

CCR # TBS

Table 2: Level 4 Requirement Modification Table
RTM baseline 073196

paragraph_id	req_key	req_type	rel	req-status	ver-status	verification_method	L4 text	clarification
C-CSS-00510	484	functional	A	approved	un-verified	test	The CSS shall provide access to ECS data and services to the clients at the DAACs. and SCFs without distinction using ECS provided software.	
C-CSS-01020	640	functional	A	approved	un-verified	test	The IDL supported minor versioning shall be upward compatible that requires no changes in the client software to communicate with the new implementation.	<u>as long as the original signatures are preserved</u>
C-CSS-20010	563	functional	A	approved	un-verified	test	The CSS shall provide implementations of the DNS and or X.500 namespaces.	
C-CSS-21005	514	functional	A	approved	un-verified	test	The CSS Security service shall provide <u>the functionality to get</u> a unique session key for each client session.	
C-CSS-21010	576	functional	A	approved	un-verified	test	The CSS Security service shall not transmit <u>its authentication information</u> passwords in clear text across networks.	
C-CSS-21040	579	functional	A	approved	un-verified	test	The CSS Security service shall provide an API to limit the time after which a login context will expire.	<u>This time can not be greater than the system configured expiration time.</u>
C-CSS-21060	581	functional	A	approved	un-verified	test	The CSS Security Service shall provide an API to accept server keys (<u>i.e. passwords</u>) associated with services interactively at the startup of a service.	

C-CSS-21105	423	functional	A	approved	un-verified	test	The CSS Security Service shall notify the MSS Management Agent Service upon <u>the failure or success of each authentication request</u> . a predetermined number of unsuccessful login attempts.	
C-CSS-21110	586	functional	A	approved	un-verified	test	The CSS Security service shall <u>provide the functionality to</u> authenticate the principal before checking whether the principal is authorized to access a service/resources.	
C-CSS-22060	602	functional	A	approved	un-verified	test	The CSS Message Service shall purge a message from the message queue after a user <u>an application</u> specified time <u>and an application specified number of tries</u> irrespective of its delivery to the receivers.	
C-CSS-22150	611	functional	A	approved	un-verified	test	The CSS Message Service shall defer sending a message to a receiver, if the receiver is not active, and should try sending the message periodically with <u>an application</u> a set interval of time <u>and an application specified number of tries</u> until the receiver is active.	
C-CSS-24100	4922	functional	A	approved	un-verified	test	The CSS Lifecycle Service shall provide a way <u>the capability</u> for server applications to construct <u>activate</u> an object (if it is not already running) and dispatch the incoming call to the object.	
C-CSS-25010	613	functional	A	approved	un-verified	test	The CSS Time Service shall adjust the time kept by the operating system at every node.	<u>Adjustment is done gradually through the OSF DTS Time service</u>

C-CSS-25020	614	functional	A	approved	un-verified	test	The CSS Time Service shall be used <u>provide the functionality</u> to obtain timestamps that are based on Coordinated Universal Time (UTC).	
C-CSS-25120	483	functional	A	approved	un-verified	test	The CSS Time Service shall provide the utilities required to synchronize system time across all components.	<u>through OSF DTS Time service</u>
C-CSS-60530	661	functional	A	approved	un-verified	test	The CSS File Access Service shall support the kerberized version of File Transfer Protocol for secured file transfers.	<u>Release A provides KFTP only. Release B will provide KFTP and DFS.</u>
C-CSS-60800	497	functional	A	approved	un-verified	test	The CSS File Access Service shall provide an option for scheduling file transfers in a batch mode.	<u>from OODCE server applications using MPF</u>
C-CSS-60810	498	functional	A	approved	un-verified	test	The CSS File Access Service shall log results of the non-interactive operations. to operator specified log files.	
C-CSS-60900	500	functional	A	approved	un-verified	test	The CSS File Access Service shall provide an API which allows applications to transfer files.	<u>This is done by allowing the application programmer to attach a callback which will be invoked</u>
C-CSS-60920	502	functional	A	approved	un-verified	test	The CSS File Access Service shall accept authentication information for file transfers.	<u>normal UNIX authentication in case of FTP and kerberos authentication in case of KFTP</u>

