



# Kovair Rally Adapter

## Release Note

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Document Version History		
Release	Date	Reason
Version 1.0 (Initial Release)	10/09/2015	Initial release
Version 1.1	10/22/2018	TLS support added.
Version 1.2	5/23/2019	Support for Rally

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## Supported Versions:

RallyDev Edition (SaaS)

## Adapter Component:

Components	Type
RallyDev Adapter	Web Service
RallyEventService	Windows Service

## Adapter Pre-Requirement:

- 1) RallyDev Adapter
  - a. RallyDev Adapter
  - b. RallyDev Event Service
- 2) .Net Framework 4.6 on Adapter Server
- 3) IIS 7.0 or Higher.
- 4) SQL Server 2008 & Above for Adapter DB.
- 5) The adapter URL must be browsable.

## Adapter Configuration

### Database Properties

```
<KovairDBProvider><DbProperties DBName="#####" DataBaseType="SQLSERVER"  
UserName="#####" Password="#####" DatabasePath="" DbProvider="SqlClient"  
IsDBPasswordEncrypted="false" ServerName="database"  
SqlAuthenticationMode="SQL"/></KovairDBProvider>
```

\*\*\*\*Yellow highlighted fields need to be changed as per your requirement

KEY NAME	KEY VALUE
<b>DBNAME</b>	Name of the SQL Server adapter database. Typically it gets created during adapter installation
<b>USERNAME</b>	SQL Server database user name. This should be valid sql server account. The information is required only when the authentication is done through SQL mode
<b>PASSWORD</b>	SQL Server database user password in encrypted format. This should be valid sql server account password. The information is required only when the authentication is done through SQL mode. For windows authentication it need to be blank.
<b>SQLAUTHENTICATIONMODE</b>	This value can be SQL or Windows. Kovair always recommends to use Windows.
<b>ISDBPASSWORDENCRYPTED</b>	<b>false</b> , only when the password contains encrypted text. <b>true</b> , only when password contains non-encrypted Text Note:
<b>DATABASE</b>	This key is only valid if the mode is <b>SQL</b> . The name of the SQL Server Database Instance Name.

## Appsettings

```
<appSettings>
  <add key="NoOfEvents" value="30"/>
  <add key="PageSize" value="20"/>
  <add key="SecurityToken" value="Y"/>
  <add key="IsForPlugin" value="N"/>
  <add key="EnforceParentId" value="Y"/>
  <add key="IsTargetToolSupportHTMLUrl" value="Y"/>
  <add key="ForceLegacySearch" value="N"/>
  <add key="LegacyIdentifierFieldNameInRally" value="Migration Id"/>
  <add key="EnableLogArchival" value="N"/>
  <!-- [Y/N] 'Y' to activate log archival mechanism. -->
  <add key="TimeSpanFromMidnightToTryArchive" value="60"/>
  <!-- Time (between 1 and 60) after midnight till when log archival will be tried if not done
  already for the particular day. -->
  <add key="ArchiveLogDirectoryFullPath" value=""/>
  <!-- Location where archived log files will kept. Must have necessary permission. If
  kept blank, archived log files will be kept inside
  'EVENT_SERVICE_INSTALLATION_DIRECTORY\Log-Archive'. -->
</appSettings>
```

**NOTE:** Config file can be found at the Virtual directory of adapter.

KEY NAME	KEY VALUE
NOOFEVENTS	How many events will be collected for each call
PAGESIZE	Page Size for REST call. Max REST size is 50.
SECURITYTOKEN	It should be "Y".
ISFORPLUGIN	Y or N. "Y" means the adapter is used for plugin.
ENFORCEPARENTID	Y or N. If "Y" then the child event will wait to process parent event.
ISTARGETTOOLSUPPORTHTMLURL	Y or N. Set "Y" if the target url support html tag.
FORCELEGACYSEARCH	ForceLegacySearch Turn on or off by Y and N
LEGACYIDENTIFIERFIELDNAMEINRALLY	Legacy Search Fieldname in Rally.

