

CR #96-0335b

his Version (B) of CCR-96-0335 differ from the previous versions as follows:

The following paragraphs are moved from the the head of Table I and placed on this page:

This Version (A) delete Level 4 requirements changes from all table referring to X.400. Those requirements are C-CSS-61040, and 61010.

The link tables are updated.

The modifocation table for the X.400 related requirements is removed and resulted in renumbering those tables which followed the deleted table in the original CCR.

The deletd table was Table IV in the original CCR.

Table VI is changed to show only the information that is to be affected by this CCR. The RBR data is not important to the proposed changes and should not have been placed in this table.

Mandatory Attributes are added for the Level 4 requirements that are new, those that have proposed modifications, and those that propose link changes without deleting the requirement.

ABLE I: Table I is the MASTER table for the RBR and Level 4 requirements that are affected by this CCR.

RBR ID	RBR KEY	RBR TEXT	RBR TYPE	RBR INTERP	L4 ID	RTM KEY	REL	L4 RQT TYPE	L4 TEXT	CLARI FIC
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		C-CSS-29000	7364	B	functional	The CSS Transaction Processing Service shall be object oriented.	
EOSD1990#B	3880	The ECS system and elements shall employ security measures and techniques for all applicable security disciplines which are identified in the preceding documents. These documents shall provide the basis for the ECS security policy.	security		C-CSS-29010	7365	B	functional	The CSS Transaction Processing Service shall use the CSS Security services.	
ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		C-CSS-29020	7366	B	functional	The CSS Transaction Processing Service shall support the management of OODCE-based servers.	
ESN-1070#B	3999	The ESN shall provide the capability to perform the following functions, at a minimum: a. generate/collect network statistics b. control collection/generation of network statistics c. store system statistics and statistical histories d. display the system statistics e. track end-to-end transaction performance	functional		C-CSS-29030	7367	B	functional	The CSS Transaction Processing Service shall provide to the client and server the following features: — a. Atomicity – All components of the transaction shall succeed or fail as a unit. — b. Consistency – The actions performed by a transaction shall take data from one consistent state to another consistent state. — c. Isolation – Transactions performed simultaneously shall not interfere with each other. — d. Durability – The effect of committed transactions shall be permanent. Subsequent system failures shall not cause the unrecoverable loss of data.	

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ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		C-CSS-29040	-7368	B	functional	The CSS Transaction Processing Service shall provide load balancing for OODCE-based servers.
EOSD2990#B	3895	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.	security	B: all DAACs	C-CSS-29050	-7369	B	functional	The CSS Transaction Processing Service shall provide for the integrity of data by means of component rollback in the event of system failure.
ESN-1070#B	3999	The ESN shall provide the capability to perform the following functions, at a minimum: a. generate/collect network statistics b. control collection/generation of network statistics c. store system statistics and statistical histories d. display the system statistics e. track end-to-end transaction performance	functional		C-CSS-29060	-7370	B	functional	The CSS Transaction Processing Service shall provide client request queuing during data server unavailability.
ESN-1070#B	3999	The ESN shall provide the capability to perform the following functions, at a minimum: a. generate/collect network statistics b. control collection/generation of network statistics c. store system statistics and statistical histories d. display the system statistics e. track end-to-end transaction performance	functional		C-CSS-29070	-7371	B	functional	The CSS Transaction Processing Service shall provide client request dequeuing of queued requests when data server has rebooted.
EOSD2990#B	3895	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.	security	B: all DAACs	C-CSS-29080	-7372	B	functional	The CSS Transaction Processing Service shall provide the capability of recovering from multiple failures without loss of data.
EOSD1990#B	3880	The ECS system and elements shall employ security measures and techniques for all applicable security disciplines which are identified in the preceding documents. These documents shall provide the basis for the ECS security policy.	security		C-CSS-65000	7381	B	functional	The CSS Secure Web service shall support the Kerberos standard.

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ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65010	7382	B	functional	The CSS Secure Web service shall support POSIX compliant Access Control List (ACL).
EO5D5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65020	7383	B	functional	The CSS Secure Web service shall support at a minimum the GET and POST HTTP methods.
EO5D5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65030	7384	B	functional	The CSS Secure Web service shall provide a registration interface for the user to register documents to the web server.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65040	7385	B	functional	Documents ACL on the web server shall be editable with any standard ACL editor.
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		C-CSS-65050	7386	B	functional	The CSS Secure service Web shall use DCE RPC's that will allow the server to use DCE provided services.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65060	7387	B	functional	The CSS Secure Web service shall support the Data Encryption Standard (DES) to encrypt and decrypt data.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65070	7388	B	functional	The CSS Secure Web service shall support encryption of the HTTP protocol.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65080	7389	B	functional	The CSS Secure Web service shall support private keys.
ESN-0640#B	3976	The ESN shall include management functions at each ECS element, equipment or gateway within the ESN.	functional		C-CSS-65090	7390	B	functional	The CSS Secure Web service shall provide an interface for the administration of the web server.
EO5D5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65100	7391	B	functional	The CSS Secure Web service shall provide an API that will support the porting of existing applications to the DCE environment.

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ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65110	7392	B	functional	The CSS Secure Web service shall support a two-way authentication and authorization for the use by the web server.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65120	7393	B	functional	The CSS Secure Web service shall authenticate and authorize DCE users using the web server.
ESN-0840#B	3990	The ESN shall have error reporting, event logging and generation of alerts.	functional		C-CSS-65130	7394	B	functional	The CSS Secure Web service must provide HTML-formatted error messages to the web browser.
EO5D5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65140	7395	B	functional	The CSS Secure Web service shall provide a mechanism for non-DCE browsers to view non-secured documents on the web server.
EO5D5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65150	7396	B	functional	The CSS Secure Web service shall provide a mechanism or DCE capable browser to view non-secured and secured documents on the web server.
ESN-0490#B	3970	The ESN shall provide a name-to-attribute mapping Directory Service at a minimum.	functional		C-CSS-65160	7397	B	functional	The CSS Secure Web service shall support the X.500 standard for naming and locating DCE cells.
ESN-0490#B	3970	The ESN shall provide a name-to-attribute mapping Directory Service at a minimum.	functional		C-CSS-65170	7398	B	functional	The CSS Secure Web service shall support the Domain Name Service specification.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65180	7399	B	functional	The CSS Secure Web service shall provide the capability to support encryption to keep data exchange between the browser and the server confidential.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65190	7400	B	functional	All requests from a client shall provide the web server with the individual user name.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65200	7401	B	functional	The CSS Secure Web service shall use DCE's ACLs to protect all documents on the web server.

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ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65210	7402	B	functional	The CSS Secure Web service shall use the Extended Generic Security Service API for message passing applications to use DCE security.
EOSD5030#B	3934	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	evolvable		C-CSS-65220	7403	B	functional	The CSS Secure Web service shall be based on the HTTP protocol for message passing.
IMS-0120#B	4961	The IMS shall provide, dependent upon the user's display device capabilities, a user-friendly interface with the following features at a minimum: a. Multiple window display b. Buttons and pull down menus c. Valid lists for all variables d. An information base of associations between variables (e.g., between instruments and geophysical parameters) e. Ability to restore a session after interruption f. Context-sensitive help g. Minimal and consistent use of non-standard keys h. Random movement through fields i. Capability to save and restore the contents of a menu or form j. Standardized use of commands and terminology across screens k. Self-explanatory, meaningful error messages l. Automatic acronym expansion, which can be enabled and disabled interactively m. Availability of a menu tree diagram n. Command language	functional	B: VALID LISTS FOR VARIABLES FOR ASTER PRODUCTS BECOME AVAILABLE	C-CSS-65230	7404	B	functional	The CSS Secure Web service shall support the browser used by the Client subsystem.
ESN-1400#B	4017	The following security functions and services, at a minimum, shall be provided: a. authentication b. access (authorization) control c. data integrity d. data confidentiality	security		C-CSS-65240	7405	B	functional	The CSS Secure Web service shall provide attributes to the browser indicating documents with special security restrictions.
EOSD3000#B	3896	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	C-CSS-24030	7358	B	functional	The CSS Lifecycle Service shall provide an API that accepts resource preference information.
EOSD3000#B	3896	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	C-CSS-24050	7360	B	functional	The CSS Lifecycle Service shall ensure that a server is available to service a user request.

