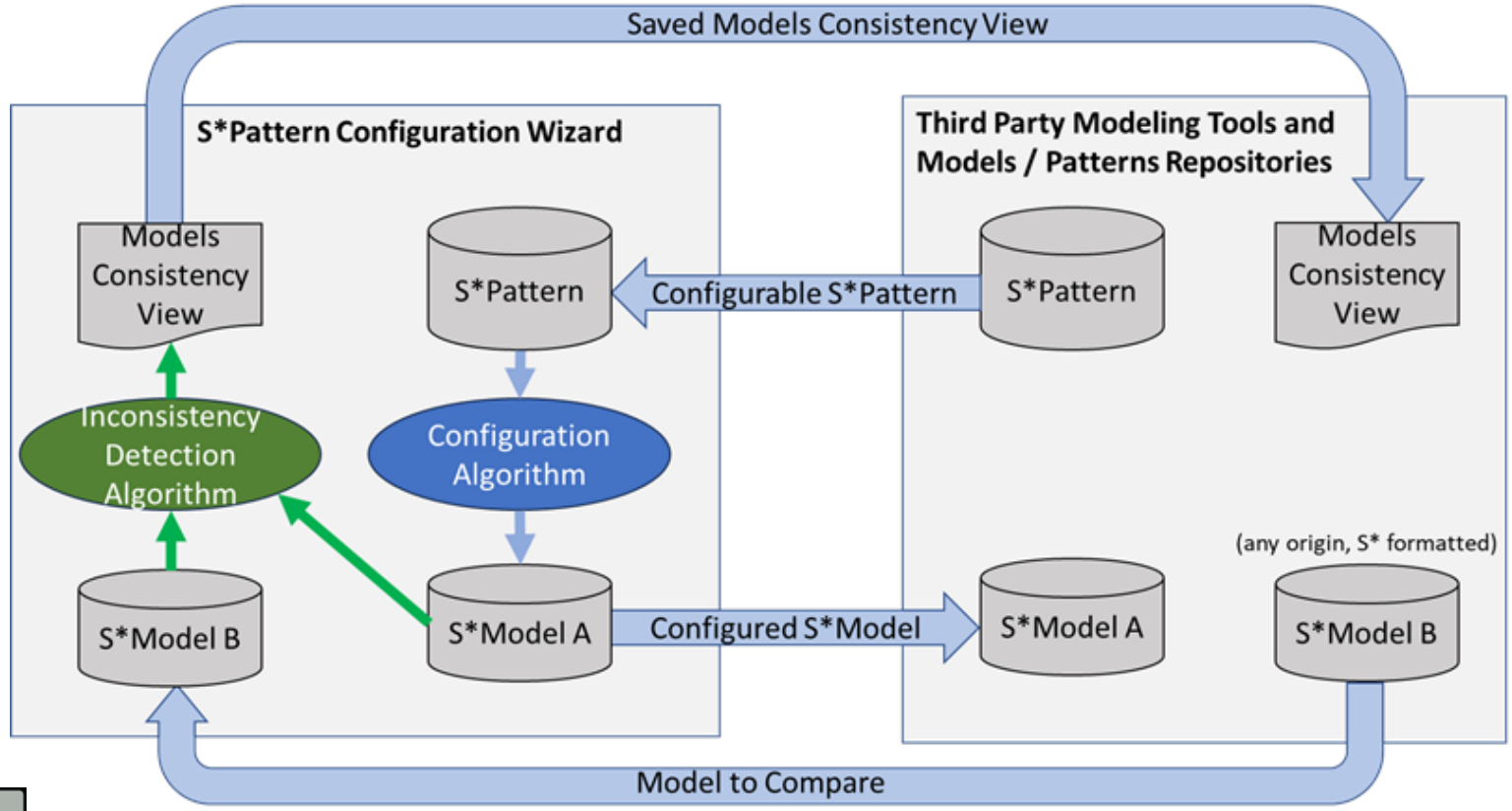
# S*Pattern Configuration Wizard: Inter-Model Consistency Analyzer




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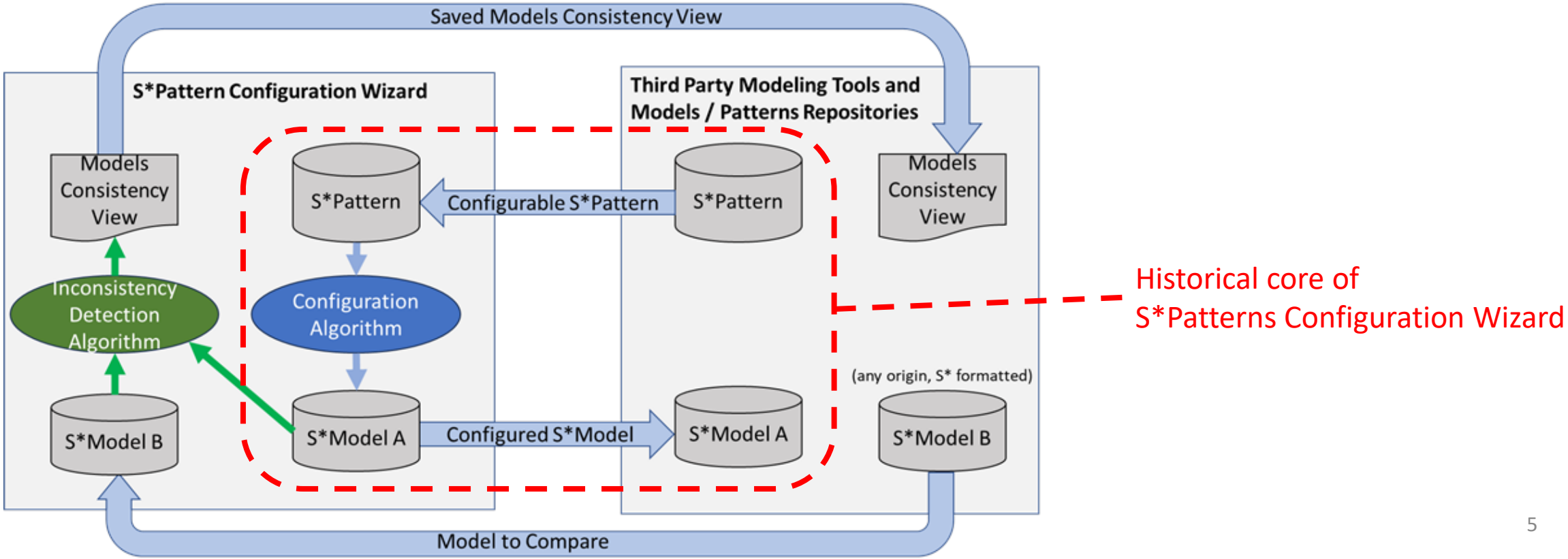
- Appendix A: The S*Model Comparison Format for Model B