## Event Service Configuration

### Database Properties

```
<KovairDBProvider><DbProperties DBName="#####" DataBaseType="SQLSERVER"  
UserName="#####" Password="#####" DatabasePath="" DbProvider="SqlClient"  
IsDBPasswordEncrypted="false" ServerName="database"  
SqlAuthenticationMode="SQL" /></KovairDBProvider>
```

\*\*\*Yellow highlighted fields need to be changed as per your requirement

KEY NAME	KEY VALUE
<b>DBNAME</b>	Name of the SQL Server adapter database. Typically it gets created during adapter installation
<b>USERNAME</b>	SQL Server database user name. This should be valid sql server account. The information is required only when the authentication is done through SQL mode
<b>PASSWORD</b>	SQL Server database user password in encrypted format. This should be valid sql server account password. The information is required only when the authentication is done through SQL mode. For windows authentication it need to be blank.
<b>SQLAUTHENTICATIONMODE</b>	This value can be SQL or Windows. Kovair always recommends to use Windows.
<b>ISDBPASSWORDENCRYPTED</b>	<b>false</b> , only when the password contains encrypted text. <b>true</b> , only when password contains non-encrypted Text Note:
<b>DATABASE</b>	This key is only valid if the mode is <b>SQL</b> . The name of the SQL Server Database Instance Name.

## Appsettings:

```
<appSettings>
  <add key="PageSize" value="20"/>
  <add key="TickTime" value="15"/>
  <add key="SecurityToken" value="Y"/>
  <add key="RallyAdapterPath" value=""/>
  <add key="IsTargetToolSupportHTMLUrl" value="Y"/>
  <add key="NeedDeleteEvent" value="N"/>
  <add key="BlockCommentFlowByRegisteredUser" value="Y"/>
  <!-- Time (between 1 and 60) after midnight till when log archival will be tried
if not done already for the particular day. -->
  <add key="TimeSpanFromMidnightToTryArchive" value="60"/>
  <!-- Location where archived log files will be kept. Must have necessary permission.
If kept blank, archived log files will be kept inside
'EVENT_SERVICE_INSTALLATION_DIRECTORY\Log-Archive'. -->
  <add key="ArchiveLogDirectoryFullPath" value=""/>
  <!-- [Y/N] 'Y' to activate log archival mechanism. -->
  <add key="EnableLogArchival" value="N"/>
</appSettings>
```

KEY NAME	KEY VALUE
PAGESIZE	Page Size for REST call. Max REST size is 50.
TICKTIME	In sec How frequent this service will run.
SECURITYTOKEN	It should be "Y".
RALLYADAPTERPATH	Rally Adapter installation path. Please exclude Attachment folder .
ISTARGETTOOLSUPPORTHTMLURL	Y or N. Set "Y" if the target url support html tag.
NEEDELETEEVENT	Set Y if you require object delete event.
BLOCKCOMMENTFLOWBYREGISTEREDUSER	Check this to Y to filter out the comments entered by registered user. If Key not provided then default is "N".



## Event Collection Pre-Requisites

There is a RallyWorkspaceConfig.xml in RallyEventservice folder. This needs to be configured manually in order for events to be collected from a particular rally project.

Please note this is a mandatory step, event collection will not happen if this is not configured.

The file is located at <RallyDev Event Listener Installation Path>\ConfigXmIs\RallyWorkspaceConfig.xml  
Following is a snapshot how the XML looks like

```
<Workspaces>
  <Workspace Name="Workspace 1" Id="12732145257">
    <Projects>
      <Project Name="ABC" Id="13205101903">
      <Project Name="XYZ" Id="13205101905">
    </Project>
  </Projects>
</Workspace>

  <Workspace Name="Workspace 2" Id="12732145257">
    <Projects>
      <Project Name="ABC_2" Id="13205101903">
    </Project>
  </Projects>
</Workspace>
</Workspaces>
```

Following are four components that are need to be configured for this. Note all of the fields are mandatory.

