JMPS v.1 Interface with GCCS-I3/M
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Mary Collins
Brandes Associates Inc.
805-989-0488
mcollins@brandes-assoc.com
collins@ptmugu1.pacom.ic.gov

Briefing Outline

- JMPS v.1 SSS Requirements
- Technical Approach
- Schedules
- Issues

JMPS v.1 SSS Requirements

- Interface with MIDB data
- Interface with GCCS-M/TBM*
- Order of Battle ‘Canned’ Queries
- Order of Battle ‘Ad Hoc’ Queries

*TBM: Theater Battle Management (USAF equivalent of GCCS-M)

JMPS v.1 SSS Requirements Interface with MIDB Data

JMPS-081-10400:
JMPS shall provide the capability to receive the MIDB database.
JMPS-081-10500:
JMPS shall provide the capability to receive transaction format updates* to MIDB.
JMPS-006-02040:
JMPS Data Communications shall be interoperable with data from GCCS-M, Theater Battle Management (TBM).

Being interpreted to mean 'changes.'

JMPS v.1 SSS Requirements 'Canned/Ad-Hoc' Intel Queries

JMPS-018-00200: JMPS shall provide the capability for the user to invoke canned queries of intelligence databases in order to display order of battle information for an area of operation.

JMPS-018-00250: JMPS shall provide the capability for the user to construct queries of intelligence databases in order to display order of battle information for an area of operation.

JMPS-018-00070: JMPS shall display standardized and certified intelligence in response to user queries.

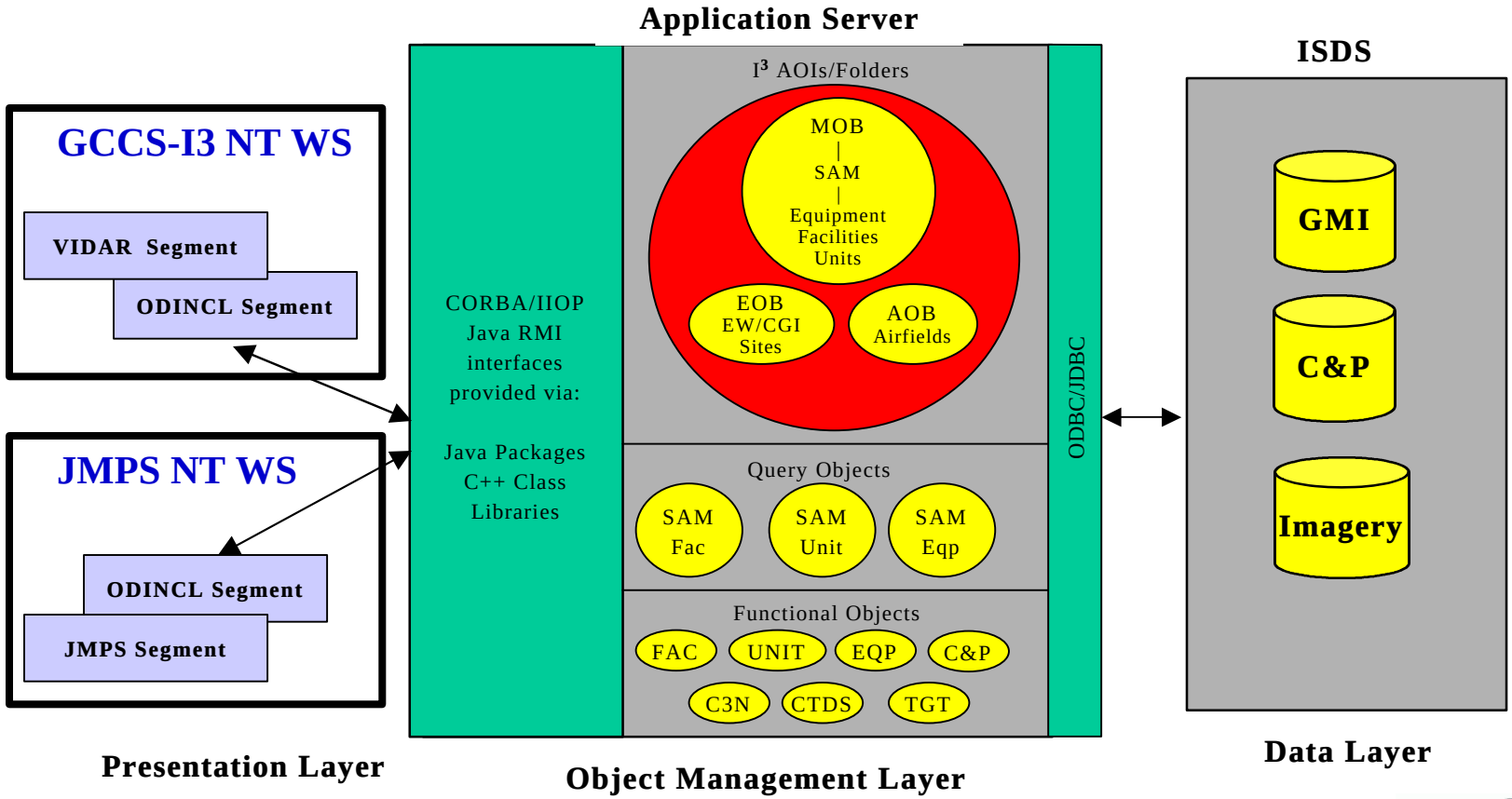
JMPS-018-12400: JMPS shall provide the capability for the user to query intelligence databases to obtain information on the enemy's Anti-Aircraft Artillery (AAA) capabilities.