# Purpose and scope

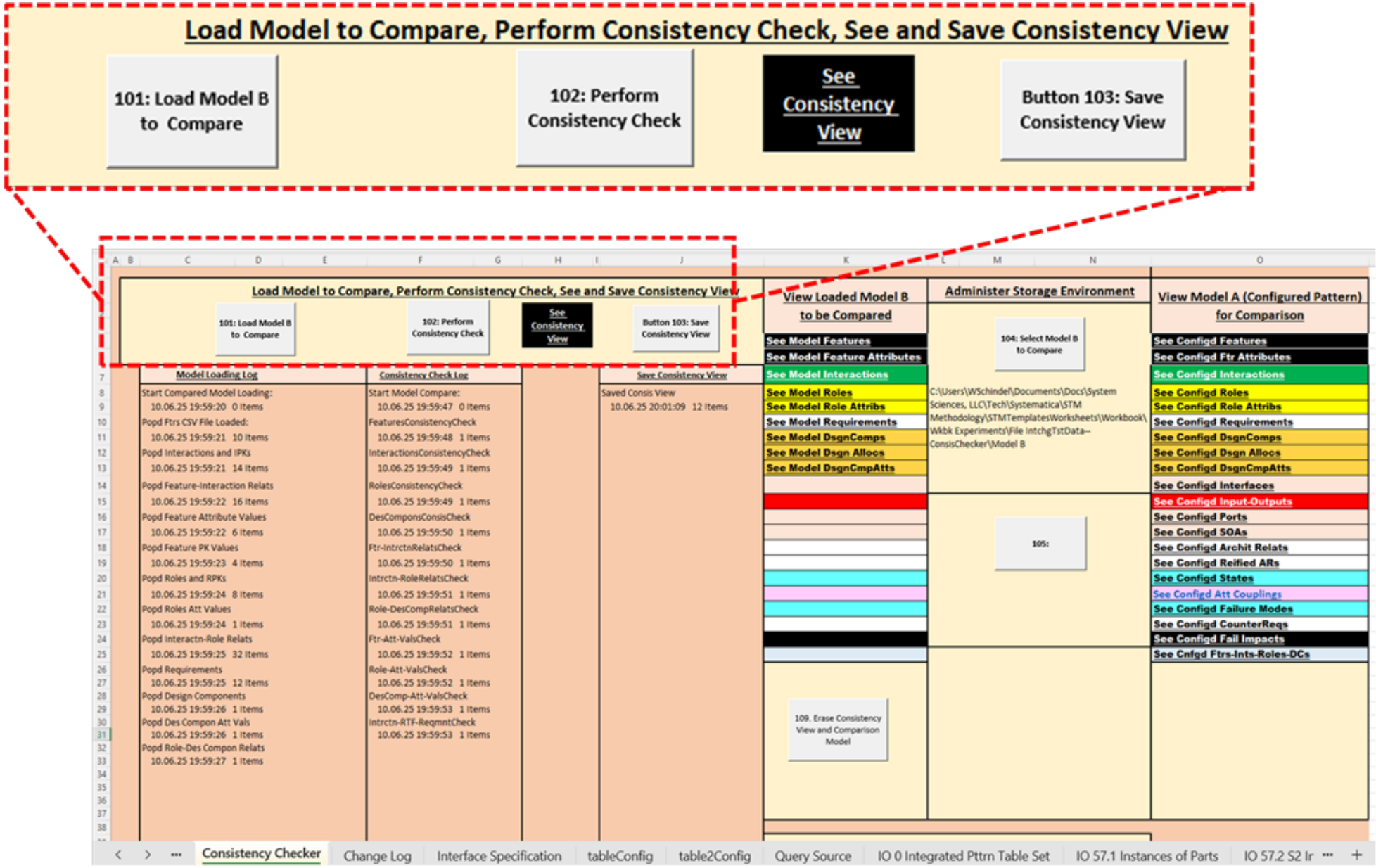
- The following briefly summarizes the introduction of automated inter-model consistency detection capability into the S*Pattern Configuration Wizard.
- This capability is discussed in more detail in the References, including the User Guide to the S*Pattern Configuration Wizard.

# The inter-model consistency analyzer

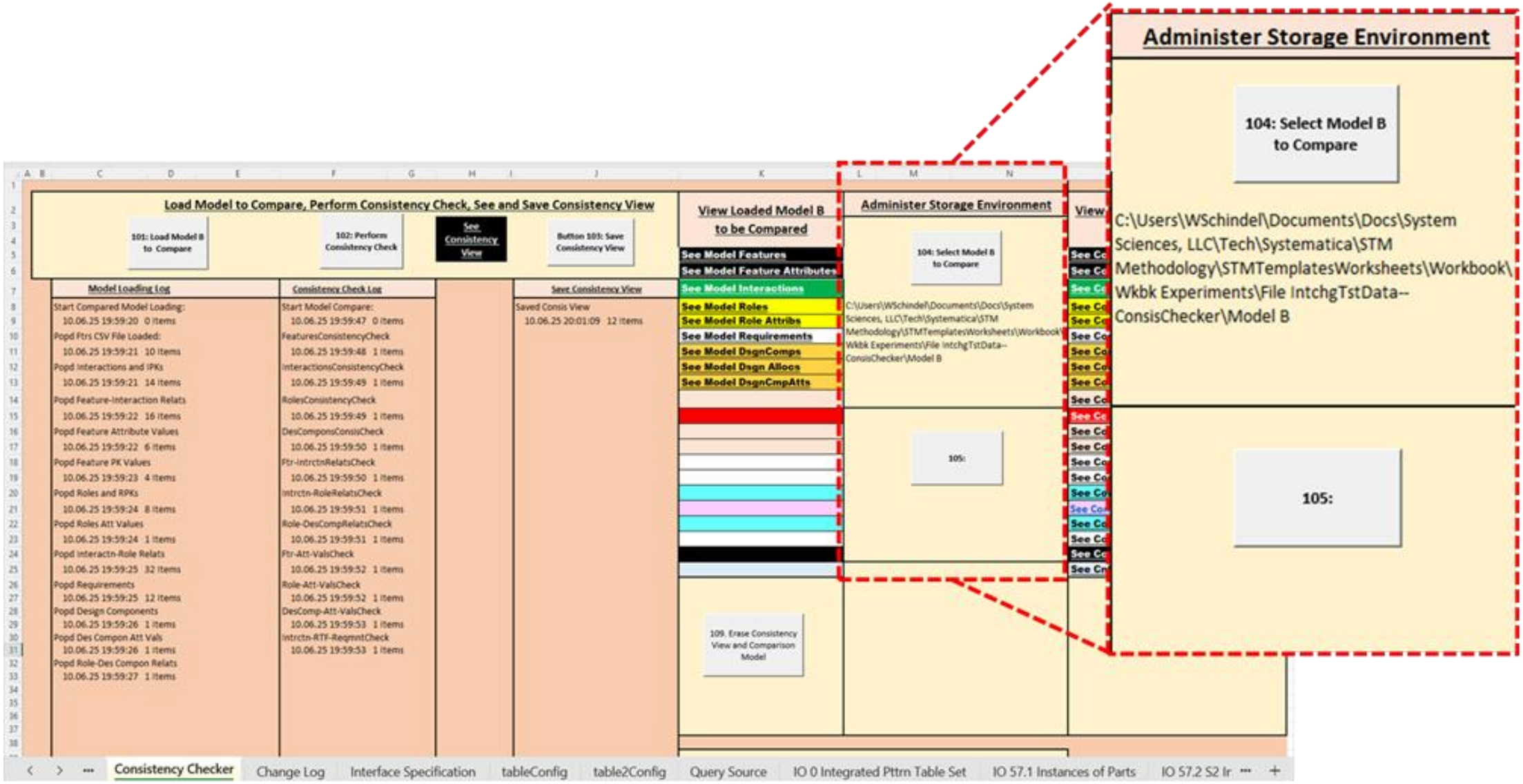
- The historical core capability of the S*Pattern Configuration Wizard is the ability to generate a configured S*Model (see S*Model A below) from an S*Pattern and user input.
- A newer capability is the ability to compare such a generated S*Model A to another S*Model (see Model B below), detecting and analyzing any inconsistencies (differences), shown in a Models Consistency View.
- The second Model (B) may also have been generated by such a configuration process, but that need not be the case—Model B can be any S*Model generated by any means, as long as it is presented to the wizard in a specified S*Model comparison format, listed here.



