

Project Overview EMI 1 Kebnekaise Report

Alberto Di Meglio (CERN)
Project Director

EMI All-Hands Meeting Lund, 30 May – 1 June 2011

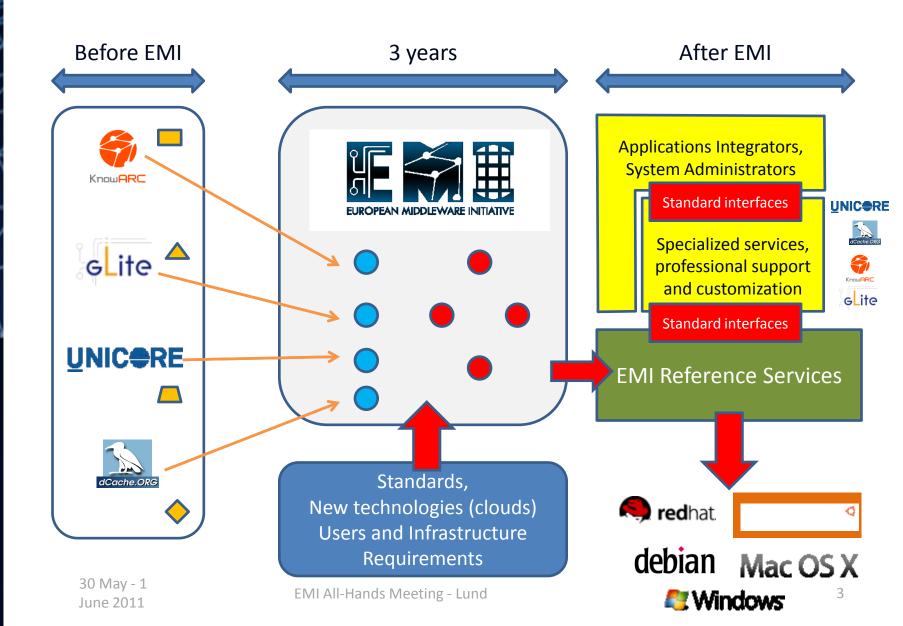
Content



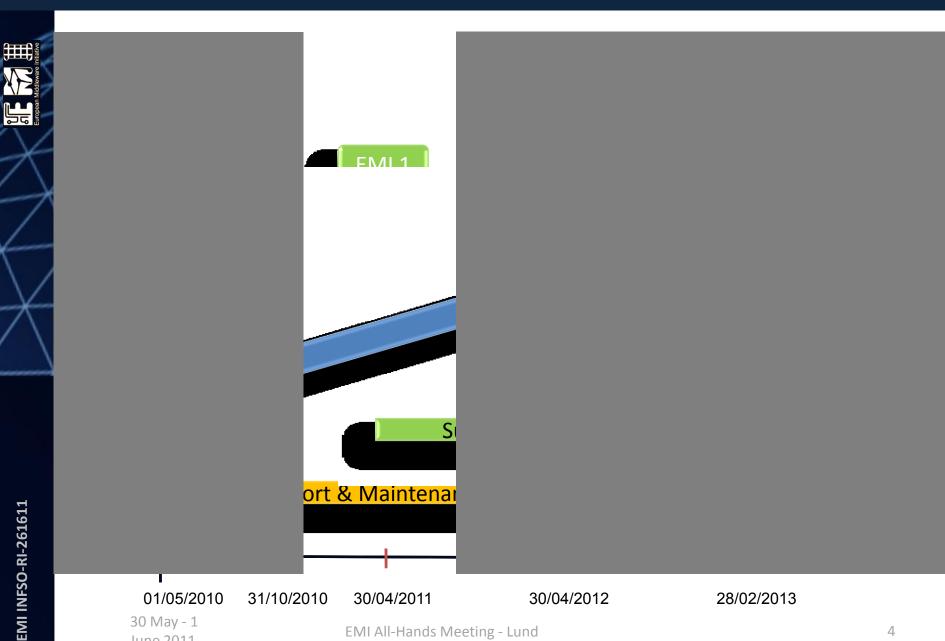
- EMI 1 Kebnekaise
- Project highlights
- AH Goals
- Agenda