C-CSS-61010	449	functional	A	approved	un-verified	test	The CSS Electronic Mail Service shall interoperate and exchange messages with external mail systems based on SMTP and X.400 protocols.	<u>SMTP to X.400 gateway is GFE provided by GSFC to which ECS will interface using SMTP</u>
C-CSS-24080	4930	functional	<u>AB</u>	approved	un-verified	test	The CSS Lifecycle Service shall provide a way to suspend an application process.	
C-CSS-24090	4931	functional	<u>AB</u>	approved	un-verified	test	The CSS Lifecycle Service shall provide a way to resume a suspend application process.	
C-CSS-30010	10124	functional	A	approved	un-verified	test	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>at start up time process configuration information that it makes available to the application.</u>	
C-CSS-30020	10125	functional	A	approved	un-verified	test	The Process Framework shall <u>also</u> accept variables <u>process configuration information</u> via from the command line.	
C-CSS-30030	10126	functional	A	approved	un-verified	test	The Process Framework shall always provide a higher <u>give</u> precedence to the variables defined on the on the command line <u>over those defined in the configuration file.</u>	

C-CSS-30050	10128	functional	A	approved	un-verified	test	The Process Framework shall provide the ability for a process to get the following information: a. Mode of operation b. Delta Time e. b. Executable name d. c. Process ID e. d. Application ID f. e. Program ID g. f. Major Version h. g. Minor Version	
C-CSS-30060	10129	functional	A	approved	un-verified	test	The Process Framework shall provide interfaces to the underlying distributed architecture to set the following naming parameters: a. Short name for server b. Profile name c. Group name	a. <u>Short name for server; i.e. CDS name</u> b. <u>Profile name; i.e. CDS profile</u> c. <u>Group name; i.e. CDS Group</u>
C-CSS-30070	10130	functional	A	approved	un-verified	test	The Process Framework shall provide interfaces to the underlying distributed architecture to establish the server identity <u>as identified below.</u> a. <u>Message Passing</u> b. <u>Management Agent Framework</u> c. <u>Server Request Framework</u> d. <u>Scheduled File Transfer</u>	
C-CSS-30080	10131	functional	A	approved	un-verified	test	The Process Framework shall provide interfaces to the underlying distributed infrastructure to set the following security parameters: a. Server principal name b. Keytab file name c. ACL database filename	c. <u>ACL database filename or a sybase key - what ever is needed to access the ACLs associated with that process</u>

C-CSS-30090	10132	functional	A	approved	un-verified	test	The Process Framework shall provide an interface to the underlying distributed architecture to set the protocol policy	<u>Protocol policy – tcp/udp</u>
C-CSS-30100	10133	functional	A	approved	un-verified	test	The Process Framework shall provide an interface to the underlying distributed architecture to set the host policy	<u>host policy - whether multiple instances of a server can be run on the same host)</u>

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Table 3: Level 4 Requirement Deletion Table

RTM baseline 073196

paragraph_id	req_key	req_type	rel	req-status	ver-status	verification_method	L4 text	clarification
C-CSS-10100	—441	functional	A	approved	un-verified	test	The CSS shall interface with the SDPS subsystems to exchange the data items in Table 6-1 as specified in the ECS internal ICDs, 313-DV3-003.	
C-CSS-10200	—442	functional	A	approved	un-verified	test	The CSS shall interface with the FOS subsystems to exchange the data items in Table 6-2 as specified in the ECS internal ICDs, 313-DV3-003.	
C-CSS-10300	—443	functional	A	approved	un-verified	test	The CSS shall interface with the MSS subsystems to exchange the data items in Table 6-3 as specified in the ECS internal ICDs, 313-DV3-003.	

C-CSS-10400	—444	functional	A	approved	un-verified	test	The CSS shall interface with the ISS subsystems to exchange the data items in Table 6-4 as specified in the ECS internal ICDs, 313-DV3-003.
C-CSS-62050	—508	functional	A	approved	un-verified	test	The CSS Bulletin Board Service shall host the user registration service.
C-CSS-30120	10135	functional	A	approved	un-verified	test	The Process Framework shall provide interfaces to the FTP batch processing facility.
C-CSS-30140	10137	functional	A	approved	un-verified	test	The Process Framework shall provide interfaces to the Asynchronous Message Passing service.
C-CSS-30150	10138	functional	A	approved	un-verified	test	The Process Framework shall interface with the Management Agent framework to shutdown an application.

