktops 1 - Server
			NOTES: These are workstation grade laptop computers, and should have internet access through either a local area or wireless network. Laptops and/or desktops should be enabled with GIS viewing software, production software, editing software, and analysis software. The server is the ability to produce map services through the internet, such as web mapping capabilities through cloud hosting or a physical GIS server.			
Equipment	Per team	Supporting Information Technology	Same as Type 3 PLUS: 5 - Mobile Data Devices (total of 12 devices)	Same as Type 3	7 - Mobile Data Devices	Not Applicable
			NOTES: These are mobile data devices are dependent on internet connectivity. Mobile data device examples include tablets and smartphones, with Global Positioning System (GPS) capability and cameras.			
Equipment	Per team	Printing	Same as Type 2 PLUS: 1 - 42 inch (in.) plotter 1 - high speed (36 ppm or faster) color printer with 11 x 17 capability	1 - 42 in. plotter 2 - high speed (36 ppm or faster) color printers with 11 x 17 capability Assorted replacement part for plotters and printers	Not Required	Not Applicable
			NOTES: Not Specified			
Supplies	Per team	Paper Quantity	Same as Type 2 PLUS: 20 - reams, 8.5 x 11 5 - reams, 11 x 17 5 - reams, 8.5 x 14 10 - rolls, 24 in. 10 - rolls, 42 in.	80 - reams, 8.5 x 11 20 - reams, 11 x 17 20 - reams, 8.5 x 14 40 - rolls, 24 inch (in.) 40 - rolls, 42 in.	Not Required	Not Applicable
			NOTES: Paper quantity represents a seven day paper supply.			
Vehicle	Per team	Transportation	Same as Type 3 PLUS: 1 - vehicles (total of 4 vehicles)	Same as Type 3 PLUS: 1 - vehicles (total of 3 vehicles)	2 - vehicles	Not Applicable
			NOTES: Vehicles must have 4 wheel drive, be drivable and capable of operation in the emergency or incident area, and be equipped with an inverter to power computer hardware. Vehicles can be used as workspaces if no fixed facilities or other locations exist to house team and equipment.			



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RESOURCE TYPES			TYPE 1	TYPE 2	TYPE 3	TYPE 4 (VIRTUAL)
COMPONENT	METRIC/ MEASURE	CAPABILITY				
Equipment	Per team	Communications	Same as Type 3	Same as Type 3	Cell phones Portable radios Satellite phone	Not Applicable
NOTES: Not Specified						

COMMENTS

1. The requestor provides support to the team such as security, fuel, and power for recharging phones, computers, and other rechargeable devices.
2. The team can be used in conjunction with other resources to enhance the overall capability.
3. Data depends on the incident type, scope of incident, and data available. Additional information on data types is found in the Homeland Security Geospatial Concept of Operations.

REFERENCES

1. U.S. Department of Homeland Security, Homeland Security Geospatial Concept of Operations (GeoCONOPS), v. 5.0, June 2013

NOTE

None