EMI INFSO-RI-261611

EMI Middleware Evolution

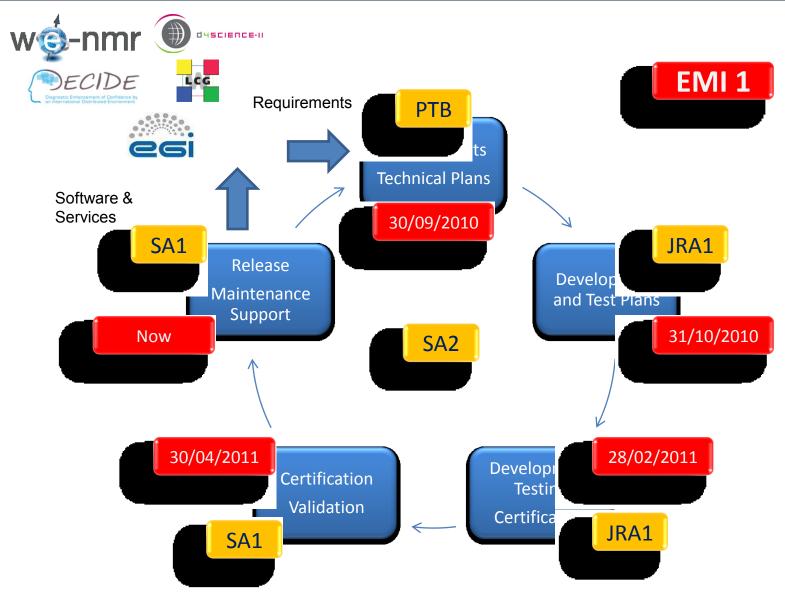


Release Plan



June 2011

EMI 1 Release Cycle



EMI 1 in Numbers



- 54 Products from ARC, dCache, gLite, UNICORE
 - https://savannah.cern.ch/task/?group=emi-releases
- 333 EMI packages
- 192 external deps, 165 from SL5/EPEL, 27 managed by EMI
- 100% of RPMS
- 86% of SRPMS
- Latest builds:
 - 64bit: http://bit.ly/emi 1 64
 - 32bit: http://bit.ly/emi 1 32

EMI 1 Release



The EMI project is pleased to announce EMI 1 Kebnekaise release. This release features for the first time a complete and integrated set of middleware components (ARC,dCache, gLite and UNICORE), created in the past from different EU projects, and

Kebnekaise will be supported for 18 months, with 6 additional months

EMI 1 (Kebnekaise) Overview

The European Middleware Initiative (EMI) project aims to deliver a conso major middleware providers in Europe - ARC, dCache, gLite and UNICO towards a stable integrated distribution of compute and data managemer deployment in distributed computing infrastructures in Europe and beyon

The first EMI release is focused primarily on laying the foundations for the original middleware stacks, improving the compatibility with mainstream compliance with existing standards.

EMI 1 components follow more closely packaging guidelines and policies the File Hierarchy Standard (FHS), make extensive use of off-the-shelf parepositories like EPEL, reduce the dependency on less standard technological technological extensive uses of off-the-shelf parepositories.

EMI 1 introduces a number of changes and new functionality in response

- Security Replacement of GSI with SSL in the security components obtaining X.509 attribute certificates in VOMS Admin; initial integration
- Compute Full support for the CLUSTER service in CREAM; initial:
 CREAM; initial implementation of common MPI methods across the

EMI Repository



EMI Software Repository

About EMI

Documentation

Support

Mailing list



News 🔊

EMI 1 Released (12/05/2011)

Welcome to the EMI Software Repository

EMI is a collaboration among the major European providers of middleware and services for distributed computing and data research infrastructure. ARC, dCache, gLite and UNICORE work together to provide efficient, standard products that can I a single distribution by infrastructure providers, site administrators or researchers.

The goal of EMI is to provide software compliant with the major Operating Systems distributions policies reusing as much existing software components.

