Objective

Have a global overview of your software engineering processes while relying on best-of-breed off-the-shelf products.

Conclusions

Integrating software engineering process data sources is useful in order to obtain a global vision of development and release activities. While most engineering process deliver access to structured data, integrating and correlating this information is currently a non-trivial task. While usage of RDF as a common data format has certainly proven a workable approach, certain limitations persist in the current support of RDF. The Exhibit framework for instance was designed highly interactive representation of low volumes of information.

RCM Support

This process focuses on collecting, prioritizing and refining customer demands and internal product quality feedback. Whether use cases, requests for new features or defects identified in existing products, such inputs must be classified and scheduled so as to reduce the risk of unwanted side effects and features or defects identified in existing products, such inputs must be classified and scheduled so as to reduce the risk of unwanted side effects and ensure that changes can be audited, and grouped into coherent sets for reference a priori request for such change (once again, to reduce the risk of unidentified and unwanted modifications that could break a working product).

Dependency Management

As agile teams happily release ever improving deliverables, being able to orchestrate dependencies among these deliverables becomes an increasingly difficult task. Establishing clear policies and allowing the definition of dependency ranges becomes a very important aspect of software project management, regardless of development life-cycle. In the context of complex, multi-party open source dependencies, it also becomes important to state and reconcile the provenance of such dependencies. Sonatype Nexus is the Maven repository used to manage dependencies centrally.

Build Integration

We wrapped data extractions and transformations into an Apache Maven site plugin – seamlessly integrating engineering process information into a web-based Maven documentation site.

References


[4] ICAI Excusions 2005, Grenoble, France, WEAAULT02


