

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-00010	8334	B <u>B0</u>	functional	test			The LIMGR CI shall provide capabilities to search and obtain data by science discipline.
S-DMS-00020	9585	B <u>B1</u>	functional	test			The LIMGR CI shall accept Search Requests in a format compatible with the Earth Science Query Language.
S-DMS-00030	8336	B <u>B0</u>	functional	test			The LIMGR CI shall create an integrated schema from the exported schematas of the Data Servers.
S-DMS-00040	8337	B <u>B0</u>	functional	test			The LIMGR CI shall determine which Data Servers are required in order to perform a Search Request and build a Site Query Plan as a result.
S-DMS-00050	8338	B	functional	test			The LIMGR CI shall initiate data provider data access and manipulation operations.
S-DMS-00060	8339	B <u>B0</u>	functional	test			The LIMGR CI shall provide the capability to establish a session as the context for a series of Service Requests.
S-DMS-00070	8340	B <u>B1</u>	functional	test			The LIMGR CI shall provide the capability to suspend an ongoing t session-.
S-DMS-00080	8341	B <u>B1</u>	functional	test			The LIMGR CI shall provide the capability to resume a suspended session.
S-DMS-00090	8342	B <u>B0</u>	functional	test			The LIMGR CI shall provide the capability to terminate an established client session.
S-DMS-00100	8343	B <u>B0</u>	interface	test			The LIMGR CI shall accept search results from a Data Server, and provide capability, to integrate Search Results from a previous Search Request .
S-DMS-00110	8344	B <u>B1</u>	functional	test			The LIMGR CI shall provide the capability to save the result of a Service Request for later reuse.
S-DMS-00115	9717	B <u>B1</u>	functional				The LIMGR CI shall support search requests against result sets from previous searches within the same session.
S-DMS-00120	8345	B <u>B1</u>	functional	test			The LIMGR CI shall, upon request, provide the current Result Set (complete or incomplete) to the client or specified destination.
S-DMS-00130	8346	B	functional	test			The LIMGR CI shall provide the capability, to terminate processing of an active or suspended Service Request.
S-DMS-00140	8347	B <u>B1</u>	functional	test			The LIMGR CI shall provide the capability, to suspend processing of an active Service Request.
S-DMS-00150	8348	B <u>B1</u>	functional	test			The LIMGR CI shall provide the capability, to resume processing of a previously suspended Service Request.
S-DMS-00160	8349	B	functional	test			The LIMGR CI shall provide the capability, to estimate the resources required to execute a pending Service Request.
S-DMS-	8350	B	functional	test			The LIMGR CI shall support interactive information

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00180		<u>B0</u>					management capabilities for administrators to retrieve information.
S-DMS-00190	8351	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall use the identification of the user on whose behalf a Service Request is issued as the basis for access control decisions.
S-DMS-00200	8352	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall forward the identification of the user on whose behalf a Service Request is issued to Data Servers for Service Requests issued on the behalf of the user.
S-DMS-00210	8353	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI internal data base management shall be expressed in a <TBD> standard query language
S-DMS-00220	8354	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall store, maintain and provide data management services for ECS local Schema.
S-DMS-00230	8355	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall provide the capability to integrate partial results within those Data Servers represented in its local Schema.
S-DMS-00240	8356	<u>B</u> <u>B0</u>	functional	test			In the case of processing failures, upon restart the LIMGR CI shall complete all incomplete transactions without loss of data.
S-DMS-00250	8357	B	functional	test			The LIMGR CI shall maintain query log files.
S-DMS-00260	8358	B	functional	test			The LIMGR CI shall provide a capability to report status of Service Requests submitted to it.
S-DMS-00270	8359	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall support revisions of its local Schema following Schema changes in the Data Servers represented in the LIMs local Schema.
S-DMS-00280	8360	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall provide a data administration utility for adding, deleting, modifying, and expanding individual Schema.
S-DMS-00290	8361	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall accept Service Requests, and provide capability, to find and retrieve a Schema entry from an integrated Schema.
S-DMS-00300	8362	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall provide the capability to search for Data Granules of EOSDIS data stored for all Data Servers represented in their local Schema.
S-DMS-00470	8363	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall support the interruption of any database administrative or maintenance activity and its restart without loss of information.
S-DMS-00480	8364	<u>B</u> <u>B1</u>	performanc e	test			The LIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table

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L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							E-8) of the current version of 304-CD-005, for a single instrument inventory search consisting of multiple keyword attributes with time range check.
S-DMS-00490	8365	<u>B</u> <u>B1</u>	performanc e	test			The LIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, for a multiple instrument inventory search consisting of multiple keyword attributes with time range check.
S-DMS-00500	8366	<u>B</u> <u>B1</u>	performanc e	test			The LIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting from Data Servers a single instrument inventory result set consisting of multiple keyword attributes with special range check, integrating the results, and providing a complete result set.
S-DMS-00510	8367	<u>B</u> <u>B1</u>	performanc e	test			The LIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting from Data Servers a multiple instrument inventory result set consisting of multiple keyword attributes with time range check, integrating the results, and providing a complete result set.
S-DMS-00520	9615	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall send detected hardware and software fault information to MSS.
S-DMS-00530	9630	<u>B</u> <u>B0</u>	interface	test			The LIMGR CI shall collect Security Management Data (such as rejected access to a service) and provide it to the MSS.
S-DMS-00540	8369	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI data accesses shall be subject to read access controls based on data types, user privileges, and data ownership.
S-DMS-00550	8370	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall provide a capability to decompose the Search Requests it receives into executable data base Queries.
S-DMS-00560	8371	B	functional	test			The LIMGR CI shall provide the capability to manually abort any time-intensive operations.
S-DMS-00565	9554	<u>B</u> <u>B0</u>	functional				The LIMGR CI shall be available 24 hours a day, 7 days a week within the constraints of the RMA requirements.
S-DMS-00570	8372	B	interface	test			The LIMGR CI shall provide integration, testing, and simulation status to the SMC.
S-DMS-	8373	B	interface	test			The LIMGR CI shall provide maintenance status to the

