



Nr.	Vorgangsname	2010					2011					2012					2013									
		Hälfte 2, 2010		Hälfte 1, 2011			Hälfte 2, 2011		Hälfte 1, 2012			Hälfte 2, 2012		Hälfte 1, 2013												
		A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
36	14.1 [Data access libraries] Finding the most viable solution on how to merge data access libraries (M13-M18)																									
37	14.2 [Data access libraries] Implementing decided solution (M19-M22)																									
38	15.0 [D14] Completed migration to the common set of data access libraries																									
39	15.1 [Data Lib Adopters] Internal testing of implementation (M23-M28)																									
40	15.2 [Data Lib Adopters] Testing of EMI components depending on data access libraries (M23-M32)																									
41	16.0 [D12] Solve the synchronization problem of the storage elements and the file catalogue																									
42	16.1 [DPM, LFC] Providing the infrastructure to allow SE's and catalogues to communicate (M1-M12)																									
43	16.2 [DPM, LHC Catalogue] Integrating a LHC experiment catalogue into the synchronization infrastructure as a prove of concept (M1-M18)																									
44	16.3 [Plugins] Adding producers and consumer plugins for the other EMI Storage Elements (M1-M25)																									
45	16.4 [Plugins] Implementing support for a more comprehensive set of notifications (M1-M25)																									
46	17.0 [D19] Design and implement the next generation FTS, a distributed next generation file transfer service that among others utilizes the common messaging system																									
47	17.1 [What component] High level design, new configuration methods (remote, and stored in DB) (M1-M16)																									
48	17.2 [What component] New Language C++, Channels removed, load feedback from SE's and Network; new transfer prot: http(s); tesing (M1-M20)																									
49	17.3 [What component] Providing a prototype FTS service for EMI-2 (M1-M23)																									
50	17.4 [What component] Job queues moved to messaging. SE and Network interaction with FTS finalized; pilot service (M1-M30)																									
51	18.0 [D15] Agreement over a common storage accounting record including the refinement, definition and adoption of relevant standards																									
52	19.0 [D16] Add support for storage space usage accounting to Ses/FTS based on the agreed record																									
53	19.1 [FTS] SE's and FTS provide a design for providing the agreed Data Accounting record (M1-M18)																									
54	19.2 [FTS] Implementing the necessary sensors in FTS and the Ses to make the record available to e.g. messaging (M1-M25)																									
55	19.3 [FTS] Finishing the deployment (M1-M32)																									
56	20.0 [X8] Initial integration of the storage elements with the ARGUS authorization framework																									
57																										
58	Evaluating new technologies and methodologies																									
59	21.0 [D17] Implement the EMI cloud strategy within data area																									
60	22.0 [D22] Investigate solutions to work with EMI data services in the context of persistent data lds																									
61																										
62	Improving usability and interoperability of EMI components																									
63	23.0 [X14] Adhere to operating system standards for service operation and control regarding configuration, log and temporary file location and service starts/status/stop																									
64	24.0 [X18] Provide and support monitoring probes for EMI services																									
65	25.0 [X13] Improve usability of client tools based on customer feedback by ensuring a) better more informative, less contradictory error messages b) coherency of command line																									

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66	26.0 [X15] Port, release and support EMI components on identified platforms (full distribution on SL6 and Debian 6, UI on SL5/32 and latest Ubuntu)																									
67	27.0 [X17] Introduce minimal DOS protection for EMI services via configurable resource limits																									
68	27.1 [EMI Data Components] Identifying areas where high level DOS may become relevant for EMI Data components (M1-M18)																									
69	27.2 [EMI Data Components] Applying solutions for the identified DOS scenarios (M19-M28)																									
70	28.0 [X16] Provide optimized semi-automated configuration of service backends (e.g. databases) for standard deployment																									
71																										
72	Unclear																									
73	[D10] Overall consolidation of data area by adopting a consistent interpretation of SRM																									
74																										
75																										
76	Common or Cross Area Objectives																									
77	[X1] Define the Information Flow architecture describing messaging and non-messaging based information exchange of the EMI components...																									
78	[X2] Investigate possible use cases for a common standard messaging system in the computing area																									
79	[X3] Investigate possible use cases for a common standard messaging system in the data area																									
80	[X4] Agreement on common EMI delegation method																									
81	[X5] Definition of a common SAML profile all over the middleware stacks																									
82	[X6] Implementation of the EMI SAML profile all over the middleware stack																									
83	[X7] Integration of the compute area services with the ARGUS authorization framework																									
84	[X9] The legacy GSI will be replaced with a common security solution based on TLS/SSL and EMI delegation method																									
85	[X10] Adapt or implement monitoring interfaces, sensors, providers for compute, data, security, and infrastructure services to allow the use of ...																									
86	[X11] Complete the rewrite of components utilising the new AuthN libraries																									
87	[X12] Publish coherent GLUE 2.0-based version information as part of service description in order to facilitate service discovery and monitoring																									
88	[X19] Evolve EMI components to meet specific user requests																									
89	[X20] Increase performance of EMI services																									