



MARITIME COMMAND AND CONTROL (MC2)
Global – Theater Security Cooperative Management Information System

**SYSTEM REQUIREMENTS SPECIFICATION -
REQUIREMENTS TRACEABILITY MATRIX
(SRS-RTM)**

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1. INTRODUCTION

1.1 PURPOSE

The Global – Theater Security Cooperative Management Information System (G-TSCMIS) System Requirements Specification - Requirements Traceability Matrix (SRS-RTM) is an artifact which includes decomposed functional requirements derived from G-TSCMIS Capability Definition Package (CDP) dated 25Feb2010, as well as architectural requirements derived from Joint C2 Architecture V2.0. The SRS-RTM then allocates these requirements to releases as appropriate to reflect G-TSCMIS Community of Interest (COI) priorities as well as programmatic constraints (budget etc.).

In this version, the G-TSCMIS SRS-RTM is updated from version 1-3-4 to V1-3-5 in both the functional and allocated baselines. For Release 1 and 2, SRS-RTM version 1-3-5 matches exactly the SRS-RTM which has been placed on contract as part of P0001, which is, for contractual purposes, numbered as V1-3-3a. For releases 3-5, SRS-RTM V1-3-5 matches exactly the SRS-RTM version 1-3-4 which is currently the baseline in CMPPro as there is not yet any basis for any further change for R3-5. The format and content for the information reflected in R3-5 will be updated in a future version.

1.2 SCOPE

The scope of this document is approval of update to G-TSCMIS SRS-RTM V1-3-5.



***APPENDIX A* SRS-RTM MATRIX**

Next 22 pages.

Draft Allocated Baseline (draft allocation of requirements to Architecture Components)		G-TSCMIS SRS View			Planned Release					Codes for entries in Release columns: I = Initial Capability U = update as necessary to stay aligned with other requirements F = final Capability X= always required Note: Aggregate of entries for Release 2 must result in ability to replace current TSCMIS as well as include specific new capabilities
Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement	Trace Element	R1	R2	R3	R4	R5	Amplification
		Requirement Identifier	G-TSCMIS Functional Requirements	Trace Element						
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-001	G-TSCMIS shall comply with DoD Information Assurance directives, policies, and instructions.	CDP 11.1	x		x	x	x	
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-001.1	G-TSCMIS shall implement IA controls and procedures in compliance with DoDI 8500.2 specifically as required in Joint C2 Architecture-driven requirements A088-A130.	CDP 11.1	x		x	x	x	
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-002	G-TSCMIS shall protect and defend shared information/resources by ensuring availability, integrity, authentication, confidentiality, and non-repudiation.	CDP 11.2	x		x	x	x	
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-002.1	G-TSCMIS shall protect and defend shared information/resources through the implementation of controls in the following IA categories outlined in DODI 8500.2: Security Design and Configuration, Identification and Authentication, Enclave and Computing Environment, Enclave Boundary Defense, Physical and Environment, Personnel, Continuity, Vulnerability and Incident Management	CDP 11.2	x		x	x	x	
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-002.2	G-TSCMIS shall protect and defend shared information/resources through the implementation of controls outlined in DISA Security Technical Implementation Guides for the applicable technology components.	CDP 11.2	x		x	x	x	
1.1.2.5	Security Services	GTSCMIS-FUNCREQ-002.3	G-TSCMIS shall protect and defend shared information/resources through the implementation of controls outlined in The Application Development Security Technical Implementation Guide	CDP 11.2	x		x	x	x	
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-003	G-TSCMIS shall provide an access control methodology (ABAC) based on assignment of individual attributes, and/or the aggregation of any number of existing or additional attributes, to resources and identities; enabling tailored access control to information/resources.	CDP 11.3 MOE/MOP 3.15	x		F			ABAC as defined in the Joint C2 Architecture is not implied in this requirement. ABAC requirement is addressed in FUNCREQ-006 and in architecture requirements
1.1.2.5	Security Services	G-TSCMIS-FUNCREQ-003.1	G-TSCMIS shall allow an authorized user to manage user account attributes.	CDP 11.3 MOE/MOP 3.1.5	x		X	X	X	
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-004	G-TSCMIS shall provide the capability to track all user actions (e.g., access requests, create, read, update, delete)	CDP 11.4	x	x	U	U	F	Update as user actions are added
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-004.1	G-TSCMIS shall provide auditing capability as required by DoDI 8500.2 for both required events to audit (e.g., ECAT-2, "Audit Trail Monitoring, Analysis, and Reporting") and what data to record (e.g., ECAR-3, "Audit Record Content").	CDP 11.4	x		x	x	x	
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-004.2	G-TSCMIS shall expose auditing data as a service	CDP 11.4		x	F			
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-004.3	G-TSCMIS shall provide an auditing capability that logs sufficient detail to trace specific actions to a user.	CDP 11.4	x		U	U	F	Will be updated as user actions are added
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-005	G-TSCMIS shall provide the capability to prevent unattributed modification of information/resources.	CDP 11.5	x		F			"Unattributed" = "Not attributed to a source, creator, or possessor" *(American Heritage® Dictionary of the English Language, Fourth Edition copyright ©2000)
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-006	G-TSCMIS shall provide Attribute-Based Access Control (ABAC) to provide user authentication and identify associated permissions for information/resource access. [1] Attribute-Based Access Control (ABAC) is an access authorization policy model that allows the system to take all, or any subset of, attributes into consideration when vetting a request for access to the system. The ABAC approach does not require specific role definitions; instead, policies are based on binary conditions associated with the attributes in an individual's profiles, the system resource constraints, and environmental conditions (such as threat levels, network conditions, network security classifications, etc.).	CDP 11.6			I	U	F	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-006.1	G-TSCMIS shall provide ABAC implementation for read-access (R) to G-TSCMIS information	CDP 11.6				F		
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-006.2	G-TSCMIS shall provide ABAC implementation for Create, Update and Delete (C_UD) G-TSCMIS functions	CDP 11.6					F	
1.1.2.5.1	Authentication	GTSCMIS-FUNCREQ-007	G-TSCMIS shall provide the capability for a Single Sign-On (SSO) for access to multiple sources of data.	CDP 11.7				F		
1.1.2.5.1	Authentication	GTSCMIS-FUNCREQ-007.1	G-TSCMIS shall provide a Single-Sign-On (SSO) capability for end-users to access information and applications internal to G-TSCMIS	CDP 11.7	x	x				Using JC2 CUI SSO capability unless otherwise approved by PCO
1.1.2.5.1	Authentication	GTSCMIS-FUNCREQ-007.2	G-TSCMIS shall provide a Single-Sign-On (SSO) capability for end-users to access required applications and information external to G-TSCMIS.	CDP 11.7				F		
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-008	G-TSCMIS shall provide an embedded, 24-hour available, online help capability (e.g., intuitive and contextual-based help menus, self-service knowledge repository, and human-interactive help desks) supporting 24/7 education and training of units and individuals dispersed temporally and geographically.	CDP 11.8	x		U	U	F	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-008.1	G-TSCMIS shall provide Key word-based help	CDP 11.8			F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-008.2	G-TSCMIS shall provide Tool tips which are directly accessible via application GUI and fully describe the functionality each element of the application utilized by the user	CDP 11.8	x		U	U	F	evolve to address new functions in each release
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-008.3	G-TSCMIS shall provide Self-service knowledge repository which is linked to relevant elements of the application and also searchable by the user.	CDP 11.8				F		
Not in WBS	Not in WBS	GTSCMIS-FUNCREQ-008.4	G-TSCMIS shall provide Human-interactive help desks available 8 hours / day, 5 days a week (8x5).	CDP 11.8			x	x	x	govt function
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-009	G-TSCMIS shall provide the capability to develop standardized and easily understood course materials to deliver training to the warfighter on a variety of platforms operating in diverse environments (classroom to work center) with the same look and feel whether conducting classroom, web-based, or computer-based training.	CDP 11.9	x		U	U	F	materials updated with each release to reflect additional capabilities of that release
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-009.1	All G-TSCMIS training capabilities shall be web-based to support the consistent utilization in all training environments (classroom, distance learning)	CDP 11.9	x		U	U	F	materials updated with each release to reflect additional capabilities of that release
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-009.2	G-TSCMIS training capabilities shall be able to export to standard office automation formats for use offline.	CDP 11.9	x		U	U	F	materials updated with each release to reflect additional capabilities of that release
1.1.2.3	Presentation Services	GTSCMIS-FUNCREQ-0010	G-TSCMIS shall provide the capability to develop standardized and easily understood course materials to deliver training to the warfighter that meets Advanced Distributed Learning Sharable Content Object Reference Model (SCORM) standards.	CDP 11.10	x	x	U	U	F	
1.1.2.3	Presentation Services	GTSCMIS-FUNCREQ-0011	G-TSCMIS Sharable Content Object Reference Model (SCORM)-conformant products will be registered on the Advanced Distributed Learning-Registry (ADL-R) to support rapid search, discovery, retrieval and re-use.	CDP 11.11			U	U	F	govt role
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012	G-TSCMIS shall provide the capability to manage (Create, Read, Update, Delete) Security Cooperation (SC) event data: Event Title, Identifier Field, Fiscal Years, US Only Event, Event Sub Types, Engagement categories, Points of Contact/Office of Primary Responsibility (OPR), Key Organization Data, Event Status, Event Execution Dates, Classification/Releasability, Remarks, Description, Additional Comments, Military Engagement Themes, Event Series, Locations, Participating Country(ies), Participating US Units, Other Supporting Elements/Offices, Number of Scheduled Military/Civilian Participants, Number of Actual Military/Civilian Participants, Required Resources/Funding Resources, Theater Strategic Objectives/Country Objectives/SC Desired Effects, Event Milestones, Administrative Events, Assessments, Assets. Note: The data fields listed in this requirement statement represent current TSCMIS/ARGOS reporting criteria	CDP 11.12	x	x	U	U	F	Updates will accomplished as necessary to incorporate data model and management requirements resulting from implementation of other requirements

