Model Sanitization

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Problem Statement

- To encourage collaboration between industrial, research, and tool partners, models that contain intellectual property (IP) may need to be shared for experimentation or analysis.

Challenges:

- Models contain IP information that is structured/unstructured, but must be removed.
- Models may be extremely large. However, size/complexity are desirable to researchers/tool builders.
- Sanitization procedure must be verifiable and ‘obviously correct’.
Define the intellectual property to be removed as a set of model queries.

For example, removing all names of elements:
- Query would be ‘the set of all model element names’
- Q1: Answer to query on original model
- Q2: Answer to query on sanitized model
- The sanitization is correct if there are no common elements between Q1 and Q2
Objective is to produce open-source Eclipse plugin framework to allow user to select which information to be removed from the model:
- Integrate query language and provide sanitization templates
- Reports on sanitization correctness/verification
- Collaboration with Yimeng "Jacques" Zhu, McGill Undergraduate