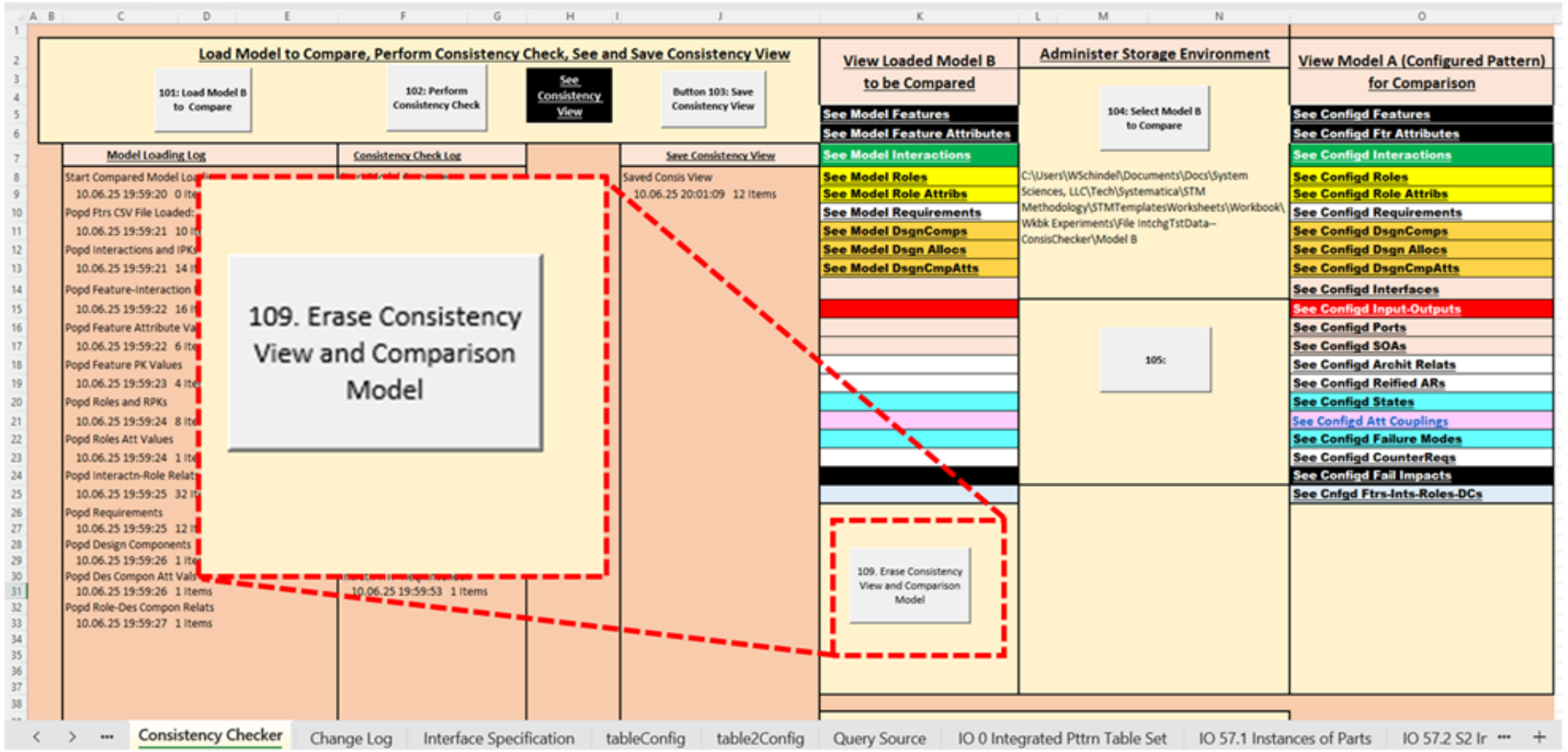
# New: Model Comparison Control Panel, including Buttons 101-103



