SmartPlant Instrumentation

Entity Relationship Diagrams

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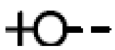
Contents

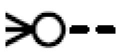
Entity Relationship Diagrams (ERDs)

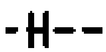
Entity relationship diagrams are schematic drawings showing the relationships between various table columns (entities) in the database. They are useful if you want to import data into SmartPlant Instrumentation, and need to consider the logical sequence of data entry to maintain its integrity.

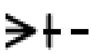
Meanings of ERD Symbols

Connecting lines between entities indicates a relationship exists between the entities. The degrees of relationship (cardinality) are displayed by the symbols next to the entities on the connecting relationship line.

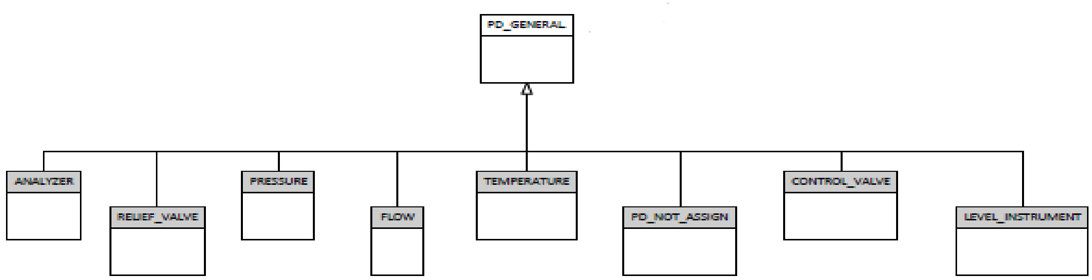
 Indicates: one or zero.

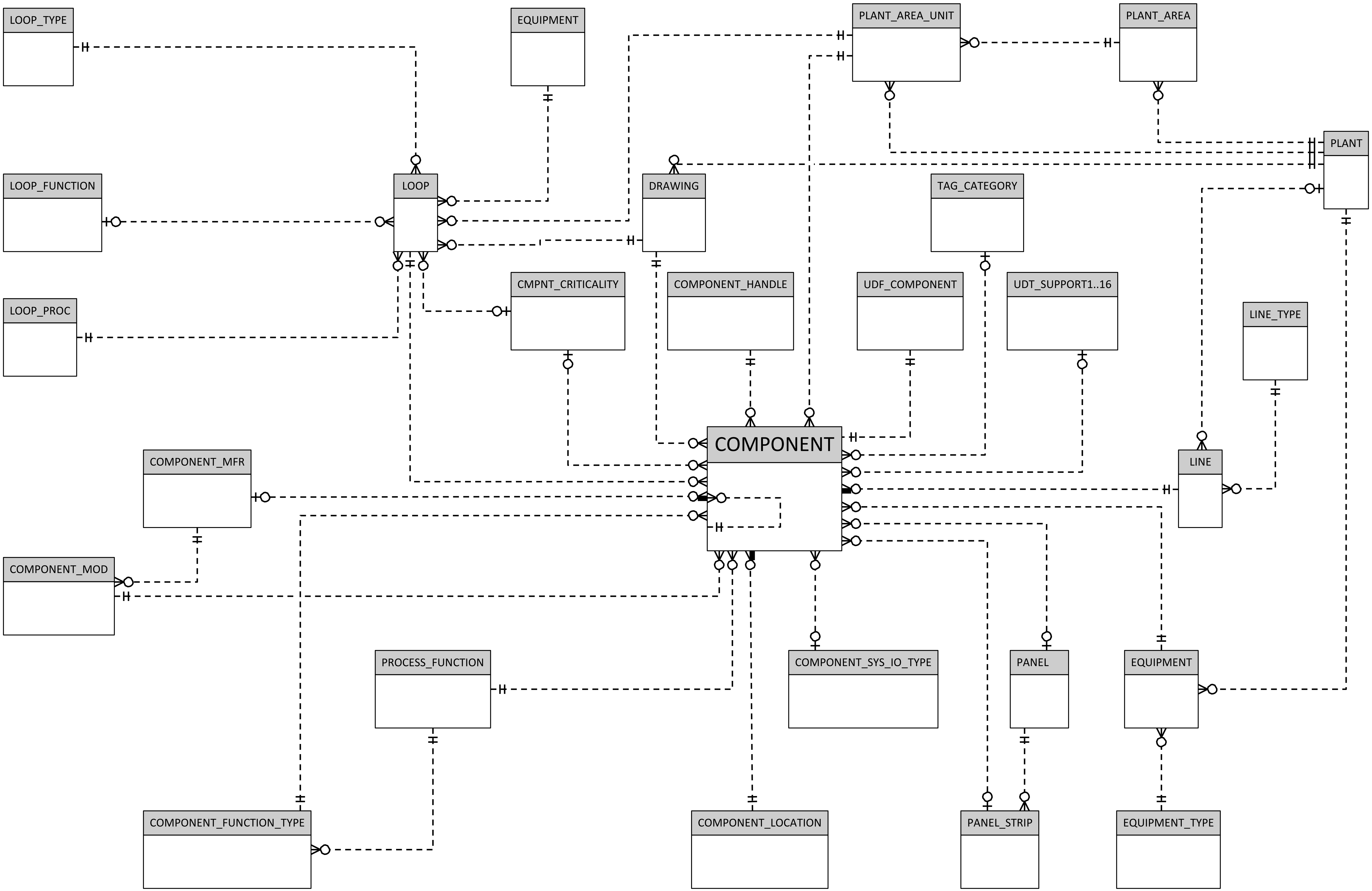
 Indicates: zero or many.