Component Name (With Highlighted Color)	How to find the value
Rally_Workspace_Name	Go To Kovair → View the Rally Registration → Go to Select Project Tab → Copy the <b>Text part</b> from Default Project (See Screenshot -1 from bellow)
Rally_Workspace_Id	Go To Kovair → View the Rally Registration → Go to Select Project Tab → Copy the <b>Integer part</b> from Default Project (See Screenshot -1 from bellow)
Rally_Project_Name	Go to Rally → Select the Workspace → Click on the Project → Copy the project Name from the Project Drop Down as shown in Screenshot -2 in bellow
Rally_Project_Id	Go to Rally → Select the Workspace → Click on the Project → See the URL in the browser looks like bellow <a href="https://rally1.rallydev.com/#/118154080028ud/dashboard">https://rally1.rallydev.com/#/118154080028ud/dashboard</a>  We need to extract the integer part as project id "118154080028" without the trailing "ud"

\*\*When you are done configuring the XML try browsing the XML in Internet explorer. If you made any syntactical error Internet explorer will show that.

View Project Registration		
1. General Information	Default Project :	Demo Workspace-100956307480
2. Security Parameters	Tool supports ADSI ?	No
3. Select Project	Omnibus Default User Selected ?	No
	Default User :	user@kovair.com
	Notify to :	

Screenshot -1

In Screenshot-1, **Demo Workspace** is Workspace name and the number beside the workspace name is Workspace ID.

The screenshot shows the Rally Software Development Corp [US] dashboard. The browser address bar displays the URL: <https://rally1.rallydev.com/#/263969447476/dashboard>. The dashboard header includes the CA Agile Central logo and navigation options like 'PROJECTS ...' and 'New Project'. A sidebar menu on the left lists various workspace items, including 'Timeboxes', 'Team Planning', 'User Stories', 'Tasks', 'Defect Suites', 'Defects', 'Quality Management', 'Test Cases', 'Test Plan', and 'Portfolio Items'. The main content area shows 'All Demo Workspace Projects' with a search bar and a list of projects: 'Hot Fix', 'I1', 'I2', 'I3', 'I4', 'Modified Test Project', 'New Project', 'NewDevProject', 'Project 13519 edited', 'Project ABC', and 'R1'. The 'New Project' item is highlighted with a red box, and its corresponding integer '1' in the URL is also highlighted with a red box.

Screenshot -2

In Screenshot-2, **New Project** is the Project Name and the integer no in the URL is Project ID.

## Action Pre-Requisites

Entity Mapping Should be set and Default Project in Rally should point to correct project ID in Jira like below. To get the project ID please refer to the [Event Collection Pre-Requisites](#) – Fetch Rally Project Id

View Entity Mapping	
General Information	Defect mandatory fields of Rally Adapter New33
Field Mapping	Name(SingleLineText) : Default
Default Values	Project(EntityObject) : 263969447476
Composite Field Mapping	Schedule State(Lookup) : Defined
Transformation	State(Lookup) : Submitted
	Defect mandatory fields of KovairSelfAdapter64
	Status(Lookup) : In Progress
	Title(SingleLineText) : Default

Screenshot -3

In Screenshot-3, the integer value of Project(EntityObject) is Project ID.

## Entities Exposed:

Here are the new entities that are exposed.

Entity
Projects
Release
Iteration
User Story
Defect Suite
Defect
Test Case
Test folder
Test Set
Test Run Result
Test Step
Portfolio Item
Task
Timesheet

## Fields Exposed:

Most of the Rallydev Entity has both System and Custom fields. (Custom Fields are not supported for Timesheet Entity)

An Excel sheet is attached which describes the fields and their data types.