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ESN-0340#B	3965	The ESN shall interoperate and exchange messages and data with external SMTP and X.400 mail systems.	functional		C-CSS-61030	451	A	functional	The CSS Electronic Mail Service shall use the existing X.400 gateway available at GSFC to support X.400 operations.
ESN-0340#A	5306	The ESN shall interoperate and exchange messages and data with external SMTP and X.400 mail systems.	functional		C-CSS-61030	451	A	functional	The CSS Electronic Mail Service shall use the existing X.400 gateway available at GSFC to support X.400 operations.
EOSD5010#A	5171	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30010</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>accept basic process information that is needed while starting up client and server applications using a set of variables defined in a configuration file.</u>
EOSD5010#B	3932	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30010</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>accept basic process information that is needed while starting up client and server applications using a set of variables defined in a configuration file.</u>
EOSD5010#A	5171	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30020</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>also accept variables from the command line.</u>
EOSD5010#B	3932	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30020</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>also accept variables from the command line.</u>
EOSD5010#B	3932	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30030</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>always provide a higher precedence to the variables defined on the command line.</u>
EOSD5010#A	5171	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.	security		<u>C-CSS-30030</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>always provide a higher precedence to the variables defined on the command line.</u>
ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	The Process Framework shall <u>exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>

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ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>
EOSD0500#A	5598	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	functional	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>
ESN-0010#A	5196	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security	A: "mission critical" designation. Those that refer to NSI should be "mission success"?	<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>

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ESN-0450#A	5316	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>
EOSD0500#B	3831	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	functional	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	<u>C-CSS-30040</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.</u>
ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		<u>C-CSS-30050</u>	New	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability for a process to get the following information:</u> <u>a. Mode of operation</u> <u>b. Delta Time</u> <u>c. Executable name</u> <u>d. Process ID</u> <u>e. Application ID</u> <u>f. Program ID</u> <u>g. Major Version</u> <u>h. Minor Version</u>

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ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30050</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability for a process to get the following information:</u> <u>a. Mode of operation</u> <u>b. Delta Time</u> <u>c. Executable name</u> <u>d. Process ID</u> <u>e. Application ID</u> <u>f. Program ID</u> <u>g. Major Version</u> <u>h. Minor Version</u>	
EOSD0500#A	5598	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	functional	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	<u>C-CSS-30050</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability for a process to get the following information:</u> <u>a. Mode of operation</u> <u>b. Delta Time</u> <u>c. Executable name</u> <u>d. Process ID</u> <u>e. Application ID</u> <u>f. Program ID</u> <u>g. Major Version</u> <u>h. Minor Version</u>	

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ESN-0010#A	5196	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security	<p>A: "mission critical" designation . Those that refer to NSI should be "mission success"?</p>	<u>C-CSS-30050</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide the ability for a process to get the following information:</p> <ul style="list-style-type: none"> a. <u>Mode of operation</u> b. <u>Delta Time</u> c. <u>Executable name</u> d. <u>Process ID</u> e. <u>Application ID</u> f. <u>Program ID</u> g. <u>Major Version</u> h. <u>Minor Version</u>
ESN-0450#A	5316	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30050</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide the ability for a process to get the following information:</p> <ul style="list-style-type: none"> a. <u>Mode of operation</u> b. <u>Delta Time</u> c. <u>Executable name</u> d. <u>Process ID</u> e. <u>Application ID</u> f. <u>Program ID</u> g. <u>Major Version</u> h. <u>Minor Version</u>

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EOSD0500#B	3831	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30050</u>	New	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide the ability for a process to get the following information:</u></p> <ul style="list-style-type: none"> <u>a. Mode of operation</u> <u>b. Delta Time</u> <u>c. Executable name</u> <u>d. Process ID</u> <u>e. Application ID</u> <u>f. Program ID</u> <u>g. Major Version</u> <u>h. Minor Version</u>
ESN-0010#B	3955	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security		<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters:</u></p> <ul style="list-style-type: none"> <u>a. Short name for server</u> <u>b. Profile name</u> <u>c. Group name</u>
ESN-0450#B	3969	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters:</u></p> <ul style="list-style-type: none"> <u>a. Short name for server</u> <u>b. Profile name</u> <u>c. Group name</u>

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E OSD0500#A	5598	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters:</p> <ul style="list-style-type: none"> a. <u>Short name for server</u> b. <u>Profile name</u> c. <u>Group name</u>
ESN-0010#A	5196	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security	<p>A: "mission critical" designation. Those that refer to NSI should be "mission success"?</p>	<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters:</p> <ul style="list-style-type: none"> a. <u>Short name for server</u> b. <u>Profile name</u> c. <u>Group name</u>
ESN-0450#A	5316	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters:</p> <ul style="list-style-type: none"> a. <u>Short name for server</u> b. <u>Profile name</u> c. <u>Group name</u>

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E OSD0500#B	3831	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30060</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall <u>provide interfaces to the underlying distributed architecture to set the following naming parameters:</u></p> <ul style="list-style-type: none"> a. <u>Short name for server</u> b. <u>Profile name</u> c. <u>Group name</u>
ESN-0010#B	3955	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security		<u>C-CSS-30070</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall <u>provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>
ESN-0450#B	3969	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30070</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall <u>provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>

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E OSD0500#A	5598	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30070</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>
ESN-0010#A	5196	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security	<p>A: "mission critical" designation. Those that refer to NSI should be "mission success"?</p>	<u>C-CSS-30070</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>
ESN-0450#A	5316	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30070</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>

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E OSD0500#B	3831	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30070</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity.</u></p>
ESN-1380#A	5247	<p>The ESN shall provide countermeasures for the following security threats related to data communications:</p> <ul style="list-style-type: none"> a. modification of data (i.e., manipulation) while in transit over the network b. disclosure of authentication information c. degradation in network or processing resource performance through denial of service attack d. Impersonation of authentication credentials or authorization privileges. 	security		<u>C-CSS-30080</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters:</u></p> <ul style="list-style-type: none"> <u>a. Server principal name</u> <u>b. Keytab file name</u> <u>c. ACL database filename</u>
ESN-1400#A	5248	<p>The following security functions and services, at a minimum, shall be provided:</p> <ul style="list-style-type: none"> a. authentication b. access (authorization) control c. data integrity d. data confidentiality 	security		<u>C-CSS-30080</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters:</u></p> <ul style="list-style-type: none"> <u>a. Server principal name</u> <u>b. Keytab file name</u> <u>c. ACL database filename</u>

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ESN-1380#B	4016	<p>The ESN shall provide countermeasures for the following security threats related to data communications:</p> <ul style="list-style-type: none"> a. modification of data (i.e., manipulation) while in transit over the network b. disclosure of authentication information c. degradation in network or processing resource performance through denial of service attack d. Impersonation of authentication credentials or authorization privileges. 	security		<u>C-CSS-30080</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters:</p> <ul style="list-style-type: none"> a. <u>Server principal name</u> b. <u>Keytab file name</u> c. <u>ACL database filename</u>
ESN-1400#B	4017	<p>The following security functions and services, at a minimum, shall be provided:</p> <ul style="list-style-type: none"> a. authentication b. access (authorization) control c. data integrity d. data confidentiality 	security		<u>C-CSS-30080</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters:</p> <ul style="list-style-type: none"> a. <u>Server principal name</u> b. <u>Keytab file name</u> c. <u>ACL database filename</u>
EOSD0500#B	3831	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30090</u>	New	<u>A</u>	<u>functional</u>	<p>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</p>