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Table 4: Level 4 Requirement Addition Table

RTM baseline 073196

paragraph_id	req_key	req_type	rel	req-status	ver-status	verification_method	L4 text	clarification
<u>C-CSS-21225</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS Security service shall provide a name based authorization capability.</u>	
<u>C-CSS-25155</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS TIME service shall provide a simulated time given a delta time value</u>	

<u>C-CSS-25165</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS time service shall provide a simulated time given an absolute time value</u>
<u>C-CSS-25175</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS time service shall accept delta or absolute time value to be used for simulated time from the cell directory service or a string</u>
<u>C-CSS-25180</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS time service shall provide an API for obtaining the current time as a rogue wave object</u>
<u>C-CSS-64005</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall perform a protocol conversion between socket messages and OODCE RPCS</u>
<u>C-CSS-64010</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall route requests received from external providers based on message type and initialization information</u>
<u>C-CSS-64020</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall log all communication errors</u>
<u>C-CSS-64030</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall log all authentication requests</u>

<u>C-CSS-64040</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway service (a version of) shall provide the functionality to authenticate, using the DCE/Kerberos authentication service, on behalf of the external providers</u>	<u>applicable only to the gateways using the Kerberos (i.e. TSDIS)</u>
<u>C-CSS-64060</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall reject requests from a provider unless a valid authentication request is received</u>	
<u>C-CSS-64070</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall be capable of listening at a configurable port number</u>	
<u>C-CSS-64080</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway (a version of) shall be capable of obtaining a well known Kerberos identity with which to encrypt the username and password if needed</u>	<u>applicable only to the gateways using the Kerberos (i.e. TSDIS))</u>
<u>C-CSS-64090</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway (a version of) shall be capable of encrypting or providing data integrity (as provided for by Kerberos) as desired by the client</u>	<u>applicable only to the gateways using the Kerberos (i.e. TSDIS)</u>
<u>C-CSS-64100</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall place in network byte order all messages that it, itself, composes for sending over the socket</u>	

<u>C-CSS-64110</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall be capable of receiving control information from both the external entities and the ECS servers</u>	
<u>C-CSS-64120</u>	<u>new</u>	<u>functional</u>	<u>A</u>	approved	un-verified	test	<u>The CSS gateway shall provide the capability to exit from the process upon receiving a shutdown control message from the internal ECS servers</u>	

Baseline 7/31/96

Table 5 - Link Addition Table: This table identifies NEW links which are to be added to the RTM database.

RBR ID	L4 ID
<u>ESN-1380#A</u>	<u>C-CSS-21225</u>
<u>ESN-1000#A</u>	<u>C-CSS-25155</u>
<u>ESN-1000#A</u>	<u>C-CSS-25165</u>
<u>ESN-1000#A</u>	<u>C-CSS-25175</u>
<u>ESN-1000#A</u>	<u>C-CSS-25180</u>
<u>ESN-0010#A</u>	<u>C-CSS-64005</u>
<u>ESN-0010#A</u>	<u>C-CSS-64010</u>
<u>ESN-0010#A</u>	<u>C-CSS-64020</u>
<u>ESN-0010#A</u>	<u>C-CSS-64030</u>
<u>ESN-0010#A</u>	<u>C-CSS-64040</u>
<u>ESN-0010#A</u>	<u>C-CSS-64060</u>
<u>ESN-0010#A</u>	<u>C-CSS-64070</u>
<u>ESN-0010#A</u>	<u>C-CSS-64080</u>
<u>ESN-0010#A</u>	<u>C-CSS-64090</u>
<u>ESN-0010#A</u>	<u>C-CSS-64100</u>
<u>ESN-0010#A</u>	<u>C-CSS-64110</u>
<u>ESN-0010#A</u>	<u>C-CSS-64120</u>