

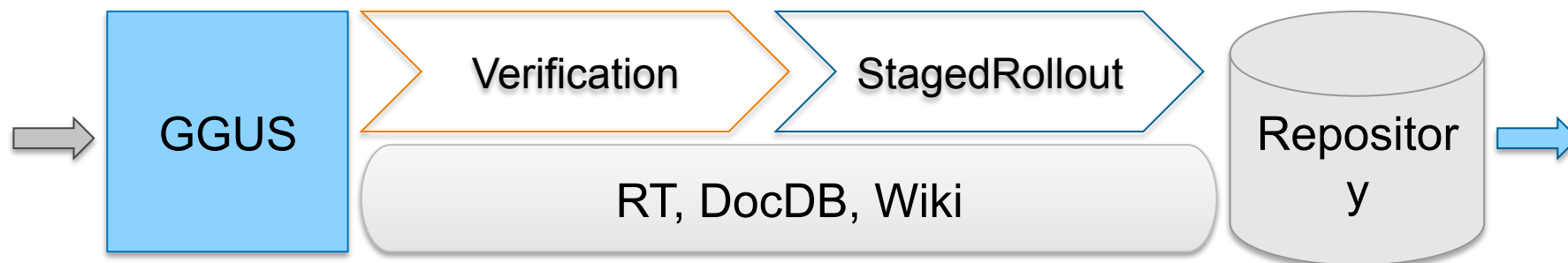
Provisioning infrastructure and the UMD Repository