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.1	The G-TSCMIS core data model for a security cooperation event shall include the data elements identified in requirement CDP 11.12, and shall be compliant with the Joint C2 data architecture	CDP 11.12	x		U	U	F	Release 1 initial data model will include, at a minimum those identified in FUNCREQ 0012
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.2	G-TSCMIS shall provide a Joint-C2 compliant data service(s) to enable authorized external applications to perform CRUD operations on G-TSCMIS data in order to support creation of an extensible G-TSCMIS framework	CDP 11.12		x	U	U	F	TO ENABLE EXTERNAL APPS TO INTEGRATE USING G-TSCMIS SERVICES IN ORDER TO PERFORM SC FUNCTIONS
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.3	G-TSCMIS shall provide Joint C2-compliant presentation service(s) which invoke data services to enable user CRUD operations on G-TSCMIS data	CDP 11.12		x				
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.4	G-TSCMIS shall allow addition of values (e.g., a new country) by an authorized sysadmin user, without requiring code changes.	CDP 11.12	x		F			
1.1.2.2	Business Logic Services	GTSCMIS-FUNCREQ-0012.5	G-TSCMIS shall define and implement an enforcement policy to ensure each Security Cooperation (SC) Event Data element contains correct information.	CDP 11.12	x		U	U	F	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.6	G-TSCMIS shall provide a simplified mechanism for input of SC Event data associated with the execution phase (e.g., location and status data of SC units) during the execution phase.	CDP 11.12	x		U	U	F	Initial = manual (through user interface)
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.6.1	G-TSCMIS shall provide a browser-based manual user mechanism for input of location data of SC units during execution.	CDP 11.12		x				
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.6.2	G-TSCMIS shall provide an automated mechanism for input of location and status data of SC units during execution using formatted e-mail which contains unit location data/status.	CDP 11.12			I	U	F	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.6.3	G-TSCMIS shall provide an automated mechanism for input of location and status data of SC units during execution using interface to system which contains unit location data/status.	CDP 11.12				I	F	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0012.7	G-TSCMIS shall provide the capability for a user to save work-in-progress, even when all required data entry fields have not been completed.		x		X	X	X	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0013	G-TSCMIS shall provide the capability for authorized users to Create, Read, Update and Delete (CRUD) SC event reporting criteria in addition to that provided by G-TSCMIS (extensions to the G-TSCMIS core data model).	CDP 11.13	x			F		Changes during R1 and R2 made using CR process
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0013.1	The G-TSCMIS data model design shall support extension and expansion from the core data model in order to support creation of additional SC Event reporting criteria.	CDP 11.13		x				
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0013.2	G-TSCMIS shall provide the capability for authorized SC sysadmin users to manage (i.e., CRUD) the creation and modification of additional SC Event reporting criteria without requirement for code changes.	CDP 11.13		x				
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0013.3	G-TSCMIS shall provide the capability for authorized SC end-users to manage (i.e., CRUD) the creation and modification of additional SC Event reporting criteria.	CDP 11.13				F		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0013.4	G-TSCMIS tools used for assessing/reporting security cooperation events shall be extensible to incorporate extensions to the G-TSCMIS core data model.	CDP 11.13				F		
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0014	G-TSCMIS shall provide the capability to enter SC event data via standardized data entry selections (e.g., pull-down menus, lists, tables).	CDP 11.14	x		U	U	F	See Web Portal Guidance for Style Guide, or propose equivalent style guidance for govt approval
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0014.1	G-TSCMIS shall provide capability for users to customize and store data entry items (e.g., list) based on a subset of the complete elements for that list, and have this preference linked to their profile.	CDP 11.14			F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0015	G-TSCMIS shall provide the capability to perform a validation check on an SC event to ensure that all required fields have been completed.	CDP 11.15	x		U	U	F	phased to be implemented and updated as additional fields are added R1-R4
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0016	G-TSCMIS shall provide the capability to designate certain SC event data fields as "required" data fields (which must be filled in for the event to pass the validation check).	CDP 11.16	x		U	U	F	Initial implementation equivalent to P-TSCMIS, updated as required
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0016.1	G-TSCMIS shall designate certain SC event data fields as "required" data fields (which must be filled in for the event to pass the validation check).	CDP 11.16	x		U	U	F	Same as P-TSCMIS unless approved by govt at CDR
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0016.2	G-TSCMIS shall provide the capability to by sysadmin to designate certain SC event data fields as "required" data fields (which must be filled in for the event to pass the validation check).	CDP 11.16				F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0017	G-TSCMIS shall provide the capability to embed supporting documents to an SC event record.	CDP 11.17	x			F		

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0017.1	G-TSCMIS shall enforce an ABAC policy model on a user's ability to embed documents into SC event records.	CDP 11.17				F		
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0017.2	G-TSCMIS shall enforce an ABAC policy model on access to supporting documentation embedded into SC event records.	CDP 11.17				F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0017.3	G-TSCMIS shall prevent embedding of executable content into SC event records.	CDP 11.17	x					
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0017.4	G-TSCMIS shall scan all files for malicious code prior to embedding the document in the SC event record.	CDP 11.17	x					
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0017.5	G-TSCMIS shall scan all files for malicious code prior to allowing a user to download the embedded document from the SC event record.	CDP 11.17		x				
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0018	G-TSCMIS shall provide the capability to create a symbolic relationship or link (e.g., a Uniform Resource Identifier (URI) or a Uniform Resource Locator (URL)) into an SC event record.	CDP 11.18		x	U	F		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0018.1	G-TSCMIS shall provide the capability to link an SC Event record to one or more URLs which provide amplifying information or documents associated with that event.	CDP 11.18		x				
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0018.2	G-TSCMIS shall provide a visual cue, both in tabular and geo-spatial views, that linked resources for a SC event are available, and a one-click option to select linked resources.	CDP 11.18			F			
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0018.3	G-TSCMIS will provide the capability to upload into G-TSCMIS supporting information which can be identified by URL.	CDP 11.18			F			
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0018.4	G-TSCMIS shall enforce an ABAC policy model on a user's ability to link documents into SC event records.	CDP 11.18				F		
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0018.5	G-TSCMIS shall enforce an ABAC policy model on access to supporting documentation linked into SC event records.	CDP 11.18				F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0018.6	G-TSCMIS shall prevent linking of executable content into SC event records.	CDP 11.18	x			F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0018.7	G-TSCMIS shall scan all files for malicious code prior to opening documents or resources linked to an SC event record.	CDP 11.18	x					
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0019	G-TSCMIS shall provide a capability to record in an SC event record compliance with applicable Laws, Regulations and Policies by the appropriate oversight organization for an SC activity/event.	CDP 11.19		x	U	F		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0019.1	G-TSCMIS shall provide the capability for users to perform CRUD operations regarding applicable laws, regulations and policies.	CDP 11.19			F			
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0019.2	G-TSCMIS ABAC policies will determine user authorization/ability to perform CRUD operations on the SC Event data fields containing the set of user-selectable options to include, but not limited to the following that will be available for a user supporting a given Agency, Command, Service, or Unit to select: a) applicable laws, regulations and policies b) regions c) countries d) cities Note: The intent is, for example, for a given Agency, Command, Service, or Unit to NOT have to scroll down through a list of every City in the world in order to select from the relatively small subset of cities for which they create SC Event data. The list of Cities available to select as menu items, as an example, should be customizable.	CDP 11.19				F		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0019.3	G-TSCMIS will provide the capability to associate applicable laws, regulations and policies with a Security Cooperation event.	CDP 11.19			F			
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0020	G-TSCMIS shall provide the capability to copy an already developed SC event and use it as a template for another SC event.	CDP 11.20 MOE/MOP 3.3.1	x		x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0020.1	G-TSCMIS shall provide the capability to copy/paste an SC Event template IAW the following Threshold performance requirements: a) Large Event (>30 Mbytes) < 4 minutes b) Medium Event (10-30 Mbytes) < 3 minutes c) Small Event (1-10 Mbytes) < 1 minutes	CDP 11.20 MOE/MOP 3.3.1	x		X	X	X	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0020.2	G-TSCMIS shall provide the capability to copy/paste an SC Event template IAW the following Objective performance requirements: a) Large Event (>30 Mbytes) < 2 minutes b) Medium Event (10-30 Mbytes) < 1 minute c) Small Event (1-10 Mbytes) < 20 seconds	CDP 11.20 MOE/MOP 3.3.1	x		X	X	X	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0021	G-TSCMIS shall provide the capability to copy data from an SC event record text field.	CDP 11.21 MOE/MOP 3.3.2	x		x	x		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0022	G-TSCMIS shall provide the capability to paste data into an SC event record text field.	CDP 11.22 MOE/MOP 3.3.2	x		x	x	x	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023	G-TSCMIS shall provide a capability to import data using standard formats (e.g., Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23 MOE/MOP 3.3.3		x	U	F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.1	G-TSCMIS shall provide a capability to import data from OHASIS standard formats (e.g., KML, Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23		x				
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.2	G-TSCMIS shall provide a capability to import data from JTIMS using standard formats (e.g., Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23		x				
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.3	G-TSCMIS shall provide a capability to import data from JCRM using standard formats (e.g., Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23		x				
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.4	G-TSCMIS shall provide a capability to import data from DSAMS/SAN using standard formats (e.g., Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23		x	F			
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.5	G-TSCMIS shall provide a capability to import data from other data sources as required using standard formats (e.g., Comma Separated Values (CSV), Microsoft Excel) for data input.	CDP 11.23				F		
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0023.6	G-TSCMIS shall provide the capability to import data from a standard format data file (e.g., CSV or Excel files) IAW the following Threshold performance requirements, as measured at input and output of G-TSCMIS application: a) Threshold < One (1) minute b) Objective < Ten (10) seconds	CDP 11.23 MOE/MOP 3.3.3		x	X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0024	G-TSCMIS shall provide the capability to perform a search within G-TSCMIS.	CDP 11.24		x	U	U	F	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0024.1	G-TSCMIS shall provide a capability to search the G-TSCMIS database for key words	CDP 11.24		x	F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0024.2	The search entry capability shall be available in every display	CDP 11.24		x	F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0024.3	G-TSCMIS shall provide a capability to search G-TSCMIS embedded documents for key words	CDP 11.24			F			
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0024.4	G-TSCMIS shall enforce an ABAC policy model on all search requests and results to ensure the user is authorized to query the requested data.	CDP 11.24					F	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025	G-TSCMIS shall provide the capability for a user to perform specific, custom queries using filters and selection criteria.	CDP 11.25 MOE/MOP 3.1.2 MOE/MOP 3.1.3	x					
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0025.1	G-TSCMIS shall provide the capability for menu-based queries such as "radio button" model based upon combinations of elements of the G-TSCMIS data model	CDP 11.25	x					
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025.2	Queries based upon geo-spatial information shall be enabled through the use of tools in a geospatial display which bound the area of the query	CDP 11.25	x					
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025.3	Queries based upon calendar days shall provide calendar-based options for selecting dates.	CDP 11.25	x					

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025.4	G-TSCMIS queries shall be completed IAW the following performance requirements, as measured at input and output of G-TSCMIS application: a) Threshold < 15 seconds b) Objective < 5 seconds	CDP 11.25 MOE/MOP 3.1.2	x					
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025.5	G-TSCMIS queries shall be formed (i.e., queries are correctly constructed).	CDP 11.25 MOE/MOP 3.1.3	x					
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0025.6	G-TSCMIS queries shall be completed (i.e., all data requested is extracted).	CDP 11.25 MOE/MOP 3.1.3	x					
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0026	G-TSCMIS shall provide the capability for a user to sort by any data field (e.g., by OPR or executing component).	CDP 11.26	x				F	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0027	G-TSCMIS shall provide a capability for a single point of data entry capability (to preclude the necessity for agencies/Services to establish separate accounts with each Geographic Combatant Command (GCC)).	CDP 11.27	x					THROUGH USE OF CONSOLIDATED SINGLE SYSTEM
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0028	G-TSCMIS shall provide a capability for an SC event manager to grant permission to allow multiple commands/organizations to enter their SC data against a single SC event.	CDP 11.28		x	F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0028.1	G-TSCMIS shall enable selection of commands and organizations who are granted permission to enter data into an SC event.	CDP 11.28	x		F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0028.2	G-TSCMIS shall enable users to view the list of SC events for which they are granted permission to enter data into an SC event.	CDP 11.28	x		F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0028.3	G-TSCMIS shall enable users to view the list of persons who have been granted permission to enter data associated an SC event.	CDP 11.28		x	F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0028.4	G-TSCMIS shall provide alerts to organizations and commands who have been granted permission to enter data into an SC event.	CDP 11.28		x	F			
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029	G-TSCMIS shall provide the capability to access data from Authoritative Data Sources (ADS) (e.g., Defense Security Assistance Management System [DSAMS], Security Assistance Network [SAN], Joint Training Information Management System [JTIMS], Training Management System [TMS], Joint Capability Requirements Manager [JCRM], Global Force Management tool), including authoritative SC references.	CDP 11.29		x	U	U	F	This is separate from data import requirements of CDP 11.23
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.1	G-TSCMIS will integrate with JTIMS to consume/import exercise events/data	CDP 11.29		x	U	U	F	- Initial implementation with be per exposed services that are available, updates with incorporate additional service capabilities as appropriate -Breakout between R1 and R2 functions to be determined at CDR
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.2	G-TSCMIS will integrate with OHASIS to import humanitarian assistance events/data	CDP 11.29		x	I	U	F	- contingent upon OHASIS providing Joint C2-compliant web service - Initial implementation with be per exposed services that are available, updates with incorporate additional service capabilities as appropriate
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.3	G-TSCMIS will integrate with DSAMS/SAN to consume/import FMS and Training event data	CDP 11.29			I	U	F	- contingent upon DSAMS/SAN providing Joint C2-compliant web service - Initial implementation with be per exposed services that are available, updates with incorporate additional service capabilities as appropriate
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.4	G-TSCMIS will integrate with JCRM to consume data regarding allocated resources and register G-TSCMIS SC events in order to obtain Force Tracking Number (FTN)	CDP 11.29		x			F	- Initial implementation with be per exposed services that are available, updates with incorporate additional service capabilities as appropriate -Breakout between R1 and R2 functions to be determined at CDR

