

3.1.- Consistent, due to Open World Assumption.

3.2.- To make it inconsistent and comply with the intuition behind the part\_of domain, I would add the following axiom: Device disjointWith Component

4.1.- It is consistent since the semantics of only state that if there is a relation, it must be to the filler or none. Since the filler is empty by definition, this would be the “none” case.

4.2.- I would add Class C equivalentTo p some (A and B)