



Defense Information Systems Agency

A Combat Support Agency

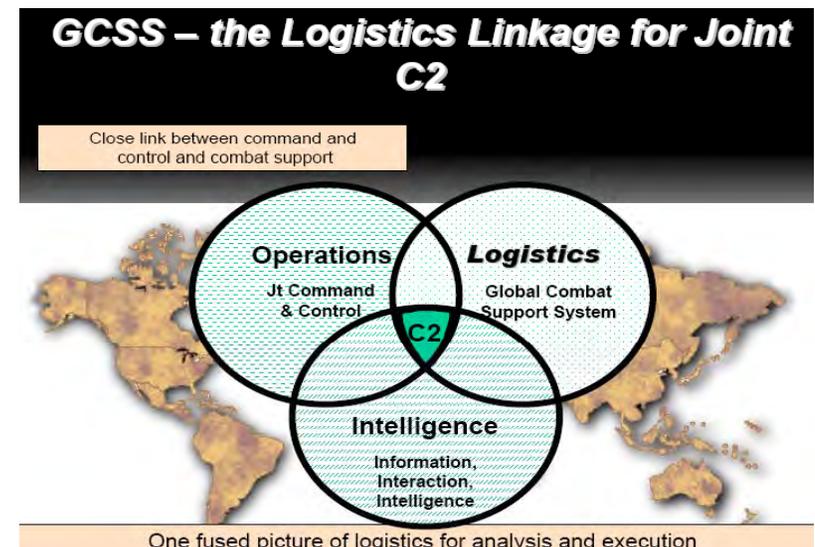
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Global Combat Support System – Joint Program Overview 7.3.2 2012-08-21

Global Combat Support System-Joint



- Functional Sponsor: Director for Logistics Joint Staff (DJ4)
- Acquisition Category: 1AC
- Milestone Decision Authority: DISA Component Acquisition Executive
- Operational Test Authority: Joint Interoperability Test Command (JITC)
- Certifying Agency: Defense Intelligence Agency (DIA)
- Designated Approval Authority: STRATCOM
- Mission Assurance Level: MAC II
- Requirements Authority: JS J4
- Current Operating System: v7.3.2
- Customers:
 - Combatant Commands
 - Joint Task Force Commanders
 - Other Agencies
- Operational Concept:
 - Strategic Servers
 - SMC-Montgomery – Primary / DECC-Pacific – Failover

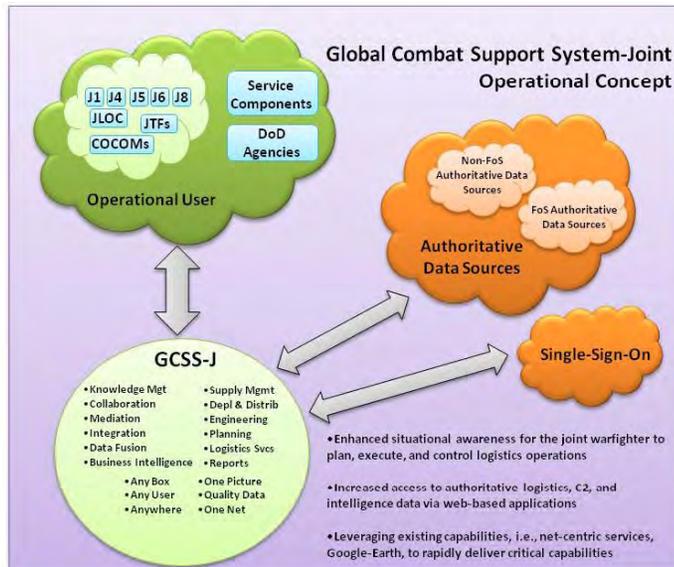


Operational View



Joint Staff Focused Logistics Vision:

Dynamic Logistics -> Nothing Constrained -> Everything Possible



- ☑ The **right** personnel, equipment, supplies, and support
- ☑ In the **right** place
- ☑ At the **right** time
- ☑ In the **right** quantities
- ☑ Across the **full spectrum** of military operations

- Delivers accurate, timely, and relevant information to the joint logistics warfighter
 - Enables asset visibility from disparate authoritative data sources to provide the warfighter an integrated picture of the battlespace
- Operates in a web-centric / net-centric environment to provide information to authorized users regardless of geographic location
- Combines logistics information with operations and intelligence to provide the joint warfighter the ability to plan, execute, and control logistics operations.