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.5	G-TSCMIS will integrate with GFM-DI to consume data associated with force structure	CDP 11.29		x	U	U	F	- Initial implementation with be per exposed services that are available, updates with incorporate additional service capabilities as appropriate -Breakout between R1 and R2 functions to be determined at CDR
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.6	G-TSCMIS will integrate with additional data sources as derived from CDP tables 4, 5, 6 and emergent user requirements	CDP 11.29				I	F	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.7	G-TSCMIS access of data from external data sources shall utilize Joint-C2 compliant interfaces and security mechanisms when available	CDP 11.29		x	x	x	x	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.8	G-TSCMIS shall provide the capability to generate updates (and updated products) after the receipt of updated information from G-TSCMIS or Authoritative Data Sources (ADS).	CDP 11.29		x	X	X	X	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0029.9	G-TSCMIS shall provide the capability to provide updates (and updated products) to other entities Subscribed to G-TSCMIS after the receipt of updated information from G-TSCMIS or other Authoritative Data Sources	CDP 11.29	x		X	X	X	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0030	G-TSCMIS shall provide interoperability with existing fielded SC systems and planning systems.	CDP 11.30	x		X	X	X	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0030.1	G-TSCMIS shall be able to consume SC data and plans from existing fielded SC systems using services/interfaces currently exposed by those systems in order to functionally interoperate during transition from existing fielded systems to G-TSCMIS.	CDP 11.30	x	x				For this requirement, "Existing fielded SC systems" consist of P-TSCMIS, P-TSCMIS-based variants (ARGOS, I-TSCMIS) and SOUTHCOM TSCMIS
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0030.2	G-TSCMIS shall expose services of SC data that can be consumed by existing fielded SC systems in order to functionally interoperate during transition from existing fielded systems to G-TSCMIS.	CDP 11.30	x					For this requirement, "Existing fielded SC systems" consist of P-TSCMIS and P-TSCMIS-based variants (ARGOS, I-TSCMIS)
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0030.3	G-TSCMIS shall provide interoperability with existing fielded planning systems.	CDP 11.30				I	F	REQUIREMENTS FOR INTEROPERABILITY WITH "EXISTING FIELDED PLANNING SYSTEMS" will be determined during CONOPS and Systems Engineering efforts
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0030.4	G-TSCMIS shall provide the capability to generate updates (and updated products) after the receipt of updated information from G-TSCMIS or Authoritative Data Sources (ADS).	CDP 11.30		x	X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0030.5	G-TSCMIS shall provide the capability to provide updates (and updated products) to other entities Subscribed to G-TSCMIS after the receipt of updated information from G-TSCMIS or other Authoritative Data Sources	CDP 11.30			X	X	X	
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0031	G-TSCMIS shall provide the capability to expose SC data, in accordance with CJCSI 6212.01E[3]. [3] Link to CJCSI 6212.01E: http://www.dtic.mil/cjcs_directives/cdata/unlimit/6212_01.pdf	CDP 11.31 MOE/MOP 3.1.4	x		U	U	F	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0031.1	G-TSCMIS data services implementation will be compliant with the Joint C2 Architecture	CDP 11.31		x	X	X	X	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0031.2	G-TSCMIS data services shall be registered in the DoD MDR and NCES Service Registry as required by CJCSI 6212.01E and related DoD directives	CDP 11.31	x	x	X	X	X	Contractor registers schema and service metadata, govt registers service endpoints
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0031.3	G-TSCMIS shall respond to queries from external systems in a timely manner, IAW the following performance requirements, as measured at input and output of G-TSCMIS application: a) Threshold < 15 seconds b) Objective < 7 seconds	CDP 11.31 MOE/MOP 3.1.4	x		X	X	X	
Not in WBS	Not in WBS	GTSCMIS-FUNCREQ-0032	G-TSCMIS shall provide a capability to operate in an unclassified environment.	CDP 11.32	x		X	X	X	
Not in WBS	Not in WBS	GTSCMIS-FUNCREQ-0033	G-TSCMIS shall provide a capability to operate in a classified environment.	CDP 11.33	x		X	X	X	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034	G-TSCMIS shall provide the capability to access and transfer SC data (within security classification guidelines) across multiple security levels/domains.	CDP 11.34			I	U	F	
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.1	G-TSCMIS shall provide the capability to integrate with an approved Cross Domain Solution (CDS) in order to transfer data from NIPR to SIPR instances of G-TSCMIS.	CDP 11.34			F			
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.2	G-TSCMIS shall provide the capability to integrate with an approved Cross Domain Solution (CDS) in order to transfer files from NIPR to SIPR instances of G-TSCMIS.	CDP 11.34				F		
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.3	G-TSCMIS shall provide the capability to integrate with an approved Cross Domain Solution (CDS) in order to transfer data from SIPR to NIPR instances of G-TSCMIS.	CDP 11.34					F	
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.4	G-TSCMIS shall provide the capability to integrate with an approved Cross Domain Solution (CDS) in order to transfer files from SIPR to NIPR instances of G-TSCMIS.	CDP 11.34					F	
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.5	G-TSCMIS shall tag data resources with IC-ISM security attributes. XML schemas shall be constructed to follow a tearline pattern IAW Joint C2 Architecture requirements to ensure that data is tagged at lowest level possible, the cross-domain solution is capable of removing objects at a higher classification level, and that the CDS can still pass other data objects, aka applying the tearline pattern.	CDP 11.34	x		x	x	x	
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.6	G-TSCMIS shall provide for a manual mechanism for transfer of SC data from NIPR to SIPR using instances of G-TSCMIS which are remotely located at a support site and which synchronize that data/files to the instances of G-TSCMIS at the primary host site	CDP 11.34	x					equivalent to P-TSCMIS capability
1.1.2.5.3	Cross-Domain Solution (CDS)	GTSCMIS-FUNCREQ-0034.7	Associations and linkages between SC data and embedded or linked files will be maintained during cross-domain functions	CDP 11.34			x	x	x	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0035	G-TSCMIS shall provide the capability to display linkages between: SC activities, SC objectives, intermediate military objectives, theater strategic objectives, Guidance for Employment of the Forces (GEF) strategic end states, Theater Campaign Plan objectives, Mission Strategic Plan (MSP) by country, resources, non-DoD participants, etc.	CDP 11.35	x		U	U	F	"linkages" are established by act of creating events and entering associated data, not "linkage" as in tie to a URL
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0036	G-TSCMIS shall provide a capability for schedule management and resource allocation (e.g., Microsoft Project).	CDP 11.36			F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0036.1	Key elements of SC schedules shall be part of the core G-TSCMIS data model	CDP 11.36	x		F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0036.2	The G-TSCMIS scheduling capability shall address all phases of SC activities (planning, execution, assessment)	CDP 11.36	x		F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0036.3	G-TSCMIS shall enable allocation of materiel, organizational and financial resources to events in SC schedules.	CDP 11.36			F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0036.4	G-TSCMIS shall provide the capability to export SC schedules in standard office automation formats	CDP 11.36		x	F			
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0036.5	G-TSCMIS shall expose a service for SC event schedule data	CDP 11.36		x	F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0037	G-TSCMIS shall provide a capability for planning SC activities/events.	CDP 11.37		x	F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0037.1	G-TSCMIS planning capability shall alert the planner when steps are incomplete.	CDP 11.37		x	F			

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0037.2	G-TSCMIS planning capability will enable the user to save draft SC event/activity plans as a work-in-progress.	CDP 11.37		x	F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0037.3	G-TSCMIS shall provide the user an "inbox" capability for all draft plans for which further input is required.	CDP 11.37		x	F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0037.4	G-TSCMIS planning capability shall provide capability to tailor and document the approach for execution phase reporting of location and status.	CDP 11.37		x	U	F		
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0038	G-TSCMIS shall provide a capability to enable supporting commands/Services/agencies to build projections for future SC resource requirements (e.g., participating forces, funding).	CDP 11.38 MOE/MOP 3.1.2		x	U	F		
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0038.1	The G-TSCMIS query capability will enable supporting commands/Services/Agencies to query for planned organizational resources as function of location, time and other relevant SC attributes.	CDP 11.38		x	F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0038.1.1	The G-TSCMIS query capability shall be completed IAW the following performance requirements, as measured at input and output of G-TSCMIS application: a) Threshold < 15 seconds b) Objective < 7 seconds	CDP 11.38 MOE/MOP 3.1.2		x	X	X	X	
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0038.2	G-TSCMIS shall provide a capability to enable supporting commands/Services/agencies to build projections for future SC resource requirements (e.g., participating forces, funding) to support planned events.	CDP 11.38			F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0038.3	G-TSCMIS shall provide a capability to enable supporting commands/Services/agencies to build projections for future SC resource requirements (e.g., participating forces, funding) which enables trade-offs between options	CDP 11.38				F		
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039	G-TSCMIS shall provide a capability to conduct analysis of future opportunities for engagement and linked to Guidance for Employment of the Force (GEF) and/or CCDR goal/objectives.	CDP 11.39			I	U	F	
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.1	G-TSCMIS shall provide a capability to decompose and prioritize GEF and/or CCDR goals/objectives	CDP 11.39			F			
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.2	G-TSCMIS shall provide a capability for the end-user to plan opportunities for future engagement.	CDP 11.39			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.3	G-TSCMIS shall provide the capability to link planned opportunities for engagement to decomposed Guidance for Employment of the Force (GEF) and CCDR goals/objectives	CDP 11.39			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.4	G-TSCMIS shall provide the capability to link planned opportunities for engagement to CCDR elements (i.e., goals and objectives).	CDP 11.39			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.5	G-TSCMIS shall provide a capability for the end-user to analyze planned opportunities for engagement by providing quantitative algorithms which compares ROI for selected sets of proposed SC activities	CDP 11.39					F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0039.6	G-TSCMIS shall provide a capability for the end-user to compare planned opportunities for engagement.	CDP 11.39				F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040	G-TSCMIS shall provide the capability to notify Joint Force providers and Service resource providers of potential Requests for Forces (RFF) as SC events are planned.	CDP 11.40			I			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040.1	G-TSCMIS shall provide the capability to provide automated notification to resource providers of potential Request for Forces (RFF) by e-mail.	CDP 11.40			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040.2	G-TSCMIS shall provide the capability to provide automated notification to resource providers of potential Request for Forces (RFF) using resource planning tools that expose external interfaces/services for this purpose	CDP 11.40			I	U	F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan. Integration with ADS's as described in FUNCREQ-029, evolving with capability of ADS's
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040.3	G-TSCMIS shall provide the capability for the planner to indicate the degree-of-confidence that a given Requests for Forces (RFF) will be required.	CDP 11.40			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040.4	Notification to resource providers shall include direct link to access the plan in G-TSCMIS	CDP 11.40			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0040.5	G-TSCMIS shall provide, as part of query capability, the ability for resource provider to query for all current and proposed RFFs	CDP 11.40			I	U	F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan. aligned with phased implementation of FUNCREQ 40-2
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0041	G-TSCMIS shall provide a semi-automated notification to appropriate individuals/organizations of required SC tasks and assignments.	CDP 11.41	x		F			
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0041.1	G-TSCMIS shall provide a semi-automated e-mail notification to appropriate individuals/organizations of required SC tasks and assignments.	CDP 11.41		x	F			
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0041.2	G-TSCMIS shall enable variable periodicity of semi-automated user notification of required SC tasks and assignments.	CDP 11.41	x		F			
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0041.3	G-TSCMIS shall, at time of login, provide visual alert to individuals of outstanding required SC tasks and assignments	CDP 11.41		x	F			
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0042	G-TSCMIS shall provide users the capability to subscribe to electronic alerts when additions or changes are made in selected categories.	CDP 11.42 MOE/MOP 3.3.5		x	F			
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0042.1	G-TSCMIS shall provide user an alert when changes are made to data defined as critical by the user.	CDP 11.42 MOE/MOP 3.3.5			I	F		
1.1.2.2.3	Workflow Services	GTSCMIS-FUNCREQ-0043	G-TSCMIS shall provide a capability to guide an action officer through required steps of SC activity planning and reporting.	CDP 11.43			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0044	G-TSCMIS shall provide a capability for operators to utilize synchronous and asynchronous collaboration tools to include, but not limited to the following: a) Social Networking Services (SNS) b) Smartboards c) wikis d) chat e) e-mail	CDP 11.44 MOE/MOP 3.2.1 MOE/MOP 3.2.2			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0044.1	G-TSCMIS shall utilize external DoD enterprise services for synchronous and asynchronous collaboration	CDP 11.44			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan. It is assumed that separate collab tools will be used in conjunction with G-TSCMIS
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0044.2	G-TSCMIS shall interface with DoD collaboration capabilities using XMPP-compliant implementations	CDP 11.44				F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan.