# Button 104-- Select Location of Model (B) to Compare



# Button 109 erase information inside the Configuration Wizard, for confidentiality



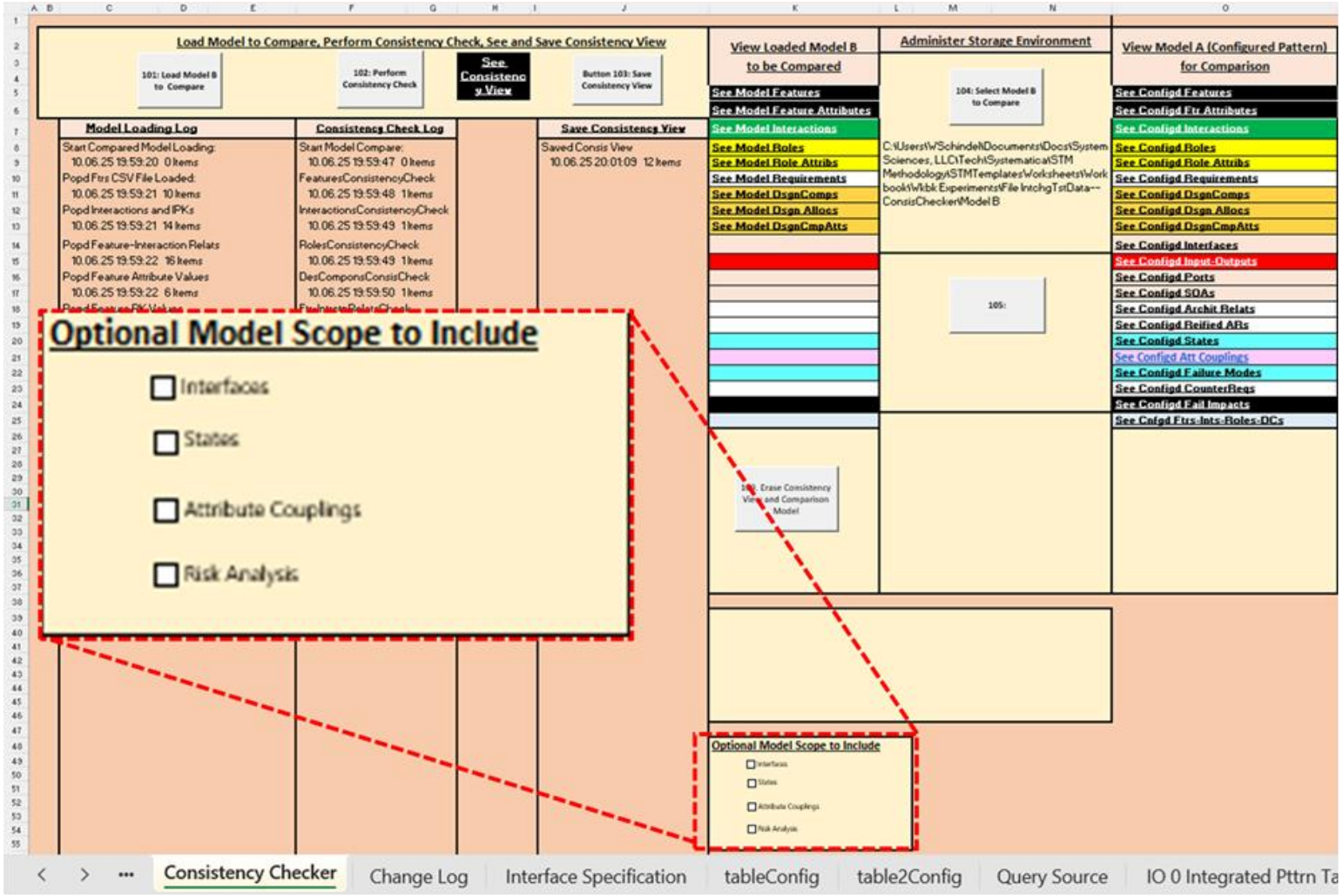
# Scope of Model Comparisons

**Base, always compared**:

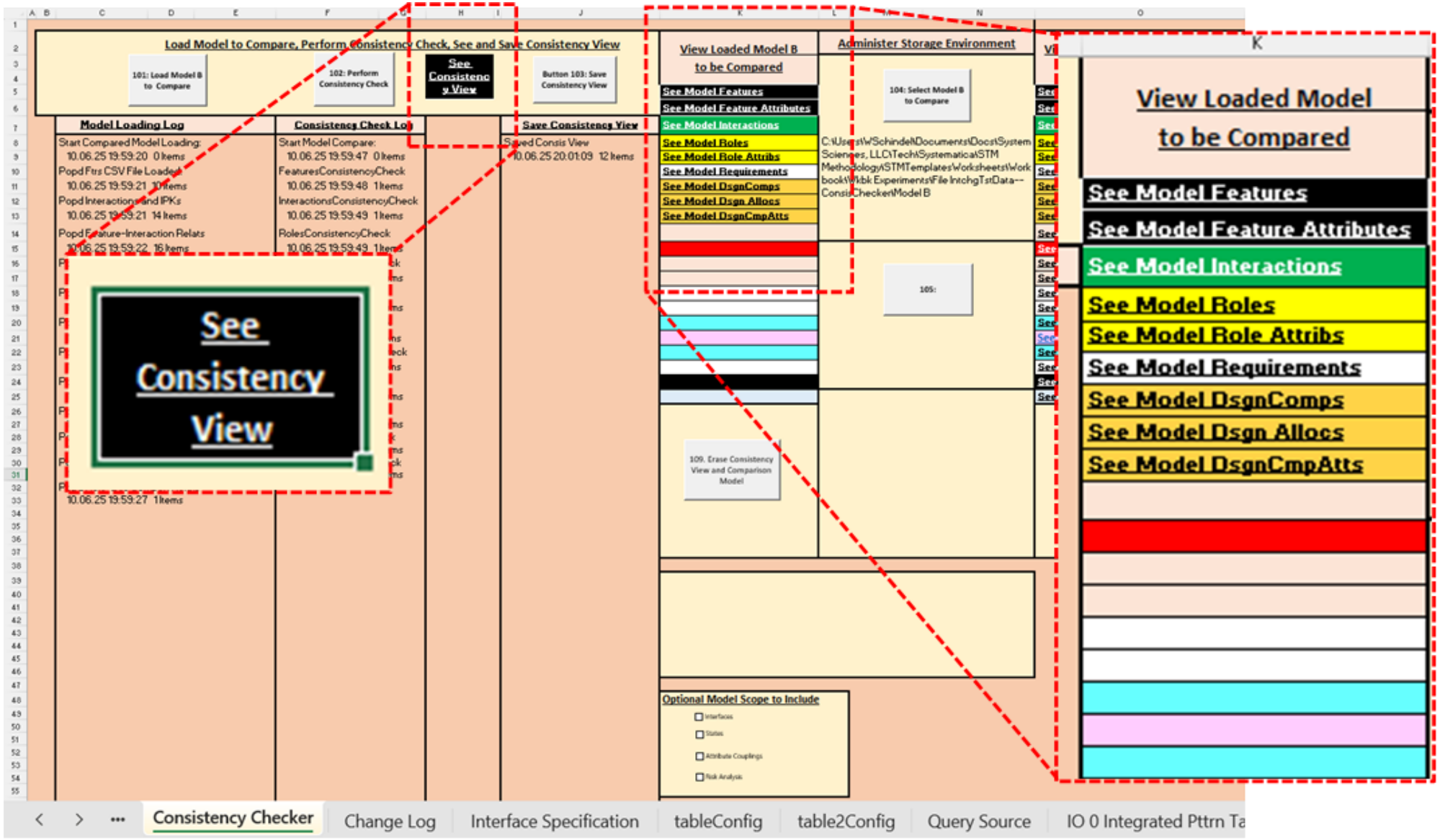
- HLR-DLR-HLD (High Level Requirements, Detail Level Requirements, High Level Design (Currently implemented)

**Options**:

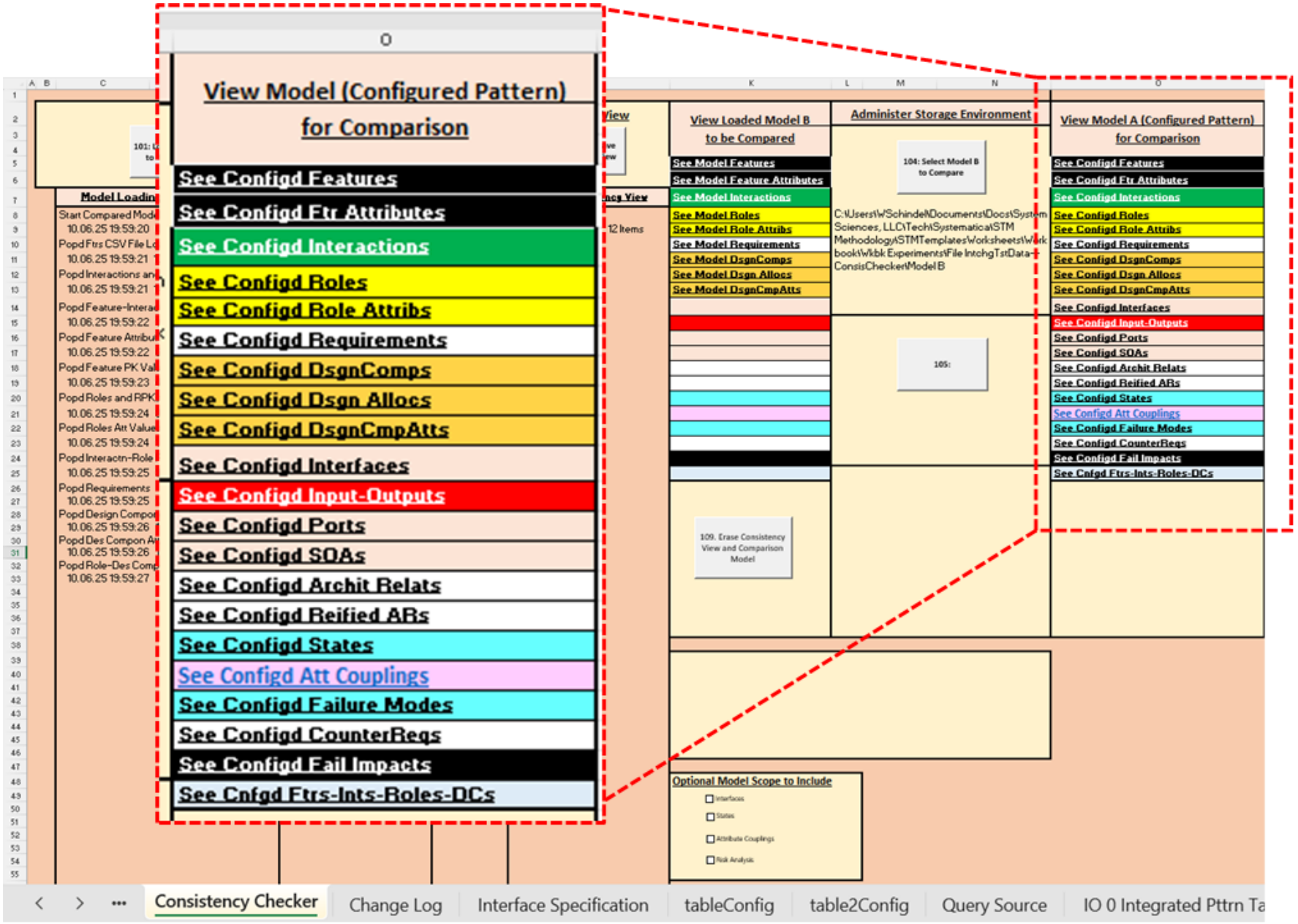
- Interface Context Model Checkbox: (Not currently implemented.)
- State Model Checkbox: (Not currently implemented.)
- Attribute Coupling Model Checkbox: (Not currently implemented.)
- Risk (FMEA) Model Checkbox: (Not currently implemented.)



