

NGOSS Analysis, Contracts and Conformance

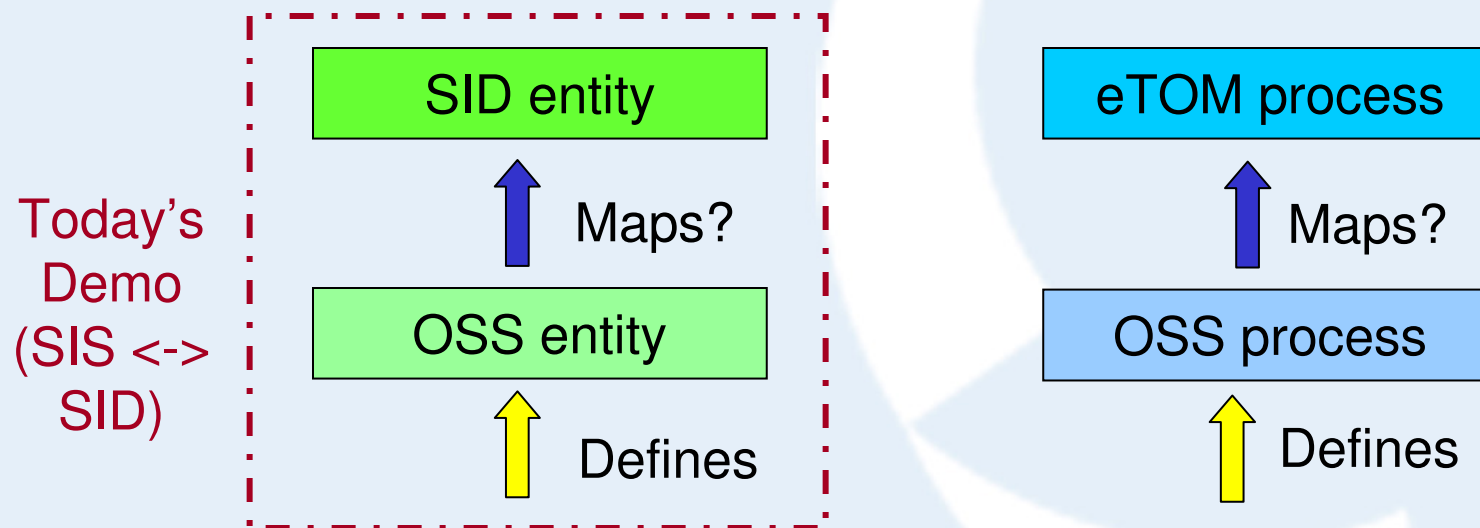
Roger Eatwell and Dr Nigel Ball,
Metabula Limited

Scope of presentation

- NGOSS Analysis
- Contracts and Analysis
- Demonstration
- Conformance

NGOSS Analysis

- Analysis can be performed to understand how and if system models and processes align with the NGOSS frameworks
 - E.g. System Information Specification (SIS) to SID, or
 - Processes to eTOM Process Elements