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0044.3	G-TSCMIS shall provide asynchronous collaboration that performs IAW the following performance requirements: a) Threshold < 5 minutes b) Objective < 3 minutes	CDP 11.44 MOE/MOP 3.2.1			X	X	X	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0044.4	G-TSCMIS shall provide asynchronous collaboration that renders data that is complete and accurate.	CDP 11.44 MOE/MOP 3.2.2			X	X	X	
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0044.5	G-TSCMIS shall provide Unclassified SC Event data to mission partners on standard collaboration tools.	CDP 11.44 CDP 11.32		x	U	U	F	UPDATING TO STAY IN SYNC WITH COLLAB TOOL EVOLUTION
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0044.6	G-TSCMIS shall provide Classified SC Event data to mission partners on standard collaboration tools.	CDP 11.44 CDP 11.33		x	U	U	F	UPDATING TO STAY IN SYNC WITH COLLAB TOOL EVOLUTION
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0045	G-TSCMIS shall provide the capability to export SC data into standard MS Word-compatible documents.	CDP 11.45	x		F			
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0046	G-TSCMIS shall provide the capability to export SC data into standard format data files (e.g., CSV or Excel) files.	CDP 11.46 MOE/MOP 3.3.4	x		F			
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0046.1	G-TSCMIS shall provide the capability to export data to a standard format data file (e.g., CSV or Excel files) IAW the following performance requirements, as measured at input and output of G-TSCMIS application: a) Threshold < One (1) minute b) Objective < Ten (10) seconds	CDP 11.46 MOE/MOP 3.3.4	x		X	X	X	
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0047	G-TSCMIS shall provide a capability to build and export calendar views.	CDP 11.47		x	F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0047.1	G-TSCMIS shall provide a capability to create calendar views.			x	F			
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0047.2	G-TSCMIS shall provide a capability export calendar views.				F			
1.1.2.4	Data Services	GTSCMIS-FUNCREQ-0048	G-TSCMIS shall provide a message board/posting capability for users to make posts and discuss events to capture qualitative data that would not otherwise be apparent in the data collection and recording process.	CDP 11.48				F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0049	G-TSCMIS shall provide the capability to export SC data into standard visual presentation documents (e.g., Power Point).	CDP 11.49		x	F			
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0050	G-TSCMIS shall provide the capability to export SC data into a visualization tool.	CDP 11.50	x		F			
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0050.1	G-TSCMIS shall provide the ability to export data as KML files that can be imported by visualization tools for use in visualization tools	CDP 11.50	x					
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0050.2	G-TSCMIS shall provide the ability to export data as KML files tailored by user-specified criteria for import/use in visualization tool	CDP 11.50	x					
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051	G-TSCMIS shall provide a capability to display historical, current and future planned SC events (with amplifying data) on an interactive mapping tool (such as Google Earth) via user-defined criteria such as timeframe, objective, country, agency.	CDP 11.51 MOE/MOP 3.2.4	x		U	F		
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051.1	G-TSCMIS shall utilize NGA Geo-Spatial Visualization Enterprise Services (GVES) for mapping and geo-spatial presentation,	CDP 11.51	x					
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0051.2	G-TSCMIS shall expose Joint C2-compliant geo-spatial presentation services which enable dynamic display on compliant geo-spatial client applications based on user -defined criteria such as timeframe, objective, country, agency.	CDP 11.51	x					
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051.3	G-TSCMIS geo-spatial display shall provide support for display of symbology which differentiates between types of security cooperation activities	CDP 11.51	x					

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051.4	G-TSCMIS shall provide the capability to link map symbols with amplifying data	CDP 11.51	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051.5	G-TSCMIS shall provide indication that amplifying data for a map object is available, and shall provide ability to access amplifying data	CDP 11.51	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	G-TSCMIS-FUNCREQ-051.6	G-TSCMIS shall display geo-spatial SC data in the Joint C2 Common User Interface Map widget, and shall provide a widget for selection of criteria for information display, including region, event type, time frame, and	CDP 11.51	x	x				
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0051.7	G-TSCMIS shall provide accurate explanatory labels for each data representation created, to include, but not limited to the following: a) map legend(s) for geo-spatial data presentations b) scale representation(s) for charts (e.g., pie charts, bar charts, line charts, Gantt charts, other) c) icon and line legend(s) for graphical data representations (e.g., pie charts, bar charts, line charts, Gantt charts, other) d) axis label(s) (e.g., X - SC Event Title, Y - \$K FY11 Dollars) e) chart label(s) (e.g., SC Event by Agency for FY11) f) most current date associated with source data g) source of data, especially if not created by G-TSCMIS	CDP 11.51 MOE/MOP 3.2.4	x		X	X	X	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0052	G-TSCMIS shall provide a capability to display synchronized SC information from multiple Combatant Commands/Services/agencies.	CDP 11.52	x		F			
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0052.1	The G-TSCMIS ABAC implementation shall enable attribute-based access to display SC event information from multiple Combatant Commands/Series/Agencies	CDP 11.52			X	X	X	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0052.2	G-TSCMIS shall provide user-defined settings and filters for display of Security Cooperation data from multiple Combatant Commands/Services/Agencies in a geo-spatial display.	CDP 11.52	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0052.3	G-TSCMIS shall provide user-defined settings and filters for display of Security Cooperation data from multiple Combatant Commands/Services/Agencies in a tabular display	CDP 11.52	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0052.4	G-TSCMIS shall provide a declutter function for labels and symbols in the geo-spatial display	CDP 11.52			F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0052.5	G-TSCMIS shall provide a single-step filter to activate/deactivate information displayed in the geo-spatial display	CDP 11.52			F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0053	G-TSCMIS shall provide a capability to display all the SC activities of an individual agency or command or Service within a particular country or user-defined region.	CDP 11.53	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0053.1	G-TSCMIS shall provide a capability to display all the SC activities of an individual agency or command or Service within a particular country or user-defined region, selected through tabular or filter selections.	CDP 11.53	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0053.2	G-TSCMIS shall provide a capability to display all the SC activities of an individual agency or command or Service within a particular country or user-defined region, selected by user interface to map display (e.g., select countries, rubber-band around region.)	CDP 11.53			F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0054	G-TSCMIS shall provide a capability to customize a display to assist with planning and tracking activities/events (e.g., roll up/dashboard view).	CDP 11.54	x		F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0055	G-TSCMIS shall provide a capability to display resources that have been allocated to specific SC activities/events.	CDP 11.55	x					
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0056	G-TSCMIS shall provide a capability to track and display expenditure of funds by sources (e.g., Title 10, Title 22, Section 1206) and activities.	CDP 11.56	x		U	F		
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0056.1	G-TSCMIS shall provide for identification of funding sources	CDP 11.56	x					
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0056.2	G-TSCMIS shall enable linking of funding sources to SC activities	CDP 11.56	x					
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0056.3	G-TSCMIS shall interface with applicable financial systems to enable access to financial data	CDP 11.56				F		

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0056.4	G-TSCMIS shall provide the capability to query and display financial data by sources and activities	CDP 11.56			F			
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0057	G-TSCMIS shall provide a capability to display allocation of resources (funding, forces, equipment) for an SC program/event/activity in terms of goals/objectives/end states.	CDP 11.57				F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0057.1	G-TSCMIS shall provide a capability to display allocation of resources (funding forces, equipment) for an SC program/event/activity for each Command.	CDP 11.57			X	X	X	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0057.2	G-TSCMIS shall provide a capability to display allocation of resources (funding, forces, equipment) for an SC program/event/activity for each Service.	CDP 11.57			X	X	X	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0057.3	G-TSCMIS shall provide a capability to display allocation of resources (funding, forces, equipment) for an SC program/event/activity for each Agency.	CDP 11.57			X	X	X	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0058	G-TSCMIS shall provide a capability to display linkages between the resource allocation of multiple programs and a single theater strategic objective/strategic effect.	CDP 11.58				F		
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0059	G-TSCMIS shall provide a capability to display expenditure of resources for an SC program/event/activity in terms of goals/objectives/end states.	CDP 11.59				F		
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0060	G-TSCMIS shall provide a capability to display linkages between resources and Guidance for the Employment of Forces (GEF) priorities.	CDP 11.60		x	F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0061	G-TSCMIS shall provide the capability to report Security Cooperation Event data summaries of funding and/or manpower required organized by, but not limited to the following: a) by funding category b) by country c) by region d) by objective	CDP 11.61 MOE/MOP 3.1.1	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0061.1	G-TSCMIS shall create security cooperation event data summary reports IAW the following Threshold performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 6 minutes b) Medium report < 5 minutes c) Small report < 4 minutes	CDP 11.61 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0061.2	G-TSCMIS shall create security cooperation event data summary reports IAW the following Objective performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 4 minutes b) Medium report < 3 minutes c) Small report < 2 minutes	CDP 11.61 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0061.3	G-TSCMIS shall provide the capability for an end-user to track/analyze historical SC data (requirements, personnel, activities and outcomes).	CDP 11.61			I	U	F	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0062	G-TSCMIS shall provide the capability to create charts and graphs of SC data (e.g., Gantt charts, pie charts, bar graphs).	CDP 11.62 MOE/MOP 3.4.1		x	U	U	F	Update as additional data types are added
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0062.1	G-TSCMIS shall provide the capability to create SC event data representations, to include but not limited, to the following: a) charts b) graphs c) pie charts d) Gantt charts e) dashboards f) other data visualization graphics	CDP 11.62		x	X	X	X	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0062.2	G-TSCMIS shall provide an accurate visualization of requested G-TSCMIS data completely and accurately.	CDP 11.62 MOE/MOP 3.4.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0063	G-TSCMIS shall provide the capability to access standardized reports for SC events.	CDP 11.63	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0063.1	G-TSCMIS shall enable reports to be linked to SC events in order to provide user access to reports	CDP 11.63			F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0064	G-TSCMIS shall provide the capability to generate an Events Summary report organized by, but not limited to the following: a) SC category b) country	CDP 11.64 MOE/MOP 3.1.1	x		U	F		
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0064.1	G-TSCMIS shall create security cooperation Event Summary reports IAW the following Threshold performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 6 minutes b) Medium report < 5 minutes c) Small report < 4 minutes	CDP 11.64 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0064.2	G-TSCMIS shall create security cooperation Event Summary reports IAW the following Objective performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 4 minutes b) Medium report < 3 minutes c) Small report < 2 minutes	CDP 11.64 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0065	G-TSCMIS shall provide the capability to generate Quality Assurance (QA) reports (e.g., Agency, Country, Points of Contact) for SC activities, in order to identify and correct missing/incorrect information for the user.	CDP 11.65 MOE/MOP 3.4.2 MOE/MOP 3.4.3	x		F			
1.1.2.2.2	Reporting Services	G-TSCMIS-FUNCREQ-0065.1	G-TSCMIS shall identify SC Event discrepancies.	CDP 11.65	x		X	X	X	
1.1.2.2.2	Reporting Services	G-TSCMIS-FUNCREQ-0065.2	G-TSCMIS shall track SC Event discrepancies.	CDP 11.65	x		X	X	X	
1.1.2.2.2	Reporting Services	G-TSCMIS-FUNCREQ-0065.3	G-TSCMIS shall report SC Event discrepancies.	CDP 11.65	x		X	X	X	
1.1.2.2.3	Workflow Services	G-TSCMIS-FUNCREQ-0065.4	G-TSCMIS shall notify the originator of an SC Event of a discrepancy when the SC Event is created.	CDP 11.65	x		X	X	X	
1.1.2.2.3	Workflow Services	G-TSCMIS-FUNCREQ-0065.5	G-TSCMIS shall notify the originator of an SC Event of a discrepancy when the SC Event is created IAW the following performance requirements: a) Threshold- a visual / audio indicator is provided < 15 seconds b) Objective- a visual / audio indicator is provided < 5 seconds	CDP 11.65 MOE/MOP 3.4.2	x		X	X	X	
1.1.2.2.3	Workflow Services	G-TSCMIS-FUNCREQ-0065.6	G-TSCMIS shall notify designated recipients of modifications to an SC Event IAW the following Threshold performance requirements: a) Threshold - a visual / audio indicator is provided < 15 seconds b) Objective - a visual / audio indicator is provided < 5 seconds	CDP 11.65 MOE/MOP 3.4.3	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0066	G-TSCMIS shall provide interactive Quality Assurance (QA) reports that allow the user to directly navigate to an SC event record which has been identified (flagged) for QA non-compliance.	CDP 11.66	x		F			

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.2.2	Reporting Services	G-TSCMIS-FUNCREQ-0066.1	G-TSCMIS shall report SC Event discrepancies.	CDP 11.66	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0067	G-TSCMIS shall provide a capability to notify a user that an SC event record has an incorrect status (i.e., an event start and/or end date has passed and the event status has not been updated).	CDP 11.67	x					
1.1.2.3.1	Graphical User Interface (GUI)	G-TSCMIS-FUNCREQ-0067.1	G-TSCMIS shall notify the originator of an SC Event of a discrepancy when the SC Event is created.	CDP 11.67	x		X	X	X	
1.1.2.2.3	Workflow Services	G-TSCMIS-FUNCREQ-0067.2	G-TSCMIS shall notify the originator of an SC Event of a discrepancy when the SC Event is periodically re-evaluated.	CDP 11.67	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0068	G-TSCMIS shall provide the capability to generate Analytical reports (e.g., Agency to Engagement Category, Agency to Event Status, Events to Country Objectives/Sub Objectives, Country to Engagement Category, and Country Sub Objectives to SC Events).	CDP 11.68 MOE/MOP 3.1.1	x		U	F		
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0068.1	G-TSCMIS shall create security cooperation event data Analytical reports IAW the following Threshold performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 6 minutes b) Medium report < 5 minutes c) Small report < 4 minutes	CDP 11.68 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0068.1	G-TSCMIS shall create security cooperation event data Analytical reports IAW the following Objective performance requirements, as measured at user input and output of report (i.e., without any transmission delays): a) Large report < 4 minutes b) Medium report < 3 minutes c) Small report < 2 minutes	CDP 11.68 MOE/MOP 3.1.1	x		X	X	X	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0069	G-TSCMIS shall provide the capability to generate Monthly reports (e.g., by country or agency).	CDP 11.69	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0070	G-TSCMIS shall provide the capability to generate Executive Overviews (e.g., agency overview, agency to country overview, country overview, country group overview).	CDP 11.70	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0071	G-TSCMIS shall provide a capability to automatically produce a fact sheet that provides summary information (who, what, when, where, why, how, historic examples, lessons learned, and event prerequisites) about a particular SC activity/event.	CDP 11.71		x		F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0072	G-TSCMIS shall provide a capability to semi-automatically produce a report in various required formats (e.g., the National Security Council's Significant Military Exercise Briefing (SMEB) format).	CDP 11.72		x			F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0073	G-TSCMIS system shall collate and categorize completed event assessments for use by planners, managers, analysts and decision makers.	CDP 11.73	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0074	G-TSCMIS shall provide the capability for SC participants to generate Event Assessment reports.	CDP 11.74	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0075	G-TSCMIS shall provide a capability to produce, by Guidance for the Employment of the Force (GEF) categories, an assessment of how SC activities achieved themes and objectives identified in the GEF (based on a user-defined timeframe).	CDP 11.75		x	U	U	F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0075.1	G-TSCMIS shall provide a capability for the end-user to Assess how SC activities achieved Guidance for Employment of the Force (GEF) elements (i.e., themes and objectives).	CDP 11.75					F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0075.2	G-TSCMIS shall provide the capability to Link SC activities to Guidance for Employment of the Force (GEF) elements (i.e., themes and objectives).	CDP 11.75		x	U	F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0075.3	G-TSCMIS shall provide the capability to Link SC activities to CDR elements (i.e., goals and objectives).	CDP 11.75		x	U	F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0075.4	G-TSCMIS shall provide a capability for the end-user to analyze SC activities.	CDP 11.75				I	F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0075.5	G-TSCMIS shall provide a capability for the end-user to compare SC activities.	CDP 11.75				I	F	This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