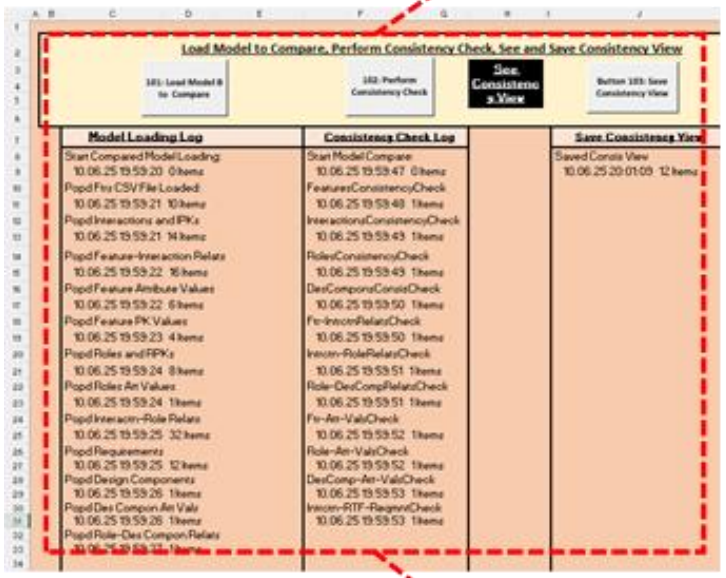
# Navigation Links to the Consistency View, and to view the Compared Model (B)



# Navigation Links to the view the Configured Model (Model A)



# Progress and Error Logs for Consistency Checking



Load Model to Compare, Perform Consistency Check, See and Save Consistency View

101: Load Model B to Compare | 102: Perform Consistency Check | See Consistency View | Button 103: Save Consistency View

| Model Loading Log | Consistency Check Log | | Save Consistency View |
|---|---|---|---|
| Start Compared Model Loading: | Start Model Compare: | | Saved Consis View |
| 10.06.25 19:59:20 0 Items | 10.06.25 19:59:47 0 Items | | 10.06.25 20:01:09 12 Items |
| Popd Ftrs CSV File Loaded: | FeaturesConsistencyCheck | | |
| 10.06.25 19:59:21 10 Items | 10.06.25 19:59:48 1 Items | | |
| Popd Interactions and IPKs | InteractionsConsistencyCheck | | |
| 10.06.25 19:59:21 14 Items | 10.06.25 19:59:49 1 Items | | |
| Popd Feature-Interaction Relats | RolesConsistencyCheck | | |
| 10.06.25 19:59:22 16 Items | 10.06.25 19:59:49 1 Items | | |
| Popd Feature Attribute Values | DesComponsConsisCheck | | |
| 10.06.25 19:59:22 6 Items | 10.06.25 19:59:50 1 Items | | |
| Popd Feature PK Values | Ftr-IntrotnRelatsCheck | | |
| 10.06.25 19:59:23 4 Items | 10.06.25 19:59:50 1 Items | | |
| Popd Roles and RPKs | Introtn-RoleRelatsCheck | | |
| 10.06.25 19:59:24 8 Items | 10.06.25 19:59:51 1 Items | | |
| Popd Roles Att Values | Role-DesCompRelatsCheck | | |
| 10.06.25 19:59:24 1 Items | 10.06.25 19:59:51 1 Items | | |
| Popd Interactn-Role Relats | Ftr-Att-ValsCheck | | |
| 10.06.25 19:59:25 32 Items | 10.06.25 19:59:52 1 Items | | |
| Popd Requirements | Role-Att-ValsCheck | | |
| 10.06.25 19:59:25 12 Items | 10.06.25 19:59:52 1 Items | | |
| Popd Design Components | DesComp-Att-ValsCheck | | |
| 10.06.25 19:59:26 1 Items | 10.06.25 19:59:53 1 Items | | |
| Popd Des Compon Att Vals | Introtn-RTF-ReqmntCheck | | |
| 10.06.25 19:59:26 1 Items | 10.06.25 19:59:53 1 Items | | |
| Popd Role-Des Compon Relats | | | |
| 10.06.25 19:59:27 1 Items | | | |

# Example Consistency View – Collapsed to Summary Level

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Model Segment | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | Model A Segment Size | Count In B Not A | Model B Segment Size | Count In A Not B | Inconsistency--Cosine Distance | 33 |
| 2 | FeaturesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 8 | 2 | 10 | 0 | 0.670820393 | 2 |
| 5 | InteractionsConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 11 | 3 | 14 | 0 | 0.644658371 | 2 |
| 9 | RolesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 7 | 1 | 8 | 0 | 0.801783726 | 2 |
| 11 | DesComponsConsisCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 12 | Ftr-IntrctnRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 13 | 3 | 16 | 0 | 0.693375245 | 2 |
| 16 | Intrctn-RoleRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 24 | 8 | 32 | 0 | 0.577350269 | 2 |
| 25 | Role-DesCompRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 26 | Ftr-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 5 | 1 | 6 | 0 | 0.730296743 | 2 |
| 28 | Role-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 29 | DesComp-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 30 | Intrctn-RTF-ReqmntCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 9 | 3 | 12 | 0 | 0.577350269 | 2 |

- **Model Segment**: Shows which S*Metamodel classes, relationships, or attributes are the focus of each row of the report.
- **In Compared Model, Not Configured Pattern**: This column shows inconsistencies between the two compared models, in which model content is present in the Compared Model but not present in the Configured Pattern Model. Blank cells in this column indicate no such inconsistencies were detected. Data in this column is the name or names of a model class, relationship, or attribute, or value of an attribute.
- **In Configured Pattern, Not Compared Model**: This column shows inconsistencies between the two compared models, in which model content not present in the Compared Model for items present in the Configured Pattern Model. Blank cells in this column indicate no such inconsistencies were detected. Data in this column is the name or names of a model class, relationship, or attribute, or value of an attribute.
- **Model A Segment Size**: Highlighted (shaded) rows show accumulated number of instances encountered in Model A, whether consistent with Model B or not, for the Model Segment type in the first column.
- **Count in B Not A:** Highlighted (shaded) rows show the accumulated number of inconsistences where Model B content items were not found in Model A.
- **Model B Segment Size**: Highlighted (shaded) rows show accumulated number of instances encountered in Model B, whether consistent with Model A or not, for the Model Segment type in the first column.
- **Count in A Not B**: Highlighted (shaded) rows show the accumulated number of inconsistencies where Model A content items were not found in Model B.
- **Inconsistency—Cosine Distance**: This is a summary metric of the level of consistency between the Model A and Model B segment of the type shown in the (left side) Model Segment column. The Cosine Metric expresses inconsistency distance with numbers in the interval [0,1], where 1 represents total consistency and 0 represents total inconsistency (both orthogonality as well as quantitative numeric).