GCSS-J provides enhanced decision support and situational awareness to the warfighter



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Google Earth



GCSS-J User



NGA GVS
Map Layers



Global Combat Support

Global Information Grid (GIG) Content Delivery Service (GCDS)

SIPR only

Security Gateway (DataPower)
Security: DOD PKI and Form-based Authentication



Web Service
Consumer

GCSS-J Home Page
Announcements, Datasource Availability, Links, Memberships, Data Import

Single Sign-on Joint Planning and Execution Services (JPES)

Incoming
Web Services



WebREPOL



JPES PDP



ITV-SAT



AF Munitions



ONI
SeaWatch

Joint Capability Area (JCA) Environment

Mapping and Reporting Capability

4.1 Deployment & Distribution
➤ Distribution

4.2 Supply
➤ Watchboards
➤ Log Analysis
➤ Admin

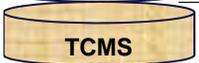
4.6 Engineering
➤ Engineering Plans
➤ Engineering Reports

5.3 Planning
➤ Reports

Incoming
Web Services



MIDB



TCMS

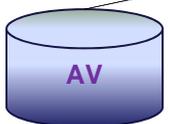
Data Services

Enterprise Data Services (EDS) ↔ Oracle
Includes ABFC, GEOBEST, Airfields, Seaports, and other local data.

File Uploads

FES
CAS
CIS
IMP
OIS

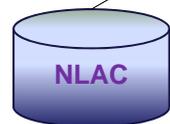
JDBC Connections



AV



IGC



NLAC



GSORTS



GDSS



NGA



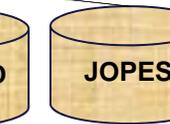
DMDC



CFDB



ITV-RFID



JOPES

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Agile Development
Our Approach



- Functional users define processes and requirements; J4 establishes priorities
- Leverage Use Case Development & User Story Development to translate requirements to capabilities
- Unite functional user and developer virtually and physically
 - SW Drops on *First Look Site*
 - Face-to-face meetings with users
 - Immediate user feedback
- Include Test Community early in the development process
- Conduct daily scrums to better guide development efforts
 - *What Did I Accomplish Yesterday*
 - *What Do I Plan To Accomplish Today*
 - *What Issues Do I Have – Issues Resolved In Hours*
- Release products via smaller increments of capability
- Deploy capabilities in shorter periods vs. “block” development

PMO Focus – Agile/Flexible



- Agile teams
 - Warfighter, requirements owner (capability area managers), developer, tester
 - Functional process-driven capabilities
 - Business process flow / use cases
- Continuous Process Improvement
 - “Enterprise” – wide
- COTS transition to meet budget reductions
- Continue to work requirements / schedule
- Continue to support JS J4 to establish capability area working groups

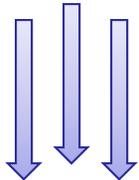
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The Agile Machine



Our Development Process



Requirements from
 COCOM, Services, and Agencies



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

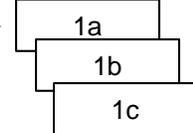
Requirements
 prioritized in
 product backlog
 by the Joint Staff



System Developers



Sprint Planning



Sprint Backlog

20-Day Development Cycle

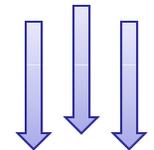
Daily meetings with the Government
 Program Office and Development Team