1.1.2.4.1	Data Exposure Services (CRUD)	GTSCMIS-FUNCREQ-0076	G-TSCMIS shall provide a capability to perform an Event Assessment upon completion of an SC event to include: ratings for event execution, assessment for event success in support of engagement objectives, and an opinion on event scope/frequency (i.e., increase, decrease or maintain current level).	CDP 11.76	x		F			
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0077	G-TSCMIS shall provide a capability that displays how SC activities are progressing towards achievement of goals/themes/objectives/ end states.	CDP 11.77		x	U	F		
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0078	G-TSCMIS shall provide a capability to compare/deconflict DoD SC activities with non-DoD activities to identify duplicative efforts and to assist with allocating future resources towards achieving desired objectives/end states.	CDP 11.78		x	U	U	F	
1.1.2.4.3	Data Consumption Services	GTSCMIS-FUNCREQ-0078.1	G-TSCMIS shall be able to access information on relevant non-DoD activities	CDP 11.78				I	F	
1.1.2.2.2	Reporting Services	GTSCMIS-FUNCREQ-0078.2	G-TSCMIS shall provide manual tools for queries which identify duplicative and overlapping activities based on parameters that include objective, location and time	CDP 11.78	x		U	U	F	
1.1.2.3.1	Graphical User Interface (GUI)	GTSCMIS-FUNCREQ-0078.3	G-TSCMIS shall provide geo-spatial display that enables visualization/deconfliction of DoD and Non-DoD activities	CDP 11.78	x		U	U	F	
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0079	G-TSCMIS shall provide modeling tools which predict effects of applying future resources towards meeting SC objectives (i.e., predict return on investment).	CDP 11.79					F	
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0080	G-TSCMIS shall provide a capability to identify and request future funding requirements based on various budgeting cycles (e.g., Program Objective Memorandum (POM), Foreign Military Financing (FMF), Mission Strategic Plan (MSP), International Military Education and Training (IMET)).	CDP 11.80				I	F	Breakout between initial and final requirements will be determined by systems engineering efforts
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0081	G-TSCMIS shall provide a capability to prioritize SC events.	CDP 11.81		x			F	Relates to 11.12
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0081.1	G-TSCMIS shall provide a capability for authorized sysadmin user to create SC event priorities	CDP 11.81		x				
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0081.2	G-TSCMIS shall provide a capability for users to prioritize SC events manually using established priority categories.	CDP 11.81		x				
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0081.3	G-TSCMIS shall provide a capability to prioritize SC events automatically using user-defined utility functions	CDP 11.81					F	
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0082	G-TSCMIS shall provide a capability to visualize priorities of SC events against resources.	CDP 11.82				F		
Not in WBS	Not in WBS	GTSCMIS-FUNCREQ-0083	G-TSCMIS shall provide the capability to operate in a Disconnected, Intermittent, or Limited bandwidth (DIL) environment.	CDP 11.83			I	F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.4.2	Data Export Services	GTSCMIS-FUNCREQ-0083.1	G-TSCMIS shall provide capabilities for users to export SC planning tools to standard office automation tools that can be used offline and uploaded when reconnected.	CDP 11.83			F			This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
Not in WBS	Not in WBS	GTSCMIS-FUNCREQ-0083.2	G-TSCMIS will provide a "low bandwidth mode" for clients who are accessing G-TSCMIS capabilities over limited bandwidth	CDP 11.83				F		This requirement is scheduled after Release 1 as per priorities in JFCOM Release Sequence Plan
1.1.2.2.1	Planning Services	GTSCMIS-FUNCREQ-0084	G-TSCMIS shall provide the capability to electronically approve SC events.			x			F	
1.1.2.5.2	Authorization (e.g., ABAC)	GTSCMIS-FUNCREQ-0084.1	The G-TSCMIS ABAC implementation shall enable attribute-based management of approval of SC events	CDP 11.84			X	X	X	
1.1.2.5.4	Auditing Services	GTSCMIS-FUNCREQ-0084.2	The G-TSCMIS auditing capability shall provide tracking of all approvals	CDP 11.84			F			
Architecture Requirements (derived from Joint C2 Architecture)										
GTSCMIS-ARCHREQ-001		GTSCMIS-ARCHREQ-001	G-TSCMIS shall be physically instantiated as one or more capability packages.	JC2 Physical Architecture, ADR A001		x	x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-002		GTSCMIS-ARCHREQ-002	G-TSCMIS shall function within the Global Information Grid (GIG) Computing Node virtualized environment.	JC2 Physical Architecture, ADR A002	x	x	x	x	x	The G-TSCMIS Targeted environment is enterprise-level GCN only
GTSCMIS-ARCHREQ-003		GTSCMIS-ARCHREQ-003	G-TSCMIS shall be delivered as one or more capability packages (virtual machines).	JC2 Physical Architecture, ADR A003	x		x	x	x	Recommended hypervisor to be proposed at PDR
GTSCMIS-ARCHREQ-003.1		GTSCMIS-ARCHREQ-003.1	G-TSCMIS performance shall be scaleable through addition and configuration of virtual machines at run time.	JC2 Physical Architecture, ADR A003		x	x	x	x	
GTSCMIS-ARCHREQ-004		GTSCMIS-ARCHREQ-004	G-TSCMIS shall run on x86-based Central Processing Units (CPUs).	JC2 Physical Architecture, ADR A004	x		x	x	x	no further amplification
GTSCMIS-ARCHREQ-005		GTSCMIS-ARCHREQ-005	G-TSCMIS hardware resource requirements shall be documented in a set of "Terms of Use Metrics" specifying the minimum hardware resource requirements for hosting and operating the capability package	JC2 Physical Architecture, ADR A005		x	x	x	x	(SLA template at https://www.us.army.mil/suite/files/12612690).
GTSCMIS-ARCHREQ-006		GTSCMIS-ARCHREQ-006	G-TSCMIS shall provide Continuity of Operations (COOP) capability which enables failover to a another geographically located site within one hour	JC2 Physical Architecture, ADR A007-A11			x	x	x	
GTSCMIS-ARCHREQ-007		GTSCMIS-ARCHREQ-007	G-TSCMIS shall provide Continuity of Operations (COOP) capability which enables failover to a another configuration within the same geographically located site within one hour	JC2 Physical Architecture, ADR A007-A11	x	x	x	x	x	
GTSCMIS-ARCHREQ-008		GTSCMIS-ARCHREQ-008	G-TSCMIS shall provide Continuity of Operations (COOP) capability which enables automatic failover to a another configuration without interruption in service and using the same logical URL	JC2 Physical Architecture, ADR A007-A11				x	x	
GTSCMIS-ARCHREQ-009		GTSCMIS-ARCHREQ-009	G-TSCMIS shall utilize the JC2CUI widget framework as the basis for the G-TSCMIS framework	JC2 Software Architecture, ADR A013-A015	x	x	x	x	x	May be proposed for R1. JC2CUI information available at https://software.forge.mil/sf/projects/jc2cui , CAC required
GTSCMIS-ARCHREQ-010		GTSCMIS-ARCHREQ-010	G-TSCMIS widgets should not contain extensive code other than what is needed for the user interface. Widgets should call services to accomplish major business logic functions	JC2 Software Architecture, ADR A013	x	x	x	x	x	
GTSCMIS-ARCHREQ-011		GTSCMIS-ARCHREQ-011	G-TSCMIS Widgets shall use G-TSCMIS services for integration with G-TSCMIS data and functions	JC2 Software Architecture, ADR A014	x	x	x	x	x	
GTSCMIS-ARCHREQ-012		GTSCMIS-ARCHREQ-012	G-TSCMIS widgets shall be registered in the widget framework.	JC2 Software Architecture, ADR A015	x	x	x	x	x	
GTSCMIS-ARCHREQ-013		GTSCMIS-ARCHREQ-013	G-TSCMIS thin client presentation interfaces shall conform to the HTML or XHTML standards, and not use browser-specific extensions.	JC2 Software Architecture, ADR A016	x		x	x	x	XHTML preferred
GTSCMIS-ARCHREQ-014		GTSCMIS-ARCHREQ-014	G-TSCMIS thin client presentation interfaces shall use an approved version of Java for any applets.	JC2 Software Architecture, ADR A017	x		x	x	x	Intended use of applets to be proposed by developer at PDR
GTSCMIS-ARCHREQ-015		GTSCMIS-ARCHREQ-015	G-TSCMIS thin client presentation interfaces shall use an approved version of Adobe® Flash® for any Flash-based applications.	JC2 Software Architecture, ADR A018	x		x	x	x	Use of Flash is not required, and intent to use Flash will be proposed by developer at PDR
GTSCMIS-ARCHREQ-016		GTSCMIS-ARCHREQ-016	G-TSCMIS thin client presentation interfaces shall function correctly in Microsoft Internet Explorer, version 7.0 or later, and Mozilla Firefox, version 3.5 or later.	JC2 Software Architecture, ADR A019	x		x	x	x	Change to minimum version (e.g., IE 8) may be proposed at PDR and approved by government. Developer to test to verify proper operation against all required versions
GTSCMIS-ARCHREQ-017		GTSCMIS-ARCHREQ-017	G-TSCMIS rich clients developed for use by the G-TSCMIS community shall be able to use Machine-to-machine (M2M) interfaces that use Joint C2 standard interfaces and APIs. (No current requirement for rich client)	JC2 Software Architecture, ADR A020	x	x	x	x	x	G-TSCMIS will primarily use a thin-client geospatial presentation and not develop a thick client per se, but must provide a subset of services that can be consumed and visualized by Google Earth and also the Joint C2 Agile Client
GTSCMIS-ARCHREQ-018		GTSCMIS-ARCHREQ-018	G-TSCMIS shall be hosted at one or more Enterprise-level GCNs.	JC2 Software Architecture, ADR A022		x	x	x	x	Govt role
GTSCMIS-ARCHREQ-019		GTSCMIS-ARCHREQ-019	G-TSCMIS service interfaces built to comply with the Joint C2 Objective Architecture shall use TCP/IP.	JC2 Software Architecture, ADR A028		x	x	x	x	
GTSCMIS-ARCHREQ-020		GTSCMIS-ARCHREQ-020	G-TSCMIS shall use one of the following operating systems: Red Hat Enterprise Linux 5 or later Solaris x86 10 or later Windows Server 2008 or later (unless approved otherwise by Govt at PDR).	JC2 Software Architecture, ADR A030	x		x	x	x	Developer may request change for later version(s), and shall propose changes at PDR
GTSCMIS-ARCHREQ-021		GTSCMIS-ARCHREQ-021	G-TSCMIS shall provide an Interface Design Description (IDD) that describes the service interfaces in enough detail that a developer could easily implement a connection to each of the G-TSCMIS services	JC2 Software Architecture, ADR A032		x	x	x	x	Use IDD template at https://www.us.army.mil/suite/files/12612690
GTSCMIS-ARCHREQ-022		GTSCMIS-ARCHREQ-022	G-TSCMIS shall present a single logical access point for each service to the consumer/user, resulting in the physical location of the being transparent to the consumer/user.	JC2 Software Architecture, ADR A033	x		x	x	x	In R1 it is intended that there will be one physical endpoint so this should be a non-issue. If multiple physical endpoints are used and the Joint C2 redirection capability is not available then this requirement may be met through use of a G-
GTSCMIS-ARCHREQ-023		GTSCMIS-ARCHREQ-023	G-TSCMIS service logical endpoints shall be registered with at least one instance of the enterprise redirection service, if available.	JC2 Software Architecture, ADR A034			x	x	x	Joint C2 Redirection CM is not expected to be available for R1, but will be available by R3