## Example Consistency View – Collapsed to Summary Level

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Model Segment | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | Model A Segment Size | Count In B Not A | Model B Segment Size | Count In A Not B | Inconsistency--Cosine Distance | 33 |
| 2 | FeaturesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 8 | 2 | 10 | 0 | 0.670820393 | 2 |
| 5 | InteractionsConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 11 | 3 | 14 | 0 | 0.644658371 | 2 |
| 9 | RolesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 7 | 1 | 8 | 0 | 0.801783726 | 2 |
| 11 | DesComponsConsisCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 12 | Ftr-IntrctnRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 13 | 3 | 16 | 0 | 0.693375245 | 2 |
| 16 | Intrctn-RoleRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 24 | 8 | 32 | 0 | 0.577350269 | 2 |
| 25 | Role-DesCompRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 26 | Ftr-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 5 | 1 | 6 | 0 | 0.730296743 | 2 |
| 28 | Role-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 29 | DesComp-Att-ValsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 30 | Intrctn-RTF-ReqmntCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 9 | 3 | 12 | 0 | 0.577350269 | 2 |

# Same Consistency View—Expanded to Show Details of Inconsistencies

| | A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Model Segment | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | Model A Segment Size | Count In B Not A | Model B Segment Size | Count In A Not B | Inconsistency--Cosine Distance | 33 |
| 2 | FeaturesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 8 | 2 | 10 | 0 | 0.670820393 | 2 |
| 3 | FeaturesConsistencyCheck | Environmentally Friendly | | | | | | | 3 |
| 4 | FeaturesConsistencyCheck | Powered Devices Compatibility [Power Output 3] | | | | | | | 3 |
| 5 | InteractionsConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 11 | 3 | 14 | 0 | 0.644658371 | 2 |
| 6 | InteractionsConsistencyCheck | Convert Electrical Power [Power Output 3] | | | | | | | 3 |
| 7 | InteractionsConsistencyCheck | Recycle Device | | | | | | | 3 |
| 8 | InteractionsConsistencyCheck | Set Configuration [Power Output 3] | | | | | | | 3 |
| 9 | RolesConsistencyCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 7 | 1 | 8 | 0 | 0.801783726 | 2 |
| 10 | RolesConsistencyCheck | Electrically Powered Device [Power Output 3] | | | | | | | 3 |
| 11 | DesComponsConsisCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 1 | 0 | 1 | 0 | 1 | 2 |
| 12 | Ftr-IntrctnRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 13 | 3 | 16 | 0 | 0.693375245 | 2 |
| 13 | Ftr-IntrctnRelatsCheck | Environmentally Friendly - Recycle Device | | | | | | | 3 |
| 14 | Ftr-IntrctnRelatsCheck | Powered Devices Compatibility [Power Output 3] - Convert Electrical Power [Power Output 3] | | | | | | | 3 |
| 15 | Ftr-IntrctnRelatsCheck | Powered Devices Compatibility [Power Output 3] - Set Configuration [Power Output 3] | | | | | | | 3 |
| 16 | Intrctn-RoleRelatsCheck | In Compared Model, Not Configured Pattern | In Configd Pattern, Not Compared Model | 24 | 8 | 32 | 0 | 0.577350269 | 2 |
| | | Convert Electrical Power | | | | | | | |

# Measuring the “cosine” distance between models

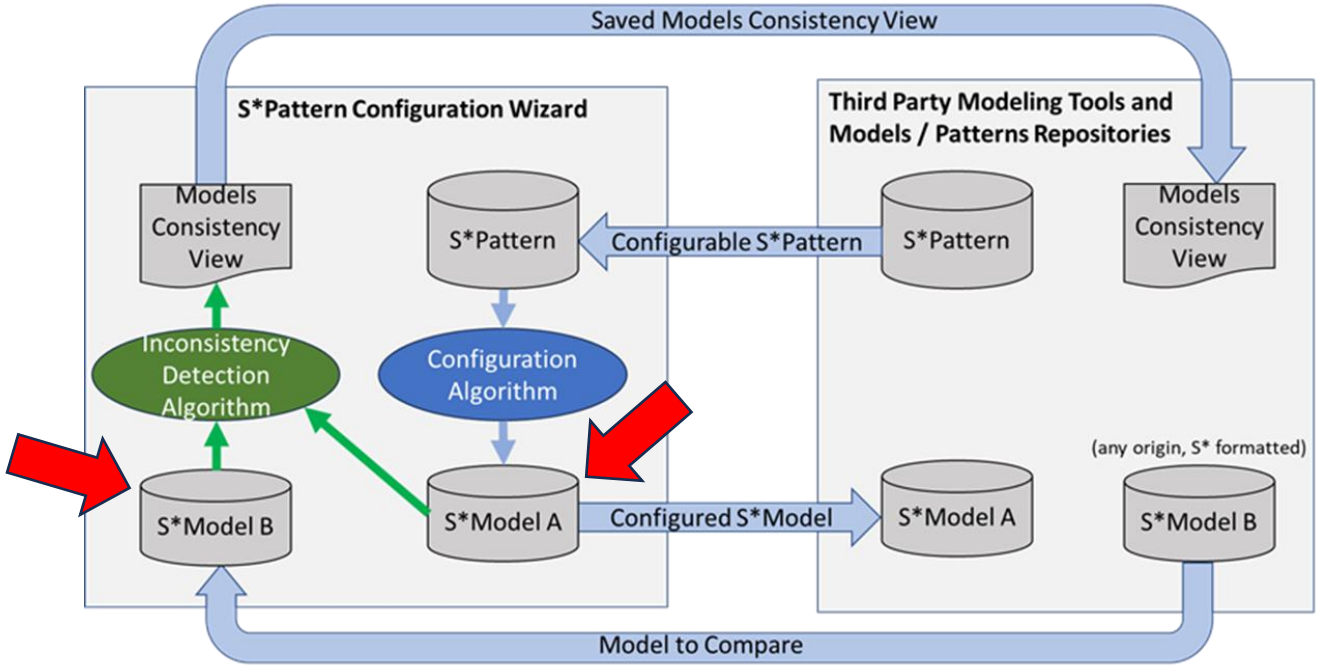
- Configured S*Models can also be understood as vector space projections into S*Pattern subspaces.
- The inter-model consistency view includes a calculated “distance” metric between the compared model segments, as an “angle” between compared model “vectors”.
- Understanding “cosine distance” between inconsistent MBSE model segments in a “metric space” is also part of this mathematical perspective:
  - Always in the range [0-1].
  - 1 means completely consistent (aligned, angle = 0°, cosine = 1).
  - 0 means completely inconsistent (orthogonal, angle = 90°, cosine = 0).
  - Between 0 and 1 means partially consistent, partially inconsistent.
- Although outside the scope of this summary, the related ideas are described further in the above reference.

https://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:is2025_fellows_27_july_v1.2.1.pdf



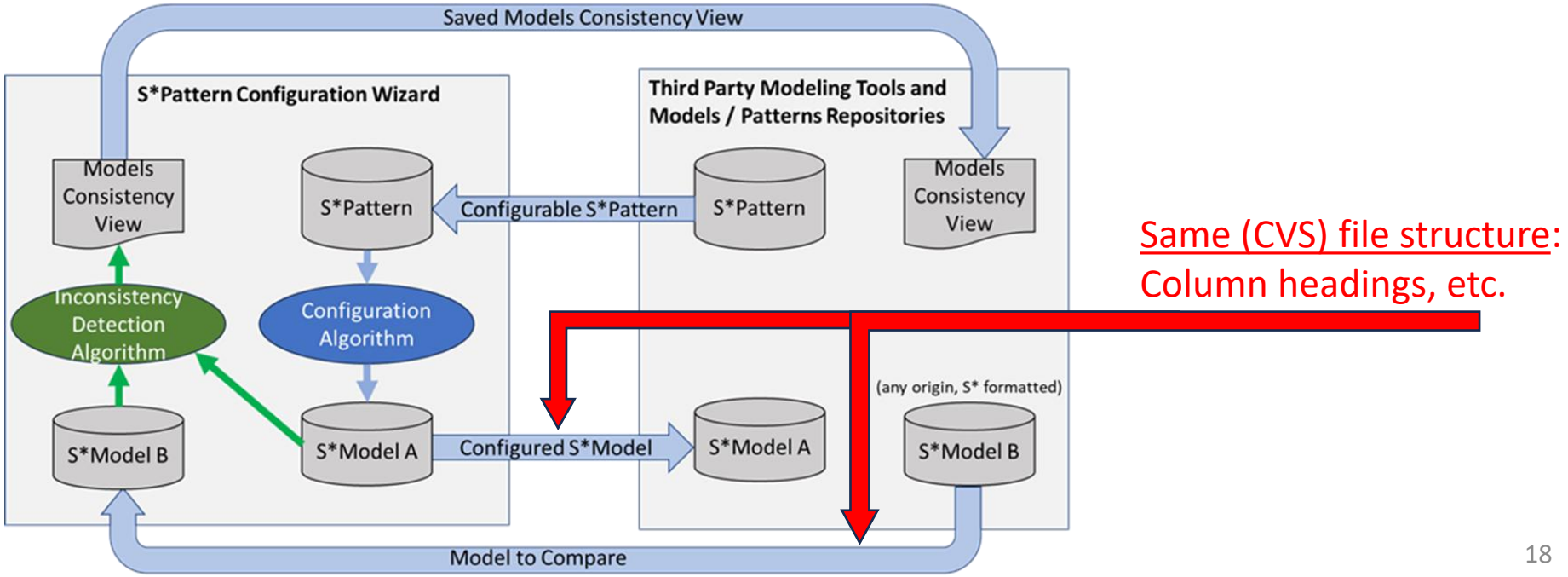
# Form and format of models to be compared

