## Issue 627 WD

[Issue 627: explicitly document cross-references btw family models](https://www.cidoc-crm.org/Issue/ID-627-explicitly-document-cross-references-btw-family-models)

### Background

ETz was assigned homework to initiate repositories for each FM (starting from CRMsci, CRMinf, and CRMtex) in order to:

1. Generate RDF
2. Document RDF implementation decisions / policies that were followed
3. Explicitly document external references
4. Perform consistency checking
5. Uri resolution for html/ RDF requests

### Current state

Generated RDF, and documented implementations decisions and external references for:

* CRMsci: TV, AK, MD ([version 2.0](https://gitlab.isl.ics.forth.gr/cidoc-crm/compatible-models/crmsci/-/tree/v2.0_preparation/2.0) Stable)
* CRMtex: PF, AF, FM, MD ([version 2.0](https://gitlab.isl.ics.forth.gr/cidoc-crm/compatible-models/crmtex/-/tree/v2.0_preparation/2.0) Stable)
* FRBR/LRMoo: PR ([version 0.9.6 preparation](https://gitlab.isl.ics.forth.gr/cidoc-crm/compatible-models/lrmoo/-/tree/v0.9.6_preparation/0.9.6))

Each repository currently includes:

* XML
* RDF
* Documentation of external references in Readme.md
* Documentation of implementation decisions in Readme.md

TODO:

* URI resolution for html/RDF requests
* Consistency checking (TBD)
* Generate a PC module similarly to the CRM base repository (TBD)
* Generate a Supplement module similarly to the CRM base repository (TBD)

### Decisions

Verify contact list for issues discussion: Verified

* CRMdig: GB, RS, MD ([version 4.0 preparation](https://gitlab.isl.ics.forth.gr/cidoc-crm/compatible-models/crmdig/-/tree/v4.0_preparation/4.0))
* CRMarchaeo: CEO, GH, AF, MK
* CRMinf: PF, MD, SdS
* CRMsoc: GB
* CRMact: TV
* CRMba: ?
* CRMgeo: GH
* PRESSoo: IFLA people (Pat, Maja, Trond, Mélanie)
* Consistency checking list (including external references):
	+ Vocabulary checking regarding class and property labels
	+ detection of wrong domain or range of a property
	+ hierarchical cycles
	+ unique hierarchical branch position
		- If A subClassOf B, B subClassOf C then A **cannot** be subClassOf C
	+ domain/range of a property must be subClass or equal to the domain/range of its superProperty
	+ Avoid hierarchical relationships of owl:DatatypeProperties with owl:ObjectProperties, and document the cases
* Generate a PC module similarly to the CRM base repository? Voted: yes
	+ Example case from CRMarchaeo v2.0 (Issue 638 .2 properties)



* Generate a Supplement module similarly to the CRM base repository?
	+ Example case from CRMsci v2.0 Voted: yes

O30 determined position (was determined by) **subPropertyOf** O16 observed value (value was observed by)

* S23 Position Determination. **O30 determined position (was determined by)**: E94 Space Primitive
* S4 Observation: **O16 observed value (value was observed by)**: E1 CRM Entity