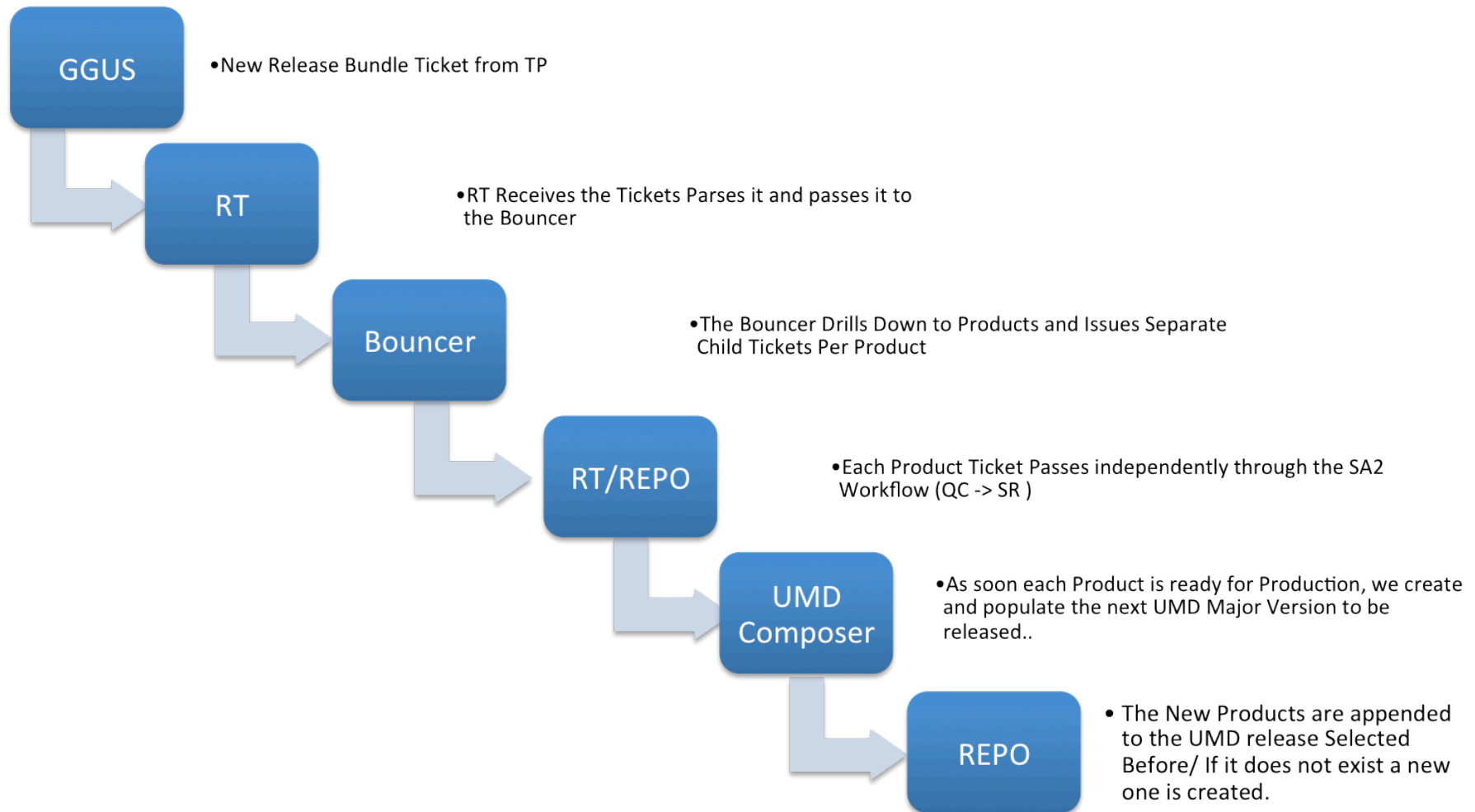
Kostas Koumantaros
GRNET



- Introduction
- Overview EGI Software Verification Workflow Tools
 - GGUS Software Provisioning Dashboard & Submission Form.
 - Resource Tracker
 - Bouncer
 - Repository
 - Frontend & user tools
 - Support Tools

- Modular Architecture
- End-to-end semi-automatic provisioning
 - User interfaces for manual process actions
- Permanent, public storage of provisioning reports
 - Both Criteria Verification, and StagedRollout
- Integrated with processes in
 - SA1: StagedRollout, Repositories
 - Technology Providers







Software Provisioning Submission Form



► Technology Helpdesk

[► Software Release Dashboard](#) [► Technology Support Dashboard](#) [► Go to GGUS](#)

Open Software Release Ticket

User information

Name	Milos Liska (- Release Manager)	E-Mail	xliska@fi.muni.cz
Cc to	<input type="text"/>	Notification mode	<input type="radio"/> on every change <input checked="" type="radio"/> on solution

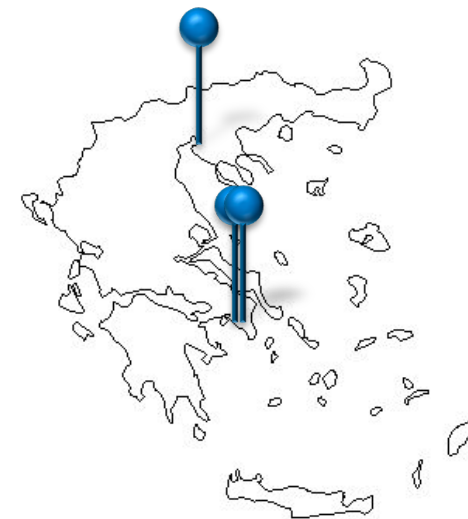
Release information

Current Date / Time	2011-05-10 05:37 UTC
Release title (required)	<input type="text"/>
Details (optional)	<input type="text"/>
Attach release description (must be named: "release.xml")	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Submit"/>	

- Bouncer
 - Parses the Release information and extracts individual products instances (PPAs)
 - finds all dependencies in a remote repository
 - Generates a new XML file per PPA containing information from the release description and a list of the found dependencies

- Request Tracker
 - Plays an integral role in the whole process
 - It's the interface for all manual interaction
 - Controls the actions to be performed by the repository (eg. Move PPA x SR -> UMD Store)
 - Holds links to QC and SR reports
 - Handles communication with TPs through GGUS
 - Notifies QC and SR teams for new PPAs to pass through the workflow

- Distributed service hosted by GRNET
 - IASA, Athens (Master)
 - NDC, Athens
 - AUTH, Thessaloniki
- Frontend based on Wordpress CMS
 - RSS based syndication with EGI website
 - Software distribution based sub-community
- High Availability of backend, and frontend content
 - All sites synchronise every 5 minutes
 - Round-robin list of serving sites updated every 10 minutes
 - 2x1 Gbit/s GEANT connectivity, upgrade to 10 Gbit/s possible



- The main engine provides
 - A restful API to RT to move PPAs
 - A Databank that holds all PPAs and the related metadata.
 - The logic behind the whole process
 - A web-interface to monitor the status of the RolloutProgress transitions
- Can create new yum repos on the fly
 - Unverified repos per PPA
 - SR repos per PPA
 - Early adopters Repo
 - Production repos