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ESN-0010#A	5196	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security	A: "mission critical" designation . Those that refer to NSI should be "mission success"?	<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</u>	
ESN-0450#A	5316	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</u>	
EOSD0500#A	5598	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	functional	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</u>	

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ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</u>
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy</u>
ESN-0450#A	5316	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30100</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the host policy</u>
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30100</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide an interface to the underlying distributed architecture to set the host policy</u>
ESN-0010#B	3955	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service	security		<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u>
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u>

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EOSD0500#A	5598	<p>ECS shall perform the following major functions:</p> <ul style="list-style-type: none"> a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management 	functional	<p>This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.</p>	<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u></p>
ESN-0010#A	5196	<p>ESN shall provide the following standard services:</p> <ul style="list-style-type: none"> a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services i. Bulletin Board Service 	security	<p>A: "mission critical" designation. Those that refer to NSI should be "mission success"?</p>	<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u></p>
ESN-0450#A	5316	<p>The ESN shall provide process-to-process communication service.</p>	functional		<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<p><u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u></p>

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EOSD0500#B	3831	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	functional	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide the ability to log errors and events for both client and server processes</u>
ESN-0300#A	5304	The file transfer and management non-interactive services shall be able to be scheduled.	functional		<u>C-CSS-30120</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide interfaces to the FTP batch processing facility.</u>
ESN-0300#B	3964	The file transfer and management non-interactive services shall be able to be scheduled.	functional		<u>C-CSS-30120</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide interfaces to the FTP batch processing facility.</u>
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30130</u>	<u>New</u>	<u>B</u>	<u>functional</u>	<u>The Process Framework shall provide interfaces to the Server Request Framework.</u>
ESN-0450#B	3969	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30140</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide interfaces to the Asynchronous Message Passing service.</u>
ESN-0450#A	5316	The ESN shall provide process-to-process communication service.	functional		<u>C-CSS-30140</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Process Framework shall provide interfaces to the Asynchronous Message Passing service.</u>

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EOSD3000#A	5083	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	<u>C-CSS-30150</u>	New	A	functional	The Process Framework shall interface with the Management Agent framework to shutdown an application
EOSD3000#B	3896	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	<u>C-CSS-30150</u>	New	A	functional	The Process Framework shall interface with the Management Agent framework to shutdown an application
EOSD3000#B	3896	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	<u>C-CSS-30160</u>	New	B	functional	The Process Framework shall interface with the Management Agent framework to suspend an application
EOSD3000#B	3896	The ECS shall provide for security safeguards to cover unscheduled system shutdown (aborts) and subsequent restarts, as well as for scheduled system shutdown and operational startup.	security	for each DAAC as applicable to DAAC activation	<u>C-CSS-30170</u>	New	B	functional	The Process Framework shall interface with the Management Agent framework to resume an application
DADS0498#B	3503	Each designated DADS shall receive standing and retrospective product orders from the IMS.	functional	B: On-demand Data Requests, time-based subscriptions	<u>C-CSS-40010</u>	New	A	functional	The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40010</u>	New	A	functional	The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action
SDPS0150#A	6137	The SDPS shall assign priority and distribute expedited data and expedited data availability notices.	functional	For TRMM only	<u>C-CSS-40010</u>	New	A	functional	The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action
SDPS0150#B	6150	The SDPS shall assign priority and distribute expedited data and expedited data availability notices.	functional	For TRMM only	<u>C-CSS-40010</u>	New	A	functional	The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action

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DADS0498#A	4104	Each designated DADS shall receive standing and retrospective product orders from the IMS.	functional	A: Data Request and Subscription processing (based on receipt of data or core metadata, either distribute data or send notification of data availability)	<u>C-CSS-40010</u>	New	A	functional	<u>The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action</u>
DADS0500#A	4105	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40010</u>	New	A	functional	<u>The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action</u>
DADS0498#B	3503	Each designated DADS shall receive standing and retrospective product orders from the IMS.	functional	B: On-demand Data Requests, time-based subscriptions	<u>C-CSS-40040</u>	New	B	functional	<u>The Subscription Service shall validate Subscription Requests for time interval events. Time intervals will be limited to daily, weekly, or monthly.</u>
DADS0498#A	4104	Each designated DADS shall receive standing and retrospective product orders from the IMS.	functional	A: Data Request and Subscription processing (based on receipt of data or core metadata, either distribute data or send notification of data availability)	<u>C-CSS-40060</u>	New	A	functional	<u>The Subscription Service shall validate Subscription Requests for send notification actions.</u>
DADS0500#A	4105	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40060</u>	New	A	functional	<u>The Subscription Service shall validate Subscription Requests for send notification actions.</u>

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DADS0498#B	3503	Each designated DADS shall receive standing and retrospective product orders from the IMS.	functional	B: On-demand Data Requests, time-based subscriptions	<u>C-CSS-40060</u>	New	A	functional	<u>The Subscription Service shall validate Subscription Requests for send notification actions.</u>
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40060</u>	New	A	functional	<u>The Subscription Service shall validate Subscription Requests for send notification actions.</u>
DADS2480#A	4504	Each DADS shall distribute data based upon entries in the standing and the retrospective order distribution list.	functional	A: TRMM - CERES, LIS	<u>C-CSS-40090</u>	New	A	functional	<u>The Subscription Service shall process Subscription Requests at the occurrence of the specified event.</u>
DADS2480#B	3625	Each DADS shall distribute data based upon entries in the standing and the retrospective order distribution list.	functional		<u>C-CSS-40090</u>	New	A	functional	<u>The Subscription Service shall process Subscription Requests at the occurrence of the specified event.</u>
DADS2480#B	3625	Each DADS shall distribute data based upon entries in the standing and the retrospective order distribution list.	functional		<u>C-CSS-40100</u>	New	A	functional	<u>In the event that more than one Subscription is linked to a single event, the Subscription Service shall process the actions defined in the Subscriptions on a first-come, first-serve basis.</u>
DADS2480#A	4504	Each DADS shall distribute data based upon entries in the standing and the retrospective order distribution list.	functional	A: TRMM - CERES, LIS	<u>C-CSS-40100</u>	New	A	functional	<u>In the event that more than one Subscription is linked to a single event, the Subscription Service shall process the actions defined in the Subscriptions on a first-come, first-serve basis.</u>
SDPS0050#A	4154	The SDPS shall archive, manage, quality check, and account for the generated data products, and distribute the data products to the appropriate destinations as required.	functional		<u>C-CSS-40110</u>	New	A	functional	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>
SDPS0080#A	4155	The SDPS shall archive, manage, and quality check and account for all science data received from the EPDSs and ancillary data received from the EPDSs, the SCFs, the ADCs, other DAACs, PIs and the other EOS science users.	functional	A: 3 DAACs, CERES, LIS, TRMM	<u>C-CSS-40110</u>	New	A	functional	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>
DADS1210#A	4452	Each DADS shall prepare, for output to the collocated PGS, data availability notices.	functional		<u>C-CSS-40110</u>	New	A	functional	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>

