## ISSUE 316: co-reference statements to CRMinf

The SIG reviewed this sleeping HW assignment (SS). Reaffirmed the need for this work.

Updated the proposed HW with changes from LRMoo. SS explained that this was a partial HW. It must be aligned in consideration with I9 Provenanced Comprehension. Need also to take into account the Non-Coference Statement.

**DECISION**: Out of the proposed properties Jx3 used (was used by) [D: I7 Belief Adoption, R: F4 Manifestation Singleton] will be deleted, given that its range has been deprecated. The other two properties are listed below.

### Jx1 used manifestation of type (was type of manifestation used by)

Domain: I7 Belief Adoption

Range: F3 Manifestation Product Type

Quantification: many to many (0,n:0,n)

 Scope note:     This property associates an instance of I7 Belief Adoption with the instance of F3 Manifestation Product Type that carried the instance of F2 Expression that contained the instances of E89 Propositional Object that make up the I4 Proposition Set being adopted. It assumes that a non-contentious reading of the instance of F2 Expression has allowed the instances of E89 Propositional Object to be elicited and enumerated.

This property is a shortcut over the long path

I7 Belief adoption

J6 adopted

I2 Belief

J4 that (is subject of)

I4 Proposition Set

P148 has component (is component of)

E89 Propositional Object

P148i has component (is component of)

F1 Work

R3 is realised in (realises):

F2 Expression

R4i is embodied by

F3 Manifestation

QUESTION: Do we want to include a shortcut of the implied minimum set of inferences that have taken place as well?

I7 Belief adoption

J6 adopted

I2 Belief

J2 concluded that (was concluded by)

I5/S5 Inference Making

J1 used as premise (was premise for)

E25 Human-Made Feature

O16 observed value (value was observed by)

S4 Observation

O8 observed (was observed by)

F5 Item

R7i is materialized in

F3 Manifestation

R4 is embodied in

F2 Expression

Examples:

In First Order Logic:

### Jx2 used (was used by)

Domain: I7 Belief Adoption

Range:               F5 Item

Quantification: many to many (0,n:0,n)

 Scope note:     This property associates an instance of I7 Belief Adoption with the particular instance of F5 Item that carried the instance of F2 Expression that contained the instances of E89 Propositional Object that make up the I4 Proposition Set being adopted.

This property is a shortcut over the long path: See above

 Examples:

In First Order Logic: