

INTRODUCTION

Exploiting Sodius' experience with developing mature, practical Open Services for Lifecycle Collaboration (OSLC) solutions, Sodius' OSLC Adapter for PTC Windchill™ offers the possibility of integrating PTC Windchill PDMLink and Rational Team Concert™, or any other OSLC compliant product.

Now users of PTC Windchill can integrate their change management processes across OSLC compliant tooling to coordinate the management of change requests and issues across teams - such as the product team and the software development teams.

OBJECTIVES

Integrating products with the PLM tool PTC Windchill PDMLink

- CM Adapter integrating Rational Team Concert with Windchill Change Management
- TRS data source integrating RELM with Windchill CM data

Integrations with leading PLM systems allow engineers of all types to better collaborate and produce higher quality products faster. By using Windchill PDMLink, users can link a Windchill change request to:

- A new Rational Team Concert work item
- An existing Rational Team Concert work item

Conversely, by using Rational Team Concert software, users can link a Rational Team Concert work item to:

- A new Windchill change request
- An existing Windchill change request

The adapter is designed to allow users to stay connected with those users who operate in cross-functional areas while remaining in the context of the tool they are most apt to use for performing their job functions.

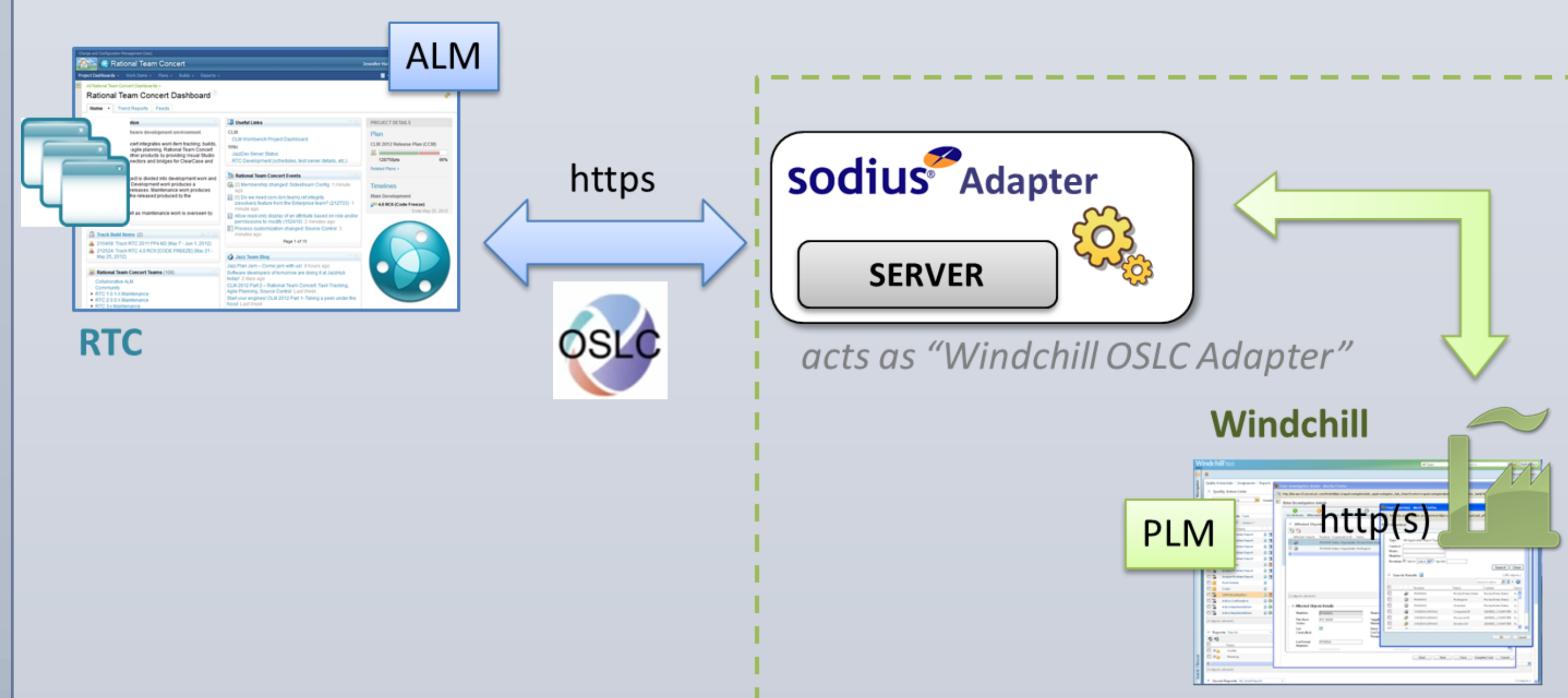
ARCHITECTURE OVERVIEW

The Adapter is deployed into a corporate network onto a Servlet Engine Web Server and has extensions to the already in-situ PTC™ Windchill system.

A typical corporate network with the deployed adapter might resemble the architecture shown in the figure below.

- No direct communication between the RTC Server and Windchill Server.
- Technical communication between both target systems will occur using the Adapter Server indirection and OSLC communication.

The Sodius Adapter integrates state of the art Internet Web Service components to provide the OSLC capabilities required by virtue of its nature as an OSLC consumer and provider of Change Management information.



The significant components that it integrates are listed in the references section.

Considering the software composition of the adapter, the Sodius Adapter is provided as OSGi (Open Service Gateway initiative) bundles packaged as a Web Archive manageable by any servlet engine. For example, your business can choose to use a Apache Tomcat™ or a IBM Websphere™ Application Server as the Servlet Server that hosts the Lifecycle Integration Adapters OSGi engine.

SYSTEM REQUIREMENTS

- Operating systems : Microsoft™ Windows™ Server 2008/2012 and Red Hat Enterprise Linux™
- Apache Tomcat 7.0 or later or IBM WebSphere™ Application Server 8.5.5
- PTC Windchill 10.0 or later
- Standard web browsers (IE, Firefox and Google Chrome)

CONCLUSIONS

With the Sodius Adapter for Windchill V1.0 you can:

- Unlock engineering knowledge
- Verify information continuously
- Reuse information strategically

REFERENCES

Additional information on the respective technologies are available at these Internet web links:

- OASIS OSLC <http://www.oasis-osl.org/> Specifications for OSLC CM REST Protocols
- Eclipse Lyo <https://www.eclipse.org/lyo/> OSLC4J Libraries
- Apache Tomcat <http://tomcat.apache.org/> Tomcat Web Server Manager
- IBM WebSphere Application Server <http://www-03.ibm.com> IBM Web Server Manager
- AngularJS <https://angularjs.org/> Client-side Browser User Interfaces
- Restangular <https://github.com/mgonto/restangular> Client-side REST Broker
- ParseUri <http://stevenlevithan.com> Javascript URI Parsing
- LoDash <http://lodash.com/> Functional Javascript
- Fallback.io <https://github.com/dolox/fallback> CDN Fallback and Lazy Loading
- Bootstrap <http://getbootstrap.com/css/> Client-side Responsive CSS
- OWASP HTML Policy <https://www.owasp.org/HTML> Server-side Java HTML Filtering
- OWASP CSRF Filtering <https://www.owasp.org/CSRF> Server-side CSRF Management

CONTACT US

Contact your Sodius representative or leave us a message on our website

www.sodius.com to discuss gaining Sodius' expertise in implementing your own

OSLC integrations.

Thomas Capelle / P: +1 720 432-1866
tcapelle@sodius.com
 President, Sodius Corp.
 60 Broad Street - Suite 3502
 New York, NY 10004
 USA
 T. +1 (917) 727-3020
 F. +1 (917) 210-4208

Jean-Philippe Lerat
jplerat@sodius.com
 Founder, Sodius SAS
 14 Boulevard du Maréchal A. Juin
 44100 NANTES
 France
 T. +33 (0)228 236 060
 F. +33 (0)240 500 601