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SDPS0050#B	5082	The SDPS shall archive, manage, quality check, and account for the generated data products, and distribute the data products to the appropriate destinations as required.	functional		<u>C-CSS-40110</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>
SDPS0080#B	5092	The SDPS shall archive, manage, quality check, and account for all science and ancillary data received from the IPs, the EPDSs, the SCFs, the ADCs, the ODCs, other DAACs, PIs and the other EOS science users.	functional	B: ASTER GDS interfaces to EDC DAAC only.	<u>C-CSS-40110</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>
DADS1210#B	3543	Each DADS shall prepare, for output to the collocated PGS, data availability notices.	functional		<u>C-CSS-40110</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.</u>
DADS0412#B	3490	Each DADS shall notify users when a product becomes eligible for deletion via direct notification and via the ECS bulletin board. The product eligible for deletion shall be deleted after six months unless the DADS is directed otherwise by appropriate authority.	functional		<u>C-CSS-40120</u>	New	B	<u>functional</u>	<u>The Subscription Service shall provide the capability to notify a user that a new version of the data has been archived.</u>
SDPS0080#B	5092	The SDPS shall archive, manage, quality check, and account for all science and ancillary data received from the IPs, the EPDSs, the SCFs, the ADCs, the ODCs, other DAACs, PIs and the other EOS science users.	functional	B: ASTER GDS interfaces to EDC DAAC only.	<u>C-CSS-40120</u>	New	B	<u>functional</u>	<u>The Subscription Service shall provide the capability to notify a user that a new version of the data has been archived.</u>
IMS-0740#B	5210	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, EOC historical data, spacecraft housekeeping and ancillary data, and engineering data.	functional		<u>C-CSS-40140</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability for Subscriptions to notify users via email or directly to a program interface.</u>
IMS-1080#B	5295	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	functional		<u>C-CSS-40140</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability for Subscriptions to notify users via email or directly to a program interface.</u>
IMS-1080#A	5548	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	functional		<u>C-CSS-40140</u>	New	A	<u>functional</u>	<u>The Subscription Service shall provide the capability for Subscriptions to notify users via email or directly to a program interface.</u>

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IMS-0740#A	5529	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, spacecraft housekeeping and ancillary data.	functional	A: Standard products, S/C housekeeping and Ancillary data	<u>C-CSS-40140</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability for Subscriptions to notify users via email or directly to a program interface.</u>
IMS-0740#B	5210	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, EOC historical data, spacecraft housekeeping and ancillary data, and engineering data.	functional		<u>C-CSS-40150</u>	<u>New</u>	<u>B</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability to bundle notification of discrete events into a single notice to the subscriber.</u>
IMS-0920#B	5252	The IMS shall provide the capability for users to construct and submit standing orders and one-time requests for processing of ECS data by pre-existing processes, which shall contain the following information at a minimum: a. Requester identification b. Algorithm input requirements c. Text description of need for processing d. Level 0-4 data set/subset e. Required time of generation f. Requested priority for product processing g. Resulting product type h. Processing parameters	functional		<u>C-CSS-40150</u>	<u>New</u>	<u>B</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability to bundle notification of discrete events into a single notice to the subscriber.</u>
IMS-1080#B	5295	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	functional		<u>C-CSS-40150</u>	<u>New</u>	<u>B</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability to bundle notification of discrete events into a single notice to the subscriber.</u>
DADS0540#B	3507	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.	functional		<u>C-CSS-40160</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability for a user to request notification of data arrival.</u>
DADS0550#B	3508	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).	functional	B: full compatibility	<u>C-CSS-40160</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability for a user to request notification of data arrival.</u>
DADS0540#A	4108	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.	functional	A: TRMM	<u>C-CSS-40160</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability for a user to request notification of data arrival.</u>
DADS0550#A	4109	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).	functional	A: Dependencies b/w CERES, LIS	<u>C-CSS-40160</u>	<u>New</u>	<u>A</u>	<u>functional</u>	<u>The Subscription Service shall provide the capability for a user to request notification of data arrival.</u>

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DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40170</u>	New	B	functional	<u>The Subscription Service shall accept Subscription Update Requests to update stored Subscriptions by changing the event or the action.</u>
DADS2160#A	4448	Each DADS shall maintain a list/schedule of standing orders.	functional	CERES, LIS	<u>C-CSS-40180</u>	New	A	functional	<u>The Subscription Service shall provide the capability for operations staff to view the stored Subscriptions.</u>
DADS2160#B	3597	Each DADS shall maintain a list/schedule of standing orders.	functional	CERES, LIS	<u>C-CSS-40180</u>	New	A	functional	<u>The Subscription Service shall provide the capability for operations staff to view the stored Subscriptions.</u>
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40190</u>	New	B	functional	<u>The Subscription Service shall provide the capability for operations staff to update the stored Subscriptions by changing the event and/or action.</u>
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40200</u>	New	B	functional	<u>The Subscription Service shall provide the capability for a user client to update their stored Subscriptions by changing the action and/or event.</u>
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40210</u>	New	A	functional	<u>The Subscription Service shall provide the capability for operations staff to delete any stored Subscription.</u>
DADS0500#A	4105	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40210</u>	New	A	functional	<u>The Subscription Service shall provide the capability for operations staff to delete any stored Subscription.</u>
DADS0500#A	4105	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40220</u>	New	A	functional	<u>The Subscription Service shall provide the capability for a user to delete their own stored Subscription.</u>
DADS0500#B	3504	Each DADS shall receive changes to standing orders from the IMS.	functional		<u>C-CSS-40220</u>	New	A	functional	<u>The Subscription Service shall provide the capability for a user to delete their own stored Subscription.</u>
IMS-0740#B	5210	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, EOC historical data, spacecraft housekeeping and ancillary data, and engineering data.	functional		<u>C-CSS-40230</u>	New	B	functional	<u>The Subscription Service shall validate that Subscription Update Requests specify a valid Subscription Identifier and a valid replacement Subscription.</u>

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IMS-0920#B	5252	The IMS shall provide the capability for users to construct and submit standing orders and one-time requests for processing of ECS data by pre-existing processes, which shall contain the following information at a minimum: a. Requester identification b. Algorithm input requirements c. Text description of need for processing d. Level 0-4 data set/subset e. Required time of generation f. Requested priority for product processing g. Resulting product type h. Processing parameters	functional		<u>C-CSS-40230</u>	New	B	functional	<u>The Subscription Service shall validate that Subscription Update Requests specify a valid Subscription Identifier and a valid replacement Subscription.</u>
IMS-1080#B	5295	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	functional		<u>C-CSS-40230</u>	New	B	functional	<u>The Subscription Service shall validate that Subscription Update Requests specify a valid Subscription Identifier and a valid replacement Subscription.</u>
IMS-0740#B	5210	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, EOC historical data, spacecraft housekeeping and ancillary data, and engineering data.	functional		<u>C-CSS-40260</u>	New	B	functional	<u>The Subscription Service shall periodically report on new events for timer-based Subscriptions.</u>
IMS-0920#B	5252	The IMS shall provide the capability for users to construct and submit standing orders and one-time requests for processing of ECS data by pre-existing processes, which shall contain the following information at a minimum: a. Requester identification b. Algorithm input requirements c. Text description of need for processing d. Level 0-4 data set/subset e. Required time of generation f. Requested priority for product processing g. Resulting product type h. Processing parameters	functional		<u>C-CSS-40260</u>	New	B	functional	<u>The Subscription Service shall periodically report on new events for timer-based Subscriptions.</u>
IMS-1080#B	5295	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.	functional		<u>C-CSS-40260</u>	New	B	functional	<u>The Subscription Service shall periodically report on new events for timer-based Subscriptions.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46000</u>	New	A	functional	<u>The UR mechanism shall allow clients to access ECS object instances, without actually having the instance by providing each object instance with it's own UR.</u>

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ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46000</u>	New	A	<u>functional</u>	The UR mechanism shall allow clients to access ECS object instances, without actually having the instance by providing each object instance with it's own UR.
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46000</u>	New	A	<u>functional</u>	The UR mechanism shall allow clients to access ECS object instances, without actually having the instance by providing each object instance with it's own UR.
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46000</u>	New	A	<u>functional</u>	The UR mechanism shall allow clients to access ECS object instances, without actually having the instance by providing each object instance with it's own UR.
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46010</u>	New	A	<u>functional</u>	The UR mechanism shall support location independence of the object instance
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46010</u>	New	A	<u>functional</u>	The UR mechanism shall support location independence of the object instance
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46010</u>	New	A	<u>functional</u>	The UR mechanism shall support location independence of the object instance
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46010</u>	New	A	<u>functional</u>	The UR mechanism shall support location independence of the object instance
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46020</u>	New	A	<u>functional</u>	The UR mechanism shall support protocol/technology independence.
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46020</u>	New	A	<u>functional</u>	The UR mechanism shall support protocol/technology independence.

