

# RELEASE CAPABILITIES MAPPING

Rel	Date	Site(s)	Objectives	Ext I/Fs	Capabilities	SDPS Services	CSMS Services	FOS Services
C	Dec 99 Sep 01	All sites	ECS Evolutionary Enhancements		Evolutionary Enhancements for Information Management, Archive, Science Processing, Mission Operations, Networks and System Management Functions.	<u>Data Server</u> <ul style="list-style-type: none"> <li>• Data Server                             <ul style="list-style-type: none"> <li>- Transfer data and services between data servers</li> <li>- Session time-outs (set by user)</li> <li>- Session logs (user defined)</li> <li>- Compression I/F (user supplied)</li> <li>- Support for user-supplied algorithms</li> </ul> </li> <li>• Data Type                             <ul style="list-style-type: none"> <li>- Enhanced data searches</li> </ul> </li> <li>• Data Storage                             <ul style="list-style-type: none"> <li>- Automatic copying/refresh of media</li> <li>- Delete archive data upon authorized request (set by user to delete user owned files)</li> <li>- Statistically Monitor archive and media characteristics (e.g. BER)</li> </ul> </li> <li>• Distribution                             <ul style="list-style-type: none"> <li>- Allow suspension and restart of distribution requests by users</li> </ul> </li> </ul>	<u>Distributed Computing</u> <ul style="list-style-type: none"> <li>• Object Request Broker                             <ul style="list-style-type: none"> <li>- CORBA 2.0 ORB</li> <li>- dynamic invocation</li> <li>- object adapter</li> <li>- interface repository</li> <li>- implementation repository</li> <li>- operational control</li> <li>- data privacy</li> <li>- association</li> <li>- property</li> <li>- externalization</li> <li>- change management</li> <li>- startups</li> <li>- installation/activation</li> <li>- trading (load balancing and quality of service)</li> <li>- isecurity (internationalization, public key/private key)</li> </ul> </li> <li>• Object Services                             <ul style="list-style-type: none"> <li>- OMG compliant services</li> <li>- trader enhancements</li> <li>- Transaction Processing</li> <li>- Concurrency</li> </ul> </li> <li>• Common Facilities                             <ul style="list-style-type: none"> <li>- multimedia services</li> </ul> </li> <li>• Common Management                             <ul style="list-style-type: none"> <li>- management user interface with OO adaptation</li> <li>- monitoring (OO adaptation)</li> </ul> </li> </ul>	

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C (cont)						<p><u>Planning</u></p> <ul style="list-style-type: none"> <li>• Production Planning                             <ul style="list-style-type: none"> <li>- String load balancing (enhanced multiple DAAC strategy)</li> </ul> </li> <li>• Production Management                             <ul style="list-style-type: none"> <li>- Fully automated replan; evolutionary enhancement</li> </ul> </li> </ul> <p><u>Data Processing</u></p> <ul style="list-style-type: none"> <li>• Processing Execution                             <ul style="list-style-type: none"> <li>- Complete queuing functionality across strings (enhanced inter-DAAC dependent coordination)</li> </ul> </li> </ul> <p><u>Client</u></p> <ul style="list-style-type: none"> <li>- Dynamic construction of screens (user redefinition of screen layout)</li> <li>- Support Interactive user updates to orders</li> </ul> <p>-DAR status integrated with tracking of distribution requests</p> <p><u>Data Management</u></p> <ul style="list-style-type: none"> <li>• DIM                             <ul style="list-style-type: none"> <li>- Optimized distributed heterogeneous search</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- object management APIs</li> <li>- instance Management</li> <li>- policy management</li> <li>- policy-driven base</li> </ul> <ul style="list-style-type: none"> <li>- discovery (OO based)</li> <li>- customization</li> <li>- Load Balancing</li> </ul> <p><u>System Management</u></p> <ul style="list-style-type: none"> <li>• Accounting Management                             <ul style="list-style-type: none"> <li>- enhanced accounting and billing</li> </ul> </li> <li>• Common Management                             <ul style="list-style-type: none"> <li>- OO system management</li> <li>- enhanced managed objects</li> </ul> </li> </ul>	