



Rally Software Defect Creation API with Mandatory Fields

Question from Dhruv: We need to get the list of Mandatory fields prior to the creation of a defect via API. Is there an API that gives us the list of Mandatory fields and their properties (dropdown values if it's a dropdown, for example)?

We'd like to convert the information into a proper UI and let the user create Defects with those mandatory field values set?

Super Rally Software Answer: Yes! There is a way to do this, although I'm not sure we have it properly documented.

You need to query the "TypeDefinition" endpoint. You can do that using the Name of your object (Name = "Defect"). You can use whatever filter you'd like, it doesn't have to be "Name".

After that, you need to fetch the 'Attributes' field, which points to a JSON collection of the fields (attributes) of that object type (Defect, in your case).

Next, make a direct call to the Attributes URL using a large enough 'pagesize' so you can receive all of the 'object-type' fields.

When you do this, the returned JSON collection is for objects of type 'AttributeDefinition' and holds all of the fields of that object-type.

If you go over each of these field definitions, you can get its ObjectID and execute a Read/Get method call to the 'AttributeDefinition' endpoint using that Object ID, see below.

AttributeDefinition
Parent Type [WorkspaceDomainObject](#)
Note This is metadata about attributes on objects types in the Web Services API
REST URLs

Operation	HTTP Method	Encoding	URL
Read	GET	JSON	https://rally1.rallydev.com/slm/webService/v2.0/attributedefinition/ ObjectID
Create	PUT / POST	JSON	https://rally1.rallydev.com/slm/webService/v2.0/attributedefinition/create
Update	POST	JSON	https://rally1.rallydev.com/slm/webService/v2.0/attributedefinition/ ObjectID

This shall get you the full definition of that field, then you shall fetch the 'Required' field which will tell you if the field is or isn't required, see below.

Required	read-only
Required	false
Note	Is the value of this attribute required
Type	boolean
Sortable	false
Explicit Fetch	false
Query Expression Operators	This attribute cannot be used in queries.

This gets you the full definition of that field, which you can use to fetch the 'Required' field to tell you if the field is (or isn't) required, see below.

RealAttributeType	
Required	true
Note	Real Attribute type of the field
Type	string
Allowed Values	"BINARY_DATA", "OBJECT", "QUANTITY", "RATING", "STATE", "RAW", "COLLECTION", "TEXT", "BOOLEAN", "INTEGER", "DECIMAL", "WEB_LINK", "DATE", "STRING", "DROP_DOWN", "MULTI_VALUE", "USER"
Max Length	-1
Sortable	false
Explicit Fetch	false
Query Expression Operators	=, !=, >, <, >=, <=, in

You can use this approach to iterate over all your attributes to learn which are required. You can't make a direct query using a filter to only retrieve just the required fields, though. You need to iterate over the entire collection of the attribute definitions and look at each field to decide if it's required or not.



Story Points on Defects

Will the story points on defects be counted towards burndown/burnup & velocity charts?

Question from Patrick: We are trying to adopt an approach where instead of having a story for each defect to count for efforts, we are trying to assign story points (Plan Estimate Field Value) to defects in an iteration.

We have three questions about this approach:

- Will this be counted towards burndown/burnup charts?
- Will this also be counted towards the velocity chart?
- Is there a different treatment/purpose for defects versus stories in Rally Software?

Super Rally Software Answer: Yes. If the Defects are scheduled into the iteration along with Stories, all of the points assigned to both Work Product types (as well as hours assigned to the tasks) will be counted in the burndown/burnup and velocity charts.