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L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
00580							SMC.
S-DMS-00590	8374	B	interface	test			The LIMGR CI shall provide logistics status to the SMC.
S-DMS-00600	8375	B	interface	test			The LIMGR CI shall provide training information to the SMC.
S-DMS-00605	9705	B B0	functional				The LIMGR CI shall provide operations staff with the capability to generate daily LIMGR operations summary reports.
S-DMS-00606	9706	B B0	functional				The LIMGR CI shall provide operations staff with the capability to generate LIMGR performance summary reports.
S-DMS-00610	9719	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive maintenance directives from the SMC.
S-DMS-00620	9720	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive directives for integration, testing, and simulation from the SMC.
S-DMS-00630	9721	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive configuration management directives from the SMC.
S-DMS-00640	9722	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive logistics management directives from the SMC.
S-DMS-00650	9723	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive fault management directives from the SMC.
S-DMS-00660	9724	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive security directives from the SMC.
S-DMS-00670	9725	B	procedural	test			The LIMGR CI operations staff shall have the capability to receive training management directives from the SMC.
S-DMS-00690	9618	B B0	interface	test			The LIMGR CI shall provide configuration management data such as software versions to MSS through the use of managed process framework.
S-DMS-00700	9622	B B0	functional	test			The LIMGR CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.
S-DMS-00705	8385	B	functional	test			The LIMGR CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.
S-DMS-00706	8386	B	functional	test			The LIMGR CI shall provide operations staff the capability to distribute utilization reports electronically, in

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L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							hard copy, or on electronic media.
S-DMS-00710	9608	B <u>B0</u>	interface	test			The LIMGR CI shall report Accountability Management Data (requests such as searches, browse requests, orders) to the MSS.
S-DMS-00720	9626	B <u>B0</u>	interface	test			The LIMGR CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.
S-DMS-00730	9636	B	interface	test			The LIMGR CI shall provide to MSS configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).
S-DMS-00740	9607	B <u>B1</u>	functional	test			The LIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.
S-DMS-00750	8391	B <u>B0</u>	functional	test			The LIMGR CI shall have the capability of creating, editing and deleting advertisements about itself and submitting them to the Advertising Service.
S-DMS-00860	8392	B <u>B0</u>	functional	test			The LIMGR CI shall provide a capability to report the status of sessions established by it.
S-DMS-00890	8393	B <u>B0</u>	functional	test			The LIMGR CI shall support multiple concurrent sessions.
S-DMS-00895	8394	B <u>B0</u>	functional	test			The LIMGR CI shall support multiple service requests within a session.
S-DMS-00900	8395	B <u>B0</u>	functional	test			The LIMGR CI shall provide an application program interface for the submission of Service Requests.
S-DMS-00910	8396	B <u>B0</u>	functional	test			The LIMGR CI shall provide an application program interface for the submission of requests for administrative services.
S-DMS-00912	9654	B <u>B0</u>	interface				The LIMGR CI shall log the startup of the LIMGR servers to MSS.
S-DMS-00913	9655	B <u>B0</u>	interface				The LIMGR CI shall log the shutdown of the LIMGR servers to MSS.
S-DMS-00915	8397	B <u>B0</u>	functional	test			The LIMGR CI shall log the initiation of a session.
S-DMS-00920	8398	B <u>B0</u>	functional	test			The LIMGR CI shall log the termination of a session.
S-DMS-00930	8399	B <u>B1</u>	functional	test			The LIMGR CI shall log the suspension of a session.
S-DMS-	8400	B	functional	test			The LIMGR CI shall log the resumption of previously

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00940		<u>B1</u>					suspended sessions.
S-DMS-00960	8401	<u>B</u> <u>B1</u>	functional	test			The LIMGR CI shall provide the capability for the operations staff to suspend all active sessions.
S-DMS-00970	8402	<u>B</u> <u>B1</u>	functional	test			The LIMGR CI shall provide the capability for the operations staff to resume any or all sessions, previously suspended by operations staff or clients.
S-DMS-00980	8403	B	functional	test			The LIMGR CI shall provide the capability for the operations staff to terminate any or all active or suspended sessions.
S-DMS-00990	8404	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall send Notifications to users via email in the event that a users's request or session is canceled by operations staff.
S-DMS-01000	8405	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall provide the capability to restore a session after interruption.
S-DMS-01010	9652	<u>B</u> <u>B0</u>	interface	test			The LIMGR CI shall log to MSS all Service requests initiated during a session.
S-DMS-01011	9656	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when a service request is activated from the queue.
S-DMS-01012	9657	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.
S-DMS-01013	9658	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when the component service request has been submitted to the external entity (e.g. GTWAY, SDSRV).
S-DMS-01014	9659	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when the request to the external entity (e.g. GTWAY, SDSRV) has been successfully returned.
S-DMS-01015	9660	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program.
S-DMS-01016	9696	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log to MSS when an external connection (i.e. to GTWAY or SDSRV) has been established.
S-DMS-01017	9653	<u>B</u> <u>B0</u>	interface				The LIMGR CI shall log the successful completion of each service request to MSS.
S-DMS-01020	8407	<u>B</u> <u>B1</u>	functional	test			The LIMGR CI shall log the suspension of processing of Service requests.
S-DMS-01030	8408	<u>B</u> <u>B1</u>	functional	test			The LIMGR CI shall log the resumption of previously suspended Service requests.
S-DMS-	8409	<u>B</u>	functional	test			The LIMGR CI shall log the termination of service

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01040		<u>B</u> <u>B0</u>					requests.
S-DMS-01050	8410	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall ensure that databases which are distributed and replicated provide synchronized data.
S-DMS-01060	8411	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall forward commands to terminate a session to all servers which are a part of that session.
S-DMS-01070	8412	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall accept Subscriptions for LIM data.
S-DMS-01075	8413	<u>B</u> <u>B0</u>	interface	test			The LIMGR CI shall accept and process lifecycle commands from the MSS.
S-DMS-01080	8414	<u>B</u>	functional	test			The LIMGR CI shall provide a capability to display SMC directives to operator personnel.
S-DMS-01090	9875	<u>B</u> <u>B0</u>	functional	test			LIMGR CI mode-specific applications shall access data only for the mode in which the application is configured.
S-DMS-01091	9876	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-DMS-01094	9877	<u>B</u> <u>B0</u>	functional	test			LIMGR CI mode-specific applications shall be capable of simultaneous execution in different modes on the same machine.
S-DMS-01095	9878	<u>B</u> <u>B0</u>	functional	test			LIMGR CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-DMS-01096	9879	<u>B</u> <u>B0</u>	functional	test			LIMGR CI server applications shall register within their mode-associated namespace in the CSS name service.
S-DMS-01097	9880	<u>B</u> <u>B0</u>	functional	test			LIMGR CI client applications shall incorporate a mode identifier for CSS name service lookups.
S-DMS-01098	9881	<u>B</u> <u>B0</u>	functional	test			The LIMGR CI be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-DMS-01099	9882	<u>B</u> <u>B0</u>	functional	test			LIMGR CI mode-specific executables and scripts shall accept a specific mode only at startup.
S-DMS-10010	8415	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide capabilities to search and obtain data across DAACs.
S-DMS-10020	8416	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall accept and execute Search Requests which require searching across DAACs.
S-DMS-10030	8417	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall compare received Search Requests to its federated Schema to determine to which LIMs or Data Servers the Search Request must be forwarded and generate a Distributed Query Plan.
S-DMS-10040	8418	<u>B</u> <u>B0</u>	interface	test			Upon determining which LIMs are required to complete a Search Request, the DIMGR CI shall send to the

