

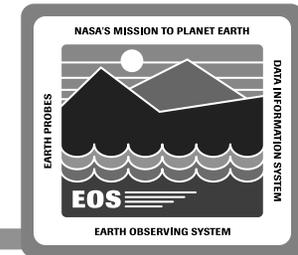
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# Attachment: FOS Release B Summary

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20 August 1997

# FOS Release A Capabilities



## Scheduling

### Planning & Scheduling

BAP Definer Tool  
 Activity Definer Tool  
 Detailed Activity Schedule  
 Timeline Tool  
 ASTER I/F Filter

### Command Mgt.

Uplink Load Generation  
 ATC Load Generation  
 Ground Sched. Generation

## Real-Time

### Resource Mgt.

String Manager  
 Command Authority  
 Ground Control Privilege

### Telemetry

Decom Engine  
 Mirrored Telemetry  
 Parameter Server

### Command

Cmd. Validation, Generation,  
 Uplink, and Notification

### Real-Time Contact Mgt.

NCC GCMRs

## Analysis

### FUI

Analysis Request Tool  
 Analysis Report Generation

### Analysis

User Selected Statistics  
 Basic Analysis Request

### Data Mgt.

Data Archive

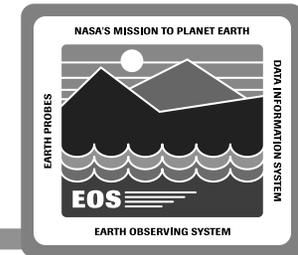
## Support Services

ECL	Screen Management	Display Builder	Time Selector	DB Generation
Events	Window Manipulation	Procedure Builder	Ground Script Control	(Activities, Cmd, Tlm)
Help	Status Window	Room Builder	DB Edit	

## Infrastructure

Message Passing	Name Services	Network Services	Interface Connectivity
Security Services	Directory Services	Management Services	Time Services

# FOS Release B Capabilities



**Scheduling**

**Planning & Scheduling**  
 Timeline Tool  
 Planning Aids Mgt.  
 TDRS Scheduling  
 Activity Constraint Check  
 What-If

**Command Mgt.**  
 Cmd. Constraint Check  
 Load Catalog/Reports  
 Generate Patch Loads  
 Memory Mgt./Compares  
 Load Manager  
 Microprocessor Loads  
 RTS Load Builder

**Real-Time**

**Resource Mgt.**  
 String Cfg. Change Requests  
 Resource Monitor  
 Failure Recovery

**Telemetry**  
 Derived Parameters, Selective  
 Decom, Tailored Telemetry  
 S/C State Check  
 Memory Dump

**Command**  
 Cmd Verification  
 Load Processing

**Real-Time Contact Mgt.**  
 NCC ODMs, EDOS CODAs

**Analysis**

**FUI**  
 Standing Orders

**Analysis**  
 Clock Correlation  
 Solid State Recorder Mgt.  
 S/C Activity Log  
 System Statistics  
 User-Defined Algorithms  
 Expert Advisor

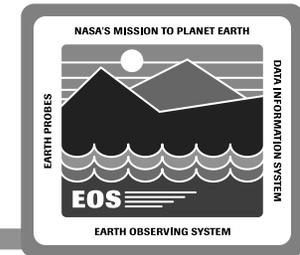
**Data Mgt.**  
 Triggers  
 Queue Mgr.

**Support Services**

User Customization	Report Browser/Editor Tool	DB Backup/Restore	DB Reporting
E-Mail	Quick Msg. & Analysis	Archive Events	DB Maintenance
Document Reader	Display Builder (schematics)	Event History Tool	Data Mover

**Infrastructure**  
 Release A Capabilities  
 Additional Management and Communication Services

# Release Status Summary



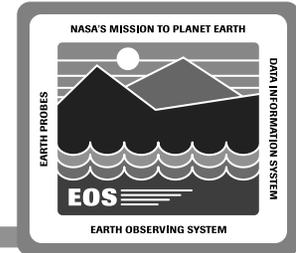
## Requirements Status Summary

- **FOS requirements updates for Release B are in May RTM baseline**
  - Updates focused on refining requirements text for testability purposes
  - Includes mapping between requirements and test procedures

## AM-1 Interface

- **White Paper prepared by NASA/FOS and FOS**
  - Defines current understanding of the interface for each functional area between the FOS and the AM-1 spacecraft
  - Defines interface baseline to effectively manage future spacecraft modifications
  - **FOS Release B is compliant with the White Paper**

# Release Status Summary (cont.)



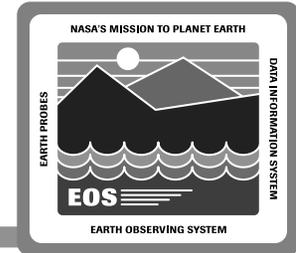
## **Kerberos has been removed**

- **Based on requests by NCC and EDOS**
- **No changes to security requirements**
  - **Simplify implementation for user authentication services**
  - **ICDs need to be updated**

## **GSFC DAAC/FOS Interface Moved to Post-Release B delivery**

- **Approach**
  - **Analogous to PDPS interface**
  - **Code samples have been provided to FOS by PDPS**
- **Impact**
  - **None since FOS has local archive with requisite disk space to support pre-launch activities**
- **Plan**
  - **Interface functionality scheduled for December 1997**

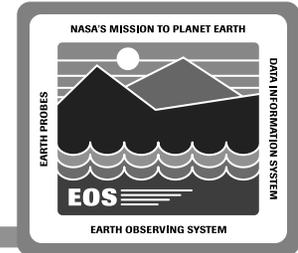
# Release Status Summary (cont.)



## FOS Release B Contingency Implementation Summary

- **Security Services**
  - Authentication
  - Authorization
- **Management Services**
  - Monitor hardware, network, software
  - Trouble-ticketing from ISTs
- **Requirements Impact**
  - EOC interface to SMC is being reviewed
  - Security Service implementation consistent with CDR presentation and ESDIS Security Working Group presentation
  - Management Services reporting level consistent with original ops concept per FOS/CSMS ICD

# Release Status Summary (cont.)



## FOS Release B Contingency Implementation Summary (continued)

- **Communications Server**
  - **Host reflector software**
    - Direct multicast traffic to IST**
  - **Host Netscape Communications Server**
  - **Previously entitled 'Multicast Server'**
- **Management Server**
  - **Prime/backup servers**
  - **Host Tivoli Management software**
  - **Host DCE interface to GSFC DAAC**