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IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46020</u>	New	A	functional	The UR mechanism shall <u>support protocol/technology independence.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46020</u>	New	A	functional	The UR mechanism shall <u>support protocol/technology independence.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46030</u>	New	A	functional	The UR mechanism shall <u>support multiple redundant instances for a UR.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46030</u>	New	A	functional	The UR mechanism shall <u>support multiple redundant instances for a UR.</u>
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46030</u>	New	A	functional	The UR mechanism shall <u>support multiple redundant instances for a UR.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46030</u>	New	A	functional	The UR mechanism shall <u>support multiple redundant instances for a UR.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46040</u>	New	A	functional	The UR mechanism shall <u>provide a way for an external entity, like a person, or an office automation package, to transport the mechanism.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46040</u>	New	A	functional	The UR mechanism shall <u>provide a way for an external entity, like a person, or an office automation package, to transport the mechanism.</u>

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IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46040</u>	New	A	functional	The UR mechanism shall <u>provide a way for an external entity, like a person, or an office automation package, to transport the mechanism.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46040</u>	New	A	functional	The UR mechanism shall <u>provide a way for an external entity, like a person, or an office automation package, to transport the mechanism.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46050</u>	New	A	functional	The UR mechanism shall <u>provide some human readable information about the object in the external representation.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46050</u>	New	A	functional	The UR mechanism shall <u>provide some human readable information about the object in the external representation.</u>
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46050</u>	New	A	functional	The UR mechanism shall <u>provide some human readable information about the object in the external representation.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46050</u>	New	A	functional	The UR mechanism shall <u>provide some human readable information about the object in the external representation.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46060</u>	New	A	functional	The UR mechanism shall <u>make sure that the external representation is validated so that erroneous ECS object instance are not created.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46060</u>	New	A	functional	The UR mechanism shall <u>make sure that the external representation is validated so that erroneous ECS object instance are not created.</u>

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IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46060</u>	New	A	functional	The UR mechanism shall <u>make sure that the external representation is validated so that erroneous ECS object instance are not created.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46060</u>	New	A	functional	The UR mechanism shall <u>make sure that the external representation is validated so that erroneous ECS object instance are not created.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46070</u>	New	A	functional	The UR mechanism shall <u>support clients knowing UR type and clients learning UR type.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46070</u>	New	A	functional	The UR mechanism shall <u>support clients knowing UR type and clients learning UR type.</u>
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46070</u>	New	A	functional	The UR mechanism shall <u>support clients knowing UR type and clients learning UR type.</u>
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46070</u>	New	A	functional	The UR mechanism shall <u>support clients knowing UR type and clients learning UR type.</u>
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46080</u>	New	A	functional	The UR mechanism shall <u>allow a client to have a UR for an encapsulated abstract base class.</u>
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46080</u>	New	A	functional	The UR mechanism shall <u>allow a client to have a UR for an encapsulated abstract base class.</u>

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IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46080</u>	New	A	functional	The UR mechanism shall allow a client to have a UR for an encapsulated abstract base class.
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46080</u>	New	A	functional	The UR mechanism shall allow a client to have a UR for an encapsulated abstract base class.
ESN-0070#A	5274	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46090</u>	New	A	functional	The UR mechanism shall allow additional concrete specializations of abstract base class to be added without client modification.
ESN-0070#B	3956	ESN shall support the elements data flow requirements identified in this specification.	functional		<u>C-CSS-46090</u>	New	A	functional	The UR mechanism shall allow additional concrete specializations of abstract base class to be added without client modification.
IMS-0550#A	5512	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46090</u>	New	A	functional	The UR mechanism shall allow additional concrete specializations of abstract base class to be added without client modification.
IMS-0550#B	5142	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	functional		<u>C-CSS-46090</u>	New	A	functional	The UR mechanism shall allow additional concrete specializations of abstract base class to be added without client modification.

ABLE II: Table II shows the CSS Level 4 requirements and mandatory attributes that shall be added as NEW requirements to RTM MAIN vi
is CCR.

<u>L4 Rqt_ID</u>	<u>Rqt Key</u>	<u>Rel</u>	<u>Rqt Type</u>	<u>L4 Text</u>	<u>Rqt Status</u>	<u>Verification Method</u>	<u>Clarific</u>
<u>C-CSS-30010</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall accept basic process information that is needed while starting up client and server applications using a set of variables defined in a configuration file.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30020</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall accept variables from the command line.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30030</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall always provide a higher precedence to the variables defined on the command line.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30040</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall exit with an error status if the mode of operation and the configuration file name are not provided on the command line.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30050</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide the ability for a process to get the following information: a. <u>Mode of operation</u> b. <u>Delta Time</u> c. <u>Executable name</u> d. <u>Process ID</u> e. <u>Application ID</u> f. <u>Program ID</u> g. <u>Major Version</u> h. <u>Minor Version</u>	<u>approved</u>	<u>test</u>	
<u>C-CSS-30060</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters: a. <u>Short name for server</u> b. <u>Profile name</u> c. <u>Group name</u>	<u>approved</u>	<u>test</u>	
<u>C-CSS-30070</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30080</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters: a. <u>Server principal name</u> b. <u>Keytab file name</u> c. <u>ACL database filename</u>	<u>approved</u>	<u>test</u>	
<u>C-CSS-30090</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy	<u>approved</u>	<u>test</u>	
<u>C-CSS-30100</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide an interface to the underlying distributed architecture to set the host policy	<u>approved</u>	<u>test</u>	
<u>C-CSS-30110</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide the ability to log errors and events for both client and server processes	<u>approved</u>	<u>test</u>	
<u>C-CSS-30120</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide interfaces to the FTP batch processing facility.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30130</u>	<u>New</u>	<u>B</u>	<u>functional</u>	The Process Framework shall provide interfaces to the Server Request Framework.	<u>approved</u>	<u>test</u>	
<u>C-CSS-30140</u>	<u>New</u>	<u>A</u>	<u>functional</u>	The Process Framework shall provide interfaces to the Asynchronous Message Passing service.	<u>approved</u>	<u>test</u>	