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							requisite LIMs the portions of the original Search Request which apply to them.
S-DMS-10050	8419	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall monitor the progress of the Distributed Query Plan.
S-DMS-10060	8420	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall compile and manage the results of the Distributed Query Plan for the client which initiated it.
S-DMS-10070	8421	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall execute, monitor, and compile plan results without continuous connection with the client this capability shall allow the client to disconnect from and later reconnect to the DIM to retrieve the results.
S-DMS-10090	8422	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall store, maintain and provide data management services for ECS federated Schema.
S-DMS-10100	8423	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to abort any time-intensive operations.
S-DMS-10110	8424	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to integrate partial results from those LIMs represented in its federated Schema into a complete Result Set.
S-DMS-10115	9718	<u>B</u> <u>B1</u>	functional				The DIMGR CI shall support search requests against result sets from previous searches within the same session.
S-DMS-10120	8425	<u>B</u> <u>B0</u>	functional	test			In the case of processing failures, upon restart the DIMGR CI shall complete all incomplete transactions without loss of data.
S-DMS-10130	8426	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall maintain query log files.
S-DMS-10140	8427	<u>B</u>	functional	test			The DIMGR CI shall provide a capability to report status of Search Requests submitted to it.
S-DMS-10150	8428	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall support revisions of its federated Schema following Schema changes in the LIMs represented in the DIM's federated Schema.
S-DMS-10160	8429	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall be able to receive the local Schema of LIMs in its federation from the LIM service.
S-DMS-10170	8430	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall create a union of the Schemata it receives from LIMs in its federation. This union is a federated Schema.
S-DMS-10180	8431	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall not alter the Schemata it receives from any LIM in creating the federated Schema.
S-DMS-10190	8432	<u>B</u> <u>B1</u>	interface	test			The DIMGR CI shall subscribe to the LIMs for any changes in LIM Schemata.

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S-DMS-10200	8433	B <u>B1</u>	interface	test			The DIMGR CI shall subscribe to the Advertising service for any additions or deletions of LIMs from its federation.
S-DMS-10210	8434	B <u>B1</u>	functional	test			The DIMGR CI shall be able to add a LIM to its federation based on the subscription notifications it receives from the Advertising service..
S-DMS-10220	8435	B <u>B1</u>	functional	test			The DIMGR CI shall provide an interface whereby a LIM may be deleted from the federation based on the subscription notifications it receives from the Advertising service..
S-DMS-10240	8436	B <u>B0</u>	functional	test			The DIMGR CI shall provide a data administration utility for adding, deleting, modifying, and expanding an individual Schema.
S-DMS-10250	8437	B	functional	test			The distributed Schema administrator shall maintain the federated Schema in the DIM.
S-DMS-10260	8438	B <u>B0</u>	functional	test			The DIMGR CI shall provide an interface to the DIM administrator client whereby a LIM may be added to the federation.
S-DMS-10270	8439	B <u>B0</u>	functional	test			The DIMGR CI shall provide an interface to the DIM administrator client whereby a LIM may be deleted from the federation.
S-DMS-10280	8440	B <u>B0</u>	functional	test			The DIMGR CI shall provide an interface to the DIM administrator client whereby a LIM may be replaced in the federation.
S-DMS-10290	8441	B <u>B0</u>	functional	test			The DIMGR CI shall provide an interface to the DIM administrator client whereby LIM information may be retrieved from the federation.
S-DMS-10300	8442	B <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to find and retrieve a Schema entry from an distributed Schema.
S-DMS-10310	8443	B <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to search for Data Granules of EOSDIS data stored across DAACs for specific science disciplines.
S-DMS-10320	8444	B	functional	test			The DIMGR CI shall provide Service Request Status in response to Status Requests.
S-DMS-10330	8445	B <u>B0</u>	functional	test			The DIMGR CI shall use the User Identifier for the user on whose behalf a Service Request is issued as the basis for access control decisions.
S-DMS-10340	8446	B <u>B0</u>	interface	test			The DIMGR CI shall forward the user's User Identifier in any Service Requests that it sends to the LIMGR CI on behalf of that user..

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S-DMS-10345	9557	B B0	functional				The DIMGR CI shall be available 24 hours a day, 7 days a week within the constraints of the RMA requirements.
S-DMS-10350	8447	B	interface	test			The DIMGR CI shall provide integration, testing, and simulation status to the SMC.
S-DMS-10360	8448	B	interface	test			The DIMGR CI shall provide maintenance status to the SMC.
S-DMS-10370	8449	B	interface	test			The DIMGR CI shall provide logistics status to the SMC.
S-DMS-10380	8450	B	interface	test			The DIMGR CI shall provide training information to the SMC.
S-DMS-10385	9707	B	functional				The DIMGR CI shall provide operations staff with the capability to generate daily DIMGR operations summary reports.
S-DMS-10386	9708	B	functional				The DIMGR CI shall provide operations staff with the capability to generate DIMGR performance summary reports.
S-DMS-10390	8451	B	interface	test			The DIMGR CI shall provide the capability to receive maintenance directives from the SMC.
S-DMS-10400	8452	B	interface	test			The DIMGR CI shall provide the capability to receive, directives for integration, testing, and simulation from the SMC.
S-DMS-10410	8453	B	interface	test			The DIMGR CI shall provide the capability to receive, configuration management directives from the SMC.
S-DMS-10420	8454	B	interface	test			The DIMGR CI shall provide the capability to receive logistics management directives from the SMC.
S-DMS-10430	8455	B	interface	test			The DIMGR CI shall provide the capability to receive fault management directives from the SMC.
S-DMS-10440	8456	B	interface	test			The DIMGR CI shall provide the capability to receive security directives from the SMC.
S-DMS-10450	8457	B	interface	test			The DIMGR CI shall provide the capability to receive training management directives from the SMC.
S-DMS-10460	8458	B B0	functional	test			The DIMGR CI shall support the interruption of a database administrative or maintenance activity and its restart without loss of information.
S-DMS-10470	8459	B B1	performance	test			The DIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting processing, and distributing to the LIMs multiple DAAC, single instrument inventory search consisting of multiple keyword attributes with special range check.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-10480	8460	<u>B</u> <u>B1</u>	performanc e	test			The DIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting, processing, and distributing to LIMs a multiple DAAC, multiple instrument inventory search consisting of multiple keyword attributes with time range check.
S-DMS-10490	8461	<u>B</u> <u>B1</u>	performanc e	test			The DIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting from LIMs a multiple DAAC, single instrument Inventory result set consisting of multiple keyword attributes with spacial range check , integrate the results, and providing a complete result set.
S-DMS-10500	8462	<u>B</u> <u>B1</u>	performanc e	test			The DIMGR CI shall contribute to supporting the response time defined in Appendix E (Section E.7, Table E-8) of the current version of 304-CD-005, in accepting from LIMs multiple DAAC, multiple instrument Inventory result set consisting of multiple keyword attributes with time range check , integrate the results, and providing a complete result set.
S-DMS-10530	9616	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall send detected hardware and software fault information to MSS.
S-DMS-10540	9619	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall provide configuration management data such as software versions to MSS through managed process framework.
S-DMS-10550	9623	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.
S-DMS-10555	8466	B	procedural	test			The DIMGR CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.
S-DMS-10556	8467	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide operations staff with the capability to distribute DIMGR CI utilization reports eletronically or in hard copy or on electronic media.
S-DMS-10560	9609	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall report Accountability Management Data (requests such as searches, browse requests, orders) to the MSS.
S-DMS-10570	9627	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall collect Performance Management Data using the MSS managed object components and

