



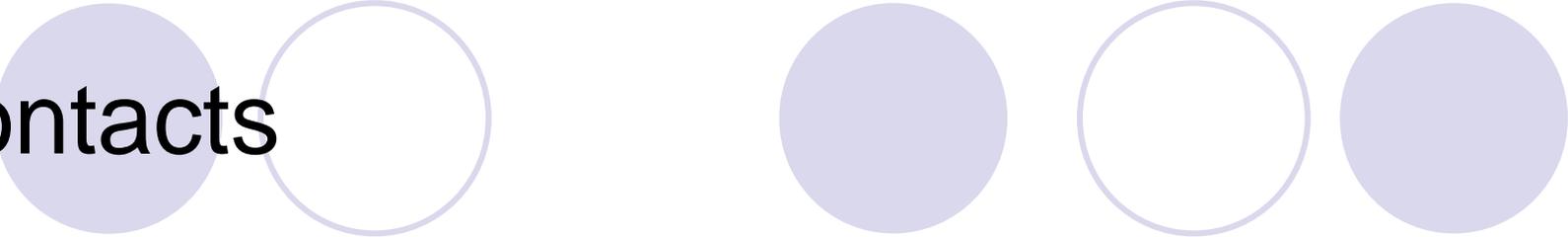
OSLC PLM Workgroup

PLM Areas of concern
open-services.net

V0.2



Contacts

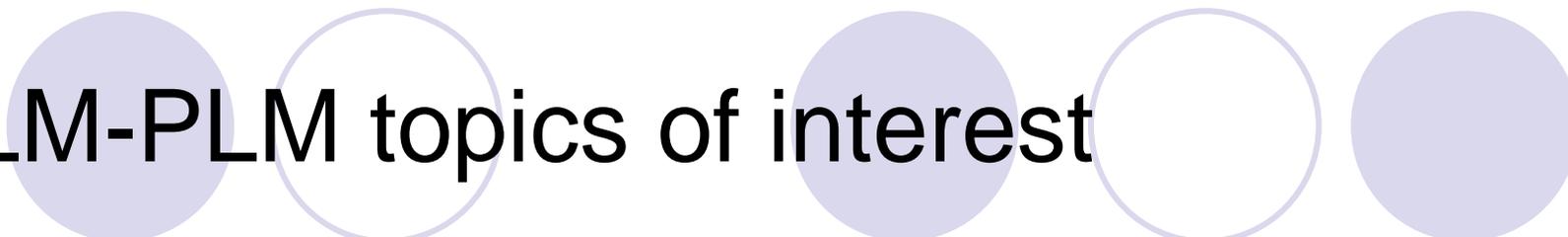


- Workgroup lead: Rainer Ersch, Siemens
- Coordinator: Gray Bachelor, IBM

Background to the ALM-PLM areas of interest in the OSLC workgroup

- These represent areas that have come up in real cases
- Offered from experience of
 - PLM process integration
 - ALM-PLM integration scenarios
 - CALM for Systems
- 6 topics were identified with a 7th added at the Feb 16th meeting for Configuration Management





ALM-PLM topics of interest

1. PLM product or System identities used within the ALM environment such as to name (e.g. identify, classify or associate) activities and artefacts
2. Location of ALM content from a PLM or system context and/or location of relevant PLM content from an ALM or system context
3. ALM deliveries of product or system content (artefacts) into a PLM setting such as part of a release managed by PLM
4. Flows of plans, requirements, quality info and changes activities and items between ALM and PLM or System context
5. Analytics, reporting from ALM to PLM, from PLM to ALM or combinations including a System context
6. Organisation, role, approvals and authorities affecting ALM in a PLM setting or System context
7. Establishment, association and maintenance of configurations, variants, options and their effectivity

ALM-PLM areas of interest #1

- PLM product or System identities used within the ALM environment such as to name (e.g. identify, classify or associate) activities and artefacts
- e.g. to label an ALM task as being “for” a product or system project
- e.g. to label a document in ALM as being “for” a product or system project
- e.g. label an artefact or delivery in PLM as being of type ALM
- Scenario:
 - Within ALM a devt work item is associated with an existing Product
 - Within ALM a devt work item is associated with an existing Product release project code name or System platform release programme*
 - Within PLM annotate product content as being of type ALM



ALM-PLM areas of interest #2

- Locate ALM content from a PLM or system context and/or location of relevant PLM content from an ALM or system context
- e.g. to identify available product or project names to associate an artefact or activity in ALM
- e.g. to identify PLM classifications for ALM content
- Scenario
 - Within ALM locate the available “valid” Product or project
 - Valid by way of authority, filters, criteria e.g. organization, product family
- e.g. To identify relevant (all existing) ALM content directly associated with a Product or Project known to PLM
- Scenario
 - Within ALM query artefacts or activities using a Product or project identity provided from PLM
 - Within PLM query ALM content



ALM-PLM areas of interest #3

- ALM deliveries of product or system content (artefacts) into a PLM setting such as part of a release managed by PLM
- e.g. Promotion of an ALM delivered item, configuration, part or document, to a PLM release by way of
 - release identity
 - item descriptors for the PLM environment
 - notification of availability
 - authority
 - Transfer to PLM
- Scenario:
 - Within ALM allocate an ALM item to a PLM managed release
 - Within ALM promote an ALM item for a PLM managed release
 - Within ALM promote an ALM configuration towards a PLM managed configuration



ALM-PLM areas of interest #4

- Flows of plans, requirements, quality info and changes activities and items between ALM and PLM or System context
- e.g to Synchronise activity or artefact information or links
- Scenarios:
 - Transfer a record or artefact between ALM & PLM
 - Maintain a link and notify of changes to state of content at link between ALM & PLM
 - Instantiate an ALM workflow from PLM
 - Instantiate a PLM workflow from ALM
 - Transition an ALM workflow in PLM
 - Transition an ALM workflow in ALM



ALM-PLM areas of interest #5

- Analytics, reporting from ALM to PLM, from PLM to ALM or combinations including a System context
- e.g. to enable visibility of process or content measurements for governance or activity closure/sign off
- e.g. query PLM product schedule from ALM
- Scenarios:
 - Make a PLM product process query from ALM
 - ALM to setup a reporting event rule in PLM
 - ALM to report an event to PLM
 - PLM to setup a reporting event rule in ALM
 - PLM to report an event to ALM
 - ALM to access a PLM process measure report
 - SW Devt manager query a product milestone (date)
 - PLM to access an ALM process measure report
 - Program Manager query the status of a SW component



ALM-PLM areas of interest #6

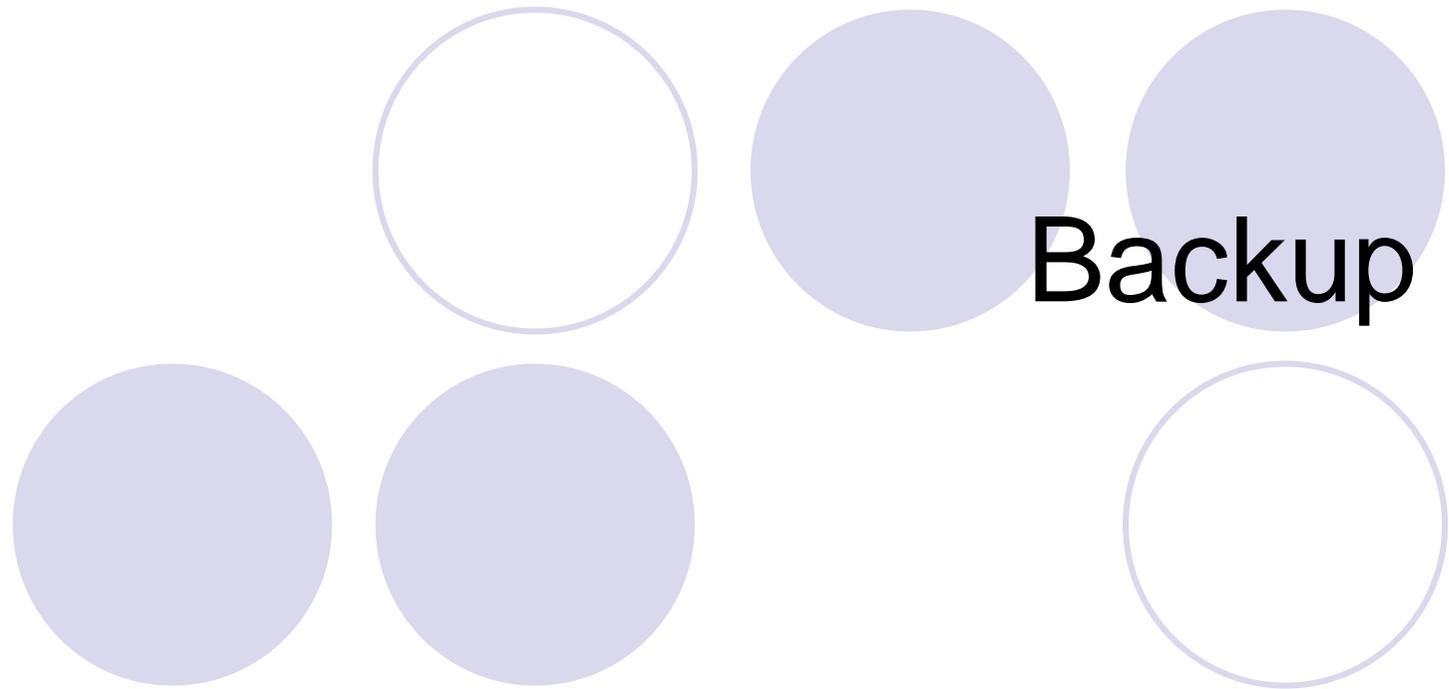
- Organisation, role, approvals and authorities affecting ALM in a PLM setting or System context
- e.g. Assignment of organisational responsibility for an activity or artefact
- Scenarios:
 - Addition of PLM roles to an ALM workflow
 - Approval of ALM activity from PLM role
 - Setting of activity or data access rights from PLM context within ALM
 - Addition of PLM user identities in ALM
 - Query of role or user rights across ALM and PLM



