

Global Format Registry Use Case: Publicize new format service

Use Case ID	Penn-2
Description	Make new conversion or analysis service known to format registry clients
Actors	<i>Implementor</i> who creates the service <i>Maven</i> (possibly same as above) who wants to publicize this service <i>Broker</i> with which the service has been registered <i>Registry</i> of digital format registrations
Assumptions	The implementor has declared and implemented the service and registered it with a type broker, so that it can be carried out. Applicable data types and formats have also been registered with that broker..
Preconditions	Registry already has an entry for the format this service is provided for. (If not, see MIT-2 use case.)
Triggers	Maven discovers useful service on a Broker, and wants to publicize it.
Primary Scenario	Step 1 Maven queries Registry about the service's input format.
	Step 2 Registry returns information for the applicable format, which does not have any reference to the service or the Broker.
	Step 3. Maven optionally double-checks with Implementor to be sure that the service is capable of handling the load from Registry referrals.
	Step 4. Maven updates the Registry with (a) information on the name of the format in the Broker's system, if not already there, (b) information on the Broker that has knowledge of the format and its services, and (c) if the Registry supports it, information on the nature of the provided service.
Primary Result	Registry now can direct its users to the new service
Post-Conditions	Registry users can now easily discover and take advantage of the service.
Non-functional requirements	The format given in the registry should be in alignment with the format specified by the broker. Unexpected results may occur if the broker's specification of the format doesn't encompass the registry's cleanly.
Notes	How much information the Registry retains depends on its design. Some types of services (e.g. conversions) could be specifically noted in the Registry if desired. Or, the Registry could simply say "My format X is the same as Format X' in the Broker system. For services on this format (or, even more coarsely, on any format I know of), you might want to query Broker B. Have fun."
Issues	If users want to rely on services referred to by a registry, there needs to be some way to vet the reliability of the updates above. Of course, this principle also holds for the original format registration.