



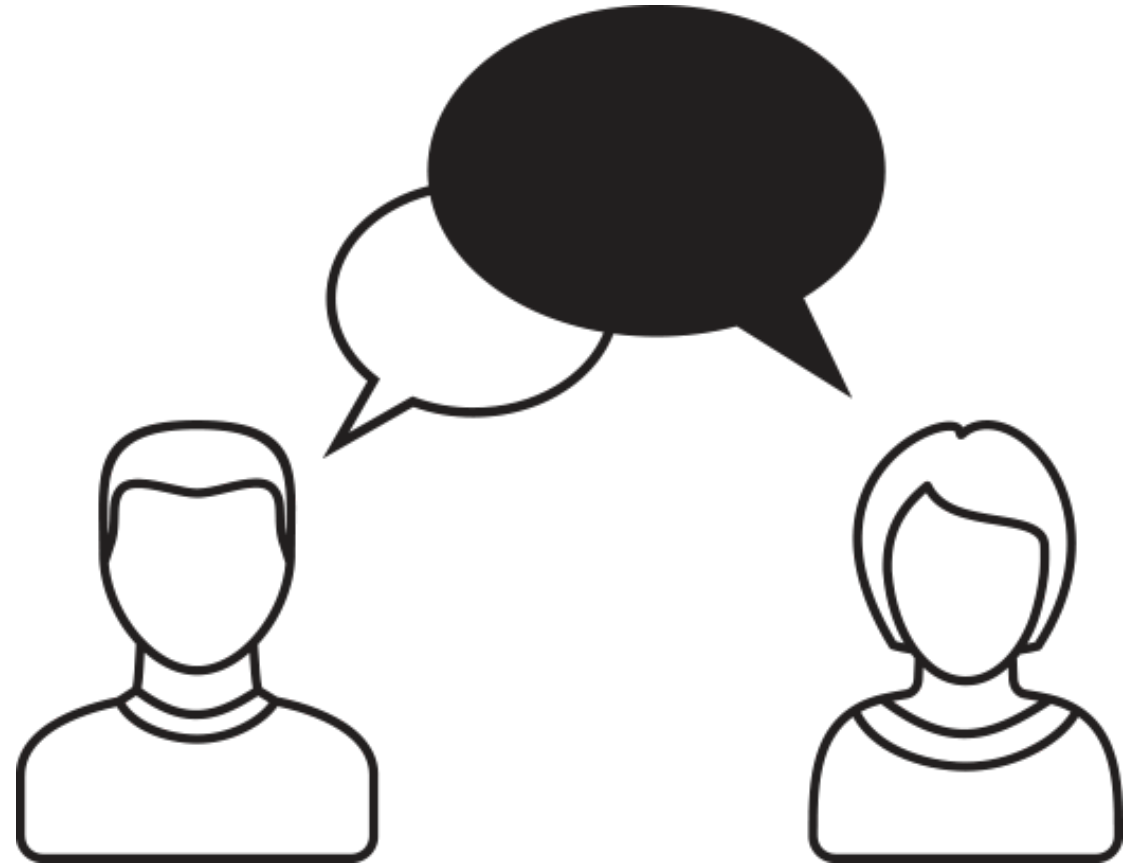
*rego*University 2017

Agile Integrations Deep Dive

Your Guide: Joshua Leone

Introductions

- Take 5 Minutes
- Turn to a Person Near You
- Introduce Yourself



Agenda

- A bi-modal world
- The Agile players
- Tools for integrating
- Framing an integration
- Technical Strategies
- Technical Setup
- The Agile lifecycle

The bi-modal world

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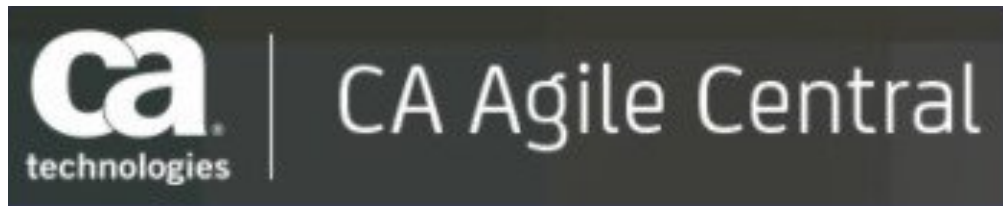
Let Rego be your guide.

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The Agile players

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Industry leaders



Rego has you covered!