ALM-PLM areas of interest #7

- Establishment, association and maintenance of configurations, variants, options and their effectivity
 - e.g. Establish a partially populated Config of identities, structure of activities and artefact. Impose an initial CM regime.
 - Templates, Make from
 - e.g Register identity of a configured item (CI)
 - Identities, Notification, Authorities, Versioning rules
 - e.g. Notify of updates to CIs
 - Initiate workflow to handle updates
 - Scenarios
 - Establish PLM configured ALM or hybrid structures
 - Allocate an ALM item to a PLM configuration
 - “Make from” in ALM from PLM held config
 - “Make from” in PLM from an ALM delivery template
 - Maintain association between ALM and PLM configurations
 - Apply Change control to a combination of configurations in ALM and PLM
 - Compare ALM configurations across ALM and PLM





Current community specs

Scenarios

[Collaborative Application Lifecycle Management](#)

[Software Project Management](#)

[OSLC Common Architecture](#)

Topics

[Change Management](#) - integrations with software work item and change management repositories.

[Quality Management](#) - integrations in quality management and testing.

[Requirements Management and Definition](#) - integrations in requirements management and requirements definition tools.

[Asset Management](#) - integrations between asset management and ALM tools.

[Architecture Management](#) - integrations related to models and other artifacts used during analysis, design and construction that help maintain architectural integrity.

[Software Configuration Management](#) - integrations targeted at version control, change sets, baselines and other resources

[Automation \(Build/Deploy\)](#) - integrations involving software automation tools like build, deploy, and analysis tools.

[Estimation and Measurement](#) - integrations with estimation tools and performance, project, and portfolio management

[Query](#) - a simple query language for filtering lists of resources and selecting which properties to return

[Reporting](#) - a common set of features that RESTful services should implement to enable reporting.

[Service Provider Catalog](#)

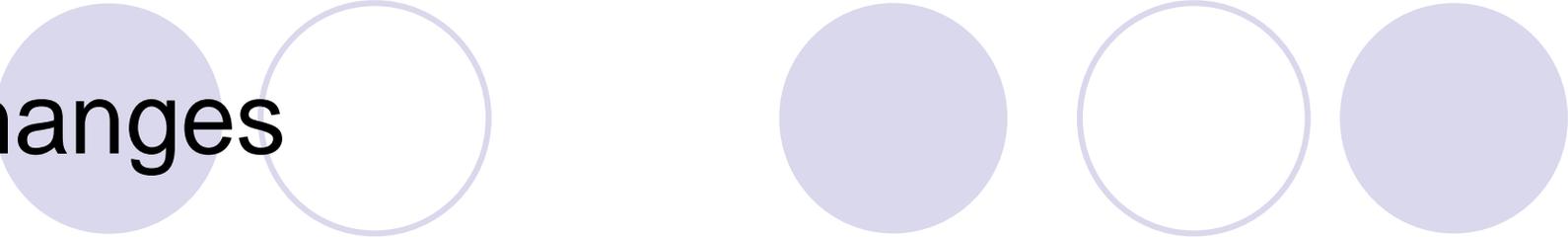
Starting definitions

More available on the wiki

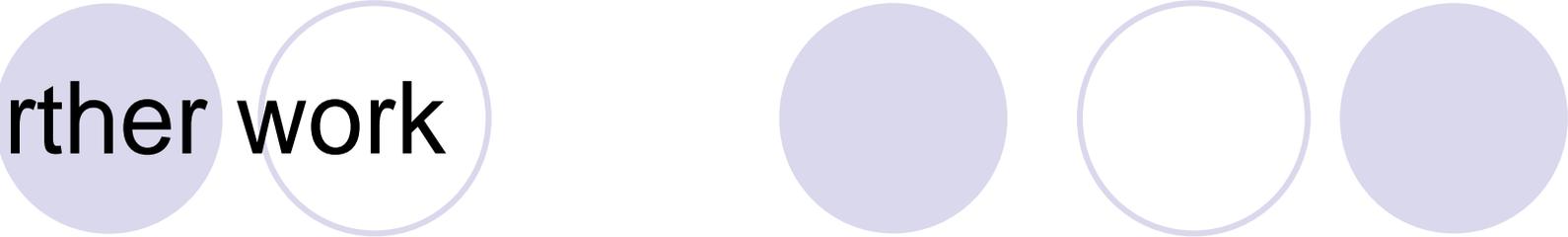
<http://open-services.net/bin/view/Main/PlmGlossary>

- Product Lifecycle Management (PLM) is proposed as business concerns associated with managing a product over its lifecycle to achieve the desired market and business objectives.
- Application Lifecycle Management (ALM) is proposed as business concerns associated with managing a viable software delivery that constitutes or realises a software application,
- System is proposed as an arrangement of deliverables or operating units regardless of scale

Changes



- Pages with Changes marked with indicator ▲
- V0.1 Build out the 7 areas by way of examples and Scenarios
- V0.2 Make each page more consistent, add annotation of artefacts and activities. Begin to build out #7



Further work

- Alignment of topics of interest to the OSLC Specs