

<b>1.3.0—CMIP5 security and integration</b>	<b>Goal:</b> ESG security updates and product service integration	<b>Date:</b> Monday, April 4, 2011
<ul style="list-style-type: none"> <li>• Spring Framework 3.0 upgrade.</li> <li>• Security enhancements: <ul style="list-style-type: none"> <li>• Centralized gateway registry.</li> <li>• Centralized white-list management.</li> </ul> </li> <li>• Gateway collation of data node manager metrics:</li> <li>• Enhanced CMIP5 XML harvesting from METAFOR questionnaire atom feed.</li> <li>• Demonstrate base Live Access Server (LAS) Product Service integration: <ul style="list-style-type: none"> <li>• Enable basic subsetting services.</li> <li>• Enable basic data visualization services.</li> </ul> </li> <li>• New data set notification support.</li> </ul>		<b>Gateway</b>
<ul style="list-style-type: none"> <li>• Include ESG Publisher graphical user interface (GUI) in the release of the data node: <ul style="list-style-type: none"> <li>• Modified and added new features as requested by ESG staff and management.</li> <li>• ESG publisher provides a GUI interface, which has been updated to support data set versioning.</li> </ul> </li> <li>• Access metrics service in place for metrics fetching.</li> <li>• New release of installation script.</li> <li>• ESG publisher generates all metadata as prescribed by the Data Reference Syntax (DRS): <ul style="list-style-type: none"> <li>• Data set versioning is supported as defined by DRS.</li> <li>• Support is enabled in the ESG publisher for retrieval of data sets using a DRS-defined syntax.</li> <li>• DRS controlled vocabulary is maintained within the ESG publisher configuration.</li> <li>• ESG publisher supports DRS filename conventions.</li> </ul> </li> <li>• ESG publisher maintains CMOR (Climate Model Output Rewriter) table information.</li> <li>• ESG publisher interfaces with the ESG node installation script.</li> <li>• ESG query services: <ul style="list-style-type: none"> <li>• ESG data node suite connects with all ESG programming interfaces.</li> <li>• ESG publisher allows metadata queries to be directed to any ESG gateway.</li> </ul> </li> <li>• Support for other (non-CMIP) projects: <ul style="list-style-type: none"> <li>• A data handler has been written for observational data associated with CMIP5.</li> <li>• A data handler is available for the Transpose Atmospheric Model Intercomparison Project (AMIP) project.</li> </ul> </li> </ul>		<b>Data Node</b>
<b>1.4.0—CMIP5 distributed archive</b>	<b>Goal:</b> ESG product services and user interface	<b>Date:</b> Monday, May 16, 2011
<ul style="list-style-type: none"> <li>• Data access by DRS Uniform Resource Locators (URLs).</li> <li>• Advanced support for replica discovery and download: <ul style="list-style-type: none"> <li>• Search of replicated data sets.</li> <li>• WGet script generation at remote gateway.</li> </ul> </li> <li>• Present data set version history in user interface (UI).</li> <li>• Fully support deletion of data sets: <ul style="list-style-type: none"> <li>• Verify database integrity after hard deletion.</li> <li>• Support logical deletion.</li> </ul> </li> <li>• Enhance data download workflows: <ul style="list-style-type: none"> <li>• Improved script generation (via Data Cart capabilities, add WGet help, version requests).</li> <li>• Improved large file set selection.</li> </ul> </li> <li>• LAS product server integration (data sets and variable selection with auth-z): <ul style="list-style-type: none"> <li>• Enable basic subsetting services.</li> <li>• Enable basic data visualization services.</li> </ul> </li> <li>• Manage file access locations using publisher: <ul style="list-style-type: none"> <li>• Support for file rename, move, and remove use cases.</li> </ul> </li> <li>• New data set version notification support.</li> <li>• Optional token support discontinued based on federation feedback.</li> </ul>		<b>Gateway</b>

<ul style="list-style-type: none"> <li>• Data node documentation and help instructions.</li> <li>• Support for GridFTP services (GridFTP is the Globus high-performance FTP server): <ul style="list-style-type: none"> <li>• ESG publisher allows configuration and generation of GridFTP access to URLs.</li> </ul> </li> <li>• Continue upgrade of installation script with new component integration.</li> <li>• LAS “Product Server” integration: <ul style="list-style-type: none"> <li>• ESG publisher generates LAS URLs for publication, which enables LAS access to all published data sets.</li> </ul> </li> <li>• Enhance ESG publisher GUI: <ul style="list-style-type: none"> <li>• Design and build database metadata validation tool.</li> <li>• Incorporate MyProxy into the publisher GUI.</li> <li>• Add gateway query capability to the publisher GUI.</li> <li>• Add ESG list files to publisher GUI to show what files comprise a data set.</li> </ul> </li> <li>• Continue support for other (non-CMIP) projects: <ul style="list-style-type: none"> <li>• Data handler development.</li> <li>• Product tool integration.</li> </ul> </li> <li>• DRS refinement and CMIP5 data conventions updates (as needed).</li> <li>• Continue operational status of CMIP5.</li> </ul>		Data Node
1.5.0—CMIP5 – Baseline 3	Goal: Based on 1.4 system reviews and user feedback	Date: Monday, July 18, 2011
Release schedule will be based on user feedback on the 1.4 release		Gateway
Release schedule will be based on user feedback on the 1.4 release		Data Node