 Indicates: one and only one.

 Indicates: one or many.

A closed arrow next to an entity indicates an inheritance relationship. In the example below, the closed arrow indicates that the Analyzer, Relief_Valve, Pressure, and so forth, inherits structure and behavior from the Process Data General entity.

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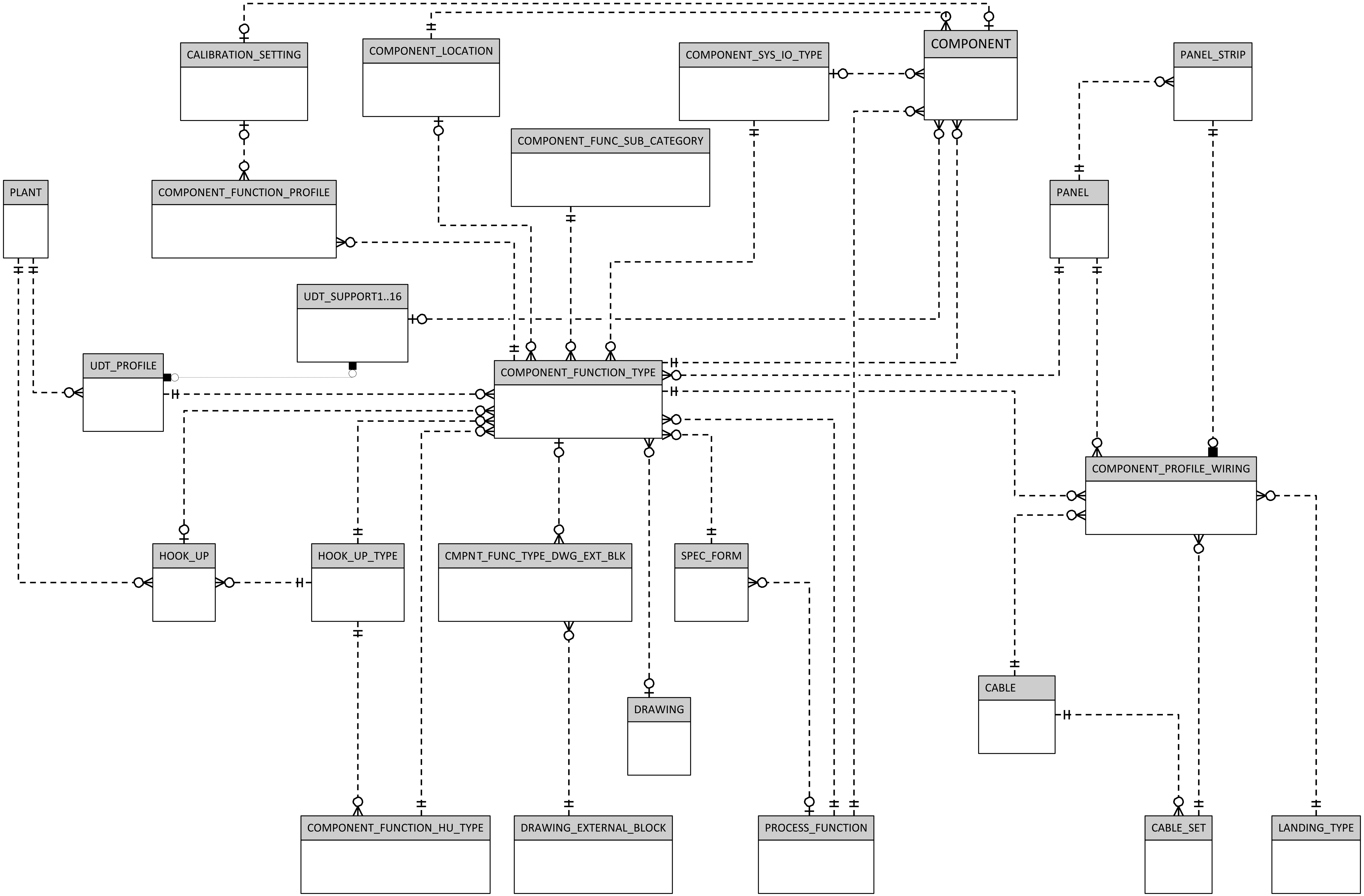
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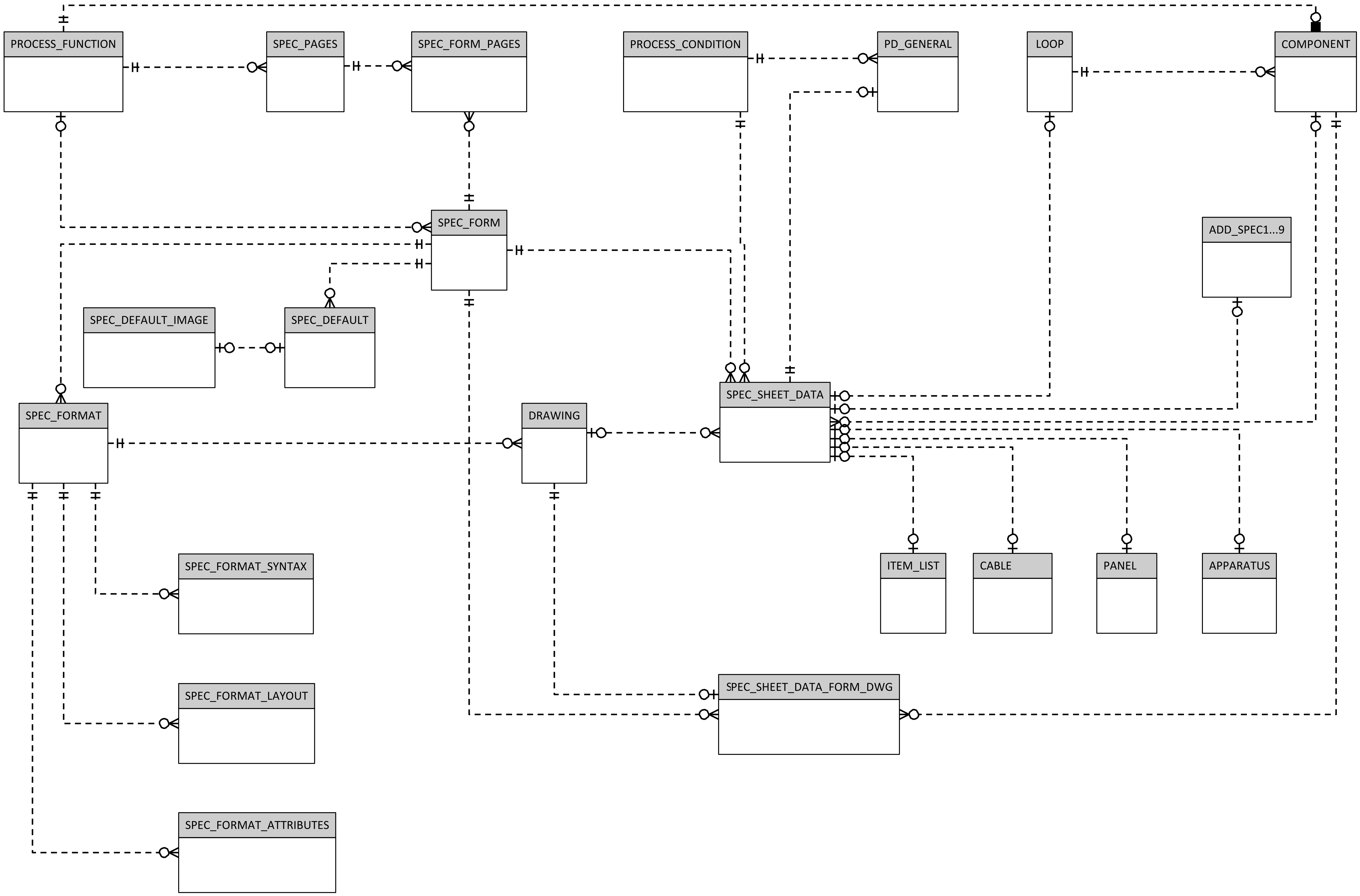