### Events Exposed:

Entity Name	Event Name	Exposed?
Projects	Projects Added	No
	Projects Modified	No
Release	Release Added	No
	Release Modified	No
Iteration	Iteration Added	No
	Iteration Modified	No
User Story	User Story Added	Yes
	User Story Modified	Yes
	User Story Deleted	Yes
Defect Suite	Defect Suite Added	Yes
	Defect Suite Modified	Yes
	Defect Suite Deleted	No
Defect	Defect Added	Yes
	Defect Modified	Yes
	Defect Deleted	Yes
Test Case	Test Case Added	Yes
	Test Case Modified	Yes
	Test Case Deleted	Yes
Task	Task Added	Yes
	Task Modified	Yes
	Task Deleted	Yes
Test Folder	Test Folder Added	Yes
	Test Folder Modified	No
Test Set	Test Set Added	Yes
	Test Set Modified	Yes
Test Run Result	Test Run Result Added	Yes
	Test Run Result Modified	Yes
	Test Run Result Deleted	Yes
Test Step	Test Step Added	Yes
	Test Step Modified	Yes
	Test Step Deleted	Yes
Portfolio Item	Portfolio Item Added	Yes
	Portfolio Item Modified	Yes
	Portfolio Item Deleted	Yes
Timesheet	Timesheet Modified	Yes

### Attachments:

Category	Add	Modify	Delete
Action	Yes	NO	Yes
Event	Yes	NO	Yes

### Comments:

Category	Add	Modify	Delete
Action	Yes	NO	Yes
Event	Yes	NO	NO

### Actions Exposed:

Entity Name	Event Name	Exposed?	Synchronous?
Projects	Projects Added	Yes	Yes
	Projects Modified	Yes	Yes
Release	Release Added	Yes	Yes
	Release Modified	Yes	Yes
Iteration	Iteration Added	Yes	Yes
	Iteration Modified	Yes	Yes
User Story	User Story Added	Yes	Yes
	User Story Modified	Yes	Yes
	User Story Deleted	Yes	Yes
Defect	Defect Added	Yes	Yes
	Defect Modified	Yes	Yes
	Defect Deleted	Yes	Yes
Defect Suite	Defect Suite Added	Yes	Yes
	Defect Suite Modified	Yes	Yes
	Defect Suite Deleted	Yes	Yes
Test Case	Test Case Added	Yes	Yes
	Test Case Modified	Yes	Yes
	Test Case Deleted	Yes	Yes
Task	Task Added	Yes	Yes
	Task Modified	Yes	Yes
	Task Deleted	Yes	Yes
Test Folder	Test Folder Added	Yes	Yes
	Test Folder Modified	Yes	Yes
	Test Folder Deleted	Yes	Yes
Test Set	Test Set Added	Yes	Yes
	Test Set Modified	Yes	Yes
	Test Set Deleted	Yes	Yes
Test Run Result	Test Run Result Added	Yes	Yes
	Test Run Result Modified	Yes	Yes

	Test Run Result Deleted	Yes	Yes
Test Step	Test Step Added	Yes	Yes
	Test Step Modified	Yes	Yes
	Test Step Deleted	Yes	Yes
Portfolio Item	Portfolio Item Added	Yes	Yes
	Portfolio Item Modified	Yes	Yes
	Portfolio Item Deleted	Yes	Yes
Timesheet	Timesheet Added	Yes	Yes
	Timesheet Modified	Yes	Yes
	Timesheet Deleted	Yes	Yes

## Field Truncation Configuration (TruncationConfig.xml)

Custom field truncation can be done to truncate and customize the field value.

In order to enable this edit TruncationConfig.xml present in the ConfigXML of adapter to configure the same.

```
<?xml version="1.0" encoding="utf-8" ?>
<TruncateConfigCollection>
  <!--Remove End slash after RallyDev URL If any-->
  <TruncateConfig toolUrl ="https://rally1.rallydev.com" projectName="MVE-13907894777"
entityName="User Story">
  <Truncatefield fieldName="Description" truncateAfter="32700" trialText="..."
enableHTMLStrippingOnExceed ="Y"/>
  <Truncatefield fieldName="Name" truncateAfter="2" trialText="{TRUNCATED}"
enableHTMLStrippingOnExceed ="Y"/>
  </TruncateConfig>
</TruncateConfigCollection>
```

Below is the attribute description

**toolUrl** = Rally Base URL. Needs to be taken from Security Parameters tab of Rally Registration from Omnibus UI.

**projectName** = Rally Project Name. Needs to be taken from Project Selection tab of Rally Registration in Omnibus UI.

**entityName** = Rally entity name. Specify the Rally entity for which truncation needs to be enabled.

**fieldName** = Rally field name (Case sensitive).

**truncateAfter** = Character count. Please check the UI to confirm the character count allowed in the field. Adjust value if using trial text.

**trialText** = Will be appended after truncated text.

**enableHTMLStrippingOnExceed** = If HTML value is flowing then turn this key on to remove HTML first and if the limit is still exceeding then truncate will happen on this. It is recommended to turn on this option if HTML value is flowing, the reason is if truncation happen on HTML field then formatting will break.

## Relationships

Except for Project Entity itself **every other entity are related with Project (EntityObject)**.

### **For Defect Entity:**

1. Defect to Iteration(One to One)
2. Defect to Release(One to One)
3. Defect to User Story(One to One)
4. Defect to Test Case (One to One)
5. Defect to Test Cases (One to Many)

### **For Defect Suite Entity:**

1. Defect Suite to Defect(One to Many)
2. Defect Suite to Iteration(One to One)
3. Defect Suite to Release(One to One)

### **For User Story Entity:**

1. User Story to Defect(One to Many)
2. User Story to Portfolio Item(FEATURE) (One to One)
3. User Story to Iteration(One to One)
4. User Story to Release(One to One)
5. User Story to Test Case(One to Many)

### **For Portfolio Item Entity:**

1. Port Folio Item(FEATURE) to Port Folio Item(Initiative) EntityObject. The mapping will work from child type

### **For Task Entity:**

1. Task to Defect Suite(EntityObject)
2. Task to Defect(EntityObject)
3. Task to Test Set(EntityObject)
4. Task to User Story(EntityObject)

### **For Test Case Entity:**

1. Test Case to Test Case Step(One to Many). This relation will flow from event side for add event only.

### **For Test Case Result Entity:**

1. Test Case result to Test Case(EntityObject)

### **For Test Case Step Entity:**

1. Test Case Step to Test Case(EntityObject)

**For Test Set Entity:**

1. Test Set to Iteration (One to One)
2. Test Set to Release(One to One)
3. Test Set to Test Case (One to Many)

**For Timesheet Entity:**

1. Associated Work Product (User Story)
2. Associated Work Product (Defect Suite)
3. Associated Work Product (Defect)
4. Associated Work Product (Test Set)
5. Associated Task

## Entity Reflow

This adapter supports Entity Reflow, where the user gets to reflow those items from RALLY which may not have reached the target tool with which the integration is being done, but exists in RALLY. This can be done by the following steps:

1. Go to the RALLY registration in Kovair and right click on it to bring up its context menu. Then click on 'Transactions' and then click on 'Reflow Entity'.



Project Registration					
Live	Instance Name	Plug-in	Tool Type	Status	Service Flow Count
	<input type="text"/>		All	All	
●	Rally Adapter New33		Rally	Enabled	161
●	KovairSelfAd.			Enabled	161

View	
Edit	
Delete	
Disable	
Plugin	▶
Transaction	▶
Adapter	▶
Configuration Log	

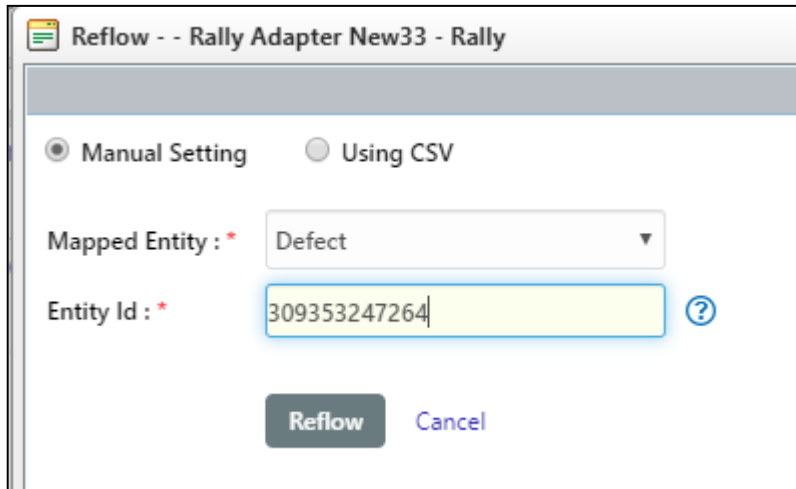
Show Execution Errors
Reflow Entity

2. In the window which opens next, one can reflow an entity item by 2 ways: 'Manual Setting' or by 'CSV'.

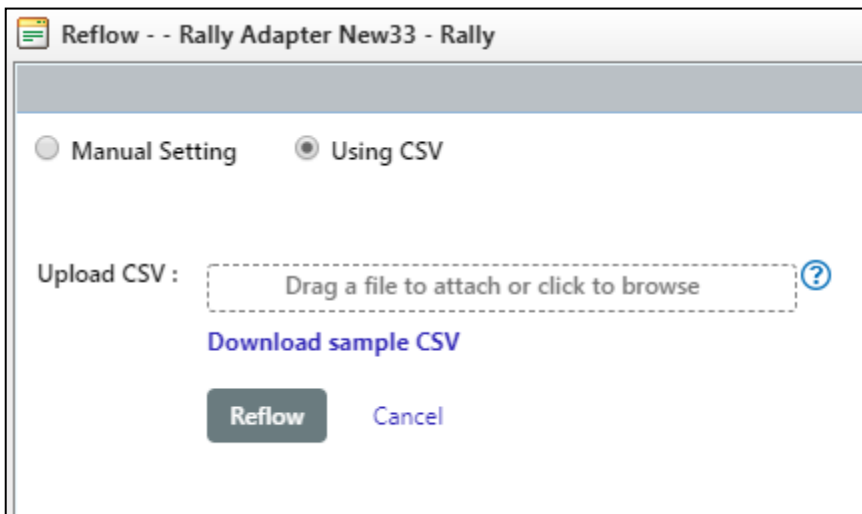
For Manual Setting, select the entity name for which Reflow is to be done from the 'Mapped Entity' dropdown and then specify the corresponding entityId(s) in a comma separated manner and click 'Reflow'.

\*\* For Rally, the entity ID can be taken from the browser's address bar after one clicks and views the record which is to be reflowed, at the tool itself, as shown in the screenshot below:

The screenshot shows a web browser window with the URL: <https://rally1.rallydev.com/#/263969447476/detail/defect/309353247264>. The page title is "New Project" and the breadcrumb is "PROJECTS ... New Project". The main content area shows a defect record with ID "DE 23519\_913" and a status of "Ready". The left sidebar contains navigation options like "WORKSPACES", "PAGES", "Timeboxes", "Team Planning", "User Stories", "Tasks", "Defect Suites", "Defects", "Quality Management", "Test Cases", "Test Plan", and "Portfolio Items".



3. Select the 'CSV' radio button if one wants to reflow multiple items from a CSV file.



Clicking on 'Download sample CSV' downloads a sample CSV file with the format in which the user needs to input the entity Ids.