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							provide it to the MSS at configurable intervals and on demand.
S-DMS-10580	9633	B <u>B0</u>	interface	test			The DIMGR CI shall collect Security Management Data (such as rejected access to a service) and provide it to the MSS.
S-DMS-10590	9637	B	interface	test			The DIMGR CI shall provide to MSS configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).
S-DMS-10595	9663	B <u>B0</u>	interface				The DIMGR CI shall log the startup of the DIMGR servers to MSS.
S-DMS-10596	9664	B <u>B0</u>	interface				The DIMGR CI shall log the shutdown of the DIMGR servers to MSS.
S-DMS-10600	8472	B <u>B0</u>	functional	test			The DIMGR CI data accesses shall be subject to read access control based on user privileges.
S-DMS-10610	8473	B <u>B0</u>	functional	test			The DIMGR CI internal data base management Queries shall be expressed in a <TBD> query language
S-DMS-10650	8474	B	functional	test			The DIMGR CI shall initiate distributed data access and manipulation operations.
S-DMS-10660	8475	B <u>B0</u>	functional	test			The DIMGR CI shall provide the capability establish a session as the context for a series of Service Requests.
S-DMS-10670	8476	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability to suspend an ongoing session.
S-DMS-10680	8477	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability to resume a suspended session.
S-DMS-10690	8478	B <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to terminate an established client session.
S-DMS-10700	8479	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability to save the result of a Service Request for later reuse.
S-DMS-10710	8480	B	functional	test			The DIMGR CI shall, upon request, provide the current Result Set (complete or incomplete) to the client or specified destination.
S-DMS-10720	8481	B	functional	test			The DIMGR CI shall provide the capability, to terminate processing of an active or suspended Service Request.
S-DMS-10730	8482	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability, to suspend processing of an active Service Request.
S-DMS-10740	8483	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability, to resume processing of a previously suspended Service Request.
S-DMS-10750	8484	B <u>B1</u>	functional	test			The DIMGR CI shall provide the capability to estimate resources required to execute a pending Service Request.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-10760	9604	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.
S-DMS-10765	9570	<u>B</u> <u>B1</u>	functional				The DIMGR CI shall accept searches in the Earth Science Query Language.
S-DMS-10770	9572	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search conditions using search expressions in combination with boolean and relational operators.
S-DMS-10771	9574	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and exact word matches for string attributes associated with non-geographic metadata.
S-DMS-10772	9576	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and phrase matches for string attributes associated with non-geographic metadata.
S-DMS-10773	9580	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and character sets for string attributes associated with non-geographic metadata.
S-DMS-10774	9581	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and wildcard constructs for string attributes associated with non-geographic metadata.
S-DMS-10775	9583	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and character ranges for string attributes associated with non-geographic metadata.
S-DMS-10776	9584	<u>B</u> <u>B1</u>	functional				The Earth Science Query Language shall support the specification of search expressions using the attribute names and minimum and maximum range for numeric and date/time attributes associated with non-geographic metadata.
S-DMS-10860	8486	B	functional	test			The DIMGR CI shall provide a capability to report the status of sessions established by it.
S-DMS-10890	8487	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall support multiple concurrent sessions.
S-DMS-10895	8488	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall support multiple service requests within a session.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-10900	8489	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide an application program interface for the submission of Service Requests.
S-DMS-10910	8490	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide an application program interface for the submission of requests for administrative services.
S-DMS-10915	8491	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall log the initiation of a session.
S-DMS-10920	8492	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall log the termination of a session.
S-DMS-10930	8493	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall log the suspension of a session.
S-DMS-10940	8494	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall log the resumption of previously suspended sessions.
S-DMS-10960	8495	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide the capability for the operations staff to suspend all active sessions.
S-DMS-10970	8496	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall provide the capability for the operations staff to resume any or all sessions, previously suspended by operations staff or clients.
S-DMS-10980	8497	B	functional	test			The DIMGR CI shall provide the capability for the operations staff to terminate any or all active or suspended sessions.
S-DMS-10990	8498	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall send Notifications to users via email in the event that a user's request or session is canceled by operations staff.
S-DMS-11000	8499	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall provide the capability to restore a session after interruption.
S-DMS-11010	9661	<u>B</u> <u>B0</u>	interface	test			The DIMGR CI shall log to MSS all Service requests initiated during a session.
S-DMS-11011	9662	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log the successful completion of each service request to MSS.
S-DMS-11012	9665	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when a service request is activated from the queue.
S-DMS-11013	9666	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when a service request has been successfully decomposed into its component requests.
S-DMS-11014	9668	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when an external connection (i.e. to LIMGR, GTWAY or SDSRV) has been established.
S-DMS-11015	9669	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when the component service request has been submitted to the external entity

