

D4Science Project  
**Infrastructure and VO Training Event**  
 European Space Agency, Tor Vergata, 7-8-9 October 2009

#	Session Description	Type	Est. Time	Presenter	Period
<b>DAY #1</b>					
SESSION 1	This session includes an introduction to the infrastructure basic concepts, the deployment plan for the training infrastructure, and the deployment of the infrastructure enabling services and portal				
1.1	Welcome and Introduction <i>Presenters &amp; Attendees</i> <i>Brief D4Science project description</i> <i>Overview of the Agenda</i> <i>Pointers to further info</i>	-	20'	NKUA	DAY1/PM
1.2	The D4Science Infrastructure and its Resources <i>The notion of resource (all types)</i> <i>High level presentation of the roles of important resources to operate at / build up the infrastructure level</i> <i>Introduction to the concept of node, running instance, service, data resources, configuration resource and scope</i>	P	30'	CNR	DAY1/PM
1.3	The Training Infrastructure: Deployment Plan, gHN, ServiceMap <i>Organization of the different gCube services in a gCube-based infrastructure</i> <i>The training infrastructure deployment plan: scopes and nodes</i> <i>The gCube services container (gHN) and its configuration for the training</i>	P	40'	CERN	DAY1/PM
1.4	Registering a new Infrastructure <i>The usage of VOMS to manage infrastructure scopes and users</i>	D	15'	CERN	DAY1/PM
COFFEE BREAK					
1.5	Deploying the Root Enabling Services <i>Presentation of the Enabling Services and their role in a gCube powered installation</i> <i>Step-by-step demonstration of the deployment of the infrastructure enabling services (IS Collector, IS Registry, IS Notifier, Software Repository, VRE Manager)</i> <i>Command line driven operations for the deployment of gHN containers</i>	P+D	40'	CERN	DAY1/PM
1.6	Installing the Portal and the Monitoring Application <i>The technology and role of the portal</i> <i>The elements of the portal</i> <i>The process of portal development</i>	P	30'	NKUA	DAY1/PM
1.7	Exploiting the Monitoring Application <i>The monitoring of the infrastructure level resources</i>	D	30'	CNR	DAY1/PM

DAY #2					
SESSION 2	This session includes the initial steps to deploy a new VO, including the creation of VOMS group and the deployment of gCube VO-level services				
2.1	Registering a new VO <i>The usage of VOMS to start the VO creation process</i>	D	15'	CERN	DAY2/AM
2.2	Deploying the VO Enabling services <i>Presentation of the Enabling Services and their role in a gCube powered installation (The gCube Information System, VRE Management, VOMS configuration)</i> <i>Step-by-step demonstration of the deployment of the infrastructure enabling services (IS Collector, IS Registry, IS Notifier, Software Repository, VRE Manager)</i>	P+D	40'	CERN	DAY2/AM
2.3	Configuring the VO: Populate SR and Create VO Layout <i>How to prepare the ground for a VO</i> <i>Step-by-step demonstration of the VO post-deployment configuration tasks</i> <i>The ETICS build system</i> <i>The population of the Software Repository with the latest stable gCube release</i> <i>Service Profiles and Service Archives</i> <i>The configuration of the portal to exploit the new VO</i>	P+D	40'	CNR/CERN	DAY2/AM
COFFEE BREAK					
2.4	Deploying the VO Mandatory Services <i>Short presentation of the VO mandatory services and their role</i> <i>Demonstration of the deployment</i> <i>Storage Management, Metadata Management, Indexes and Personalisation Services</i> <i>Their Role and the Deployment Scenario (i.e. why we deploy them at VO level)</i>	P+D	30'	CNR	DAY2/AM
SESSION 3	This session includes the aspects related to creation of the VO environment, from the creation of all mandatory VO resources to the data staging process				
3.1	The gCube VO-level Resources <i>High level presentation that identifies the VO level resources and their role in the system (focus on prerequisite generic resources, minimal reference to WS-Resources)</i>	P	20'	NKUA	DAY2/AM
3.2	Registering gCube Resources <i>Presentation of the Generic Resources needed and their registration in the system.</i> <i>Selected resources will be in focus in subsequent sessions.</i>	P+D	20'	CNR / NKUA	DAY2/AM
LUNCH BREAK					
3.3	The Data Staging Process <i>Overview presentation of the flow and capacities of the data staging facilities of gCube</i> <i>AIS/AISL, C/SM, MMS, Indices, gDTS, the role of the "common schema"</i>	P	40'	NKUA	DAY2/PM
3.4	Content Import <i>Presentation: The process explained &amp; the resources involved</i>	p+D	40'	UNIBASEL	DAY2/PM
COFFEE BREAK					
3.5	Bootstrapping Information Retrieval Resources	P+D	40'	NKUA	DAY2/PM

	<i>Presentation: IR Bootstrapper operation (involving CMS, Metadata Manager, gDTS, Indices, CSD etc) Demo of the IR Bootstrapper</i>				
3.6	AISL in depth The service architecture, pluggins, protocols and scripting capacities	D	40'	UNIBASEL	DAY2/PM
3.7	Exploiting gDTS in bootstrapping gDTS operation. Existing Transformation Programs Importing other sources: XSLTS for feeding indices	P+d	20'	NKUA	DAY2/PM
<b>DAY #3</b>					
SESSION 4	This session includes the management of the VO resources and the management of VO users and associated roles				
4.1	Managing the VO Resources <i>Resource specific management tools (Index Management, Information System recovery tool etc) System/User Reaction to errors/disasters and beyond the typical installations</i>	P+D	40'	ALL	DAY3/AM
4.2	Monitoring the VO with the Monitoring Application <i>Monitoring the Information Management layer resources at the VO level, via the Monitoring tools</i>	D	30'	CNR	DAY3/AM
4.3	Managing the VO Users/Roles <i>Adding/removing users and roles via gCube UT</i>	D	20'	CERN	DAY3/AM
COFFEE BREAK					
4.4	After the VO <i>Demonstration of the instantiation of a VRE on the resources created during the event at the infrastructure / VO level and monitoring through the tools</i>	D	20'	CNR	DAY3/AM
4.5	Further info <i>Documentation, Links, Support &amp; Feedback and what is coming next from the Project and its Sequel</i>	P	15'	NKUA	DAY3/AM
4.6	Open session <i>Recap on topics indicated by trainees, trainers during the event Hands on training and Free session for discussion on Trainee-driven topics 4 systems will be placed at the disposal of trainees for hands on training of the attendants</i>	T	70'	All	DAY3/AM
END of EVENT					

P – Presentation / D – Demonstration

5' breaks are foreseen at the end of sessions lasting beyond 40'