These are just a few examples

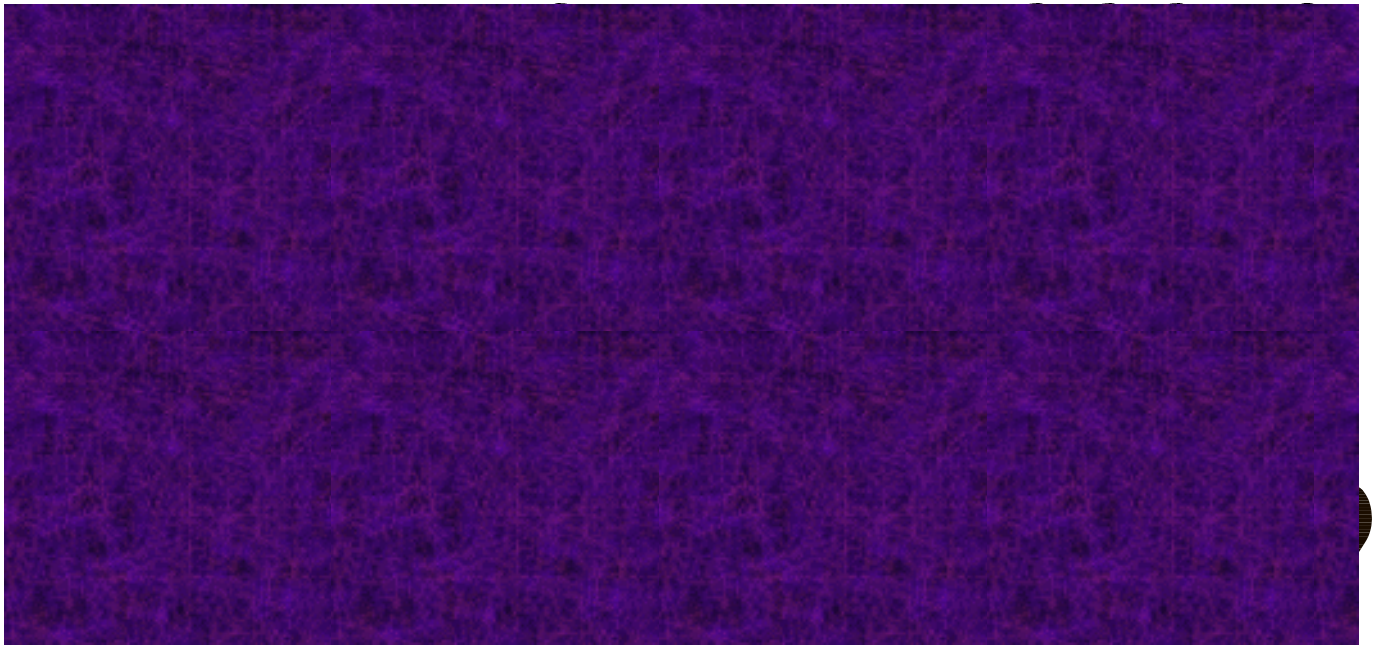
JMPS Technical Approach

GCCS-I3 Data Access Layer

DAL: Access layer that isolates ISDS clients from schema changes to I^3 databases residing on the ISDS.