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							(e.g. LIMGR, GTWAY, SDSRV).
S-DMS-11016	9670	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when the request to the external entity (e.g. LIMGR, GTWAY, SDSRV) has been successfully returned.
S-DMS-11017	9671	<u>B</u> <u>B0</u>	interface				The DIMGR CI shall log to MSS when the results of the external requests have been integrated and status is about to be sent to the client program.
S-DMS-11020	8501	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall log the suspension of processing of Service requests.
S-DMS-11030	8502	<u>B</u> <u>B1</u>	functional	test			The DIMGR CI shall log the resumption of previously suspended Service requests.
S-DMS-11040	8503	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall log the termination of service requests.
S-DMS-11050	8504	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall ensure that databases which are distributed and replicated provide synchronized data.
S-DMS-11060	8505	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall forward commands to terminate a session to all servers which are a part of that session.
S-DMS-11070	8506	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall accept Subscriptions for DIM data.
S-DMS-11080	9883	<u>B</u> <u>B0</u>	functional	test			DIMGR CI mode-specific applications shall access data only for the mode in which the application is configured.
S-DMS-11081	9884	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-DMS-11084	9885	<u>B</u> <u>B0</u>	functional	test			DIMGR CI mode-specific applications shall be capable of simultaneous execution in different modes on the same machine.
S-DMS-11085	9886	<u>B</u> <u>B0</u>	functional	test			DIMGR CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-DMS-11086	9887	<u>B</u> <u>B0</u>	functional	test			DIMGR CI server applications shall register within their mode-associated namespace in the CSS name service.
S-DMS-11087	9888	<u>B</u> <u>B0</u>	functional	test			DIMGR CI client applications shall incorporate a mode identifier for CSS name service lookups.
S-DMS-11088	9889	<u>B</u> <u>B0</u>	functional	test			The DIMGR CI shall be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-DMS-11089	9890	<u>B</u> <u>B0</u>	functional	test			DIMGR CI mode-specific executables and scripts shall accept a specific mode only at startup.
S-DMS-20005	8507	<u>B</u>	functional	test			The DDICT CI shall provide access to Data Definitions of the following information at a minimum :

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							a. Earth Science Data Types and services descriptions b. core metadata attribute definitions c. valid values d. synonyms for valid values e. product specific metadata
S-DMS-20006	9561	<u>B</u> <u>B1</u>	functional				The DDICT CI shall store a mapping of geophysical parameters to the appropriate instruments and collections.
S-DMS-20007	9563	<u>B</u> <u>B1</u>	functional				The DDICT CI shall provide the capability to search a mapping of geophysical parameters to the appropriate instruments and collections.
S-DMS-20008	9566	<u>B</u> <u>B1</u>	functional				The DDICT CI shall store descriptive information about keywords associated with a collection, including at a minimum instruments and geophysical parameters.
S-DMS-20009	9567	<u>B</u> <u>B1</u>	functional				The DDICT CI shall provide the capability to search descriptive information about keywords associated with a collection, including at a minimum instruments and geophysical parameters.
S-DMS-20010	9569	<u>B</u> <u>B0</u>	functional				The DDICT CI shall store a conceptual schema of the data held in the SDSRV, LIMGR, and DIMGR to hide the underlying database structure from the end user.
S-DMS-20030	8508	<u>B</u> <u>B1</u>	functional	test			The DDICT CI shall provide the capability to view data dictionary entries based on the Earth Science Data Types accessible by an instance of the Data Server.
S-DMS-20040	8509	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide the capability to view data dictionary entries based on the Earth Science Data Types accessible by an instance of the LIM
S-DMS-20050	8510	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide the capability to view data dictionary entries based on the Earth Science Data Types accessible by an instance of the DIM.
S-DMS-20060	8511	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide the capability to define a global view of data dictionary entries based on the Earth Science Data Types accessible by the ECS
S-DMS-20070	8512	B	functional	test			The data dictionary support variations within data dictionary entries shall be based on data context and instrument.
S-DMS-20080	8513	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide consistent view of data dictionary entries based on the value given for an attribute.
S-DMS-20090	8514	B	functional	test			The DDICT CI shall provide the capability to define data dictionary contexts based on science disciplines, site,