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<u>C-CSS-30150</u>	New	A	functional	The Process Framework shall interface with the Management Agent framework to <u>shutdown an application</u>	approved	test	
<u>C-CSS-30160</u>	New	B	functional	The Process Framework shall interface with the Management Agent framework to <u>suspend an application</u>	approved	test	
<u>C-CSS-30170</u>	New	B	functional	The Process Framework shall interface with the Management Agent framework to <u>resume an application</u>	approved	test	
<u>C-CSS-40010</u>	New	A	functional	The Subscription Service shall accept Subscription Requests that specify an action to be taken and an event to initiate the action	approved	test	
<u>C-CSS-40040</u>	New	B	functional	The Subscription Service shall validate Subscription Requests for time interval events. Time intervals will be limited to daily, weekly, or monthly.	approved	test	
<u>C-CSS-40060</u>	New	A	functional	The Subscription Service shall validate Subscription Requests for actions to send notification.	approved	test	
<u>C-CSS-40090</u>	New	A	functional	The Subscription Service shall process Subscription Requests at the occurrence of the specified event.	approved	test	
<u>C-CSS-40100</u>	New	A	functional	In the event that more than one Subscription is linked to a single event, the Subscription Service shall process the actions defined in the Subscriptions on a first-come, first-serve basis.	approved	test	
<u>C-CSS-40110</u>	New	A	functional	The Subscription Service shall provide the capability to notify users when data has been archived and is available for access.	approved	test	
<u>C-CSS-40120</u>	New	B	functional	The Subscription Service shall provide the capability to notify a user that a new version of the data has been archived.	approved	test	
<u>C-CSS-40140</u>	New	A	functional	The Subscription Service shall provide the capability for Subscriptions to notify users via email or directly to a program interface.	approved	test	
<u>C-CSS-40150</u>	New	B	functional	The Subscription Service shall provide the capability to bundle notification of discrete events into a single notice to the subscriber.	approved	test	
<u>C-CSS-40160</u>	New	A	functional	The Subscription Service shall provide the capability for a user to request notification of data arrival.	approved	test	
<u>C-CSS-40170</u>	New	B	functional	The Subscription Service shall accept Subscription Update Requests to update stored Subscriptions by changing the event or the action.	approved	test	
<u>C-CSS-40180</u>	New	A	functional	The Subscription Service shall provide the capability for operations staff to view the stored Subscriptions.	approved	test	
<u>C-CSS-40190</u>	New	B	functional	The Subscription Service shall provide the capability for operations staff to update the stored Subscriptions by changing the event and/or action.	approved	test	
<u>C-CSS-40200</u>	New	B	functional	The Subscription Service shall provide the capability for a user client to update their stored Subscriptions by changing the action and/or event.	approved	test	
<u>C-CSS-40210</u>	New	A	functional	The Subscription Service shall provide the capability for operations staff to delete any stored Subscription.	approved	test	
<u>C-CSS-40220</u>	New	A	functional	The Subscription Service shall provide the capability for a user to delete their own stored Subscription.	approved	test	
<u>C-CSS-40230</u>	New	B	functional	The Subscription Service shall validate that Subscription Update Requests specify a valid Subscription Identifier and a valid replacement Subscription.	approved	test	
<u>C-CSS-40260</u>	New	B	functional	The Subscription Service shall periodically report on new events for timer-based Subscriptions.	approved	test	
<u>C-CSS-46000</u>	New	A	functional	The UR mechanism shall allow clients to access ECS object instances, without actually having the instance by providing each object instance with it's own UR.	approved	test	
<u>C-CSS-46010</u>	New	A	functional	The UR mechanism shall support location independence of the object instance	approved	test	
<u>C-CSS-46020</u>	New	A	functional	The UR mechanism shall support protocol/technology independence.	approved	test	
<u>C-CSS-46030</u>	New	A	functional	The UR mechanism shall support multiple redundant instances for a UR.	approved	test	

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C-CSS-46040	New	A	functional	The UR mechanism shall provide a way for an external entity, like a person, or an office automation package, to transport the mechanism.	approved	test	
C-CSS-46050	New	A	functional	The UR mechanism shall provide some human readable information about the object in the external representation.	approved	test	
C-CSS-46060	New	A	functional	The UR mechanism shall make sure that the external representation is validated so that erroneous ECS object instance are not created.	approved	test	
C-CSS-46070	New	A	functional	The UR mechanism shall support clients knowing UR type and clients learning UR type.	approved	test	
C-CSS-46080	New	A	functional	The UR mechanism shall allow a client to have a UR for an encapsulated abstract base class.	approved	test	
C-CSS-46090	New	A	functional	The UR mechanism shall allow additional concrete specializations of abstract base class to be added without client modification.	approved	test	

ABLE III: Table III shows the Level 4 requirements that shall be deleted from RTM MAIN by this CCR.

L4 ID	RTM KEY	RE L	L4 RQT TYPE	L4 TEXT	CLARIFIC
C-CSS-29000	-7364	B	functional	The CSS Transaction Processing Service shall be object oriented.	
C-CSS-29010	-7365	B	functional	The CSS Transaction Processing Service shall use the CSS Security services.	
C-CSS-29020	-7366	B	functional	The CSS Transaction Processing Service shall support the management of OODCE-based servers.	
C-CSS-29030	-7367	B	functional	The CSS Transaction Processing Service shall provide to the client and server the following features: — a. Atomicity – All components of the transaction shall succeed or fail as a unit. — b. Consistency – The actions performed by a transaction shall take data from one consistent state to another consistent state. — c. Isolation – Transactions performed simultaneously shall not interfere with each other. — d. Durability – The effect of committed transactions shall be permanent. Subsequent system failures shall not cause the unrecoverable loss of data.	
C-CSS-29040	-7368	B	functional	The CSS Transaction Processing Service shall provide load balancing for OODCE-based servers.	
C-CSS-29050	-7369	B	functional	The CSS Transaction Processing Service shall provide for the integrity of data by means of component rollback in the event of system failure.	
C-CSS-29060	-7370	B	functional	The CSS Transaction Processing Service shall provide client request queuing during data server unavailability.	
C-CSS-29070	-7371	B	functional	The CSS Transaction Processing Service shall provide client request dequeuing of queued requests when data server has rebooted.	
C-CSS-29080	-7372	B	functional	The CSS Transaction Processing Service shall provide the capability of recovering from multiple failures without loss of data.	
C-CSS-61030	-451	A	functional	The CSS Electronic Mail Service shall use the existing X.400 gateway available at GSFC to support X.400 operations.	
C-CSS-61030	-451	A	functional	The CSS Electronic Mail Service shall use the existing X.400 gateway available at GSFC to support X.400 operations.	
C-CSS-65000	-7381	B	functional	The CSS Secure Web service shall support the Kerberos standard.	
C-CSS-65010	-7382	B	functional	The CSS Secure Web service shall support POSIX compliant Access Control List (ACL).	
C-CSS-65020	-7383	B	functional	The CSS Secure Web service shall support at a minimum the GET and POST HTTP methods.	
C-CSS-65030	-7384	B	functional	The CSS Secure Web service shall provide a registration interface for the user to register documents to the web server.	
C-CSS-65040	-7385	B	functional	Documents ACL on the web server shall be editable with any standard ACL editor.	
C-CSS-65050	-7386	B	functional	The CSS Secure service Web shall use DCE RPC's that will allow the server to use DCE provided services.	
C-CSS-65060	-7387	B	functional	The CSS Secure Web service shall support the Data Encryption Standard (DES) to encrypt and decrypt data.	

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C-CSS-65070	-7388	B	functional	The CSS Secure Web service shall support encryption of the HTTP protocol.	
C-CSS-65080	-7389	B	functional	The CSS Secure Web service shall support private keys.	
C-CSS-65090	-7390	B	functional	The CSS Secure Web service shall provide an interface for the administration of the web server.	
C-CSS-65100	-7391	B	functional	The CSS Secure Web service shall provide an API that will support the porting of existing applications to the DCE environment.	
C-CSS-65110	-7392	B	functional	The CSS Secure Web service shall support a two-way authentication and authorization for the use by the web server.	
C-CSS-65120	-7393	B	functional	The CSS Secure Web service shall authenticate and authorize DCE users using the web server.	
C-CSS-65130	-7394	B	functional	The CSS Secure Web service must provide HTML formatted error messages to the web browser.	
C-CSS-65140	-7395	B	functional	The CSS Secure Web service shall provide a mechanism for non-DCE browsers to view non-secured documents on the web server.	
C-CSS-65150	-7396	B	functional	The CSS Secure Web service shall provide a mechanism or DCE capable browser to view non-secured and secured documents on the web server.	
C-CSS-65160	-7397	B	functional	The CSS Secure Web service shall support the X.500 standard for naming and locating DCE cells.	
C-CSS-65170	-7398	B	functional	The CSS Secure Web service shall support the Domain Name Service specification.	
C-CSS-65180	-7399	B	functional	The CSS Secure Web service shall provide the capability to support encryption to keep data exchange between the browser and the server confidential.	
C-CSS-65190	-7400	B	functional	All requests from a client shall provide the web server with the individual user name.	
C-CSS-65200	-7401	B	functional	The CSS Secure Web service shall use DCE's ACLs to protect all documents on the web server.	
C-CSS-65210	-7402	B	functional	The CSS Secure Web service shall use the Extended Generic Security Service API for message passing applications to use DCE security.	
C-CSS-65220	-7403	B	functional	The CSS Secure Web service shall be based on the HTTP protocol for message passing.	
C-CSS-65230	-7404	B	functional	The CSS Secure Web service shall support the browser used by the Client subsystem.	
C-CSS-65240	-7405	B	functional	The CSS Secure Web service shall provide attributes to the browser indicating documents with special security restrictions.	