Intel Feed Solution



Navy and Air Force accepted Logicon's technical approach (interface to GCCS-I3 via the Data Access Layer [DAL]) for MIDB on 17 Apr 2000.

Schedules

Build Schedules

- DII COE Releases
  - **K4.1.1/I2.2 SD1 12/15/99; K4.1.2/I 4.2 SD2 2/15/00**
  - **K4.2.0.0 P1/ICSF 4.2.0 0 Final 3/22/00;**
  - **K4.2.0.0 P2/ICSF 4.3.0.0 SD1 6/9/00**
  - **K4.3.0.0/ICSF 4.3.0 0 SD2 08/04/00; K4.3/ICSF 4.3 Final 9/22/00**
  - **4.4 Final 4/06/01**
- GCCS-M Integration Build Schedule
  - **2.0 01/12/00; 2.1 03/20/00**
  - **3.0 05/22/00; 3.1 07/17/00**
  - **4.0 09/05/00; 4.1 10/23/00**

Where does the DAL fit in to the DII COE/GCCS-M Schedule?

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Note: GCCS-M Build 3.0 was originally scheduled for 4/24/00. The 3.0 delivery is the first one utilizing the intended DAL interface (Enterprise Java Bean/EJB); JMPS can start development with this delivery.

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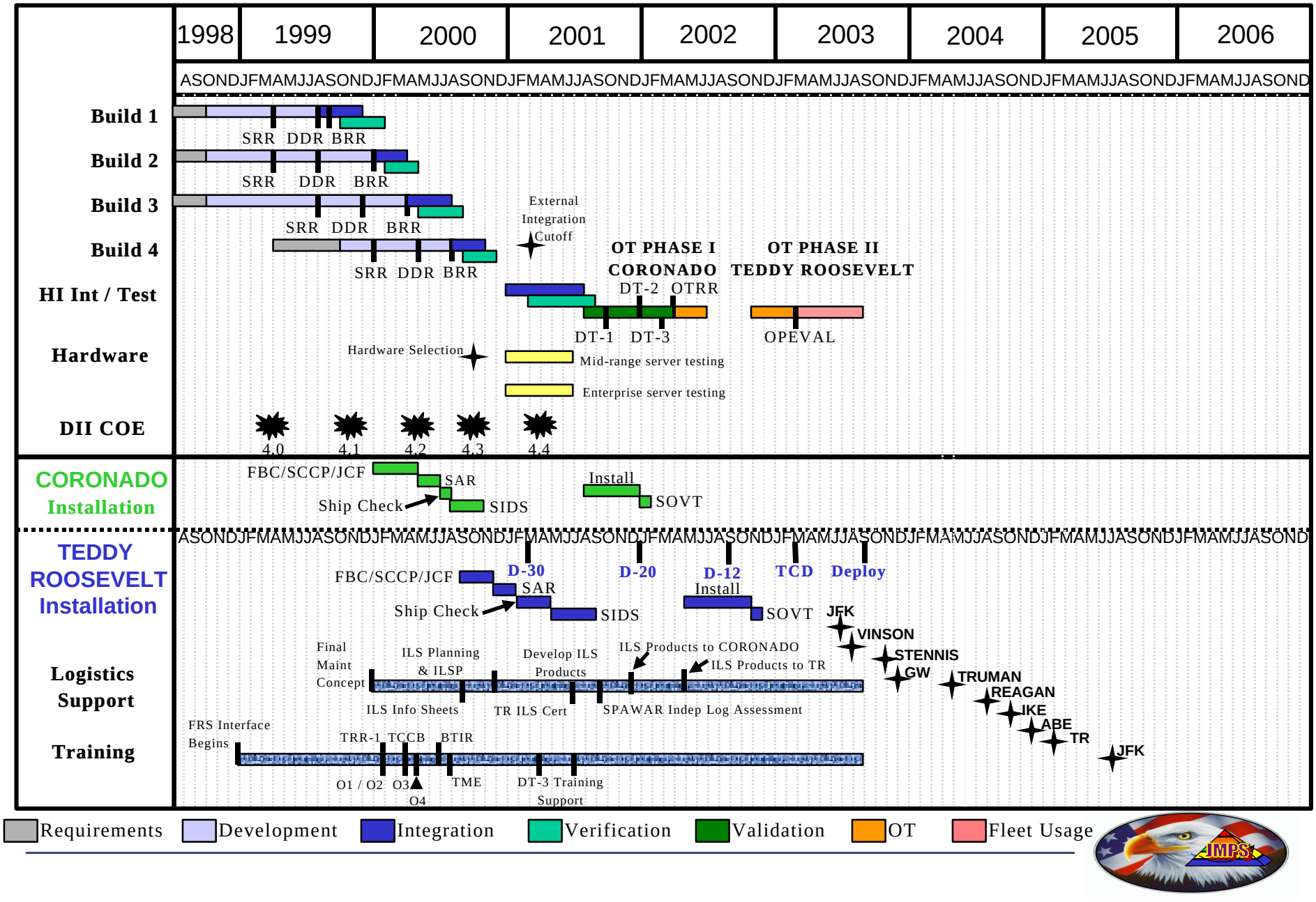
  - **4.4 Final 4/06/01**
- JMPS v.1 DII COE Build Plan
  - **Beta 4 05/01/01**
  - **Beta 5 09/21/01 (Threat functions are planned for Beta 5)**
  - **Beta 6 12/21/01**

SPAWAR Horizontal Integration/4.X (05/01/00)



SPAWAR Horizontal Integration/4.X

Schedule on previous slide (dated 05/01/00) was downloaded from:

http://c4iweb.spawar.navy.mil/pm/SystemsEng/index.htm

JMPS v.1 Issues

Use GCCS-I3/M segments or build our own?

- Writing new software to access ISDS directly is not supported by SPAWAR
  - SPAWAR cannot guarantee that the ISDS Data Base structure will not change (we already know that MIDB is changing)
- Using GCCS-I3 segments (which use the DAL) to access ISDS is encouraged by SPAWAR
  - Probably not usable by JMPS if tied to DII COE map
- Developing new software (which uses the DAL) to access ISDS is supported by SPAWAR
  - Requires technical interchange with PRC
  - Requires familiarity with DAL SDK and ODINCL

How does an external system use the DAL?

- First version of DAL Software Development Kit (SDK) received on 3/10/00
- Second version of DAL SDK received on 4/26/00
  - Supports Java; JMPS has requested C++ support
    - C++ support is expected by Summer 2000
  - SDK Distribution
    - SDIPT (Bielewicz, Denny, Dallas, Millard)
    - Air Force ESC/Mitre (Cahill, Swartz, Tomasi)
    - Navy NAWCWD (Pearson, Collins)
  - Updated versions of SDK expected with each Build
- ODINCL segment required on client (e.g., JMPS)
  - First EJB version scheduled for 5/22/00

Current Status of JMPS Use of the DAL

- 4/17/00
  - Government accepted Logicon's technical approach
- 4/26/00
  - Logicon received latest version (4/25) of the DAL SDK
- GCCS-M 4.X System being set up at NAWCWD
  - Hardware is being identified
    - ISDS (GCCS-M 3.1.2.1 on HP, for now), App Server (must be Sun/Solaris 7), 2 NT machines
  - COTS App Server Product (WebLogic Server 5.1)
  - Awaiting GCCS-M/I3 Build 3 segments
    - Currently scheduled for 5/22/00 delivery from PRC to SPAWAR SD

Purpose of GCCS-M 4.X System at NAWCWD

- Provide JMPS team the opportunity for familiarity with GCCS-M/I3 Intelligence-related functions
  - Applications such as VIDAR (I3 Workspace)
  - Experience with segment installation
- Provide opportunity for Logicon to execute* software developed using the DAL SDK
  - One NT machine will be dedicated to Logicon use

**Logicon can develop application software utilizing the DAL, but this software cannot be executed without having the NT machine connected to the AppServer/ISDS.*

Proposed GCCS-M 4.X System at NAWCWD