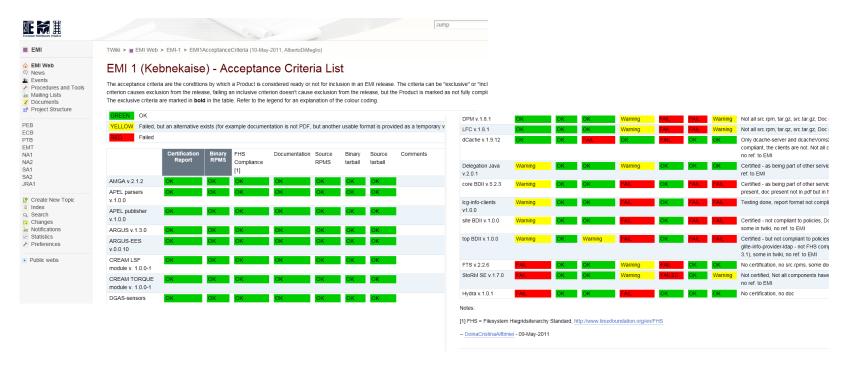
Latest Supported Releases

EMI 1 (Kebnekaise)		
Base	SL5 (i386)	SL5 (x86_64)
Updates	SL5 (i386)	SL5 (x86_64)
Third-Party	SL5 (i386)	SL5 (x86_64)

http://emisoft.web.cern.ch/emisoft/index.html

EMI 1 Release Criteria

 The release snapshot is based on the achievement of a set of "acceptance criteria" (certification, package formats, documentation, etc)



http://www.eu-emi.eu/kebnekaise-acceptance-criteria

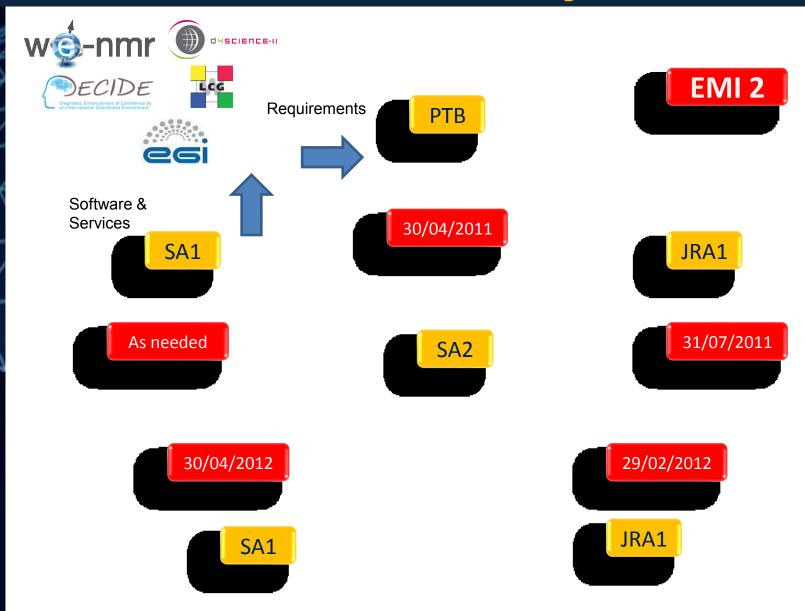
What now?



- Start regular updates/maintenance phase
- Every product maintained independently (but only backward compatible changes)
- "EMI Release Preview Program"
- Start porting to SL6 and Debian (precise schedule to be worked out)
- Step up the compliance with QA policies and in particular with OS guidelines
- Start EMI 2 development work, based on the agreed prioritized requirements and area workplans