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ABLE IV: Table IV: shows the Level 4 to RBR requirements links that shall be created by this CCR.

RBR ID	L4 ID
DADS0412#B	C-CSS-40120
DADS0498#A	C-CSS-40010
DADS0498#A	C-CSS-40060
DADS0498#B	C-CSS-40010
DADS0498#B	C-CSS-40040
DADS0498#B	C-CSS-40060
DADS0500#A	C-CSS-40010
DADS0500#A	C-CSS-40060
DADS0500#A	C-CSS-40210
DADS0500#A	C-CSS-40220
DADS0500#B	C-CSS-40010
DADS0500#B	C-CSS-40060
DADS0500#B	C-CSS-40170
DADS0500#B	C-CSS-40190
DADS0500#B	C-CSS-40200
DADS0500#B	C-CSS-40210
DADS0500#B	C-CSS-40220
DADS0540#A	C-CSS-40160
DADS0540#B	C-CSS-40160
DADS0550#A	C-CSS-40160
DADS0550#B	C-CSS-40160
DADS1210#A	C-CSS-40110
DADS1210#B	C-CSS-40110
DADS2160#A	C-CSS-40180
DADS2160#B	C-CSS-40180
DADS2480#A	C-CSS-40090
DADS2480#A	C-CSS-40100
DADS2480#B	C-CSS-40090
DADS2480#B	C-CSS-40100
EOSD0500#A	C-CSS-30040
EOSD0500#A	C-CSS-30050
EOSD0500#A	C-CSS-30060
EOSD0500#A	C-CSS-30070
EOSD0500#A	C-CSS-30090
EOSD0500#A	C-CSS-30110
EOSD0500#B	C-CSS-30040
EOSD0500#B	C-CSS-30050
EOSD0500#B	C-CSS-30060
EOSD0500#B	C-CSS-30070
EOSD0500#B	C-CSS-30090
EOSD0500#B	C-CSS-30110

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EOSD3000#A	<u>C-CSS-30150</u>
EOSD3000#B	<u>C-CSS-30150</u>
EOSD3000#B	<u>C-CSS-30160</u>
EOSD3000#B	<u>C-CSS-30170</u>
EOSD5010#A	<u>C-CSS-30010</u>
EOSD5010#A	<u>C-CSS-30020</u>
EOSD5010#A	<u>C-CSS-30030</u>
EOSD5010#B	<u>C-CSS-30010</u>
EOSD5010#B	<u>C-CSS-30020</u>
EOSD5010#B	<u>C-CSS-30030</u>
ESN-0010#A	<u>C-CSS-30040</u>
ESN-0010#A	<u>C-CSS-30050</u>
ESN-0010#A	<u>C-CSS-30060</u>
ESN-0010#A	<u>C-CSS-30070</u>
ESN-0010#A	<u>C-CSS-30090</u>
ESN-0010#A	<u>C-CSS-30110</u>
ESN-0010#B	<u>C-CSS-30040</u>
ESN-0010#B	<u>C-CSS-30050</u>
ESN-0010#B	<u>C-CSS-30060</u>
ESN-0010#B	<u>C-CSS-30070</u>
ESN-0010#B	<u>C-CSS-30090</u>
ESN-0010#B	<u>C-CSS-30110</u>
ESN-0070#A	<u>C-CSS-46000</u>
ESN-0070#A	<u>C-CSS-46010</u>
ESN-0070#A	<u>C-CSS-46020</u>
ESN-0070#A	<u>C-CSS-46030</u>
ESN-0070#A	<u>C-CSS-46040</u>
ESN-0070#A	<u>C-CSS-46050</u>
ESN-0070#A	<u>C-CSS-46060</u>
ESN-0070#A	<u>C-CSS-46070</u>
ESN-0070#A	<u>C-CSS-46080</u>
ESN-0070#A	<u>C-CSS-46090</u>
ESN-0070#B	<u>C-CSS-46000</u>
ESN-0070#B	<u>C-CSS-46010</u>
ESN-0070#B	<u>C-CSS-46020</u>
ESN-0070#B	<u>C-CSS-46030</u>
ESN-0070#B	<u>C-CSS-46040</u>
ESN-0070#B	<u>C-CSS-46050</u>
ESN-0070#B	<u>C-CSS-46060</u>
ESN-0070#B	<u>C-CSS-46070</u>
ESN-0070#B	<u>C-CSS-46080</u>
ESN-0070#B	<u>C-CSS-46090</u>
ESN-0300#A	<u>C-CSS-30120</u>
ESN-0300#B	<u>C-CSS-30120</u>

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ESN-0450#A	<u>C-CSS-30040</u>
ESN-0450#A	<u>C-CSS-30050</u>
ESN-0450#A	<u>C-CSS-30060</u>
ESN-0450#A	<u>C-CSS-30070</u>
ESN-0450#A	<u>C-CSS-30090</u>
ESN-0450#A	<u>C-CSS-30100</u>
ESN-0450#A	<u>C-CSS-30110</u>
ESN-0450#A	<u>C-CSS-30140</u>
ESN-0450#B	<u>C-CSS-30040</u>
ESN-0450#B	<u>C-CSS-30050</u>
ESN-0450#B	<u>C-CSS-30060</u>
ESN-0450#B	<u>C-CSS-30070</u>
ESN-0450#B	<u>C-CSS-30090</u>
ESN-0450#B	<u>C-CSS-30100</u>
ESN-0450#B	<u>C-CSS-30110</u>
ESN-0450#B	<u>C-CSS-30130</u>
ESN-0450#B	<u>C-CSS-30140</u>
ESN-1380#A	<u>C-CSS-30080</u>
ESN-1380#B	<u>C-CSS-30080</u>
ESN-1400#A	<u>C-CSS-30080</u>
ESN-1400#B	<u>C-CSS-30080</u>
IMS-0550#A	<u>C-CSS-46000</u>
IMS-0550#A	<u>C-CSS-46010</u>
IMS-0550#A	<u>C-CSS-46020</u>
IMS-0550#A	<u>C-CSS-46030</u>
IMS-0550#A	<u>C-CSS-46040</u>
IMS-0550#A	<u>C-CSS-46050</u>
IMS-0550#A	<u>C-CSS-46060</u>
IMS-0550#A	<u>C-CSS-46070</u>
IMS-0550#A	<u>C-CSS-46080</u>
IMS-0550#A	<u>C-CSS-46090</u>
IMS-0550#B	<u>C-CSS-46000</u>
IMS-0550#B	<u>C-CSS-46010</u>
IMS-0550#B	<u>C-CSS-46020</u>
IMS-0550#B	<u>C-CSS-46030</u>
IMS-0550#B	<u>C-CSS-46040</u>
IMS-0550#B	<u>C-CSS-46050</u>
IMS-0550#B	<u>C-CSS-46060</u>
IMS-0550#B	<u>C-CSS-46070</u>
IMS-0550#B	<u>C-CSS-46080</u>
IMS-0550#B	<u>C-CSS-46090</u>
IMS-0740#A	<u>C-CSS-40140</u>
IMS-0740#B	<u>C-CSS-40140</u>
IMS-0740#B	<u>C-CSS-40150</u>

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IMS-0740#B	<u>C-CSS-40230</u>
IMS-0740#B	<u>C-CSS-40260</u>
IMS-0920#B	<u>C-CSS-40150</u>
IMS-0920#B	<u>C-CSS-40230</u>
IMS-0920#B	<u>C-CSS-40260</u>
IMS-1080#A	<u>C-CSS-40140</u>
IMS-1080#B	<u>C-CSS-40140</u>
IMS-1080#B	<u>C-CSS-40150</u>
IMS-1080#B	<u>C-CSS-40230</u>
IMS-1080#B	<u>C-CSS-40260</u>
SDPS0050#A	<u>C-CSS-40110</u>
SDPS0050#B	<u>C-CSS-40110</u>
SDPS0080#A	<u>C-CSS-40110</u>
SDPS0080#B	<u>C-CSS-40110</u>
SDPS0080#B	<u>C-CSS-40120</u>
SDPS0150#A	<u>C-CSS-40010</u>
SDPS0150#B	<u>C-CSS-40010</u>

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ABLE V: Table V shows the links that shall be deleted by this CCR.