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-024		GTSCMIS-ARCHREQ-024	G-TSCMIS service physical endpoints shall be registered with the appropriate instance of the enterprise redirection service, if available.	JC2 Software Architecture, ADR A035			x	x	x	Joint C2 Redirection CM is not expected to be available for R1, but will be available by R3
GTSCMIS-ARCHREQ-025		GTSCMIS-ARCHREQ-025	G-TSCMIS service interfaces shall isolate the consumer from the database structure of the provider.	JC2 Software Architecture, ADR A036	x		x	x	x	No further amplification
GTSCMIS-ARCHREQ-026		GTSCMIS-ARCHREQ-026	G-TSCMIS shall not offer a public direct interface to a database, such as a database connection using a database driver (e.g., JDBC).	JC2 Software Architecture, ADR A037	x		x	x	x	
GTSCMIS-ARCHREQ-027		GTSCMIS-ARCHREQ-027	G-TSCMIS geospatial services and applications used by G-TSCMIS shall adhere to the OpenGIS® standards of the Open Geospatial Consortium, Inc.® (OGC).	JC2 Software Architecture, ADR A038	x		x	x	x	
GTSCMIS-ARCHREQ-028		GTSCMIS-ARCHREQ-028	G-TSCMIS shall use Enterprise Messaging, for asynchronous point-to-point communications between G-TSCMIS and other applications.	JC2 Software Architecture, ADR A040	x	x	x	x	x	Info regarding enterprise messaging services is available at https://project.forge.mil/sf/projects/nces
GTSCMIS-ARCHREQ-029		GTSCMIS-ARCHREQ-029	G-TSCMIS should use the publish and subscribe capabilities of Enterprise Messaging for distributing asynchronous publish and subscribe data between G-TSCMIS and other applications. RSS or Atom as a mechanism for notifying	JC2 Software Architecture, ADR A041	x	x	x	x	x	Info regarding enterprise messaging services is available at https://project.forge.mil/sf/projects/nces
GTSCMIS-ARCHREQ-030		GTSCMIS-ARCHREQ-030	G-TSCMIS shall provide management interfaces in order to remotely monitor and manage the G-TSCMIS application, including monitoring by the Enterprise Service Management (ESM) service.	JC2 Software Architecture, ADR A042	x	x	x	x	x	
GTSCMIS-ARCHREQ-031		GTSCMIS-ARCHREQ-031	G-TSCMIS shall make resource usage statistics, such as current CPU and memory utilization, available to the operations center.	JC2 Software Architecture, ADR A043	x	x	x	x	x	
GTSCMIS-ARCHREQ-032		GTSCMIS-ARCHREQ-032	G-TSCMIS shall provide a thin-client administrative interface for system configuration and administration functions.	JC2 Software Architecture, ADR A044	x		x	x	x	
GTSCMIS-ARCHREQ-033		GTSCMIS-ARCHREQ-033	G-TSCMIS shall define interfaces such that no knowledge of internal data structure is required to consume the service.	JC2 Software Architecture, ADR A045	x	x	x	x	x	
GTSCMIS-ARCHREQ-034		GTSCMIS-ARCHREQ-034	G-TSCMIS services shall be context-free, with the exception of the iterator pattern.	JC2 Software Architecture, ADR A046		x	x	x	x	Iterator pattern not required, Contractor to propose any use of iterator pattern at PDR
GTSCMIS-ARCHREQ-035		GTSCMIS-ARCHREQ-035	G-TSCMIS iterators for SOAP-based services shall use WS-Enumeration.	JC2 Software Architecture, ADR A047	x	x	x	x	x	Iterator pattern not required, Contractor to propose any use of iterator pattern at PDR
GTSCMIS-ARCHREQ-036		GTSCMIS-ARCHREQ-036	G-TSCMIS XML artifacts (e.g., XSD, XSLT, WSDL, OWL) shall be registered in the Metadata Registry (MDR).	JC2 Data Architecture, ADR A048	x		x	x	x	To be accomplished by CDR. Info available at http://metadata.dod.mil and http://metadata.dod.mil/mdr/publisher.htm
GTSCMIS-ARCHREQ-037		GTSCMIS-ARCHREQ-037	G-TSCMIS shall register conceptual G-TSCMIS services in the NIPR Enterprise Service Registry.	JC2 Data Architecture, ADR A049	x	x	x	x	x	To be accomplished by CDR. Info available at http://metadata.dod.mil and http://metadata.dod.mil/mdr/publisher.htm
GTSCMIS-ARCHREQ-038		GTSCMIS-ARCHREQ-038	G-TSCMIS Logical end points of each service shall be registered in the Service Registry. (Govt Role)	JC2 Data Architecture, ADR A050		x	x	x	x	Govt function: Info available at http://metadata.dod.mil and http://metadata.dod.mil/mdr/publisher.htm
GTSCMIS-ARCHREQ-039		GTSCMIS-ARCHREQ-039	G-TSCMIS shall upload the applicable data usage agreements as part of the service registration activities (Govt Role using contractor provided data)	JC2 Data Architecture, ADR A052	x	x	x	x	x	Govt function: Info available at http://metadata.dod.mil and http://metadata.dod.mil/mdr/publisher.htm
GTSCMIS-ARCHREQ-040		GTSCMIS-ARCHREQ-040	G-TSCMIS shall upload the Service Level Agreement (SLA) as part of the service registration activities.	JC2 Data Architecture, ADR A053	x	x	x	x	x	(Govt Role using contractor provided data) Info available at http://metadata.dod.mil and http://metadata.dod.mil/mdr/publisher.htm
GTSCMIS-ARCHREQ-041		GTSCMIS-ARCHREQ-041	G-TSCMIS shall upload the technical documentation for the service interface as part of the service registration activities.	JC2 Data Architecture, ADR A054	x	x	x	x	x	(Govt Role using contractor provided data)
GTSCMIS-ARCHREQ-042		GTSCMIS-ARCHREQ-042	G-TSCMIS shall assert relationships to existing artifacts when a new version for an XML artifact is registered in the MDR.	JC2 Data Architecture, ADR A055	x	x	x	x	x	(Govt Role using contractor provided data) Info available at http://www.disa.mil/nces/metadata_discovery.html and http://www.disa.mil/nces/content_discovery.html
GTSCMIS-ARCHREQ-043		GTSCMIS-ARCHREQ-043	G-TSCMIS shall use registered formats (i.e., those registered in the DoD Metadata Registry) to encode common aspects of information resources.	JC2 Data Architecture, ADR A056	x	x	x	x	x	Info available at http://www.disa.mil/nces/metadata_discovery.html and http://www.disa.mil/nces/content_discovery.html
GTSCMIS-ARCHREQ-044		GTSCMIS-ARCHREQ-044	G-TSCMIS shall subscribe to any XML artifact registered in the MDR that is used in their service implementation using the MDR subscription capability.	JC2 Data Architecture, ADR A057	x	x	x	x	x	Info available at http://www.disa.mil/nces/metadata_discovery.html and http://www.disa.mil/nces/content_discovery.html
GTSCMIS-ARCHREQ-045		GTSCMIS-ARCHREQ-045	G-TSCMIS XML schemas shall be defined as an external XSD file and not within the WSDL for the service.	JC2 Data Architecture, ADR A058	x	x	x	x	x	
GTSCMIS-ARCHREQ-046		GTSCMIS-ARCHREQ-046	G-TSCMIS XML schemas shall contain the UCore primitives for defining the "what?", "who?" "where?" and "when?".	JC2 Data Architecture, ADR A059	x	x	x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-047		GTSCMIS-ARCHREQ-047	G-TSCMIS XML vocabulary components shall include horizontal vocabularies to define common concepts that cut across various vocabularies.	JC2 Data Architecture, ADR A060	x	x	x	x	x	
GTSCMIS-ARCHREQ-048		GTSCMIS-ARCHREQ-048	G-TSCMIS XML Schemas should adopt the hierarchy of vocabularies (UCore, Horizontal Vocabularies, C2 Core, and other Common Cores) and COI for their information exchanges.	JC2 Data Architecture, ADR A061	x	x	x	x	x	
GTSCMIS-ARCHREQ-049		GTSCMIS-ARCHREQ-049	G-TSCMIS shall use of taxonomies encoded in OWL for the "what" and the "who" concepts for all G-TSCMIS information exchanges.	JC2 Data Architecture, ADR A062	x	x	x	x	x	
GTSCMIS-ARCHREQ-050		GTSCMIS-ARCHREQ-050	G-TSCMIS developers shall develop taxonomies to extend the UCore taxonomies to add additional semantics to the "What and Who" interrogatives in a UCore message.	JC2 Data Architecture, ADR A063	x	x	x	x	x	
GTSCMIS-ARCHREQ-051		GTSCMIS-ARCHREQ-051	G-TSCMIS services based on a RESTful architectural style shall use media types with well-defined semantics for links and link relations.	JC2 Data Architecture, ADR A065	x	x	x	x	x	G-TSCMIS data services are to be SOAP-based unless approved by PCO
GTSCMIS-ARCHREQ-052		GTSCMIS-ARCHREQ-052	G-TSCMIS shall use the Discovery Metadata Specification (DDMS) to encode metacards for the discovery of G-TSCMIS-related data resources and data assets based on guidance from the data owners.	JC2 Data Architecture, ADR A066	x	x	x	x	x	
GTSCMIS-ARCHREQ-053		GTSCMIS-ARCHREQ-053	G-TSCMIS discovery metacards for information resources shall be registered in the Enterprise or local catalog.	JC2 Data Architecture, ADR A067	x	x	x	x	x	G-TSCMIS should use Enterprise catalog only
GTSCMIS-ARCHREQ-054		GTSCMIS-ARCHREQ-054	G-TSCMIS discovery of information assets (instance data) at execution time should be done using an <i>a priori</i> , event-driven or layered pattern, or a combination of these patterns based on guidance from the data owners.	JC2 Data Architecture, ADR A069	x	x	x	x	x	Pattern in R1 is assumed to be <i>a priori</i> unless otherwise proposed by developer
GTSCMIS-ARCHREQ-055		GTSCMIS-ARCHREQ-055	G-TSCMIS shall apply security tags to discovery metadata using the lowest security classification level possible.	JC2 Data Architecture, ADR A070	x	x	x	x	x	
GTSCMIS-ARCHREQ-056		GTSCMIS-ARCHREQ-056	G-TSCMIS search service that federates with the Enterprise FedSearch capability shall support the OpenSearch specification.	JC2 Data Architecture, ADR A071	x		x	x	x	
GTSCMIS-ARCHREQ-057		GTSCMIS-ARCHREQ-057	G-TSCMIS services shall tag and populate data resources with IC-ISM security attributes.	JC2 Data Architecture, ADR A072	x	x	x	x	x	
GTSCMIS-ARCHREQ-058		GTSCMIS-ARCHREQ-058	G-TSCMIS shall follow the CAPCO guidance for using security markings in XML elements following a tear-line pattern .	JC2 Data Architecture, ADR A073	x	x	x	x	x	
GTSCMIS-ARCHREQ-059		GTSCMIS-ARCHREQ-059	G-TSCMIS CDS requirements for sharing information across security domains shall be addressed in the design of XML schemas	JC2 Data Architecture, ADR A074	x	x	x	x	x	
GTSCMIS-ARCHREQ-060		GTSCMIS-ARCHREQ-060	G-TSCMIS non-geospatial data elements shall use the ISO 8601 (xs:Datetime) to encode date and time.	JC2 Data Architecture, ADR A075		x	x	x	x	
GTSCMIS-ARCHREQ-061		GTSCMIS-ARCHREQ-061	G-TSCMIS geospatial services shall use GML to encode geospatial data with temporal representations associated with information resources.	JC2 Data Architecture, ADR A076	x		x	x	x	KML shall only be used for visualization, GML will be used for data exchange
GTSCMIS-ARCHREQ-062		GTSCMIS-ARCHREQ-062	G-TSCMIS geospatial services shall use the GML time types (subset of ISO 19108), version to encode temporal information for geospatial data.	JC2 Data Architecture, ADR A077	x		x	x	x	
GTSCMIS-ARCHREQ-063		GTSCMIS-ARCHREQ-063	G-TSCMIS geospatial services should implement GML profiles only as supersets of the GML profile specified by TSPI.	JC2 Data Architecture, ADR A078	x		x	x	x	
GTSCMIS-ARCHREQ-064		GTSCMIS-ARCHREQ-064	G-TSCMIS geospatial services should reuse the TSPI shapes needed for their implementation.	JC2 Data Architecture, ADR A079	x		x	x	x	
GTSCMIS-ARCHREQ-065		GTSCMIS-ARCHREQ-065	G-TSCMIS should register new GML shapes in accordance to the TSPI guidance.	JC2 Data Architecture, ADR A080	x		x	x	x	
GTSCMIS-ARCHREQ-066		GTSCMIS-ARCHREQ-066	G-TSCMIS shall use the TSPI specification to encode a Geo Name.	JC2 Data Architecture, ADR A081	x		x	x	x	
GTSCMIS-ARCHREQ-067		GTSCMIS-ARCHREQ-067	G-TSCMIS may use OGC-KML to visualize geospatial data on a map when the data is exchanged between a web service and a presentation service.	JC2 Data Architecture, ADR A082	x		x	x	x	
GTSCMIS-ARCHREQ-068		GTSCMIS-ARCHREQ-068	G-TSCMIS shall make trust discovery metadata available, such as asset pedigree and digital rights (intellectual property) protections for information assets.	JC2 Data Architecture, ADR A083	x	x	x	x	x	
GTSCMIS-ARCHREQ-069		GTSCMIS-ARCHREQ-069	G-TSCMIS sensitive data fields shall be encrypted to comply with federal laws (e.g. HIPPA) or specific military Service policies.	JC2 Data Architecture, ADR A084	x		x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-070		GTSCMIS-ARCHREQ-070	G-TSCMIS should deploy new databases into the DoD enterprise data cloud.	JC2 Data Architecture, ADR A085				x	x	potential post-R1 future implementation when data cloud is operationally available
