Component Descriptions

The following document describes the components shown within the MQ Framework use case interaction diagram.
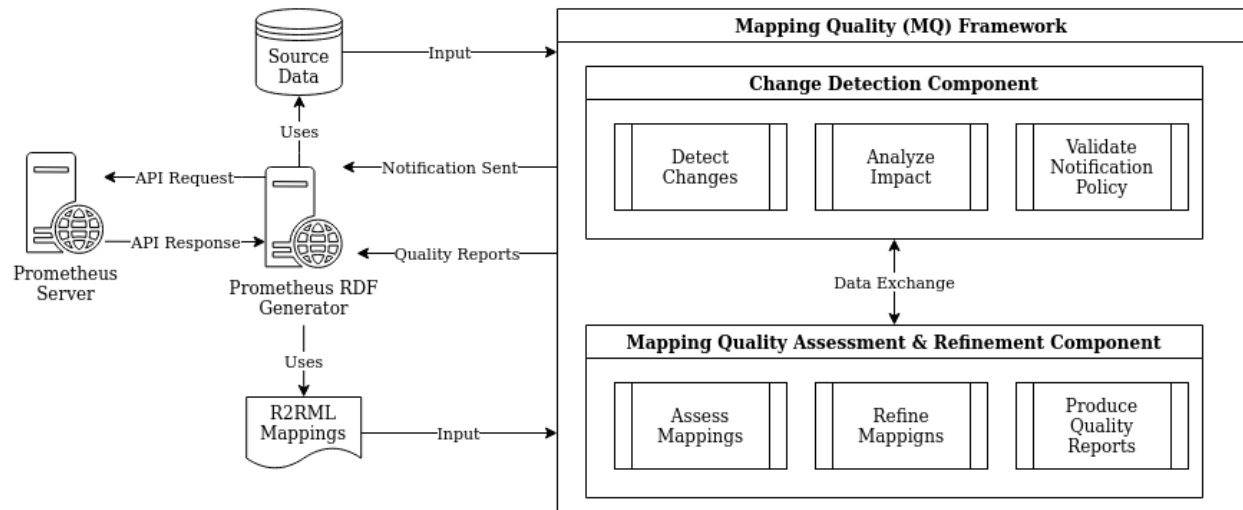

Fig 1. Components used within use case interaction

Component	Component Description	Subcomponent / Process	Subcomponent / Process Description
General	Components outside of the framework.	**Prometheus Server**	Server which collects the monitoring information.
		Prometheus RDF Generator	System which transforms Prometheus monitoring information into RDF
		Source Data	Source data used by the system to generate RDF.
		R2RML Mappings	Mappings used to produce the graphs containing monitoring information.
Change Detection Component	Component which is designed to detect, model and analyze changes in the source data which produced linked data.	**Detect Changes**	Query the source data to detect changes.
		Analyze Impact	Analyze what impact the changes could have on data quality.
		Validate Notification	Compare changes against notification thresholds.

		Policy	
Mapping Quality Assessment & Refinement Component	Component which is designed to improve mapping quality and providing expressive machine-readable quality reports.	**Assess Mappings**	Execute quality metrics on the uploaded mappings.
		Refine Mappings	Provide semi-automatic refinements to resolve quality issues.
		Produce Quality Reports	Produce reports containing mapping information defined using MQV.