- In a comparison of two models, Model A is “already in the wizard” after a pattern configuration has been performed (using Button 2 of the configuration control panel).
- For a comparison, Model B must be “loaded into the wizard” for comparison (using Button 101 of the comparator control panel).

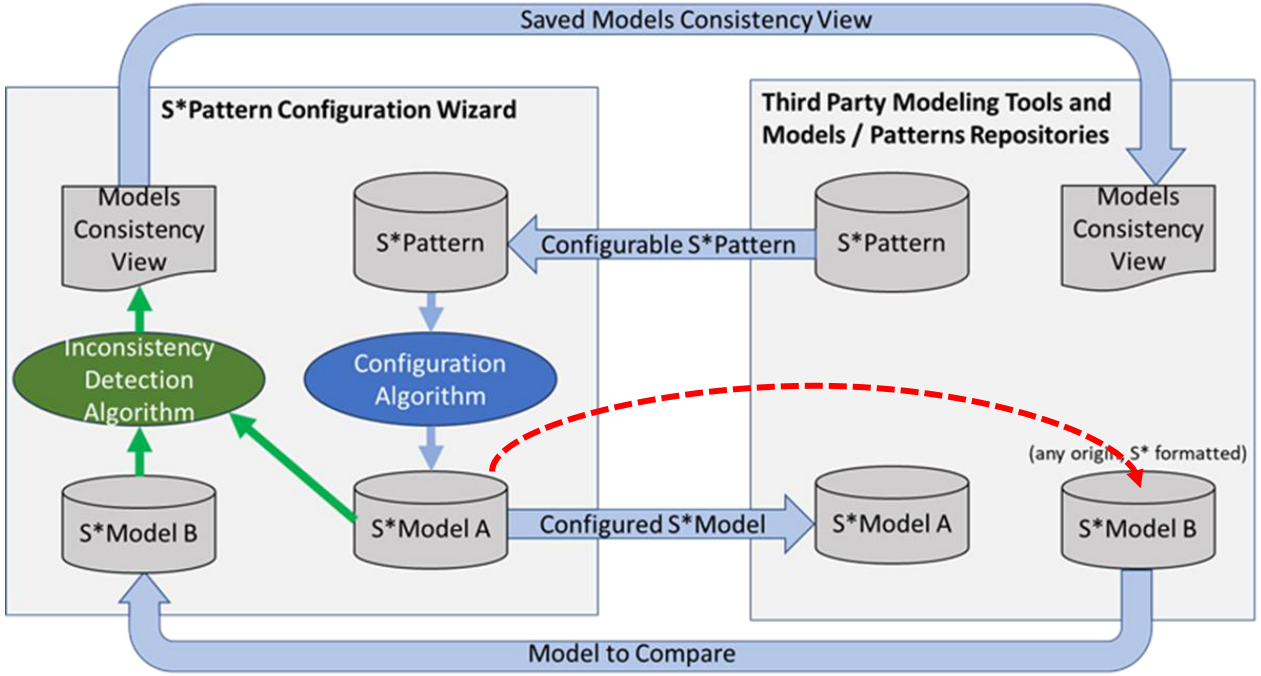


# Form and format of models to be compared

- Model B must also be an S*Model, in the following form:
  - A set of Excel CVS files representing the S*Model, whether generated by hand, or by the S*Pattern Configuration Wizard, or otherwise.
  - These files are inter-program exchange files, not typically intended for human consumption!
  - The file names, column headings, and file contents should exactly agree with the interface specification of Appendix A (or, see also the IO Specification tab build into the Configuration Wizard.)
  - ***Notice that this is precisely the same as the format of a configured model produced by Button 3 on the wizard control tab, where it is for import back into the modeling tool***--



- So, the first time you try a model comparison, a quick test is to use the Configuration Wizard to generate two different configured model file sets, by means of Button 3 of the configuration panel, saving one as “Model A” and the other as “Model B”.
  - This will also provide you with a working example of the file format of Appendix A.
  - And the comparison process should report that the two models are exactly consistent, if you configure the same model the same way both times—or inconsistent, if not.



# Discussion, questions

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- 
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# References


1. “Guide to the  S*Pattern Configuration Wizard ”, V1.5.12, INCOSE MBSE Patterns Working Group. Oct 13, 2025.
2. “S*Pattern Configuration Wizard: Internals Introduction”, V1.2.3, System Sciences, LLC. October, 2025.
3. “Vector Spaces, Projections, Patterns: Support for MBSE, Learning, and Trust”, V1.2.1. INCOSE MBSE Patterns Working Group, 2025. Download from -- https://www.omgwiki.org/MBSE/lib/exe/fetch.php?media=mbse:patterns:is2025_fellows_27_july_v1.2.1.pdf