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							and instrument.
S-DMS-20110	8515	B	functional	test			The DDICT CI shall provide the capability to define a global data dictionary context.
S-DMS-20120	8516	B	functional	test			The DDICT CI shall maintain information describing the relationships between Earth Science Data Types.
S-DMS-20130	9597	B <u>B1</u>	functional	test			The DDICT CI shall have the capability to accept from the Workbench CI data dictionary search requests consisting of any combination of the following: Earth Science Data Types, Core Metadata attribute, and Product Specific Metadata in a format compatible with the Earth Science Query Language.
S-DMS-20140	8518	B	interface	test			The DDICT CI shall have the capability to send to the Workbench CI: a. _Earth Science data type descriptions b. _core metadata attribute definitions, domains and synonyms c. _product specific metadata attribute definitions, domains and synonyms.
S-DMS-20160	8519	B <u>B1</u>	interface	test			The DDICT CI shall have the capability to accept from the SDSRV CI Data Server, Export Files, for the purposes of defining new or updated data dictionary entries
S-DMS-20170	8520	B <u>B1</u>	interface	test			The DDICT CI shall have the capability to accept from the LIM CI, Export Files, for the purposes of defining new or updated data dictionary entries
S-DMS-20180	8521	B <u>B1</u>	interface	test			The DDICT CI shall have the capability to accept from the DIM CI, Export Files, for the purposes of defining new or updated data dictionary entries
S-DMS-20190	8522	B <u>B0</u>	functional	test			The DDICT CI shall maintain consistency of semantic relationships between its data dictionary entries and data server Schema information from which they were derived.
S-DMS-20200	8523	B <u>B0</u>	functional	test			The DDICT CI shall support additions, deletions and modifications to DDICT CI Schema.
S-DMS-20210	8524	B <u>B0</u>	functional	test			The DDICT CI shall use the identification of the user on whose behalf a Service Request is issued as the basis for access control decisions.
S-DMS-20220	8525	B <u>B0</u>	functional	test			The DDICT CI data accesses shall be subject to access controls of read, write, update and delete, singly or in combination, based on user privileges.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-20230	8526	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall ensure that databases which are distributed and replicated provide synchronized data.
S-DMS-20240	8527	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide a capability to decompose the Search Requests it receives into executable data base Queries.
S-DMS-20250	8528	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall store, maintain and provide data management services for ECS data dictionary entries.
S-DMS-20260	8529	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for performance monitoring of system disk, memory, CPU and Input/Output.
S-DMS-20270	8530	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for performance monitoring of Service Requests processing.
S-DMS-20280	8531	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for performance tuning.
S-DMS-20290	8532	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for administration of access control.
S-DMS-20300	8533	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for on-line full backup of Data Dictionary service data.
S-DMS-20310	8534	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for on-line incremental backup of Data Dictionary service data.
S-DMS-20320	8535	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for manual recovery of Data Dictionary data from system and media failures.
S-DMS-20330	8536	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support an administration utility for automatic recovery of DDICT CI data from system failures.
S-DMS-20340	8537	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support a data administration utility for data import.
S-DMS-20350	8538	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support a data administration utility for data export.
S-DMS-20355	9709	B	functional				The DDICT CI shall provide operations staff with the capability to generate daily DDICT operations summary reports.
S-DMS-20356	9710	B	functional				The DDICT CI shall provide operations staff with the capability to generate DDICT performance summary reports.
S-DMS-20360	8539	B	functional	test			The DDICT CI shall provide documents conforming to HTML3 standards.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-20530	8540	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support batch information management capabilities to add data dictionary entries.
S-DMS-20540	8541	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support batch information management capabilities to update data dictionary entries.
S-DMS-20550	8542	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support batch information management capabilities to delete data dictionary entries.
S-DMS-20560	8543	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support batch information management capabilities to retrieve data dictionary entries.
S-DMS-20570	8544	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support interactive information management capabilities to add data dictionary entries.
S-DMS-20580	8545	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support interactive information management capabilities to update data dictionary entries.
S-DMS-20590	8546	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support interactive information management capabilities to delete data dictionary entries.
S-DMS-20600	8547	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support interactive information management capabilities to retrieve data dictionary entries.
S-DMS-20610	8548	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall maintain a log of all insertions, updates and deletions of data dictionary entries
S-DMS-20620	8549	B	functional	test			Standard Product related Metadata at the DDICT CI shall include keywords and glossary from investigators.
S-DMS-20630	8550	B	functional	test			Standard Product related Metadata at the DDICT CI shall include of keywords, synonyms, and glossary for cross-product and cross-directory referencing.
S-DMS-20640	8551	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall support the restart of database administration and maintenance activities which are unintentionally interrupted through system software or hardware failure, without loss of information.
S-DMS-20660	9634	<u>B</u> <u>B0</u>	interface	test			The DDICT CI shall collect Security Management Data (such as rejected access to a service) and provide it to the MSS.
S-DMS-20670	8553	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall establish access controls of read, write, update and delete, singly or in combination, based on data types.
S-DMS-20680	8554	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall establish access controls of read, write, update and delete, singly or in combination, based on data ownership.
S-DMS-20690	8555	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide the capability to add, delete, or modify dictionary entries to authorized users.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-20695	9556	B <u>B0</u>	functional				The DDICT CI shall be available 24 hours a day, 7 days a week within the constraints of the RMA requirements.
S-DMS-20700	8556	B	interface	test			The DDICT CI shall provide integration, testing, and simulation status to the SMC.
S-DMS-20710	8557	B	interface	test			The DDICT CI shall provide maintenance status to the SMC.
S-DMS-20720	8558	B	interface	test			The DDICT CI shall provide logistics status to the SMC.
S-DMS-20730	8559	B	interface	test			The DDICT CI shall provide training information to the SMC.
S-DMS-20735	8560	B	interface	test			The DDICT CI shall provide the capability to receive maintenance directives from the SMC.
S-DMS-20740	8561	B	interface	test			The DDICT CI shall provide the capability to receive directives for integration, testing, and simulation from the SMC.
S-DMS-20750	8562	B	interface	test			The DDICT CI shall provide the capability to receive configuration management directives from the SMC.
S-DMS-20760	8563	B	interface	test			The DDICT CI shall provide the capability to receive logistics management directives from the SMC.
S-DMS-20770	8564	B	interface	test			The DDICT CI shall provide the capability to receive fault management directives from the SMC.
S-DMS-20780	8565	B	interface	test			The DDICT CI shall provide the capability to receive security directives from the SMC.
S-DMS-20790	8566	B	interface	test			The DDICT CI shall provide the capability to receive training management directives from the SMC.
S-DMS-20795	9701	B	procedural				The DDICT CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.
S-DMS-20796	9702	B	functional				The DDICT CI shall provide operations staff with the capability to distribute DDICT CI utilization reports electronically or in hard copy or on electronic media.
S-DMS-20820	9614	B <u>B0</u>	interface	test			The DDICT CI shall provide detected hardware and software fault information to MSS.
S-DMS-20830	9620	B <u>B0</u>	interface	test			The DDICT CI shall provide configuration management data such as software versions to the MSS using the managed process framework.
S-DMS-20835	9624	B <u>B0</u>	functional				The DDICT CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-20840	9610	<u>B</u> <u>B0</u>	interface	test			The DDICT CI shall report Accountability Management Data (requests such as searches, browse requests, orders) to the MSS.
S-DMS-20850	9628	<u>B</u> <u>B0</u>	interface	test			The DDICT CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.
S-DMS-20860	9638	B	interface	test			The DDICT CI shall provide to MSS configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).
S-DMS-20865	9685	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log to MSS the initiation of all Service requests.
S-DMS-20866	9687	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log the startup of the DDICT servers to MSS.
S-DMS-20867	9689	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log the shutdown of the DDICT servers to MSS.
S-DMS-20868	9691	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log to MSS when a service request is activated from the queue.
S-DMS-20869	9693	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log to MSS when a request has been successfully completed and the status is about to be returned to the client.
S-DMS-20870	9695	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log to MSS the initiation of a session.
S-DMS-20871	9698	<u>B</u> <u>B1</u>	interface				The DDICT CI shall log to MSS the suspension of a session.
S-DMS-20872	9699	<u>B</u> <u>B1</u>	interface				The DDICT CI shall log to MSS the resumption of a previously suspended session.
S-DMS-20873	9700	<u>B</u> <u>B0</u>	interface				The DDICT CI shall log to MSS the termination of a session.
S-DMS-20880	8572	B	functional	test			The DDICT CI shall have the capability to receive from the Data Administrator, Data Administration Requests
S-DMS-20890	8573	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide maintain Valid Values for data elements, where the data element has an enumerated set of values as a constraint.
S-DMS-20910	8575	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide access to the lists of the Valid Values for data elements, where the data element has an enumerated set of values as a constraint
S-DMS-20920	9560	<u>B</u> <u>B1</u>	functional	demo			The DDICT CI shall provide the capability to relate Phenomenological Search Criteria to Search Criteria

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							containing values for searchable attributes supported in the Data Server Schema.
S-DMS-20930	8576	<u>B</u> <u>B0</u>	interface	test			The DDICT CI shall have the capability to export Dependent Valid Values to the ESDIS IMS.
S-DMS-21000	8577	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide an application program interface for the submission of Service Requests.
S-DMS-21010	8578	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall provide an application program interface for the submission of requests for administrative services.
S-DMS-21020	8579	<u>B</u> <u>B1</u>	functional	test			The DDICT CI shall contain a thesarus of data dictionary entries.
S-DMS-23920	9891	<u>B</u> <u>B0</u>	functional	test			DDICT CI mode-specific applications shall access data only for the mode in which the application is configured.
S-DMS-23921	9892	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-DMS-23924	9893	<u>B</u> <u>B0</u>	functional	test			DDICT CI mode-specific applications shall be capable of simultaneous execution in different modes on the same machine.
S-DMS-23925	9894	<u>B</u> <u>B0</u>	functional	test			DDICT CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-DMS-23926	9895	<u>B</u> <u>B0</u>	functional	test			DDICT CI server applications shall register within their mode-associated namespace in the CSS name service.
S-DMS-23927	9896	<u>B</u> <u>B0</u>	functional	test			DDICT CI client applications shall incorporate a mode identifier for CSS name service lookups.
S-DMS-23928	9897	<u>B</u> <u>B0</u>	functional	test			The DDICT CI shall be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-DMS-23929	9898	<u>B</u> <u>B0</u>	functional	test			DDICT CI mode-specific executables and scripts shall accept a specific mode only at startup.
S-DMS-30060	8581	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to establish sessions as the contxt for a series of service requests.
S-DMS-30070	8582	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability to suspend an on-going session.
S-DMS-30080	8583	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability to resume a previously suspended session.
S-DMS-30090	8584	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to terminate an established session.
S-DMS-30110	8585	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability to save the result of a Service Request for later reuse.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-30120	8586	B	functional	test			The GTWAY CI shall, upon request, provide the current Result Set (complete or incomplete) to the client or specified destination.
S-DMS-30130	8587	B	functional	test			The GTWAY CI shall provide the capability to terminate processing of active or suspended service requests.
S-DMS-30140	8588	B <u>B1</u>	functional	test			The GTWAY CI shall provide the capability to suspend processing of active service requests.
S-DMS-30150	8589	B <u>B1</u>	functional	test			The GTWAY CI shall provide the capability to resume processing of a previously suspended service request.
S-DMS-30160	8590	B	functional	test			The GTWAY CI shall provide a capability to estimate the resources required to execute a pending Service request.
S-DMS-30260	8591	B	functional	test			The GTWAY CI shall provide a capability to report the status of service requests submitted to it.
S-DMS-30310	8592	B <u>B0</u>	functional	test			The GTWAY CI shall have the capability to send Inventory Search Requests to the Version 0 IMS using Version 0 system protocols.
S-DMS-30320	8593	B <u>B0</u>	functional	test			The GTWAY CI shall have the capability to receive Inventory Search Results from the Version 0 IMS using Version 0 system protocols.
S-DMS-30340	8594	B <u>B0</u>	functional	test			The GTWAY CI shall have the capability to send Browse Requests to the Version 0 IMS using Version 0 system protocols.
S-DMS-30345	8595	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Browse Results from the V0 IMS using Version 0 protocols.
S-DMS-30350	8596	B <u>B0</u>	functional	test			The GTWAY CI shall have the capability to send Product Requests to the Version 0 IMS using Version 0 system protocols.
S-DMS-30510	11088	B <u>B0</u>	functional	inspection	unverified		The GTWAY CI shall provide an application program interface for the submission of requests for administrative services.
S-DMS-30550	8597	B <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to translate ECS system protocols into Version 0 system protocol.
S-DMS-30560	8598	B <u>B0</u>	functional	test			The GTWAY CI shall support two-way Level 2 or 3 catalog interoperability, as defined by the CEOS, for the interface between the ECS and the NOAA SAAs.
S-DMS-30570	8599	B <u>B0</u>	functional	test			The GTWAY CI shall support two-way Level 3 catalog interoperability, as defined by the CEOS, for the interface between the ECS and V0.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-30600	8600	B	interface	test			The GTWAY CI shall have the capability to send User Authentication Requests to the NOAA SAAs using Version 0 system protocols.
S-DMS-30610	8601	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive User Authentication Information from the NOAA SAAs using Version 0 system protocols.
S-DMS-30620	8602	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive User Authentication Requests from the NOAA SAAs using Version 0 system protocols.
S-DMS-30630	8603	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send User Authentication Information to the NOAA SAAs using Version 0 system protocols.
S-DMS-30640	8604	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Inventory Search Requests from the NOAA SAAs using Version 0 system protocols.
S-DMS-30650	8605	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Inventory Search Results to the NOAA SAAs using Version 0 system protocols.
S-DMS-30660	8606	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Inventory Search Requests to the NOAA SAAs using Version 0 system protocols.
S-DMS-30670	8607	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Inventory Search Results from the NOAA SAAs using Version 0 system protocols.
S-DMS-30680	8608	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Browse Requests from the NOAA SAAs using Version 0 system protocols.
S-DMS-30690	8609	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Browse Requests to the NOAA SAAs using Version 0 system protocols.
S-DMS-30695	8610	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Browse Results from the NOAA SAAs using Version 0 system protocols.
S-DMS-30700	8611	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Product Requests to the NOAA SAAs using Version 0 system protocols.
S-DMS-30710	8612	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Product Delivery Status from the NOAA SAAs using Version 0 system protocols.
S-DMS-	8613	<u>B</u>	interface	test			The GTWAY CI shall have the capability to send Product

