**10th May 14:00 Uhr: After meeting Mirette and Noopur discussing the issue**

In the ontology, following is defined:

<http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/goFor> rdf:type owl:ObjectProperty ;

rdfs:domain <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/#Patient> ;

rdfs:range <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/MedicalVisit> .

But with this, since there is nothing named "MedicalVisit" in any of the input patient files, instead we have "Meldung" and RML Mapper can parse the XML files only if there is a valid subject template,

which I create in rules file as below -

rr:subjectMap

[ rr:template "https://fraunhofer.de/med2icin/ADT-GEKID/resources/Meldung/\*{@Meldung\_ID}\*";

];

I need to give the "Meldung", so there exists the problem. I cannot give "MedicalVisit".

So, instead, if "MedicalVisit" is replaced by "Meldung" in the definition in ontology, then things would be okay for parsing the XML.

**10th May 15:00 Uhr: After reply from Abdel**

After reading reply from Abdel which indicates that the ontology file should not be change, following is my comment and a workaround:

**Exact Issue:**

The mapping exists and I had written the RML rules according to the existing mapping, but with that it was not possible to use existing query to fetch results because the input formats of patient is not fully as per the ontology and the rules as per which RML Mapper/Streamer works. Any of these two processors need a subject Template in the rules file which could not be formed using "MedicalVisit" as nothing of this sort of ID is present in the input files. Instead only "Meldung" is present with "Meldung\_ID" in the input.

**Workaround:**

With MedicalVisit in Object, I have appended the Patient Id since there is no id for MedicalVisit which I need to make it as a workable subject mapping for satisfying the hasMeldung relation of it with Meldung.

<https://fraunhofer.de/med2icin/ADT-GEKID/resources/Patient/16525.0> <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/**goFor**> <https://fraunhofer.de/med2icin/ADT-GEKID/resources/**MedicalVisit/16525.0**>.

Next, for each of the Meldung's i.e. while iterating over Meldung with use of formatting at a later stage, I have replaced in "MedicalVisit/Meldung\_ID" with "MedicalVisit/Patient\_ID" so as to frame a subjectmapping while iterating over each Melgung so that following Triple can be framed.

<https://fraunhofer.de/med2icin/ADT-GEKID/resources/**MedicalVisit/16525.0**> <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/**hasMeldung**> <https://fraunhofer.de/med2icin/ADT-GEKID/resources/**Meldung/PAT\_2**>.

For satisfying the issue which existing query was having earlier, now the next triple should work fine for fetching the following connections:

<https://fraunhofer.de/med2icin/ADT-GEKID/resources/**Meldung/PAT\_2**> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/MedicalVisit>.

<https://fraunhofer.de/med2icin/ADT-GEKID/resources/**Meldung/PAT\_2**> <http://iais.fraunhofer.de/vocabs/med2icin/ADT-GEKID/hasTumorzuordnung> <<https://fraunhofer.de/med2icin/ADT-GEKID/resources/Tumorzuordnung/PAT_2/1>>.

……

…...

To have a clear understanding please refer to the output file “rmlm\_output\_files/Testperson1\_out\_final.ttl” as this file has multiple “Meldung\_ID”s.