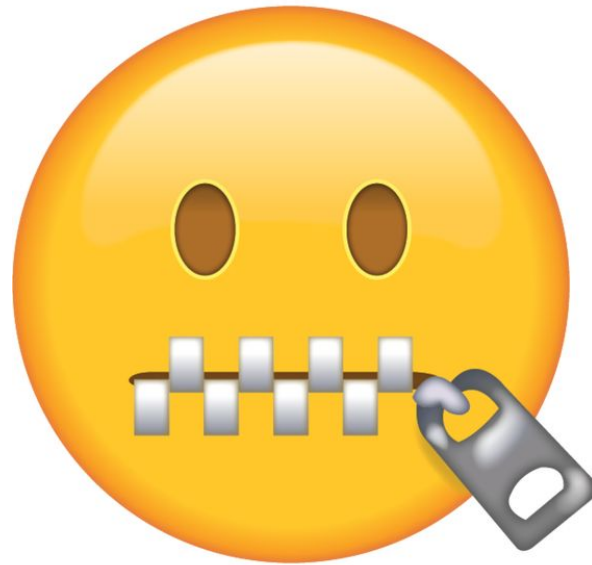
Noise Makers



The Agile players

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The dinosaurs



Tools for integrating

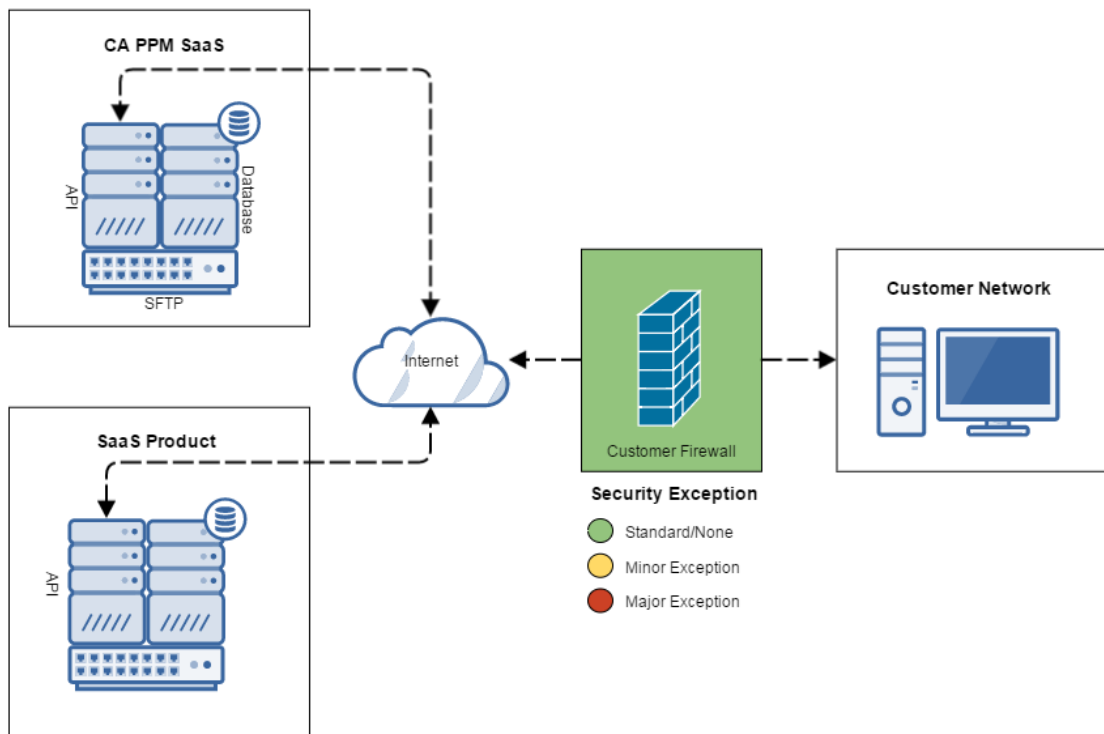
Solution Type	Restrictions	Flexibility	Cost
Out of the box	Rally/CAAC	Low	Free
Middleware	Medium	Medium	Expensive
Point to point	Few	High	*Minor

- Cost is generically associated to knowing your business case.
- Any integration can spiral out of control

Framing an integration

- Make sure the business case known
 - Data for reporting?
 - Data for capitalizing work?
- CA PPM provides you all the tools you need
 - Studio
 - Process Engine
 - Job Scheduler
 - GEL
- No need for custom java code
- No need for custom database objects
- What tool are you integrating tool?
 - What is the network topography? OP to OP, SaaS to OP, SaaS to SAA

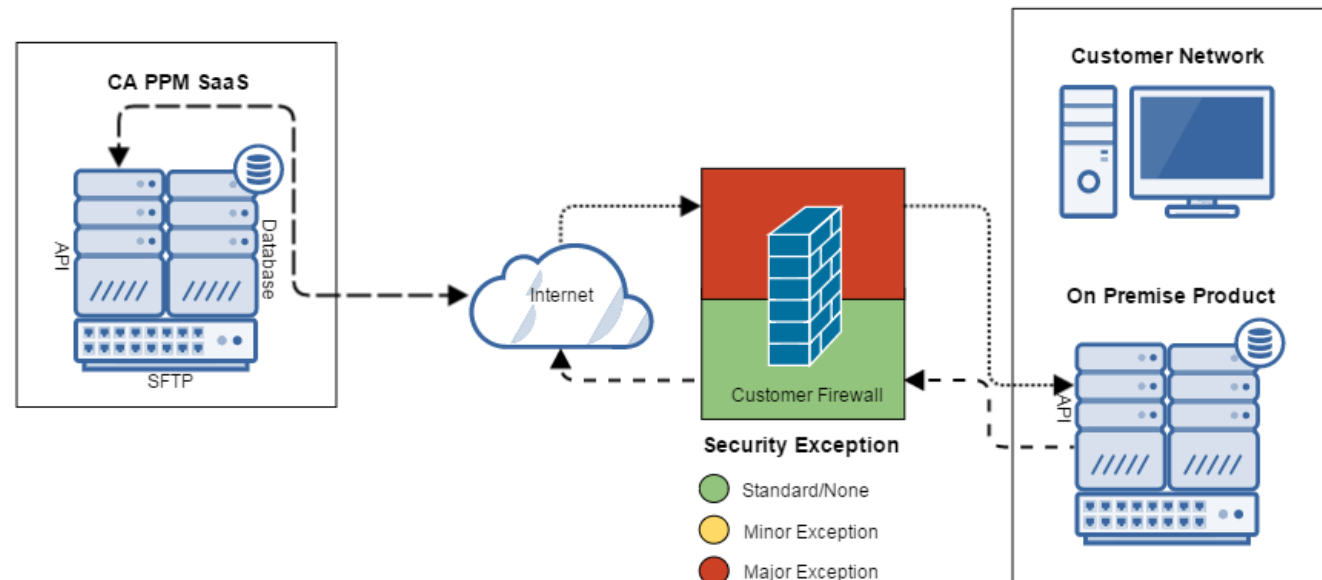
Technical Strategies - Network Topography



Do you have to bridge firewalls
Do you have an outside provider



Where is your CA PPM system located
Where is your Agile system located



Technical strategies - API

- API support
 - Does your Agile tool support REST and does your topography allow for it?
 - CA PPM can connect! (Even v13)

```

<core:set var="AGILE_URL" value="http://server/rest/v1/example"/>
<core:set var="AGILE_USERNAME" value=""/>
<core:set var="AGILE_PASSWORD" value=""/>
<gel:out>Start this Script</gel:out>

<!-- Set the endpoint to and set our Authorization for Basic -->
<core:set var="restEndPoint" value="{AGILE_URL}"/>

<!-- REST password must be base64 encoded -->
<core:invokeStatic var="base64" className="com.niku.union.utility.Base64" method="encode">
  <core:arg type="java.lang.String" value="admin:" />
</core:invokeStatic>
<core:set var="basicAuth" value="Basic ${base64}" />

<core:new var="restUrl" className="java.net.URL">
  <core:arg type="java.lang.String" value="{restEndPoint}" />
</core:new>