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
30720		<u>B0</u>					Delivery Status Requests to the NOAA SAAs using Version 0 system protocols.
S-DMS-30730	8614	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Product Requests from the NOAA SAAs using Version 0 system protocols.
S-DMS-30740	8615	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Product Delivery Status to the NOAA SAAs using Version 0 system protocols.
S-DMS-30750	8616	<u>B</u> <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Product Delivery Status Requests from the NOAA SAAs using Version 0 system protocols.
S-DMS-30760	9603	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide partial results upon request which consists of the results from the start of the request or since the last request for results.
S-DMS-30800	8618	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall be able to provide notification of events associated with sessions which require additional instructions, e.g., when requests exceed a specified threshold.
S-DMS-30805	8619	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall be able to provide notification of events associated with Service requests which require additional instructions, e.g., when resources for a request exceed a specified threshold.
S-DMS-30810	8620	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide an entry point to be used to respond to notifications of events which require instructions to be returned to the LIM CI.
S-DMS-30820	8621	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to accept and utilize the entry point to be used for asynchronous notification in asynchronous Service Requests.
S-DMS-30830	8622	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to disable asynchronous notifications, and provide default instructions for such notification events.
S-DMS-30840	8623	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall be able to accept notifications of events associated with sessions it has with other services.
S-DMS-30845	8624	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall be able to accept notifications of events associated with Service requests it issued to other services.
S-DMS-30850	8625	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide a capability to accept instructions associated with responses to notifications of events.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-30860	8626	B	functional	test			The GTWAY CI shall provide a capability to report the status of sessions established by it.
S-DMS-30870	8627	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall automatically suspend sessions that have been inactive for a specified time.
S-DMS-30890	8628	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall support multiple concurrent sessions.
S-DMS-30900	8629	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall support multiple service requests within a session.
S-DMS-30910	8630	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall log the initiation of a session.
S-DMS-30920	8631	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall log the termination of a session.
S-DMS-30930	8632	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall log the suspension of a session.
S-DMS-30940	8633	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall log the resumption of previously suspended
S-DMS-30950	8634	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability for the operations staff to specify a "time-out" period for inactive sessions.
S-DMS-30960	8635	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability for the operations staff to suspend all active sessions.
S-DMS-30970	8636	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall provide the capability for the operations staff to resume any or all sessions, previously suspended by operations staff or clients.
S-DMS-30980	8637	B	functional	test			The GTWAY CI shall provide the capability for the operations staff to terminate any or all active or suspended sessions.
S-DMS-30990	8638	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall send Notifications to users via email in the event that a users's request or session is canceled by operations staff.
S-DMS-31000	8639	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall provide the capability to restore a session after interruption.
S-DMS-31011	9674	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log the startup of the GTWAY servers to MSS.
S-DMS-31012	9675	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log the shutdown of the GTWAY servers to MSS.
S-DMS-31013	9677	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when a service request is activated from the queue.
S-DMS-31014	9678	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when a service request has been successfully decomposed into its

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
							component requests.
S-DMS-31015	9680	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when an external connection to the V0 IMS server has been established.
S-DMS-31016	9681	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when the component service request has been submitted to the V0 IMS server.
S-DMS-31017	9683	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when the request to the V0 IMS server has been successfully returned.
S-DMS-31018	9684	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall log to MSS when the results of the request has been integrated and status is about to be sent to the client program.
S-DMS-31020	8640	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall log the suspension of processing of Service requests.
S-DMS-31030	8641	<u>B</u> <u>B1</u>	functional	test			The GTWAY CI shall log the resumption of previously suspended Service requests.
S-DMS-31050	8642	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall ensure that databases which are distributed and replicated provide synchronized data.
S-DMS-31051	9617	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall send detected hardware and software fault information to MSS.
S-DMS-31052	9621	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall provide configuration management data such as software versions to MSS using managed process framework.
S-DMS-31053	9632	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall collect Performance Management Data using the MSS managed object components and provide it to the MSS at configurable intervals and on demand.
S-DMS-31054	9635	<u>B</u> <u>B0</u>	interface				The GTWAY CI shall collect Security Management Data (such as rejected access to a service) and provide it to the MSS.
S-DMS-31055	10206	B	interface	test			The GTWAY CI shall report Accountability Management Data (requests such as searches, browse requests, orders) to the MSS.
S-DMS-31056	9625	<u>B</u> <u>B0</u>	functional				The GTWAY CI shall support the MSS in collecting Accounting Management Data by supplying resource utilization data.
S-DMS-31057	9639	B	interface				The GTWAY CI shall provide to MSS configuration information such as number of expected daily sessions, which will be used by MSS to compare plans to actuals (i.e. schedule management).
S-DMS-31058	9648	B	interface				The GTWAY CI shall provide integration, testing, and simulation status to the MSS.

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
S-DMS-31059	9649	B	interface				The GTWAY CI shall provide maintenance status to the MSS.
S-DMS-31060	8643	B	interface	test			The GTWAY CI shall have the capability to send Cost Estimate Requests to the NOAA SAAs using Version 0 protocols.
S-DMS-31061	9651	B	interface				The GTWAY CI shall provide training information to the SMC.
S-DMS-31062	9650	B	interface				The GTWAY CI shall provide logistics status to the SMC.
S-DMS-31090	8644	B	interface	test			The GTWAY CI shall have the capability to receive Cost Estimate Requests from the NOAA SAAs using Version 0 protocols.
S-DMS-31100	8645	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Guide queries to the NOAA SAAs using Version 0 protocols.
S-DMS-31120	8646	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Guide query results to the NOAA SAAs using Version 0 protocols.
S-DMS-31140	8647	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Ancillary Data Requests to the NOAA NMC using Version 0 protocols.
S-DMS-31150	8648	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Product Availability Queries to the NOAA NMC using Version 0 protocols.
S-DMS-31160	8649	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to send Guide Search Requests to the V0 IMS using Version 0 protocols.
S-DMS-31190	8650	B <u>B0</u>	interface	test			The GTWAY CI shall have the capability to receive Guide Search Results from the V0 IMS using Version 0 protocols.
S-DMS-32000	9703	B	procedural				The GTWAY CI shall support operations staff in the creation of utilization reports, and the operations staff shall distribute them on a periodic basis to a predefined list of report recipients.
S-DMS-32001	9704	B	functional				The GTWAY CI shall provide operations staff with the capability to distribute GTWAY CI utilization reports electronically or in hard copy or on electronic media.
S-DMS-32010	9711	B	functional				The GTWAY CI shall provide operations staff with the capability to generate daily GTWAY operations summary reports.
S-DMS-	9712	B	functional				The GTWAY CI shall provide operations staff with the

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1363A

L4 id	req_key	rel	req_type	ver_method	ver_status	clarification	text
32011							capability to generate GTWAY performance summary reports.
S-DMS-32020	9899	<u>B</u> <u>B0</u>	functional	test			GTWAY CI mode-specific applications shall access data only for the mode in which the application is configured.
S-DMS-32021	9900	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-DMS-32024	9901	<u>B</u> <u>B0</u>	functional	test			GTWAY CI mode-specific applications shall be capable of simultaneous execution in different modes on the same machine.
S-DMS-32025	9902	<u>B</u> <u>B0</u>	functional	test			GTWAY CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-DMS-32026	9903	<u>B</u> <u>B0</u>	functional	test			GTWAY CI server applications shall register within their mode-associated namespace in the CSS name service.
S-DMS-32027	9904	<u>B</u> <u>B0</u>	functional	test			GTWAY CI client applications shall incorporate a mode identifier for CSS name service lookups.
S-DMS-32028	9905	<u>B</u> <u>B0</u>	functional	test			The GTWAY CI shall be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-DMS-32029	9906	<u>B</u> <u>B0</u>	functional	test			GTWAY CI mode-specific executables and scripts shall accept a specific mode only at startup.
S-DMS-60200	8651	<u>B</u> <u>B0</u>	performance	test			The DMGHW CI shall provide local storage as defined in Appendix E (Section E.8, Table E-9) of the current version of 304-CD-005.