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EMI 2 Release Cycle



Release Codenames

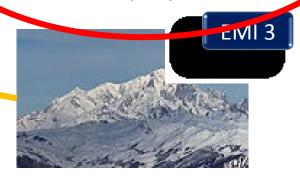




Kebnekaise (SW), 2104 m

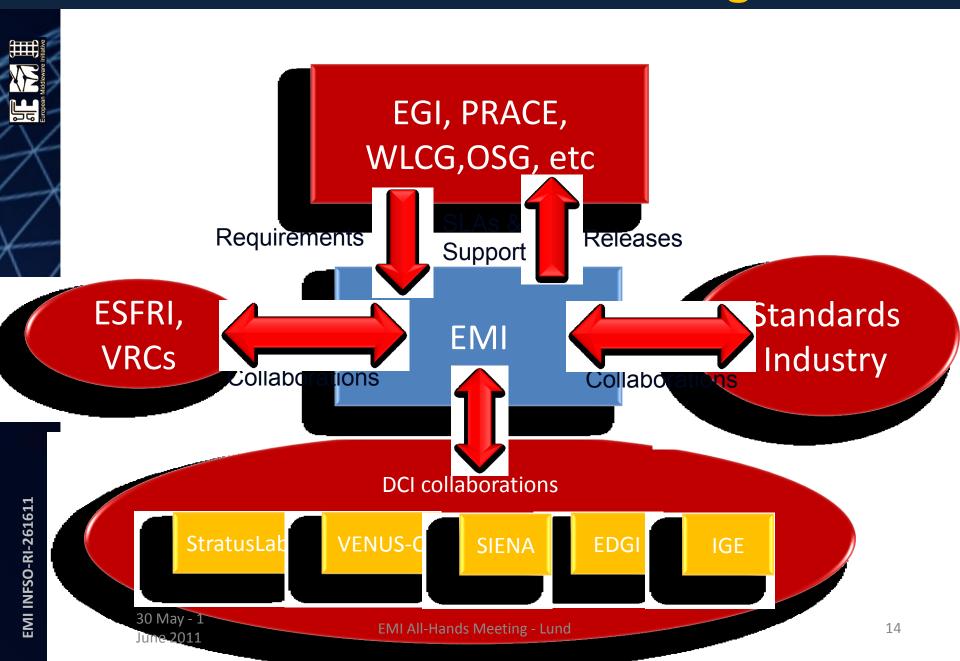


Matterhorn (CH), 4478 m



Monte Bianco (IT/FR), 4810 m

Collaborations and Strategies

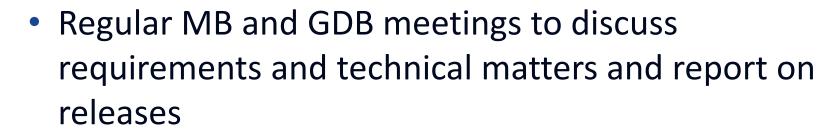


EGI



- Regular TCB meetings to discuss requirements and technical matters
- EMI 1 released into EGI release process to start certification and staged roll-out
- SLA signed on April 14th specifies the service levels, especially user support response times
 - Will be monitored using GGUS tools
- EGI Year 2 seems to be focusing on grid and cloud integration/interoperability
 - Need to follow that and understand the impact on EMI in terms of new requirements

WLCG



- Not clear at the moment whether middleware will be taken from EMI or UMD
 - Probably depends on which service, which Institute, which purpose and how quickly UMD is released
- There are a number of important discussion on info systems and clouds that may have an impact on EMI in terms of requirements

PRACE



- First formal contact established in November 2010
- No special collaboration mechanism in place so far
 - Agreement to attend the next major PRACE event to showcase EMI and get user requirements
- Relationship to be strengthened in year 2

Other communities

 Several MoUs or collaboration letters have been signed or are being signed with other projects and initiatives, for example





















More Details can be found at

http://www.eu-emi.eu/collaboration

Standards and Industry

- EMI participation in standardization activities has been strong, many EMI members are driving several standardization efforts
 - In year 2 the specs will have to be transformed into real implementations
- Collaboration with industry is important for sustainability, but not easy to achieve, not much to report on this in year 1
 - Contacts exists with Google, Red Hat, some smaller service providers (TheSyrrus Ltd)
 - New contact established with Canonical

EC Review



- Remote rehearsals have already taken place
- First F2F dress rehearsal on Wed afternoon
- Need a 20 minutes demo, we have some ideas, but proposals are very welcome
- ALL deliverables and milestones have to be completed by June 6th or will have to be reported as not achieved
 - As of today still 11 to be submitted

AH Goals



- Two main themes
 - Present was has been done in year 1, do some post-mortem of what went well and what must be improved
 - Start in earnest the discussion and planning for year 2 in all activities

Agenda



- Trhee types of sessions:
 - Reporting sessions per WP (this session)
 - Plenary or parallel session per topic, activity or WP to present plans, discuss and refine (this morning, all of Tuesday)
 - Final session with summaries (wed morning)
- Only for the bravest:
 - Football tournament
 - Remember: the thing to kick is the big round one not the bone connecting knee and foot or other people

Survey



- The link will be sent after the meeting
- Please fill it up to allow us to improve in the organization of this type of events





Thank you

EMI is partially funded by the European Commission under Grant Agreement INFSO-RI-261611