

Table 1 - CSS L4 Rewordings

L4 id	object key	rel	req type	req status	verif status	verif method	clarification	L4 text
C-CSS-00040	9344	IR1	standards	approved	unverified	inspection		The CSS services shall be compatible with industry standard operating systems and interfaces that are available on multiple POSIX-compliant Unix platforms.
C-CSS-00100	598	A	functional	approved	unverified	inspection		The CSS Directory services shall maintain multiple copies of the namespace on different hosts to provide fault tolerance.
C-CSS-00510	11099	A	functional	approved	unverified	test-demo		The CSS shall support a transparent RPC mechanism to provide access to ECS data and services to the clients at the DAACs and SCFs .
C-CSS-01030	641	A	functional	approved	unverified	test		The CSS DOF Services shall provide Process-to-Process Communication Services to support the passing of the general error status as a parameter in calls between the clients and servers automatically.
C-CSS-01040	642	A	functional	approved	unverified	demo		The CSS DOF Service shall provide the capability to marshal and unmarshal the arguments and the returned value transparently while making a remote procedure call including common standard formats and user-defined formats .
C-CSS-01070	645	A	functional	approved	unverified	inspection		The CSS DOF Service shall support Process-to-Process Communication services by providing server APIs to register/unregister services in the namespaces (in different administrative domains) under different views including: (server/group/profile) a. server b. group c. profile .
C-CSS-01230	7234	B0	functional security	incremental	unverified	test-demo		The CSS Security Service shall provide security delegation to allow an intermediary server to operate on behalf of an initiating client while preserving both client's and server's identities and access control attributes across chained operations .
C-CSS-01250	7226	B0	functional	approved	unverified	test		The CSS DirectoryDOF Service shall provide cell namespace aliasing for the directory service to permit administrative ease of changes.
C-CSS-01260	7227	B0	functional	approved	unverified	test-demo		The CSS DirectoryDOF Service shall provide a hierarchical cell namespace structure.
C-CSS-	7228	B0	functional	approved	unverified	test-demo		The CSS Security File Access Service shall provide for distributed file system

01270								access service delegation that permits a file to be passed with supporting location transparency, its corresponding directory service namespace structure.
C-CSS-01280	7229	B0	functionals ecurity	approved	unverified	test	demo	The CSS Security Service shall provide for a security service ACL manager facility library .
C-CSS-03800	7305	B0	security	approved	unverified	test	inspectio n	The CSS-DCHW CI hardware selection criteria shall meet overall ECS security policies and system requirements, the sensitivity/criticality level documented in the current DID514 (Security-Sensitive Items List for the ECS Project).
C-CSS-03900	7308	B0	security	approved	unverified	test	inspectio n	The CSS-DCHW CI Enterprise Communications Server shall maintain one backup of all software and security audit trails and logs. in a separate physical location.
C-CSS-03910	7309	B0	security	approved	unverified	test	inspectio n	The CSS-DCHW CI Local Communications Server shall maintain one backup of all software and security audit trails and logs in a separate physical location.
C-CSS-10510	7312	B0	interface	approved	unverified	test		The CSS DCCI shall accept Electronic Mail email S service requests from the User.
C-CSS-10520	7313	B0	interface	approved	unverified	test		The CSS DCCI shall accept remote Ffile aA Access s S ervice requests from the User.
C-CSS-10550	7316	B0	interface	approved	unverified	test		The CSS DCCI shall provide Electronic Mail email S services to the User.
C-CSS-10560	7317	B0	interface	approved	unverified	test		The CSS DCCI shall provide remote fFile aA Acces s S ervices to the User.
C-CSS-10580	7319	B0	interface	approved	unverified	test		The CSS DCCI shall accept system administration information request from the Operator record log events, including scheduled and unscheduled system shutdowns and restarts for auditing purposes.
C-CSS-20010	11101	A	functional	approved	unverified	test	inspectio n	The CSS shall provide implementations of the DNS or X-500 namespaces industry standard directory services, such as DNS, X.500, and CDS .
C-CSS-20140	9857	B0	functional	approved	unverified	inspectio	n/test	The CSS Directory name S service shall provide independent directories, based on the mode identifier, for each mode.
C-CSS-21200	599	A	functionals ecurity	approved	unverified	test		The CSS Security service shall support industry standard encryption methods to the Data Encryption Standard (DES) to encrypt and decrypt data.
C-CSS-	7350	B0	functionals	approved	unverified	test		The CSS Security Service shall provide a mechanism to authenticate

21220			ecurity					client/server applications using the socket protocol for inter-process communications.
C-CSS-24060	7361	B0	functional	approved	unverified	test		The CSS Lifecycle Service shall act as an intermediary during the client server connection phase. The CSS Lifecycle Service shall respond to MSS Lifecycle commands to provide graceful shutdown services in the event of scheduled and unscheduled shutdowns.
C-CSS-24070	4921	A	functional	approved	unverified	test		The CSS Lifecycle Service shall provide a way to shutdown an application application process.
C-CSS-25155	11140	A	functional	approved	unverified	test		The CSS TIME service shall provide a simulated time value based on given a delta time value and the current absolute time.
C-CSS-25180	11143	A	functional	approved	unverified	test		The CSS time service shall provide an API for obtaining the current time. as a rogue wave object
C-CSS-28025	4895	A	functional	approved	unverified	test		CSS Event Logger Service shall support predetermined logging levels-event importance indicators that provide different levels of information on event severities in support of MSS Network Management and Reporting Services.
C-CSS-30070	11127	A	functional	approved	unverified	test		The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity as identified below-including: a. Message Passing b. Management Agent Framework c. Server Request Framework (SRF) d. Scheduled File Transfer (FTP)
C-CSS-30090	11129	A	functional	approved	unverified	test		The Process Framework shall provide an interface to the underlying distributed architecture to set the communications protocol policy.
C-CSS-30110	10134	A	functional	approved	unverified	test		The Process Framework shall provide the ability to log errors and events for both client and server processes in support of Network Management Services provided by MSS.
C-CSS-30130	10136	B0	functional	approved	unverified	test		The Process Framework shall provide interfaces to the Server Request Framework (SRF).
C-CSS-30160	10139	B1	functional	approved	unverified	test		The Process Framework (PF) shall interface with the MSS Management Agent framework to enable suspensionsuspend of an application and support graceful shutdown services in the event of scheduled and unscheduled shutdowns.
C-CSS-30170	10140	B1	functional	approved	unverified	test		The Process Framework (PF) shall interface with the MSS Management Agent Framework andto respond to commands to resume/restart an application.

C-CSS-40040	10142	B0	functional	approved	unverified	test		The Subscription Service shall validate <u>accept</u> Subscription Requests for time interval events which are - Time intervals will be limited to daily, weekly, or monthly.
C-CSS-40060	10143	A	functional	approved	<u>unverified</u>	test		The Subscription Service shall validate Subscription Requests for actions to send notification <u>provide the capability to perform the following actions on behalf of the client : data acquire, search, and data production requests.</u>
C-CSS-40100	10145	A	functional	approved	<u>unverified</u>	test		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>in the event that more than one Subscription is linked to a single event.</u>
C-CSS-40150	10149	B1	functional	approved	unverified	test		The Subscription Service shall provide the capability to bundle notification of discrete events into a single notice to the subscriber <u>subscriber based on the following criteria: number of notifications received, time threshold (number of days), and maximum number of notification received.</u>
C-CSS-40160	10150	A	functional	approved	<u>unverified</u>	test		The Subscription Service shall provide the capability for a user to request notification of data arrival <u>allow subscribers to specify the hour of day to be notified for daily time interval events.</u>
C-CSS-40180	10152	A	functional	approved	<u>unverified</u>	test		The Subscription Service shall provide the capability for operations staff to view authorized users <u>to obtain a list of</u> the stored Subscriptions.
C-CSS-40190	10153	B0	functional	approved	unverified	test		The Subscription Service shall provide the capability for authorized users operations staff to update the stored Subscriptions by changing the event and/or action.
C-CSS-40210	10155	A	functional	approved	<u>unverified</u>	test		The Subscription Service shall provide the capability for operations staff authorized users to delete any stored Subscription.
C-CSS-40220	10156	A	functional	approved	<u>unverified</u>	test		The Subscription Service shall provide the capability for a user to delete their own stored s Subscriptions
C-CSS-40230	10157	B0	functional	approved	unverified	test		The Subscription Service shall validate that Subscription Update Requests specify a valid Subscription <u>URIdentifier</u> and a valid replacement Subscription.
C-CSS-60330	7373	B0	functional	approved	unverified	test	<u>demo</u>	The CSS File Access Service shall provide uninterrupted file access <u>via distributed file system access</u> in the event of single failure of the server.
C-CSS-60530	11114	A	functional <u>security</u>	approved	unverified	test		The CSS File Access Service shall support the kerberized version of File Transfer Protocol (<u>kftp</u>) for secured file transfers.
C-CSS-	4823	IR1	functional	approved	<u>unverified</u>	<u>demo</u>		The CSS File Access Service shall allow selection of the file type (ASCII or

60610								binary) when utilizing the ftp access service.
C-CSS-60810	11116	A	functional	approved	unverified	test		The CSS File Access Service shall provide file transfer management of non-interactive transfer services by logging results of the non-interactive operations.
C-CSS-60820	499	A	functional	approved	unverified	test		The CSS File Access Service shall provide file transfer management of FTP transfers by providing an non-interactive API option for an application to send alarms and generate events if a scheduled operation fails.
C-CSS-61070	7376	B0	functional	approved	unverified	test demo		The CSS Electronic Mail Service shall provide store and forward services capable of supporting mail systems based on SMTP and X.400. support the Post Office Protocol (POP).
C-CSS-61290	457	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide functionality to send a reply for a received message to a. the author b. to all destinations addressed in the incoming message MailTool
C-CSS-61310	458	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide a MAILBOX where all incoming messages for operators will be stored.
C-CSS-61320	459	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide operator defined folders to store messages for long term archive.
C-CSS-61330	460	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall allow copying and/or moving messages from the MAILBOX to the operator specified folders.
C-CSS-61360	463	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall be capable of showing a summary of all messages in the MAILBOX or in a folder which minimally contains: a. title/subject of the message b. name of the author c. date/time of the message origination
C-CSS-61370	464	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide an editor to compose a message.
C-CSS-61397	7377	B0	functional	approved	unverified	test demo		The CSS Electronic Mail Service shall provide on-line help functionality.
C-CSS-61400	467	A	functional	approved	unverified	test demo		The CSS Electronic Mail Service shall allow destinations of the following types: a. a single user b. a position which may be managed by one or many operators

								c. a site which may consists of several operators.
C-CSS-61410	468	A	functional	approved	unverified	test/demo		The CSS Electronic Mail Service shall provide a capability to maintain public mailing lists (each list may contain multiple destination) which are accessible to all operators._
C-CSS-61420	469	A	functional	approved	unverified	test/demo		The CSS Electronic Mail Service shall provide a capability to maintain private mailing lists (each list may contain multiple destination) for individual operators.
C-CSS-61440	471	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall allow discarding message(s) from the MAILBOX without saving._
C-CSS-61450	472	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall have the capability to forward a message._
C-CSS-61460	473	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall allow cut/copy/paste/delete/undo operations in the editor.
C-CSS-61470	474	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide navigation methods to go the next or previous message in the MAILBOX or selected folder. _
C-CSS-61490	476	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide the capability to search for keywords in messages. _
C-CSS-61500	477	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide the capability to search the MAILBOX or a folder for keywords in the title text._
C-CSS-61510	478	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall provide the capability to search the MAILBOX or folders for a specific author
C-CSS-61800	480	A	functional	approved	unverified	demo/test		The CSS Electronic Mail Service shall provide the capability to send an electronic mail message non-interactively from an application.
C-CSS-61810	481	A	functional	approved	unverified	demo		The CSS Electronic Mail Service shall allow attaching multiple text or binary files to the mail message.
C-CSS-61820	482	A	functional	approved	unverified	demo/test		The CSS Electronic Mail Service shall accept a file name as input for the message text.
C-CSS-62060	509	A	functional	approved	unverified	demo		The CSS Bulletin Board Service shall provide the capability for copying files and obtaining information about ECS .
C-CSS-62330	9356	IR1	functional	approved	unverified	demo		The CSS Bulletin Board Service shall provide the capability to respond to a message by sending the response to the bulletin board and/or to the author of the original message and/or any other operator specified destination (forward).
C-CSS-62800	528	A	functional	approved	unverified	demo		The CSS Bulletin Board Service shall provide an API interface for thean applications to post a message to bulletin boards.

C-CSS-64005	11219	A	functional	approved	unverified	test		The CSS gateway shall perform a protocol conversion between external and ECS protocols, between socket messages and OODCE RPCS
C-CSS-64010	11145	A	functional	approved	unverified	test		The CSS gateway shall route requests received from external providers based on request type, message type and initialization information
C-CSS-64040	11148	A	functionals security	approved	unverified	test		The CSS gateway service (a version of) shall provide the functionality to authenticate, using the DCE/Kerberos authentication- CSS Security S service, on behalf of the external providers.
C-CSS-64100	11153	A	functional	approved	unverified	test		The CSS gateway shall place in network byte order all messages that it composes for sending over the network, socket

Table 2 - RbRid to L4 Link Table

RbRid	L4
ESN-0010#B	C-CSS-61300
ESN-0690#B	C-CSS-00120
ESN-0300#B	C-CSS-60805
ESN-0300#B	C-CSS-60830
EOSD3000#B	C-CSS-24065
EOSD3000#B	C-CSS-24075
EOSD4035#B	C-CSS-00120
EOSD0510#B	C-CSS-20150

Table 3 - NEW CSS L4 requirements

L4 id	object key	rel	req type	req status	verif status	verif method	clarification	L4 text
C-CSS-00120	NEW	B0	functional	approved	unverified	inspection		The CSS Directory services shall provide capabilities supporting reconfiguration transparent to the user.
C-CSS-20150	NEW	B0	functional	approved	unverified	inspection		CSS mode management feature (test and operations modes) shall be capable of supporting all phases of development.
C-CSS-24065	NEW	B0	functional	approved	unverified	test		The CSS Lifecycle Service shall act as an intermediary during the client server connection phase.
C-CSS-24075	NEW	B0	functional	approved	unverified	test		The CSS Lifecycle Service shall respond to MSS Lifecycle commands to provide shutdown services in the event of graceful, scheduled and unscheduled shutdowns. _
C-CSS-60805	NEW	B0	functional	approved	unverified	test		FTP File Access Service shall be available via an API or in interactive mode. ____
C-CSS-60830	NEW	B0	functional	approved	unverified	test		FTP file access service shall have an API provided that supports inclusion of a scheduled start time for the transfer(s).
C-CSS-61300	NEW	B0	functional	approved	unverified	demo		CSS Electronic Mail Service shall be provided with API and GUI implementations.