# Administrative Boundaries Review

1. Core Definition Model
   1. AreaBoundary and GeometryRepresentation
      * What is the difference between the geometryrepresentation and boundary properties (apart from the restriction that boundary must represent a curve)? Note that the Product model didn’t implement the boundary property.
   2. UnitDefinition
      * authority property has CI\_ResponsibleParty data type. Replace with “NamedValue” (thoughts Rob A?);
   3. HierarchicalUnit – UnitHierarchy association requires role names at each end of the association;
   4. SpatialRelationshipTypeTerm
      * Is this really an enumeration? If there could be other terms used it should be an empty CodeList with the listed terms (adjacent, contains, intersects, disjoint) provided as examples
   5. EvolutionType, OfficialStatusValue, LegalStatusValue, TechnicalStatusValue
      * Change these to EvolutionTypeTerm, OfficialStatusTerm, LegalStatusTerm, TechnicalStatusTerm respectively;
      * Place the diagram notes for these in the class notes;
      * Apart from EvolutionType are these all used in the Core Definition Model? If not, they need to be moved to the app schema where they are defined (Jurisdictional Units).
2. TWG Conceptual Model – JurisdictionalUnit app schema
   1. Jurisdictional Units
      * Change “Jurisdictional Units” to “JurisdictionalUnit” (no space, not plural);
   2. Jurisdictional Units/version – JurisdictionalAreaDefinition/unit association
      * This is in addition to the inherited associations providing “inheritedDefinedVersions”, “definedVersions”, “currentDefinedVersion” so appears superfluous. Delete it;
   3. JurisdictionalAreaDefinition
      * Needs notes describing why it is a specialization of VersionDefinition
      * evolutionType is a repeat of VersionDefinition/definitionType. Delete evolutionType.
   4. UnincorporatedLand
      * Defined as “An administrative area established independently to any national administrative division of territory and administered by two or more countries.” therefore probably not relevant for FSDF. Delete it.
3. TWG Conceptual Model – Electoral units Model
   1. Move Diagram Notes to appropriate Class Description Notes (CommonwealthElectoralDivision and StateElectoralDivision)
   2. ElectoralUnit\_TypeTerm is not used. Delete it.
   3. CommonwealthElectoralDivision and StateElectoralDivision be removed and use unitType to distinguish the two.
4. TWG Conceptual Model – MritimeUnit app schema
   1. rangeOfUnit – change DataType from Integer to Measure (to capture Units of measure);
   2. Rather than sub-type MaritimeUnit (InternalWaters, CoastalWaters, ...) delete the sub-types, make MaritimeUnit concrete and add note that unitType will be relevant for MaritimeUnits, such as “internal waters”, “coastal waters”, etc
   3. Show roles on GeometryRepresentation – AreaBoundary association;
5. TWG Conceptual Model – StatisticalUnit
   1. Delete StatisticalUnit-VersionDefinition association (duplicates inherited association)
   2. I don’t understand StatisticalTesselation.
   3. The notes for VectorTesselation are the same as for GridTesselation. One is wrong.
   4. It is unclear what the relationship between Unit Approximations and StatisticalUnits is. It need to be documented. If it is to UnitDefinition (as currently shown) then UnitApproximation belongs in the Core package. If UnitApproximation only relates to StatisticalUnits then the UnitApproximation associations should reflect this and not to UnitDefinition ;
   5. UnitApproximation, PC\_Approximation, LGA\_Approximation, ED\_Approximation all have no notes.
6. Products - AdminBoundaryTopology Model
   1. Governance Unit
      * Has no Notes. Is the “GovernanceUnit” class intended to be the product implementation for all HierarchicalUnits apart from StatisticalUnitVectors (i.e. JurisdictionalUnit, ElectoralUnit, StatisticalUnitCell)
   2. LGA\_Approximation in the Product Model is associated with the HierarchicalUnit, not the UnitDefinition. Correct? Should it be to the StatisticalUnitVector?