Spreadsheets    Reflow\_Rally.csv - Spreadsheets

Home    Insert    Page Layout    Formulas    Data    Review    View    Cloud

Calibri    11    A+    A-    Merge and Center    Wrap Text

WPS Cloud    Reflow\_Rally.csv

B2    fx    '309115053952

	A	B	C	D	E	F	G	H	I
1	EntityName	EntityId							
2	Defect	309115053952							
3	Defect	309353247264							
4									

After creating the csv, upload the file and then click Reflow.

Reflow - - Rally Adapter New33 - Rally

Manual Setting
  Using CSV

Upload CSV : ● Reflow\_Rally.csv ✖ Remove

[Download sample CSV](#)

Reflow
Cancel

**Preview**

EntityName	EntityId
Defect	309115053952
Defect	309353247264

4. To see the status of the reflow, go to Workspace Setup, click on 'Workspace' menu item and click on 'Job Queue'.

Job Queue							
Description	Submitted By	Job Type	Start/End Time	Duration	Status	Result	Log File
<input type="text" value=""/>	All	All		All	All		
<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">☐</div> <div>Today</div> </div>							
Omnibus Reflow Execution for instance - Rally Adapter New33	Kovair Support	Omnibus Reflow	05/22/2019 23:45 - 05/22/2019 23:45	0 hr 0 min 2 sec	Completed		<a href="#">Log.txt</a>
Omnibus Reflow Execution for instance - Rally Adapter New33	Kovair Support	Omnibus Reflow	05/22/2019 23:42 - 05/22/2019 23:42	0 hr 0 min 2 sec	Completed		<a href="#">Log.txt</a>
<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">☐</div> <div>Older</div> </div>							
Omnibus Reflow Execution for instance - Rally Adapter New33	Kovair Support	Omnibus Reflow	05/08/2019 01:38 - 05/08/2019 01:38	0 hr 0 min 1 sec	Completed		<a href="#">Log.txt</a>
Omnibus Reflow Execution for instance - Rally Adapter New33	Kovair Support	Omnibus Reflow	05/08/2019 01:33 - 05/08/2019 01:33	0 hr 0 min 2 sec	Completed		<a href="#">Log.txt</a>

Clicking on the **Log.txt** hyperlink shows the status of the Reflows which has been done recently.

```
localhost/KovairDocs//Companies/5000/Workspaces/5007/Jobs/7059/Logs/Log.txt - Go...
localhost/KovairDocs//Companies/5000/Workspaces/5007/Jobs/7059/Logs/Log.txt
Reflow initiation started for entity name :: Defect and entity Ids :: 309353247264
Reflow initiation successful for entityname :: Defect and entityId :: 309353247264
Total successfully reflow initiated items - 1
```

## Plugin features:

Entities exposed for view	Fields exposed for View
Projects	Name, Description, State, Owner
Release	Name, Release Date, Planned Velocity, State
Iteration	Name, Start Date, End Date, Planned Velocity, State
Defect	ID, Name
Defect Suite	ID, Name, Schedule State, Owner
Test Case	ID, Name, Type, Priority, Owner, Method, Last Verdict, Last Build, Last Run
Test folder	ID, Name, Project
Test Set	ID, Name, Owner
Test Case Result	Build, Date, Verdict, Duration, Tester, Notes
Test Step	Test Case, Input, Step Index, Expected Result
Portfolio Item	Portfolio Item Type Name, ID, Investment Category, Name, Planned Start Date, Planned End Date, Value Score, Risk Score
Task	ID, Name, State, Owner
User Story	ID, Name, Owner

## Disclaimers:

- 1) Timesheet can be added by the registered user. One user cannot add timesheet data for another user.
- 2) Comments and Attachments will not flow for Entity Reflow.
- 3) For Reflow, only Modify Events will occur so there should be a Modify Service Flow with an Alternate Add Action.
- 4) No relation events will occur for Reflow.
- 5) For reflow, events will only occur for the registration against which 'Reflow Entity' has been selected. Reflow Events for MultiSubscribers not supported.
- 6) Angular brackets not supported. Texts between angular brackets are also not supported.
- 7) Image is not supported in comments for both event and action.