RBR ID	L4 ID
ESN-0450#B	C-CSS-29000
EOSD1990#B	C-CSS-29010
ESN-0010#B	C-CSS-29020
ESN-1070#B	C-CSS-29030
ESN-0010#B	C-CSS-29040
EOSD2990#B	C-CSS-29050
ESN-1070#B	C-CSS-29060
ESN-1070#B	C-CSS-29070
EOSD2990#B	C-CSS-29080
EOSD1990#B	C-CSS-65000
ESN-1400#B	C-CSS-65010
EOSD5030#B	C-CSS-65020
EOSD5030#B	C-CSS-65030
ESN-1400#B	C-CSS-65040
ESN-0450#B	C-CSS-65050
ESN-1400#B	C-CSS-65060
ESN-1400#B	C-CSS-65070
ESN-1400#B	C-CSS-65080
ESN-0640#B	C-CSS-65090
EOSD5030#B	C-CSS-65100
ESN-1400#B	C-CSS-65110
ESN-1400#B	C-CSS-65120
ESN-0840#B	C-CSS-65130
EOSD5030#B	C-CSS-65140
EOSD5030#B	C-CSS-65150
ESN-0490#B	C-CSS-65160
ESN-0490#B	C-CSS-65170
ESN-1400#B	C-CSS-65180
ESN-1400#B	C-CSS-65190
ESN-1400#B	C-CSS-65200
ESN-1400#B	C-CSS-65210
EOSD5030#B	C-CSS-65220
IMS-0120#B	C-CSS-65230
ESN-1400#B	C-CSS-65240
ESN-0340#B	C-CSS-61030
ESN-0340#A	C-CSS-61030

ABLE VI: Table VI shows the CSS Level 4 requirements and mandatory attribute values that shall be moved to Release C by this CCR.

L4 Rqt_Id	Rqt Key	REL	Rqt Type	L4 Text	Req Status	Verification Method	Clarific
C-CSS-24030	7358	B <u>C</u>	functional	The CSS Lifecycle Service shall provide an API that accepts resource preference information.	approved	test	
C-CSS-24050	7360	B <u>C</u>	functional	The CSS Lifecycle Service shall ensure that a server is available to service a user request.	approved	test	

ABLE VII: Table VII shows the DSS requirements that shall be deleted since the responsibilities are past to the CSS subsystem and new requirements from Table II replaces these requirements.

Rqt_Id	Rqt Key	Rel	Rqt Type	Text	Clarific
DSS-01460	3386	A	functional	The SDSRV CI shall accept Subscription Requests that specify an action to be taken and an event to initiate the action.	
DSS-01482	3391	A	functional	The SDSRV CI shall validate Subscription Requests for send notification actions.	
DSS-01490	3395	A	functional	The SDSRV CI shall process Subscription Requests at the occurrence of the specified event.	
DSS-01500	3396	A	functional	In the event that more than one Subscription is linked to a single event, the SDSRV CI shall process the actions defined in the Subscriptions on a first-come, first-serve basis.	
DSS-01510	3397	A	functional	The SDSRV CI shall provide the capability to notify users when data has been archived and is available for access.	
DSS-01520	8783	B	functional	The SDSRV CI shall provide the capability to notify a user that a new version of the data has been archived.	
DSS-01530	3400	A	functional	The SDSRV CI shall provide the capability for Subscriptions to notify users via email or directly to a program interface.	
DSS-01540	8784	B	functional	The SDSRV CI shall provide the capability to bundle notification of discrete events into a single notice to the subscriber.	
DSS-01550	3402	A	functional	The SDSRV CI shall provide the capability for a user to request notification of data arrival.	
DSS-01560	8785	B	functional	The SDSRV CI shall accept Subscription Update Requests to update stored Subscriptions by changing the event or the action.	
DSS-01570	3404	A	functional	The SDSRV CI shall provide the capability for operations staff to view the stored Subscriptions.	
DSS-01580	8786	B	functional	The SDSRV CI shall provide the capability for operations staff to update the stored Subscriptions by changing the event and/or action.	
DSS-01590	8787	B	functional	The SDSRV CI shall provide the capability for a user client to update their stored Subscriptions by changing the action and/or event.	
DSS-01600	3407	A	functional	The SDSRV CI shall provide the capability for operations staff to delete any stored Subscription.	
DSS-01610	3408	A	functional	The SDSRV CI shall provide the capability for a user to delete their own stored Subscription.	
DSS-01620	8788	B	functional	The SDSRV CI shall validate that Subscription Update Requests specify a valid Subscription Identifier and a valid replacement Subscription.	
DSS-01700	8789	B	functional	The SDSRV CI shall periodically report on new events for timer-based Subscriptions and will not repeat notification of old events.	

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ABLE VIII: Table VIII shows the links that shall be deleted from RTM MAIN as a result of the deletion of the requirements in Table VIII.

RBR_Id	L4 Rqt_Id
DADS0498#B	S-DSS-01460
DADS0500#B	S-DSS-01460
SDPS0150#A	S-DSS-01460
DADS0498#A	S-DSS-01460
DADS0500#A	S-DSS-01460
DADS0498#A	S-DSS-01482
DADS0500#A	S-DSS-01482
DADS0498#B	S-DSS-01482
DADS0500#B	S-DSS-01482
DADS2480#A	S-DSS-01490
DADS2480#B	S-DSS-01490
DADS2480#B	S-DSS-01500
DADS2480#A	S-DSS-01500
SDPS0050#A	S-DSS-01510
SDPS0080#A	S-DSS-01510
DADS1210#A	S-DSS-01510
SDPS0050#B	S-DSS-01510
SDPS0080#B	S-DSS-01510
DADS1210#B	S-DSS-01510
IMS-0740#B	S-DSS-01530
IMS-1080#B	S-DSS-01530
IMS-1080#A	S-DSS-01530
IMS-0740#A	S-DSS-01530
DADS0540#B	S-DSS-01550
DADS0550#B	S-DSS-01550
DADS0540#A	S-DSS-01550
DADS0550#A	S-DSS-01550
DADS2160#A	S-DSS-01570
DADS2160#B	S-DSS-01570
DADS0500#B	S-DSS-01600
DADS0500#A	S-DSS-01600
DADS0500#A	S-DSS-01610
DADS0500#B	S-DSS-01610
DADS0412#B	S-DSS-01520
SDPS0080#B	S-DSS-01520

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IMS-0740#B	S-DSS-01540
IMS-0920#B	S-DSS-01540
IMS-1080#B	S-DSS-01540
DADS0500#B	S-DSS-01560
DADS0500#B	S-DSS-01580
DADS0500#B	S-DSS-01590
IMS-0740#B	S-DSS-01620
IMS-0920#B	S-DSS-01620
IMS-1080#B	S-DSS-01620
IMS-0740#B	S-DSS-01700
IMS-0920#B	S-DSS-01700
IMS-1080#B	S-DSS-01700