GTSCMIS-ARCHREQ-071		GTSCMIS-ARCHREQ-071	G-TSCMIS should use services provided by the DoD enterprise data cloud to synchronize content between databases.	JC2 Data Architecture, ADR A087				x	x	potential post-R1 future implementation when data cloud is operationally available
GTSCMIS-ARCHREQ-072		GTSCMIS-ARCHREQ-072	G-TSCMIS shall conform to the appropriate security controls in accordance with DoDI 8500.2.	JC2 IA Architecture, ADR A088	x	x	x	x	x	
GTSCMIS-ARCHREQ-073		GTSCMIS-ARCHREQ-073	G-TSCMIS capability packages (CP) shall include Host-Based Security Software (HBSS) as part of the CP's suite of Commercial-Off-The-Shelf (COTS) software.	JC2 IA Architecture, ADR A090		x	x	x	x	Will be done by Govt
GTSCMIS-ARCHREQ-074		GTSCMIS-ARCHREQ-074	G-TSCMIS capability packages shall include a Host-Based Intrusion Detection System (HIDS).	JC2 IA Architecture, ADR A091		x	x	x	x	Will be done by Govt
GTSCMIS-ARCHREQ-075		GTSCMIS-ARCHREQ-075	G-TSCMIS capability packages shall include antivirus software.	JC2 IA Architecture, ADR A092		x	x	x	x	Will be done by Govt
GTSCMIS-ARCHREQ-076		GTSCMIS-ARCHREQ-076	G-TSCMIS capability packages shall include vulnerability checker software.	JC2 IA Architecture, ADR A093		x	x	x	x	Will be done by Govt
GTSCMIS-ARCHREQ-077		GTSCMIS-ARCHREQ-077	G-TSCMIS capability packages shall include all applicable Public Key Infrastructure (PKI) trust anchor certificates needed for validating that incoming certificates have been signed by a trusted signer, as part of the CP's suite of	JC2 IA Architecture, ADR A094	x		x	x	x	
GTSCMIS-ARCHREQ-078		GTSCMIS-ARCHREQ-078	G-TSCMIS capability packages (CP) that are virtual machines shall include a DoD Public Key Infrastructure (PKI) server certificate as part of the CP's suite of Government-Off-The-Shelf software. Otherwise the server shall include a	JC2 IA Architecture, ADR A095	x		x	x	x	
GTSCMIS-ARCHREQ-079		GTSCMIS-ARCHREQ-079	G-TSCMIS may, if the enterprise RCVS is not available for PK-certificate validation, use an Online Certificate Status Protocol (OCSP) responder provided by a military service or a locally maintained cache of the Certificate	JC2 IA Architecture, ADR A096	x		x	x	x	G-TSCMIS shall use enterprise RCVS unless approved by PCO
GTSCMIS-ARCHREQ-080		GTSCMIS-ARCHREQ-080	G-TSCMIS user authentication should employ the DoD PK-certificates and hardware certificates (e.g., Common Access Cards) or software certificates issued to the user by trusted certificate authorities.	JC2 IA Architecture, ADR A097	x		x	x	x	
GTSCMIS-ARCHREQ-081		GTSCMIS-ARCHREQ-081	G-TSCMIS shall use a Policy Enforcement Point (PEP) to perform authentication, when authentication is required.	JC2 IA Architecture, ADR A098	x	x	x	x	x	
GTSCMIS-ARCHREQ-082		GTSCMIS-ARCHREQ-082	G-TSCMIS authentication shall be capable of producing and consuming Security Assertion Markup Language (SAML) assertions that conform to the specification in the DoD IC SOA SRA, Section 2.2.13.	JC2 IA Architecture, ADR A099	x	x	x	x	x	
GTSCMIS-ARCHREQ-083		GTSCMIS-ARCHREQ-083	G-TSCMIS, as an authenticating application, shall be able to propagate the user's identity, the method of authentication (e.g., PKI, username/password, or other credential), and the context under which the user is authenticated, and	JC2 IA Architecture, ADR A100	x	x	x	x	x	
GTSCMIS-ARCHREQ-084		GTSCMIS-ARCHREQ-084	G-TSCMIS authorization rules shall be documented for each data object.	JC2 IA Architecture, ADR A101	x	x	x	x	x	
GTSCMIS-ARCHREQ-085		GTSCMIS-ARCHREQ-085	G-TSCMIS capability providers shall use a Policy Enforcement Point (PEP), Policy Decision Point (PDP), policy store to perform authorization, when authorization is required.	JC2 IA Architecture, ADR A102	x	x	x	x	x	
GTSCMIS-ARCHREQ-086		GTSCMIS-ARCHREQ-086	G-TSCMIS services shall use Attribute-Based Access Control (ABAC).	JC2 IA Architecture, ADR A103				x	x	
GTSCMIS-ARCHREQ-087		GTSCMIS-ARCHREQ-087	G-TSCMIS capability providers shall provide audit data to enterprise audit capability.	JC2 IA Architecture, ADR A104	x	x	x	x	x	
GTSCMIS-ARCHREQ-088		GTSCMIS-ARCHREQ-088	G-TSCMIS clocks in capability package (CP) virtual machines shall be synchronized.	JC2 IA Architecture, ADR A105		x	x	x	x	
GTSCMIS-ARCHREQ-089		GTSCMIS-ARCHREQ-089	G-TSCMIS management of security audits shall leverage infrastructure audit services for storing, analyzing, and reporting audit information collected from G-TSCMIS applications and other elements of shared security areas.	JC2 IA Architecture, ADR A106	x	x	x	x	x	Subject to availability of infrastructure audit services
GTSCMIS-ARCHREQ-090		GTSCMIS-ARCHREQ-090	G-TSCMIS shall, to provide non-repudiation if required, either convey the user's identity to the providing service or maintain an audit log that could be used to identify the user.	JC2 IA Architecture, ADR A107	x	x	x	x	x	
GTSCMIS-ARCHREQ-091		GTSCMIS-ARCHREQ-091	G-TSCMIS services shall utilize XACML as the standard for interoperable exchange of authorization policies.	JC2 IA Architecture, ADR A108	x	x	x	x	x	
GTSCMIS-ARCHREQ-092		GTSCMIS-ARCHREQ-092	G-TSCMIS shall apply confidentiality protection requirements (e.g., for read-access protection of need-to-know data, privacy data) in accordance with guidance from data owners.	JC2 IA Architecture, ADR A109	x	x	x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-093		GTSCMIS-ARCHREQ-093	G-TSCMIS shall apply integrity protection requirements (e.g., for write access) in accordance with guidance from data owners.	JC2 IA Architecture, ADR A110	x	x	x	x	x	
GTSCMIS-ARCHREQ-094		GTSCMIS-ARCHREQ-094	G-TSCMIS communications that require confidentiality protection beyond that provided by the physical security protection of the infrastructure or network Type 1 encryption shall be encrypted using either XML encryption of the	JC2 IA Architecture, ADR A111	x	x	x	x	x	
GTSCMIS-ARCHREQ-095		GTSCMIS-ARCHREQ-095	G-TSCMIS communications integrity requirements shall be addressed by either message signing using XML-Signature, or TLS.	JC2 IA Architecture, ADR A112	x	x	x	x	x	
GTSCMIS-ARCHREQ-096		GTSCMIS-ARCHREQ-096	G-TSCMIS security controls for Web service communication shall be selected from Appendix E of the DoD and IC SOA Security Reference Architecture based on risk assessment.	JC2 IA Architecture, ADR A113		x	x	x	x	
GTSCMIS-ARCHREQ-097		GTSCMIS-ARCHREQ-097	G-TSCMIS capability providers shall support security (confidentiality, integrity, and non-repudiation) for both SOAP and RESTful communications as applicable.	JC2 IA Architecture, ADR A114	x	x	x	x	x	
GTSCMIS-ARCHREQ-098		GTSCMIS-ARCHREQ-098	G-TSCMIS shall include the security interface definition (e.g., security controls) as part of the Interface Design Description (IDD) for use by users and G-TSCMIS capability providers.	JC2 IA Architecture, ADR A115		x	x	x	x	
GTSCMIS-ARCHREQ-099		GTSCMIS-ARCHREQ-099	G-TSCMIS security interfaces for RESTful resources shall be published with the service description.	JC2 IA Architecture, ADR A116	x	x	x	x	x	
GTSCMIS-ARCHREQ-100		GTSCMIS-ARCHREQ-100	G-TSCMIS service developers shall perform a security risk assessment to select appropriate security controls for confidentiality, integrity, and non-repudiation from Table 1 of the JC2 IA View, and implement the selected	JC2 IA Architecture, ADR A117	x	x	x	x	x	
GTSCMIS-ARCHREQ-101		GTSCMIS-ARCHREQ-101	G-TSCMIS shall, when XML-Encryption is used with REST-based messages, describe the encryption (e.g., how to determine the key to be used in the encryption) in an IDD.	JC2 IA Architecture, ADR A118	x	x	x	x	x	No further amplification
GTSCMIS-ARCHREQ-102		GTSCMIS-ARCHREQ-102	G-TSCMIS shall, when XML-Signature is used for G-TSCMIS REST-based messages, include in the IDD the way in which the data is signed and the portions that are signed	JC2 IA Architecture, ADR A119	x	x	x	x	x	
GTSCMIS-ARCHREQ-103		GTSCMIS-ARCHREQ-103	G-TSCMIS SOAP-based web services shall implement risk-based security controls for machine-to-machine interactions, where the selected controls comply with WS-Security standards.	JC2 IA Architecture, ADR A120	x	x	x	x	x	
GTSCMIS-ARCHREQ-104		GTSCMIS-ARCHREQ-104	G-TSCMIS metadata integrity and the trust of its binding to the data it describes shall be maintained.	JC2 IA Architecture, ADR A121	x	x	x	x	x	
GTSCMIS-ARCHREQ-105		GTSCMIS-ARCHREQ-105	G-TSCMIS shall implement access controls consistent with operationally-defined dissemination controls.	JC2 IA Architecture, ADR A122	x	x	x	x	x	
GTSCMIS-ARCHREQ-106		GTSCMIS-ARCHREQ-106	G-TSCMIS ABAC implementation shall address supplemental (beyond DMDC-supplied enterprise attributes) attributes/roles that are needed to support access decisions in the business process for registering users and assigning	JC2 IA Architecture, ADR A123				x	x	
GTSCMIS-ARCHREQ-107		GTSCMIS-ARCHREQ-107	G-TSCMIS business process for registering G-TSCMIS users and assigning them roles shall address the default attributes/roles that will be assumed for the unanticipated (but valid) DoD user.	JC2 IA Architecture, ADR A124	x	x	x	x	x	
GTSCMIS-ARCHREQ-108		GTSCMIS-ARCHREQ-108	G-TSCMIS shall use the attribute services and attributes provided by infrastructure providers and attributes defined by data owners to manage access to G-TSCMIS services.	JC2 IA Architecture, ADR A125	x	x	x	x	x	
GTSCMIS-ARCHREQ-109		GTSCMIS-ARCHREQ-109	G-TSCMIS-related organizations that are authoritative sources for attributes will maintain the mapping of user identities to attributes.	JC2 IA Architecture, ADR A126	x	x	x	x	x	
GTSCMIS-ARCHREQ-110		GTSCMIS-ARCHREQ-110	G-TSCMIS shared trust implementation agreements that include SAML shall include: (1) The set of authorized signers of the SAML assertions; (2) The appropriate and approved actions to be taken upon receipt of any given SAML	JC2 IA Architecture, ADR A127	x		x	x	x	
GTSCMIS-ARCHREQ-111		GTSCMIS-ARCHREQ-111	G-TSCMIS shall logically separate presentation services from data storage and management services.	JC2 IA Architecture, ADR A128		x	x	x	x	
GTSCMIS-ARCHREQ-112		GTSCMIS-ARCHREQ-112	G-TSCMIS mission functionality shall be separated from shared security and infrastructure.	JC2 IA Architecture, ADR A129	x	x	x	x	x	
GTSCMIS-ARCHREQ-113		GTSCMIS-ARCHREQ-113	G-TSCMIS Shared identity and access management areas shall provide for trust in the systems and their connections to allow a user to authenticate once to the area; then, that authentication may be shared by G-TSCMIS capability	JC2 IA Architecture, ADR A130	x		x	x	x	
GTSCMIS-ARCHREQ-114		GTSCMIS-ARCHREQ-114	G-TSCMIS shall establish network, semantic, and trust agreements with providers of other services/systems with which they intend to federate and share information.	JC2 IA Architecture, ADR A131	x		x	x	x	
GTSCMIS-ARCHREQ-115		GTSCMIS-ARCHREQ-115	G-TSCMIS shall use Cross-Domain Enterprise Services (CDES) for cross domain information flow, unless not suitable under Quality of Service parameters.	JC2 IA Architecture, ADR A132	x	x	x	x	x	

Arch WBS Element	Architecture Component (Primary)	Requirement Identifier	Requirement statement		R1	R2	R3	R4	R5	Amplification
GTSCMIS-ARCHREQ-116		GTSCMIS-ARCHREQ-116	G-TSCMIS shall use a UCDMO-approved CDS, if CDES is not appropriate,	JC2 IA Architecture, ADR A133		x	x	x	x	
GTSCMIS-ARCHREQ-117		GTSCMIS-ARCHREQ-117	G-TSCMIS shall be implemented using the applicable standards listed in the <i>Joint C2 Standards Profile</i> .	Joint C2 Technical Standards Profile.		x	x	x	x	08July: removed "CMs"



APPENDIX B ACRONYM LIST

Acronym	Definition
BDTR	Build Decision Technical Review
CDP	Capability Definition Package
COI	Community of Interest
G-TSCMIS	Global – Theater Security Cooperative Management Information System
MC2	Maritime Command and Control
SRS-RTM	System Requirements Specification-Requirements Traceability Matrix
WBS	Work Breakdown Structure