## ISSUE 409: CRMarcheo generalization of the properties AP12 confines and AP11 has physical relation.

The sig reviewed the proposals put forth by CEO and decided against the introduction of

1. a new APxx has physical relation (is physical relation of) –D & R set to A10 Excavation Interface and A8 Stratigraphic Unit, respectively –and a new APyy has physical relation (is physical relation of) –D & R set to A10 Excavation Interface.
2. a new Oxx has physical relation (is physical relation of) –D & R set to R 20 Rigid Physical Feature
3. a new APxx has physical relation (is physical relation of) –D & R set to R 20 Rigid Physical Feature.

This decision is grounded on the fact that the inferencing process that CEO wants to model is already available through AP14 justified (is justification of) –i.e. the stratigraphic reasoning component, where observable connections between stratigraphic units are interpreted as evidence for the temporal sequence of their genesis. It’s only in very special cases that the temporal succession of two stratigraphic units can be inferred from their topological relation.

In general, reasoning about stratigraphic relations cannot be directly inferred based on evidence from physical relations among strata –physical relations not being a subset of stratigraphic ones; for instance, if an A8 Stratigraphic Unit is found on top of another, then it is only likely that it formed later on. Unless there is other more robust evidence to support such a claim, it should be considered an unwarranted conclusion.

Final the sig decided the things are to be kept as are and make a tutorial for archeologists.

HW to CEO to revise scope note of AP 11 if you want to show that a stratigraphic unit is actually on top of another. That if that’s what one is trying to model, they should go for AP11 rather than a topological relation**.**