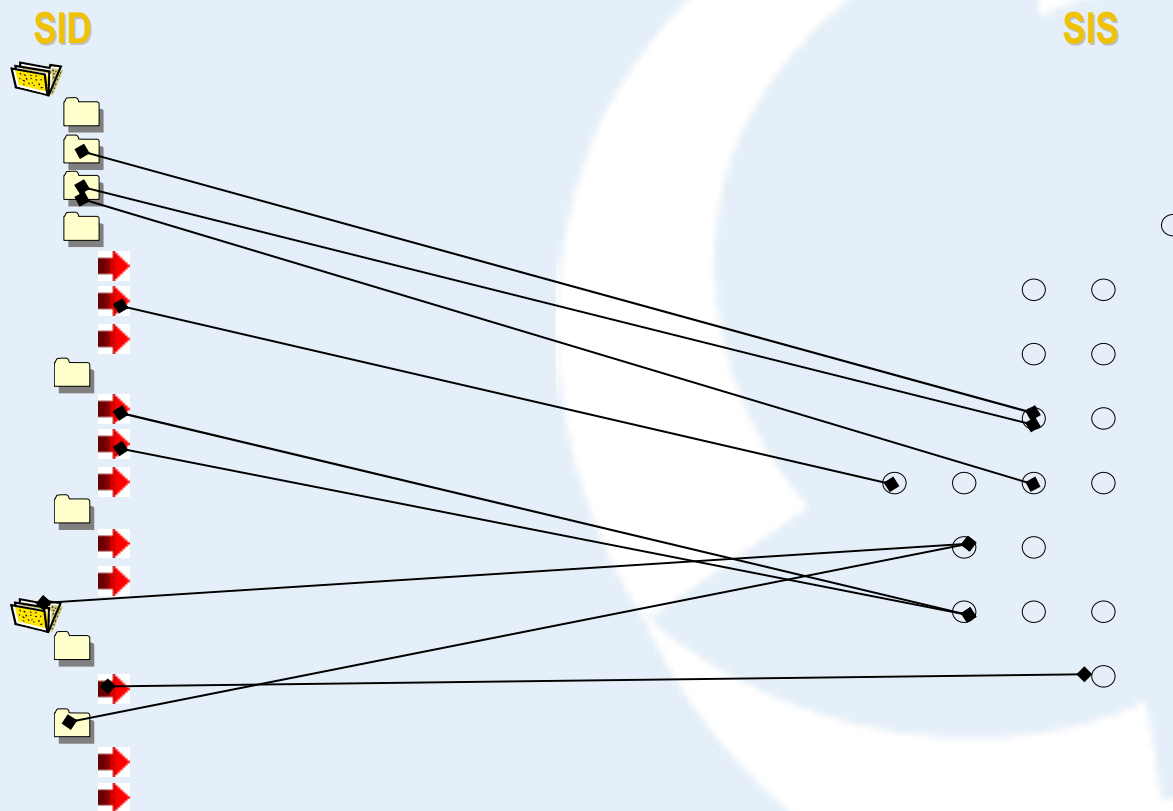


How is Analysis performed?

- Analysis generates maps from one model to another
- Approaches include
 - Textual
 - Contextual
 - Semantic
- Various uses of the approaches will now be described

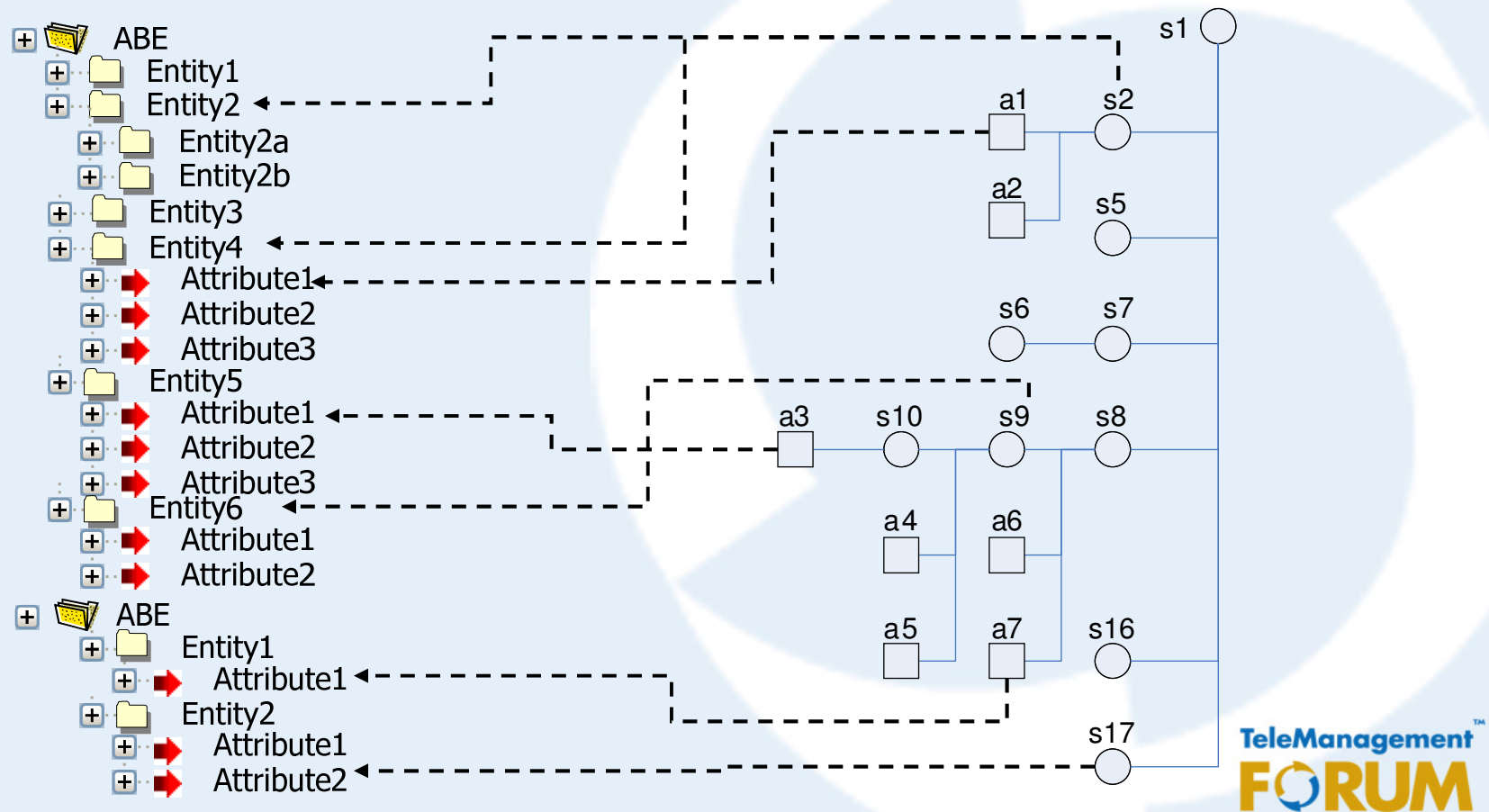
Textual Mapping

- Use of textual-only (i.e. syntactic) mapping provides scatter-gun identification of “matches”



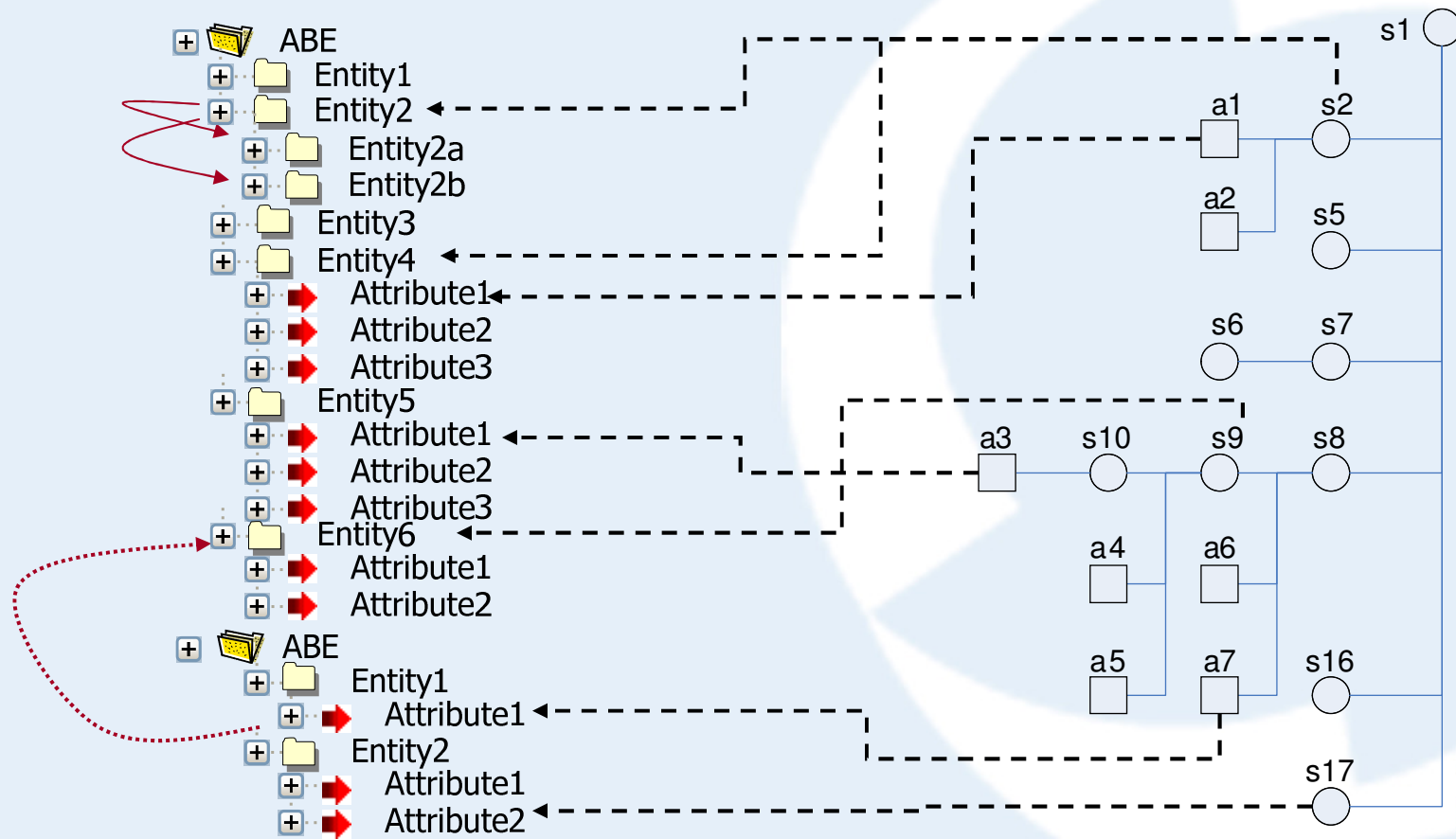
Contextual Matching

- Contextual matches selected according to context in the SID hierarchy: ABE / Entity / Attribute



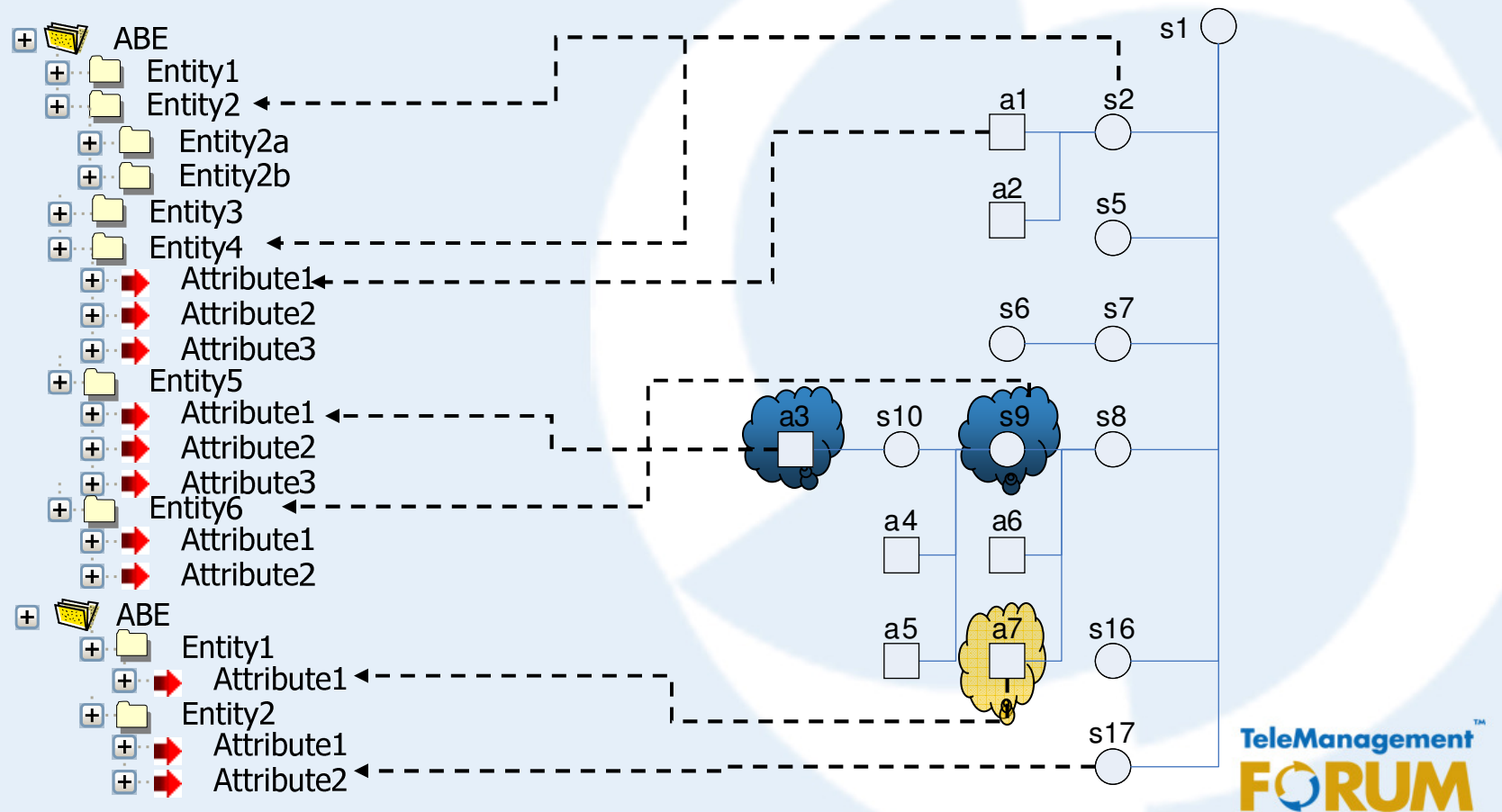
Beyond Contextual Matching

- Derivation and Aggregation – use schema traversal to explore matches



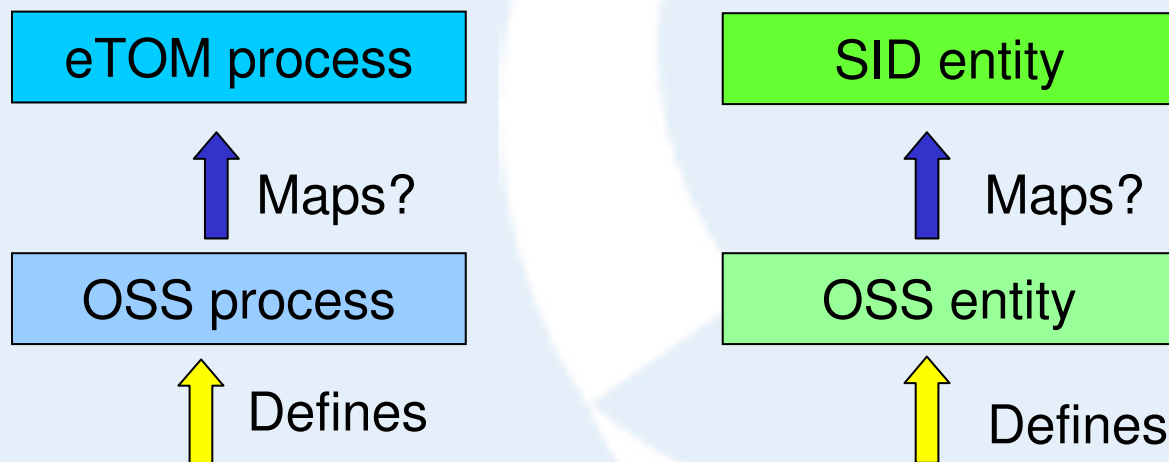
Beyond Contextual Matching

- Abstraction Pruning – utilise SID hierarchy to validate SIS



Contracts Analysis

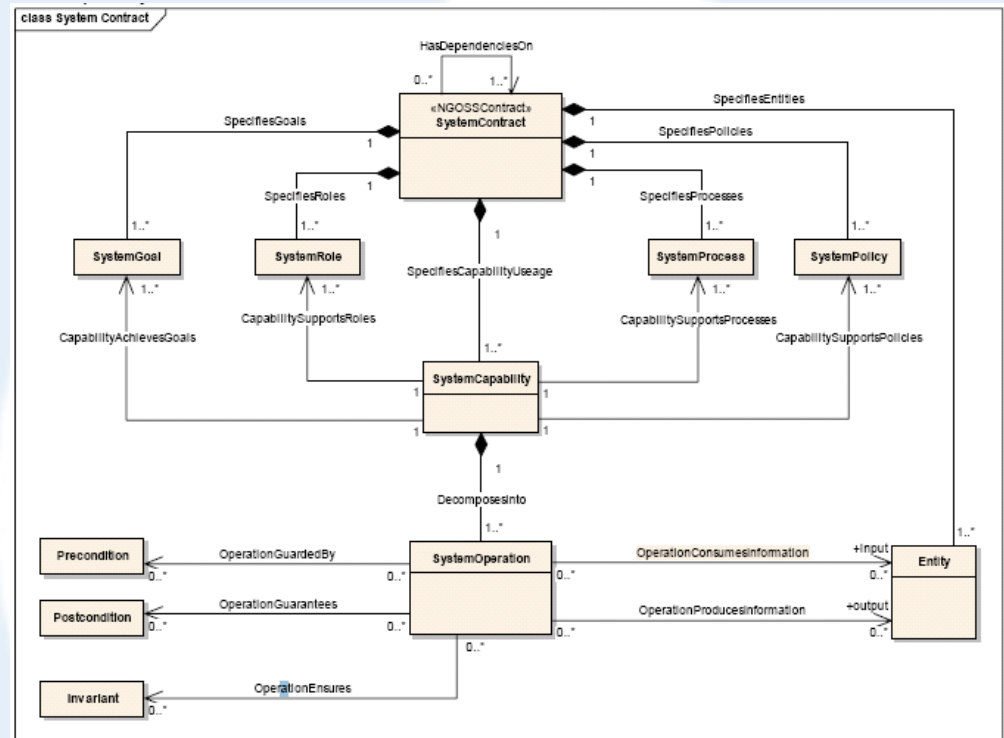
- Contracts capture the external definition of OSS system including processes and entities in a standard form
 - Contracts can be used to concurrently inform entity and process analysis i.e. SID and eTOM



Contract / Interface Definition

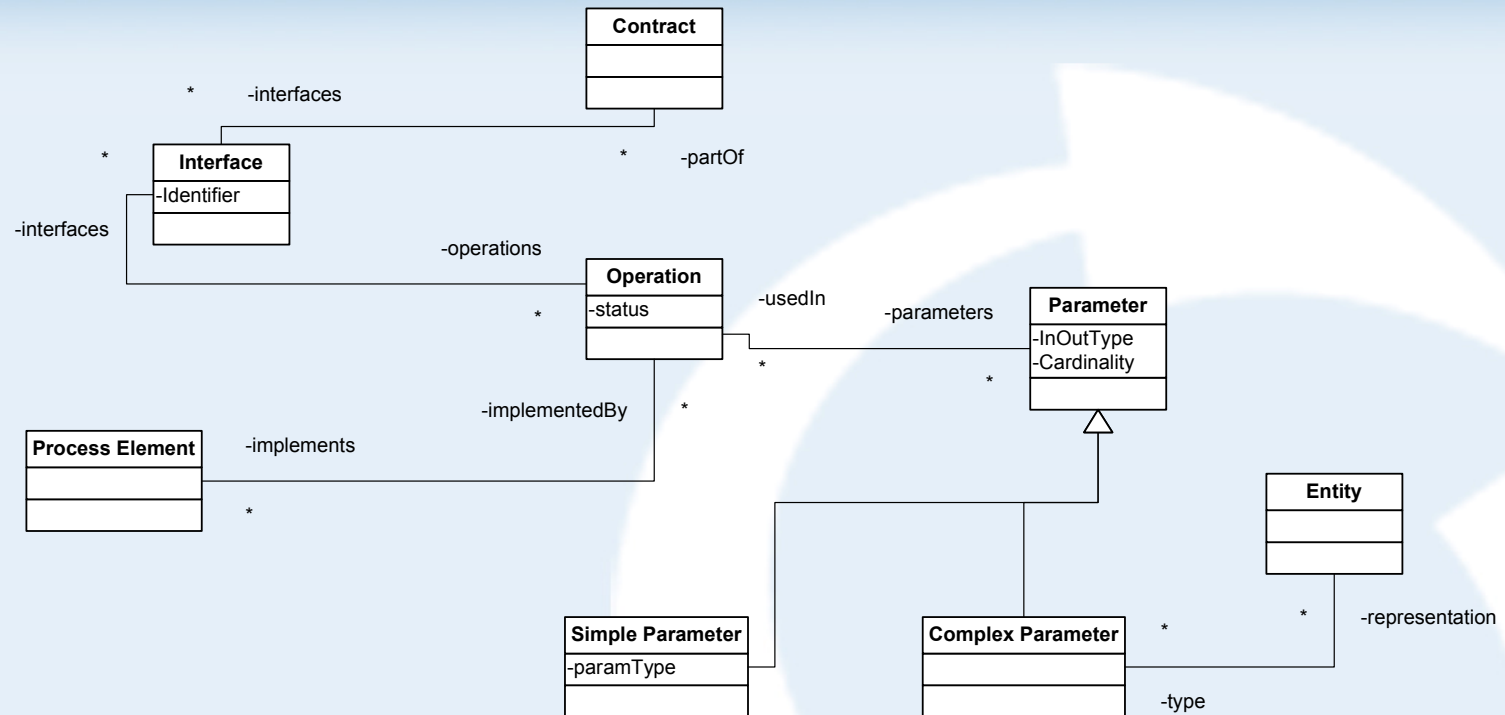
Contracts – SVC

- System View Contract (SVC) Technical Report (TR138) on model and methods
- Based upon use of tuple:
 - {Goal, Role, Process, Policy, Entity, Capability}
 - Context and Constraint fulfilling Goal



Taken from TR138 – The NGOSS System View Contract

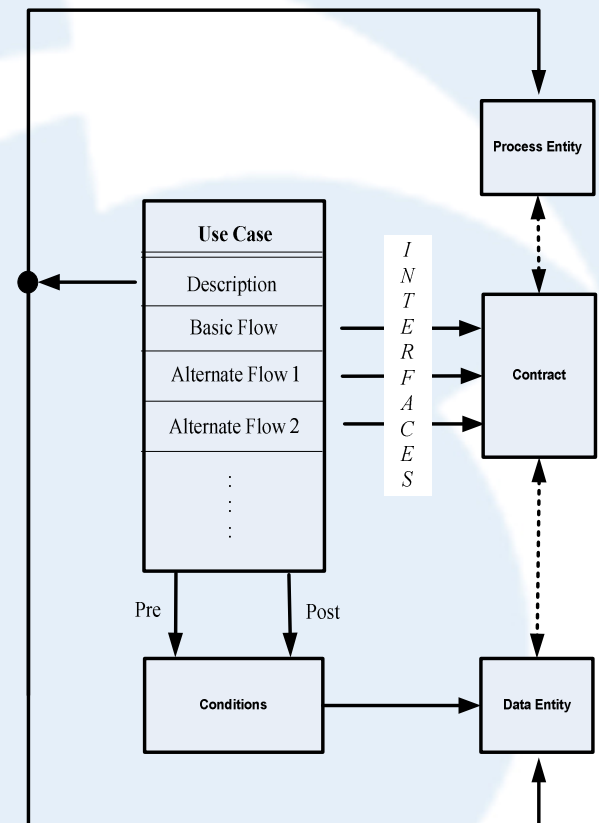
Metabula Contract Model



- Focuses upon certain aspects of SVC which are utilised for analysis and conformance
- Represents Operations, Interfaces, and Parameters with constraints

Using Contracts

- Are contracts in use largely only for Interface contracts?
- Are System contracts being generated?
- How are System contracts being generated?
 - Utilising standard tools, or NGOSS compliant tools e.g. AutoMagic etc.
- Will utilise SVC when fully supported



Analysis in Action

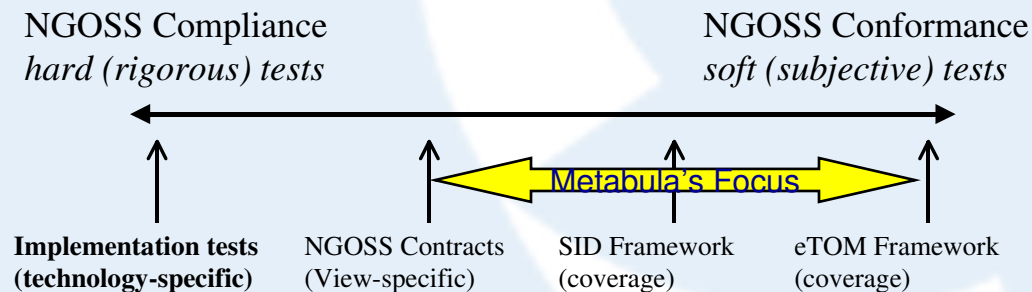
- Company X, System Y
- Want to understand how System Y entities conform with the NGOSS SID
- Load model definition
- Perform textual, and contextual analysis
- Present results sets
- Generate report for use in application maps



Based upon example in book "NGOSS Distilled" by J. Reilly & M. Creaner.

Conformance

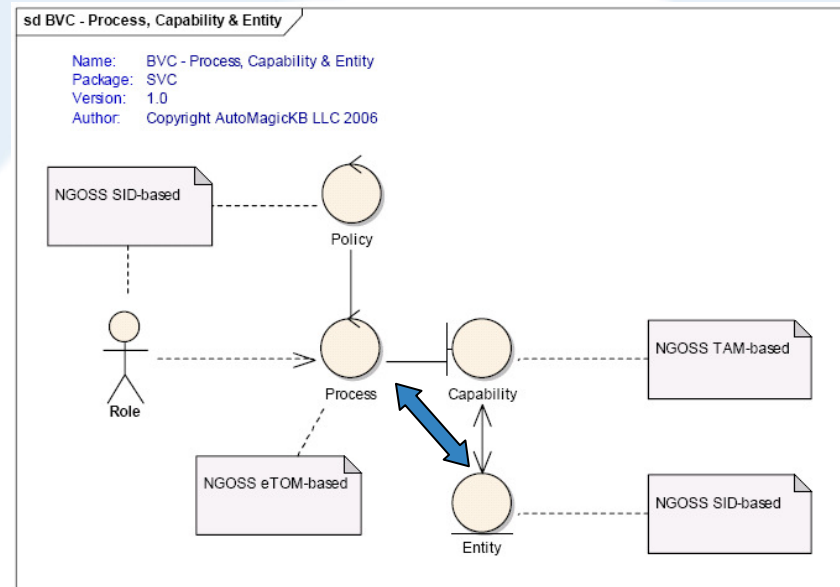
- Understanding coverage and quality of alignment provides an environment to allow comparison with “metrics” giving “Level of Conformance”
- Far softer and more subjective than Compliance
- Detailed in GB940 to which Metabula are providing ongoing contribution



From GB940 NGOSS Compliance / Conformance Strategy Release 6.0

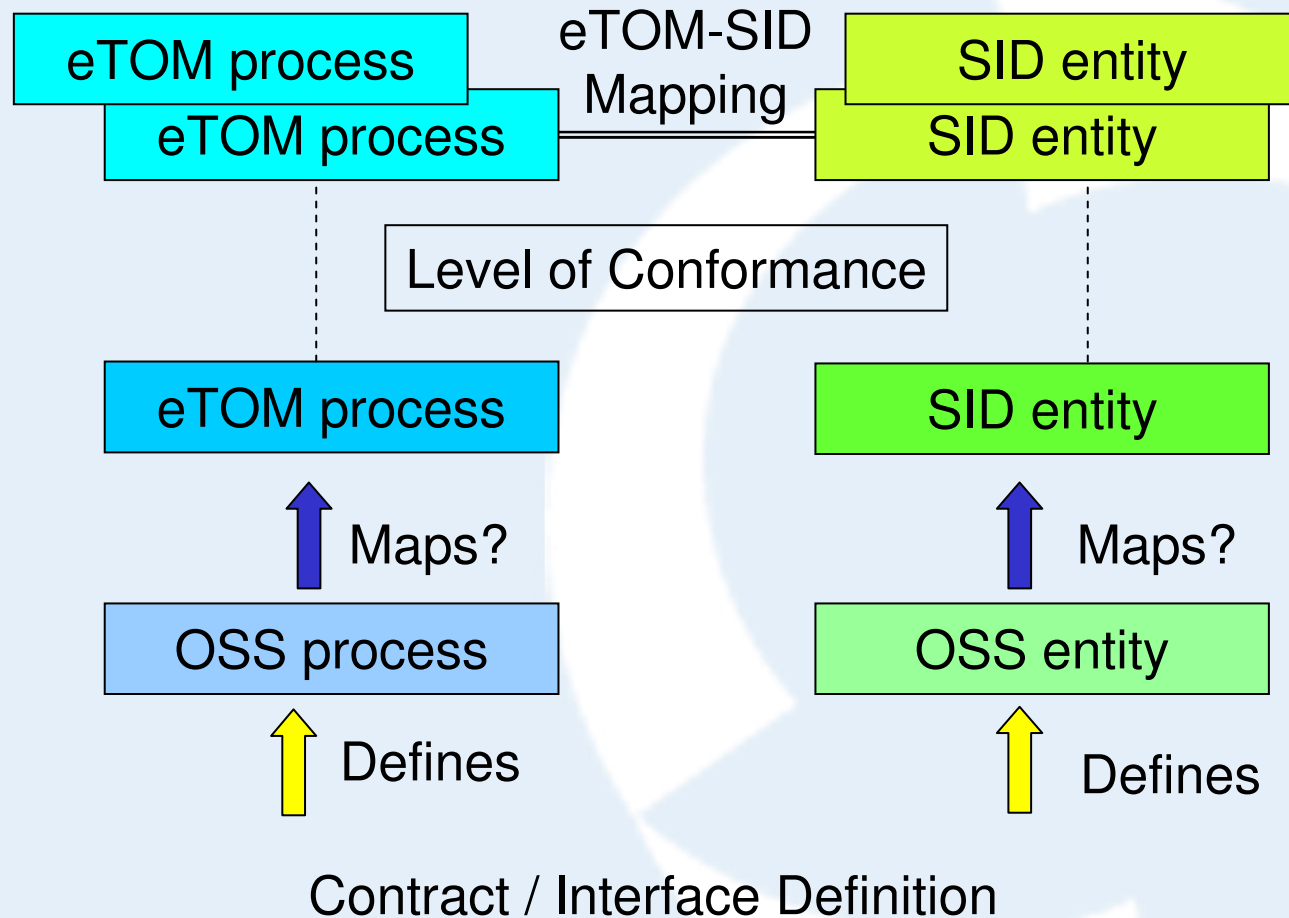
Conformance in context of Contracts

- SVC provides structure of Contract
- GB922 provides maps between Process and Entity (i.e. eTOM and SID)
- Use maps can be used to analyse in context of
 - Each framework separately
 - And for Contract



Taken from TR138 – The NGOSS System View Contract

The Approach



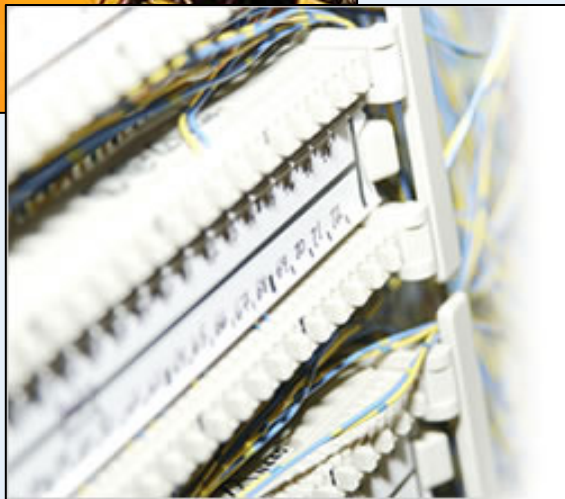
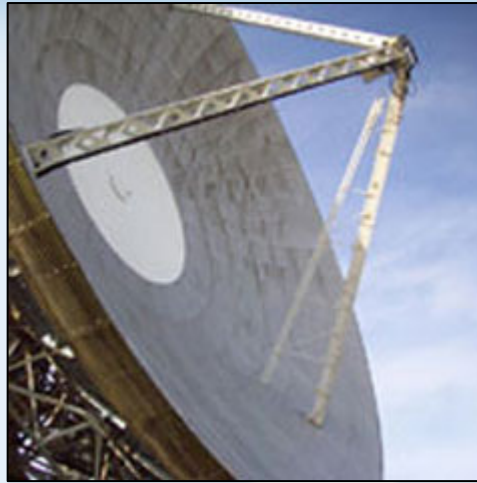
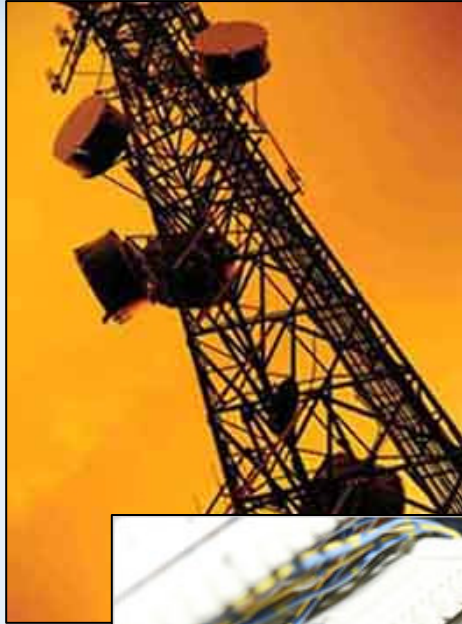
Selling an analysis and conformance approach

- Lowering project risk
 - Rapidly and easily gain measure of conformance of OSS system to the NGOSS frameworks (and contracts)
 - Reduces levels of effort required for achieving alignment
- Auditable
 - Process and results auditable – aids re-use and validity
- Repeatable / Complete
 - Current analysis approaches are manual and open to risk of not providing complete coverage

Why not try this for yourself?

Free conformance analysis service
available via

<http://www.metabula.com>



Questions and Answers