```

Technical strategies – API contd.

```

<core:set var="connection" value="{restUrl.openConnection()}" />

<core:expr value='{connection.setRequestMethod("GET")}' />
<core:expr value="{connection.setDoOutput(true)}" />
<core:expr value='{connection.setRequestProperty("Content-type", "application/json")}' />
<core:expr value='{connection.setRequestProperty("Accept", "application/json")}' />
<core:expr value='{connection.setRequestProperty("Connection", "keep-alive")}' />
<core:expr value='{connection.setRequestProperty("Authorization", basicAuth)}' />

<!-- Read in the response from into a string -->
<core:invoke var="inputStream" on="{connection}" method="getInputStream" />

<core:invokeStatic className="org.apache.cxf.helpers.IOUtils" method="toString" var="projectsOut">
  <core:arg type="java.io.InputStream" value="{inputStream}" />
  <core:arg value="UTF-8" />
</core:invokeStatic>
<!-- Close input stream to close connection -->
<core:expr value="{inputStream.close()}" />

<!-- Convert String to Json object -->
<core:new className="org.json.JSONObject" var="jsonObject">
  <core:arg type="java.lang.String" value='{projectsOut}' />
</core:new>

```


Technical setup

- Don't keep clear text passwords
- Protect connection strings from calling production from test
 - ... tell horror story from when I ran CA SWAT



Technical setup contd.

- Stage data
 - Use Studio objects and attributes
 - Don't use custom database objects
 - Pre-aggregate data where possible
 - Decide on frequency
 - Do you think you need real time interface for time import? You don't.
 - Decide on exceptions
 - Some can't be coded for... that's ok

Speaking of time import

- All Agile tools store time data differently
 - Hint... Jira is the easiest to import
 - Jira stores time as a calendar based object
 - 5 hours – Monday
 - 8 hours – Tuesday
 - etc
- Rally/TFS/VersionOne
 - Time is not stored daily
 - Import and calculate deltas to determine where to store in a timesheet

Speaking of time import – Rally/CAAC

- The Rego way is different from the CA way
- The Rego way captures time using the Actual Hours field
- CA will be embedding a CA PPM timesheet directly into Rally/CAAC

The screenshot shows the Rally/CAAC interface for a task card. The task is identified as TA18 and is assigned to Leo. The card has tabs for Details, Discussion, and Revisions. The Details tab is active, showing a form with the following fields:

STATE	STATUS	TASK EST	TO DO	ACTUAL	TIME SPENT	COLOR
D	<input checked="" type="checkbox"/>	40	30	3	0	

A red arrow points to the ACTUAL field, which is labeled "Actual Hours". Below the fields is a DESCRIPTION section with a rich text editor. At the bottom, there is a SCHEDULE section with an EXPEDITE dropdown set to "No", and an ATTACHMENTS section.

Speaking of time import – TFS

- Capture the completed work
- Calculate the delta on import to determine the daily actual

Task ID	Task Name	Feature ID	Feature Name	Resource ID	Cumulative Hours	ETC	Daily Actuals	Time Entry Date
126	Task 2	123	tsk00024:Feature1	dsouzaleo@hotmail.com	7.00	10.00	7	2/22/16
130	my leo task	128	tsk00025:Med feature	dsouzaleo@hotmail.com	8.00	2.00	8	2/22/16
130	my leo task	128	tsk00025:Med feature	dsouzaleo@hotmail.com	20.00	5.00	12	2/23/16
130	my leo task	128	tsk00025:Med feature	dsouzaleo@hotmail.com	25.00	10.00	5	2/24/16
130	my leo task	128	tsk00025:Med feature	dsouzaleo@hotmail.com	33.00	2.00	8	2/25/16

Actuals →

NEW TASK *
My new task
Unassigned 0 Add Tag

State: New Area: Agile Project Reason: New Iteration: Agile Project

Description

Planning
Priority: 2
Activity

Development
+ Add link
Development hasn't started on this item.

Related Work
+ Add link
Parent: 179 My new story Updated just now. New

Effort (Hours)
Original Estimate
Remaining: 3
Completed: 5
Implementation: Integrated in Build

Speaking of time import – VersionOne

- Completed/actual hours aren't stored
- You have to calculate actual hours manually (in code.)

VersionOne - Google Chrome

<https://www4.v1host.com/RegoConsulting/Default.aspx?Page=Widgets/Details/QuickEditTask&AssetContext=Task:1628&Bubble=Task:1628>

Task Save Cancel

Description:

p

Owners: Leo Dsouza x

Status:

Type:

Source:

Reference:

Build:

Detail Estimate Hrs.: 32.00

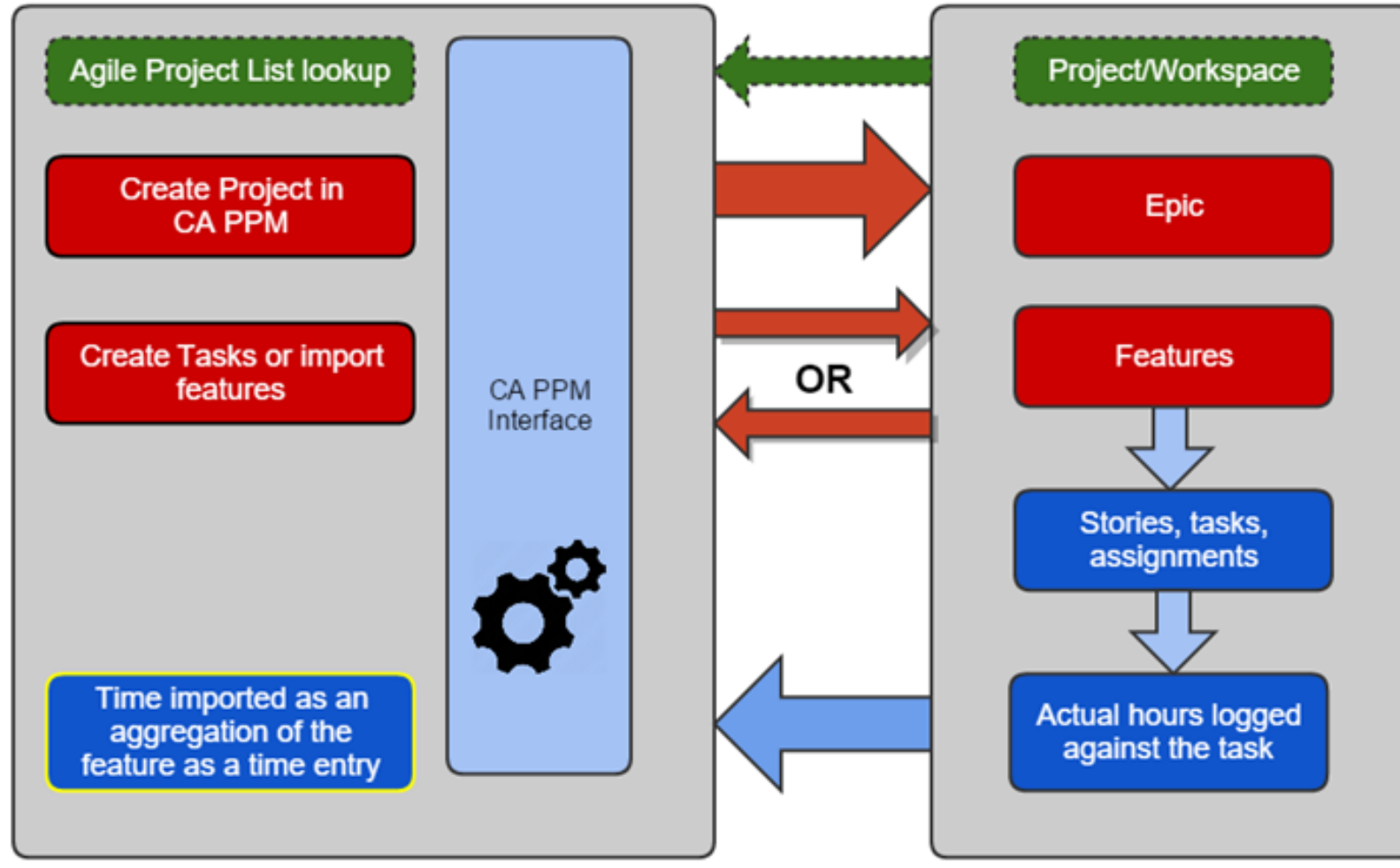
To Do Hrs.: 13.00

Done Hrs.:

Change Comment:

Actuals calculated as delta of Estimate and To Do

The bi-modal Agile life cycle



Questions?



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- Access your account at pmi.org
- Click on **Certification**
- Click on **Maintain My Certification**
- Scroll down to **Report PDU's**
- Click on Course Training (or other appropriate category)
- Enter **Rego Consulting**
- Enter Activity- **Enter Name of Course**
- Enter **Description**
- Enter **Date Started**
- Enter **Date Completed**
- Provide Contact Person **Name of Person to Contact**
- Provide Contact E-Mail **E-Mail of Person to Contact**
- Enter Number of **PDU's Claimed** (1 PDU per course hour)
- Click on the **I agree this claim is accurate box**
- Click **Submit** button



Let us know how we can improve!
Don't forget to fill out the class survey.



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