Potentially
 Shippable Product

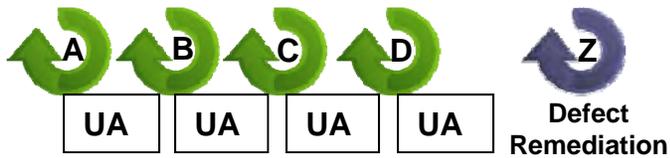


User Assessment



Requirements from
 COCOM, Services, and Agencies

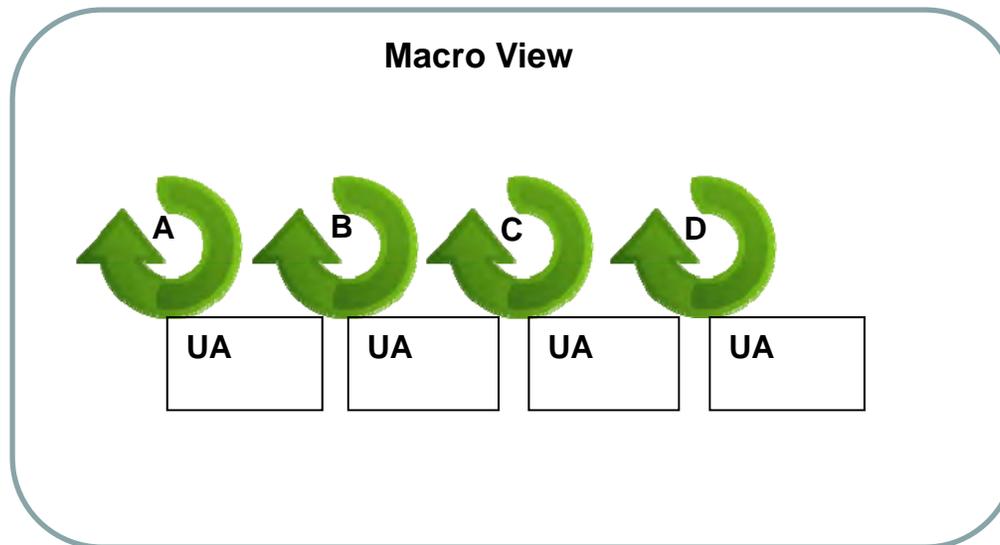
Macro View



User Assessments



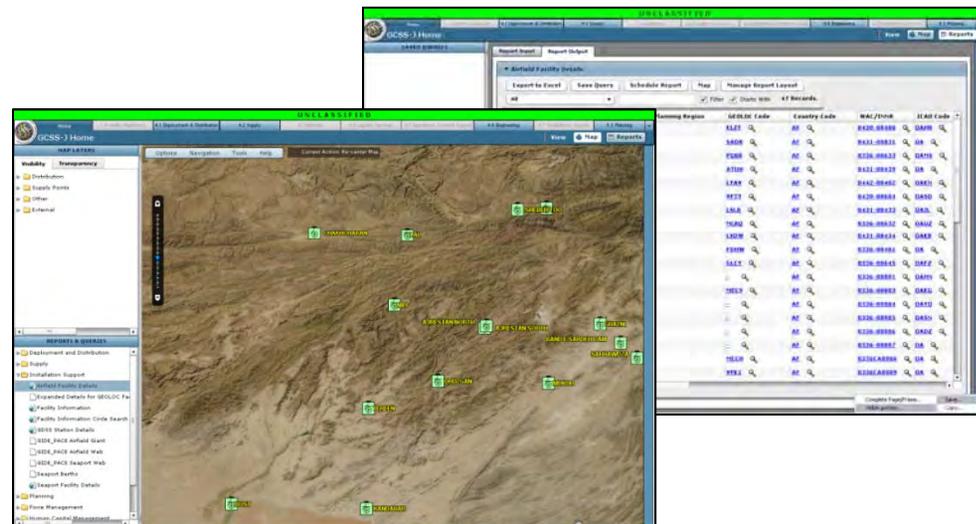
GCSS-J conducts User Assessments (UA) approximately every 30-45 days. These assessments enable users to preview new capabilities and enhancements under development, and provide an opportunity for users to submit comments/feedback directly to the GCSS-J Program Office and Joint Staff J4



Joint Capability Area Layout

GCSS-J has been reorganized into Joint Capability Areas (JCAs), providing users with a clearer workflow and easy to navigate tabs; currently supporting 4.1 Deployment & Distribution, 4.2 Supply, 4.6 Engineering, and 5.3 Planning. Each of the JCAs brings mapping and reporting information to the user, to and assist them in completing their mission.