UMD Composer

EGI Repository Administration mhagel ▾

Home Composer Mirrors Status Help

refresh clear all

Store

id	releaseidentifier
763	testsw-1.37.0
766	emi-3.2.1
767	mydistro-3.0.0
768	mydistro-3.1.0
772	mydistro-3.1.1
773	mydistro-3.0.0-er1
776	mydistro-3.0.0-er2
778	mydistro-3.0.0-er3
779	mydistro-3.0.0-er4
781	mydistro-3.1.2
782	mydistro-3.1.25
789	mydistro-3.1.4
814	mydistro-3.1.5
815	mydistro-3.1.6
816	mydistro-3.1.4-er1
817	mydistro-3.1.4-er2
818	mydistro-3.1.7
821	mydistro-3.1.8
824	mydistro-3.1.10
825	mydistro-3.1.11
826	mydistro-3.1.6-er1
827	mydistro-3.1.12
840	auth01-0.1.0
843	auth01-0.1.1
845	auth01-0.2.0
846	auth01-0.1.1-er1
847	auth01-0.2.1
849	iccs-0.1.0
850	auth01-0.2.1-er1

Composition

Unified Middleware Distribution : 70.0.0

- sl5 [1]
 - x86_64 [48]
 - testsw-1.37.0
 - emi-3.2.1
 - mydistro-3.0.0
 - mydistro-3.1.0
 - mydistro-3.1.1
 - mydistro-3.0.0-er1
 - mydistro-3.0.0-er2
 - mydistro-3.0.0-er3
 - mydistro-3.0.0-er4
 - mydistro-3.1.2
 - mydistro-3.1.25
 - mydistro-3.1.4
 - mydistro-3.1.5
 - mydistro-3.1.6
 - mydistro-3.1.4-er1
 - mydistro-3.1.4-er2
 - mydistro-3.1.7
 - mydistro-3.1.8
 - mydistro-3.1.10
 - mydistro-3.1.11
 - mydistro-3.1.6-er1
 - mydistro-3.1.12
 - auth01-0.1.0
 - auth01-0.1.1
 - auth01-0.2.0
 - auth01-0.1.1-er1
 - auth01-0.2.1
 - iccs-0.1.0
 - auth01-0.2.1-er1
 - auth01-0.3.0
 - iccs-1.1.0
 - iccs-1.1.1
 - iccs-1.1.2
 - auth01-1.0.0
 - auth01-1.3.0
 - mydistro-3.1.15
 - mydistro-3.1.16

Properties: Composition Distribution

Name	Value
Contact Info	
Technical Contact Info	
Description	
Released at	-
Release Notes	-
Created at	2011-05-10 18:42:36
Last Updated at	-
Is Update	<input type="checkbox"/>



Repository Front End

Release: UMD-1.2.0

Posted on [12/09/2011](#) by [Channel: EGI Repository - Production level UMD Releases](#)

Description

UMD 1.2.0 is the third release of UMD-1 (Unified Middleware Distribution) made available for the EGI production infrastructure. This release continues the process to provide a complete set of software services for EGI's user communities to use and integrate on.

Contact Info

For further information about the UMD, its goals and surrounding processes, and more information about how to engage as a Technology Provider with EGI, please send an Email to: [cto \(at\) egi.eu](mailto:cto@egi.eu).

Technical Contact Info

For any bugs and issues you encounter that are not described in the release notes of this UMD release, or the related documentation provided by the Technology Providers, please visit the [EGI Helpdesk](#) to create a report

Release Notes

This release features the following new products, further completing the set of software services available to access the EGI production infrastructure. Most notably, select services from the Globus software stack are published in the UMD for the first time as described below:

- **Middleware**
 - **By Capabilities**
 - **Client Capabilities**
 - **Compute Capabilities**
 - **Data Capabilities**
 - **Information Capabilities**
 - **Operations Capabilities**
 - **Security Capabilities**
 - **Storage Capabilities**
 - **By Distribution**
 - **UMD-1**
- **Miscellaneous**
 - **cas**
 - **sam**
- **UMD Release Schedules**
 - **UMD 1 Release Schedule**

- **DocDB**
 - Used to store all official documents
 - Including QC and SR reports per PPA
- **Wiki**
 - Used to store working documents
 - Including Installation notes for each UMD release e.g. <https://wiki.egi.eu/wiki/UMD-1>

- MS506: : EGI Software Repository - Architecture and Plans
 - <https://documents.egi.eu/document/503>

- Questions at the Q & A session at the end.

six major logical sections:

- The general release section
- The YUM Repositories section
- The APT Repositories section
- The YUM repofiles section and
- The APT repofiles (i.e. “.list” files) section
- More info at:
<https://documents.egi.eu/public/ShowDocument?docid=428>
- Works in dual mode
 - A) for Internal Technology Providers (e.g CA or SAM)
 - B) for each PPA targeted for UMD.

- Is a bundle of Products Per Platform.
Architecture (PPAs)
- Provides instructions to the bouncer to create a dependency list and to create an release.xml per ppa.
- More info at: <https://documents.egi.eu/public/ShowDocument?docid=399>