# **Appendix A**: The S*Model Comparison Format for Model B

| IO # | CSV File Name | Col # | Column Heading | Meaning and Notes |
|---|---|---|---|---|
| IO 7-AA | 1-D Popd Features and PKVs | 1 | Configured Feature Name | Includes appended bracketed FPK Value. |
| IO 7-AA | 1-D Popd Features and PKVs | 2 | Pattern Feature | Use Qualified Name *** |
| IO 7-AA | 1-D Popd Features and PKVs | 3 | Owner | "02 Configured Model::01 Feature Framework::04 Features“ *** |
| IO 7-AA | 1-D Popd Features and PKVs | 4 | Configured Feature | Use Qualified Name *** |
| IO 8-AA | Popd Interactions and IPKs | 1 | Configured Interaction Name | Includes appended bracketed IPK Value. |
| IO 8-AA | Popd Interactions and IPKs | 2 | Interaction PK Rule | This column is unused.*** |
| IO 8-AA | Popd Interactions and IPKs | 3 | Pattern Interaction | Use Qualified Name *** |
| IO 8-AA | Popd Interactions and IPKs | 4 | Owner | "02 Configured Model::03 Interaction Framework“*** |
| IO 8-AA | Popd Interactions and IPKs | 5 | Configured Interaction | Use Qualified Name *** |
| IO 9-AA | Popd Feature-Interaction Relats | 1 | Configured Feature Name | Use Qualified Name. Configured name includes appended bracketed FPK Value. |
| IO 9-AA | Popd Feature-Interaction Relats | 2 | Configured Interaction Name | Use Qualified Name. Configured name includes appended bracketed IPK Value. |
| IO 9-AA | Popd Feature-Interaction Relats | 3 | Feature Aggregation Kind | "none" (for use in modeling tool import mapping)*** |
| IO 9-AA | Popd Feature-Interaction Relats | 4 | Interaction Aggregation Kind | "shared" (for use in modeling tool import mapping)*** |
| IO 9-AA | Popd Feature-Interaction Relats | 5 | End Navigability | "TRUE" (for use in modeling tool import mapping)*** |
| IO 9-AA | Popd Feature-Interaction Relats | 6 | Owner | “02 Configured Model::03 Interaction Framework”*** |
| IO 9-AA | Popd Feature-Interaction Relats | 7 | End Navigability 2 | "TRUE" (for use in modeling tool import mapping)*** |
| IO 10-AA | Popd Feature Attribute Values | 1 | Configured Feature Name | Includes bracketed FPK Value; no brackets if no FPKA. |
| IO 10-AA | Popd Feature Attribute Values | 2 | Configured Feature Attribute | Name of non-PK attribute |
| IO 10-AA | Popd Feature Attribute Values | 3 | Configured Attribute Value | User inserted attribute value |
| IO 11-AA | Popd Feature Primary Key Values | 1 | Configured Feature | Includes appended bracketed FPK Value. |
| IO 11-AA | Popd Feature Primary Key Values | 2 | Feature Primary Key | Name of FPK attribute |
| IO 11-AA | Popd Feature Primary Key Values | 3 | Feature Primary Key Value | Value of FPK attribute |
| IO 12-AA | Popd Roles and RPKs | 1 | Configured Role Name | Includes appended bracketed RPK Value. |
| IO 12-AA | Popd Roles and RPKs | 2 | Pattern Role | Use Qualified Name *** |
| IO 12-AA | Popd Roles and RPKs | 3 | Owner | "02 Configured Model::02 Logical System Analysis“*** |
| IO 12-AA | Popd Roles and RPKs | 4 | Configured Role | Use Qualified Name *** |
| IO 13-AA | Popd Role Attribute Values | 1 | Configured Role Name | Configured name includes appended bracketed FPK Value. |
| IO 13-AA | Popd Role Attribute Values | 2 | Configured Role Attribute Name | Name of Role Attribute |
| IO 13-AA | Popd Role Attribute Values | 3 | Configured Role Attribute Value | User inserted Role Attribute value |
| IO 14-AA | Popd Interaction-Role Relats | 1 | Configured Interaction Name | Use Qualified Name. Configured name includes appended bracketed IPK Value. |
| IO 14-AA | Popd Interaction-Role Relats | 2 | Configured Role Name | Use Qualified Name. Configured name includes appended bracketed RPK Value. |
| IO 14-AA | Popd Interaction-Role Relats | 3 | Interaction Aggregation Kind | "none" (for use in modeling tool import mapping)*** |
| IO 14-AA | Popd Interaction-Role Relats | 4 | Role Aggregation Kind | "shared" (for use in modeling tool import mapping)*** |
| IO 14-AA | Popd Interaction-Role Relats | 5 | End Navigability | "TRUE" (for use in modeling tool import mapping)*** |
| IO 14-AA | Popd Interaction-Role Relats | 6 | Owner | “02 Configured Model::03 Interaction Framework”*** |
| IO 14-AA | Popd Interaction-Role Relats | 7 | Configured RTF, Qualified Name | Use Qualified Name. Configured Interaction-Role Pair Name of RTF. |
| IO 14-AA | Popd Interaction-Role Relats | 8 | Configured RTF | Configured name of Reqs Xfer Fct, including PK |
| IO 14-AA | Popd Interaction-Role Relats | 9 | RTF Owning Interaction | Use qualified name |
| IO 14-AA | Popd Interaction-Role Relats | 10 | EA RTFA Owning Activity | *** |
| IO 14-AA | Popd Interaction-Role Relats | 11 | EA RTF Allocation | *** |
| IO 14-AA | Popd Interaction-Role Relats | 12 | EA Configured RTF, Qualified Name | *** |
| IO 14-AA | Popd Interaction-Role Relats | 13 | End Navigability 2 | "TRUE" (for use in modeling tool import mapping) *** |

| IO # | CSV File Name | Col # | Column Heading | Meaning and Notes |
|---|---|---|---|---|
| IO 15-AA | Popd Physical Systems and PSPKs | 1 | Configured Physical System Name | Configured name includes appended bracketed PSPK (DCPK) Value. |
| IO 15-AA | Popd Physical Systems and PSPKs | 2 | Pattern Physical System | Use Qualified Name *** |
| IO 15-AA | Popd Physical Systems and PSPKs | 3 | Owner | "02 Configured Model::04 Physical Architecture“*** |
| IO 15-AA | Popd Physical Systems and PSPKs | 4 | Configured Physical System | Use Qualified Name. *** |
| IO 15-AA | Popd Physical Systems and PSPKs | 5 | DCPK Value | Value of PK attribute of Design Component *** |
| IO 15-AA | Popd Physical Systems and PSPKs | 6 | Des Compon Name, Unconfigured | *** |
| IO 16-AA | Popd Physical System Attributes | 1 | Configured Physical System Name | Configured name includes appended bracketed FPK Value. |
| IO 16-AA | Popd Physical System Attributes | 2 | Configured Physical System Attribute | Name of non-PK attribute |
| IO 16-AA | Popd Physical System Attributes | 3 | Configured Physical System Attribute Value | User inserted attribute value |
| IO 17-AA | Popd Role-Design Relats | 1 | Configured Role Name | Use Qualified Name. Configured name includes appended bracketed RPK Value. |
| IO 17-AA | Popd Role-Design Relats | 2 | Configured Physical System Name | Use Qualified Name. Configured name includes appended bracketed PSPK Value. |
| IO 17-AA | Popd Role-Design Relats | 3 | Role Aggregation Kind | "none" (for use in modeling tool import mapping)*** |
| IO 17-AA | Popd Role-Design Relats | 4 | Physical System Aggregation Kind | "shared" (for use in modeling tool import mapping)*** |
| IO 17-AA | Popd Role-Design Relats | 5 | End Navigability | "TRUE" (for use in modeling tool import mapping)*** |
| IO 17-AA | Popd Role-Design Relats | 6 | Owner | “02 Configured Model::04 Physical Architecture”*** |
| IO 25-AA | Popd Requirements | 1 | Configured Requirement ID | Configured name includes appended bracketed PK Value. |
| IO 25-AA | Popd Requirements | 2 | Requirement Statement | Configured name includes appended bracketed PK Value. |
| IO 25-AA | Popd Requirements | 3 | Owning Interaction | Qualif name of configured Interaction owning the Requirement |
| IO 25-AA | Popd Requirements | 4 | Configured Requirement ID, Qualified Name | Use Qualified Name in configured model package |
| IO 25-AA | Popd Requirements | 5 | Configured RTF, Qualified Name | Qualified Name of Interaction-Role Pair (RTF) |
| IO 25-AA | Popd Requirements | 6 | Owning Package | 02 Configured Model::03 Interaction Framework“ *** |
| IO 25-AA | Popd Requirements | 7 | Requirement ID | Number of short unique ID of Requirement ***. |
| IO 25-AA | Popd Requirements | 8 | RSPK Value | Value of Requirement Statement’s PK *** |
| IO 25-AA | Popd Requirements | 9 | EA Configured RTF Qualified Name | Qualified name of configured RTF, for EA import.*** |

**Notes**:

1. “-AA” suffixes in “IO #” column above indicate Model B input files for comparison, which have the same file names, content, and format as the identically-numbered (without suffix) output files produced by the Configuration Wizard as Configured Model (A) files.
2. “Qualified Name” in “Meaning and Notes” above refers to the “long name” version of a class name, in which the “short name” is preceded by a longer string of the full containment parentage of that class. This is mainly used for importing models back into the MBSE modeling tool data space. If file only for Model Comparison input, that prefix is not required before the class name itself.
3. “***” in “Meaning and Notes” above indicate columns which are not required if only used as input to Model Comparison feature of Configuration Wizard. Those are solely for compatibility with MBSE modeling tool import.