The new JCA layout includes the ability to seamlessly toggle between a report based view and a map based view



Flex-based Architecture

The new architecture allows data to be manipulated in user's browser which reduces the amount of network traffic resulting in improved performance. Users are able to define their operational picture based on authoritative data sources and mapping layers.

4.1 Deployment & Distribution

- Create air and sea Nodes/Hubs using authoritative data and user supplied data
- Obtain seaport workload and ship container information via the map with only a few clicks
- Access to military and commercial trucks via real time data from Radio Frequency - In Transit Visibility (ITV)
- Access to a variety of reports including:

– Airfield Workload	– Seaport Workload
– TCN Details	– Ship Container List
– GTN Cargo Tracking	– Ship Container Content
– Unit Move – Cargo/PAX	– Cargo Ship Location
– GDSS Mission Itinerary	– Cargo Ship Schedule

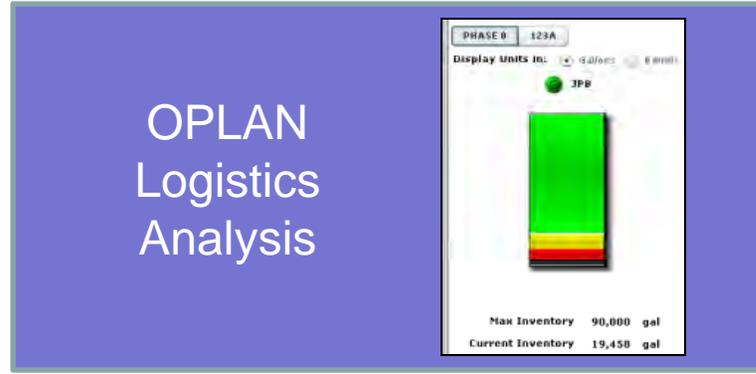
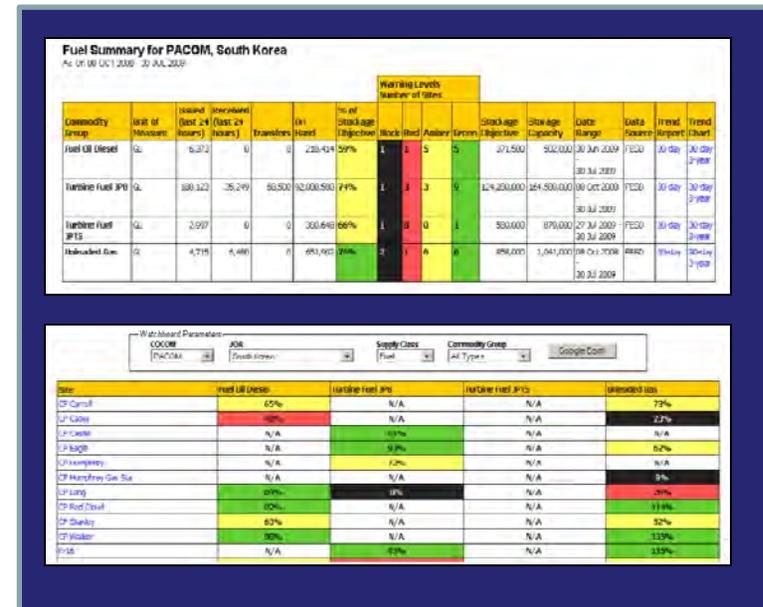




4.2 Supply

Supply operations are supported by the GCSS-J WatchBoards and the Logistics Analysis tool:

- WatchBoards are exportable to excel and Google Earth
- Map-based Logistics Analysis
- Access to a variety of reports including
 - Bulk Fuel Inventory
 - Tanker Deliveries
 - Unit Equipment
 - Requisition Summary
 - Wholesale/Retail Inventory
 - War Reserves
 - Munitions Inventory
 - Requisition Details



4.6 Engineering

The Joint Engineer Planning and Execution System (JEPES) supports deliberate and crisis action planning:

- Create and edit plans using a map-based interface
- View construction report summaries for both materials and man-hours



Capabilities



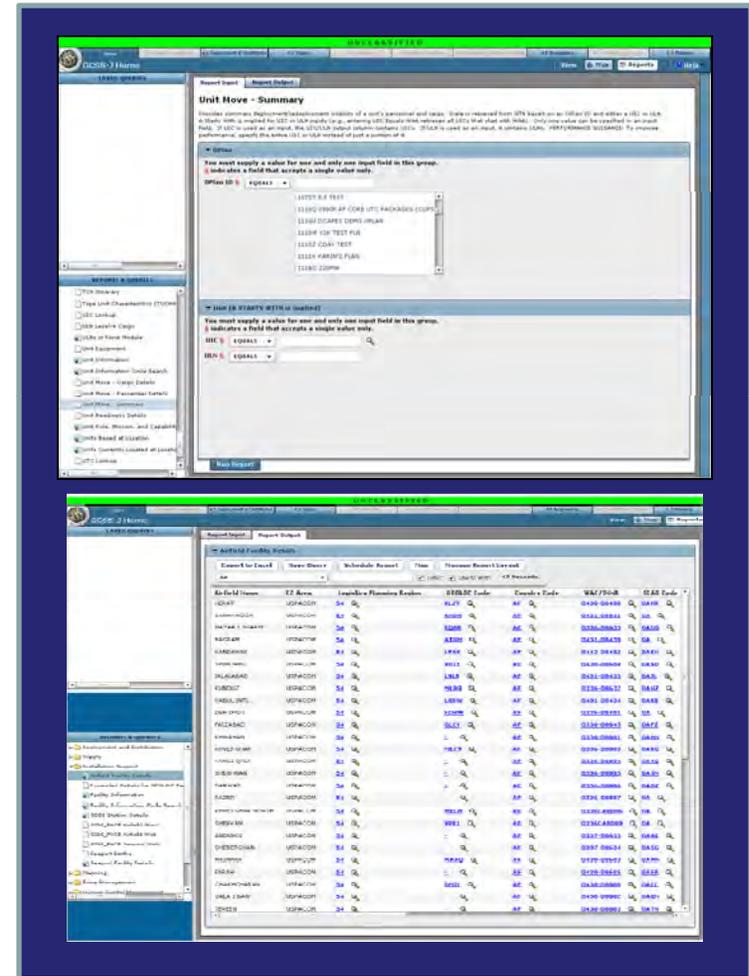
5.3 Planning

Planning is supported via the GCSS-J Reporting Tool. Some of the reports available to support planning include:

- Air Tracker
- OPLAN Analysis
- Expanded OPLAN Details
- Readiness for Units in OPLAN
- Unit Move – Cargo Details
- ULNs in Force Module
- OPLAN PIN Analysis
- OPLAN CIN Details
- ULN Level-4 Detail

The Joint Planning and Execution Services leveraged GCSS-J's reporting capability to support planning. Some of the reports will include:

- **Logistics**
 - Sustainment Summary

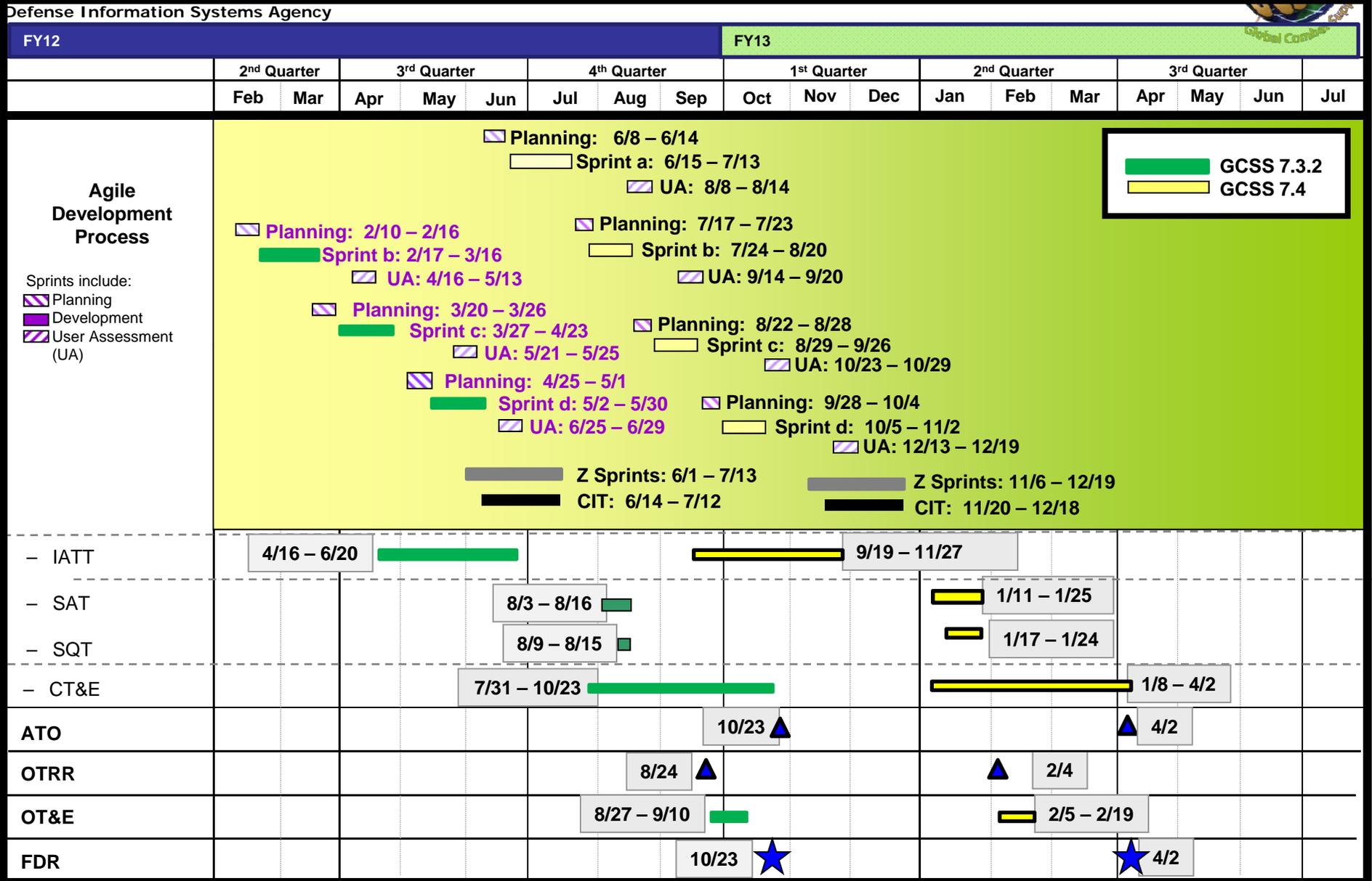


Note: Joint Operational Planning and Execution System (JOPES) access required for certain reports



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GCSS Increment 7, v7.3.2/v7.4 Schedule



As of 3/23/12

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Summary



- Supports the Combatant Command and Joint Task Force Commanders
- Vision: Dynamic Logistics -> Nothing Constrained -> Everything Possible
- Available on both the SIPRNet and NIPRNet
- Employ an agile development methodology
- Field new capabilities or enhanced capabilities every 6 months
- Continue to remain flexible seeking new ways to improve processes