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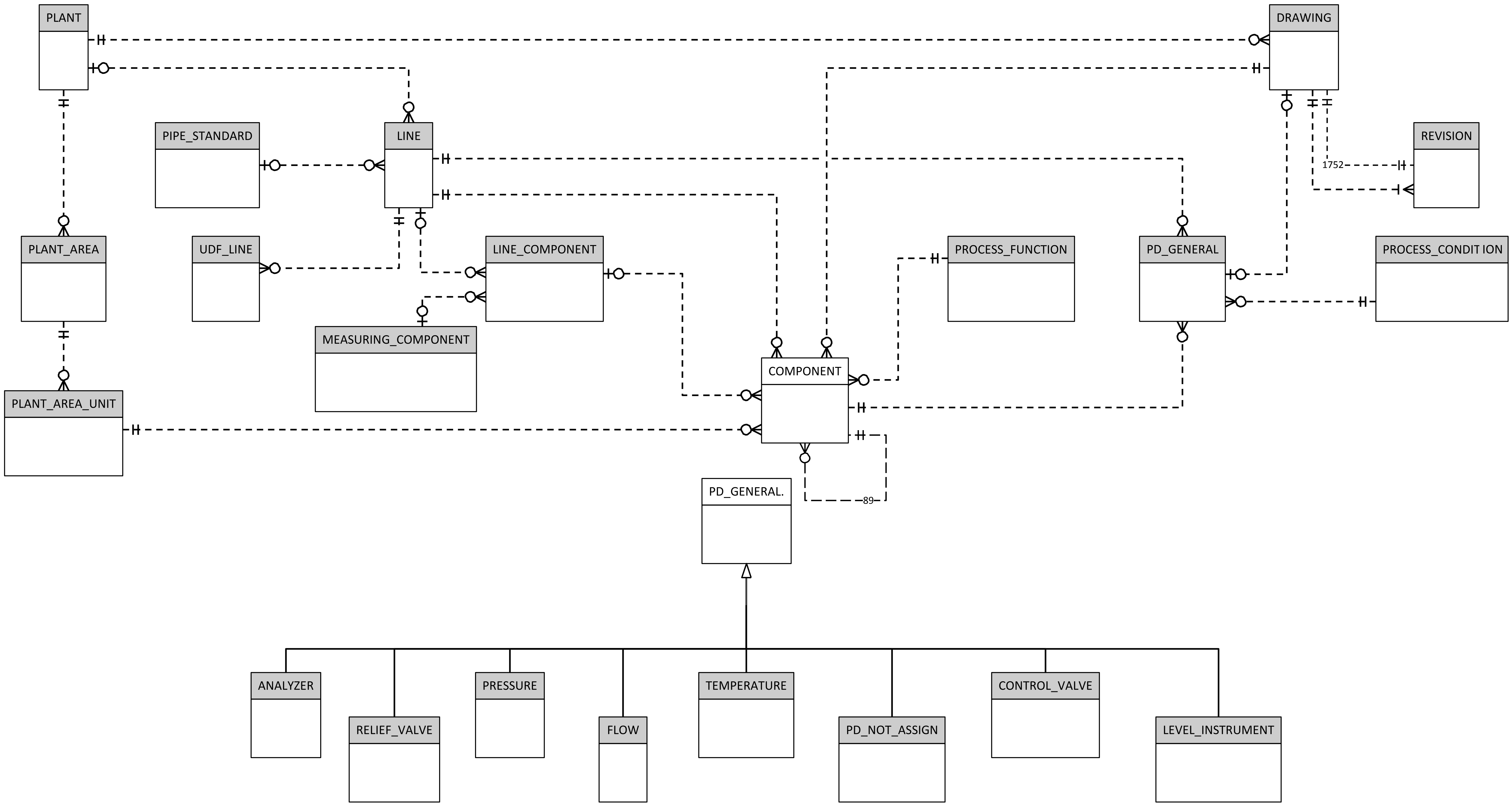
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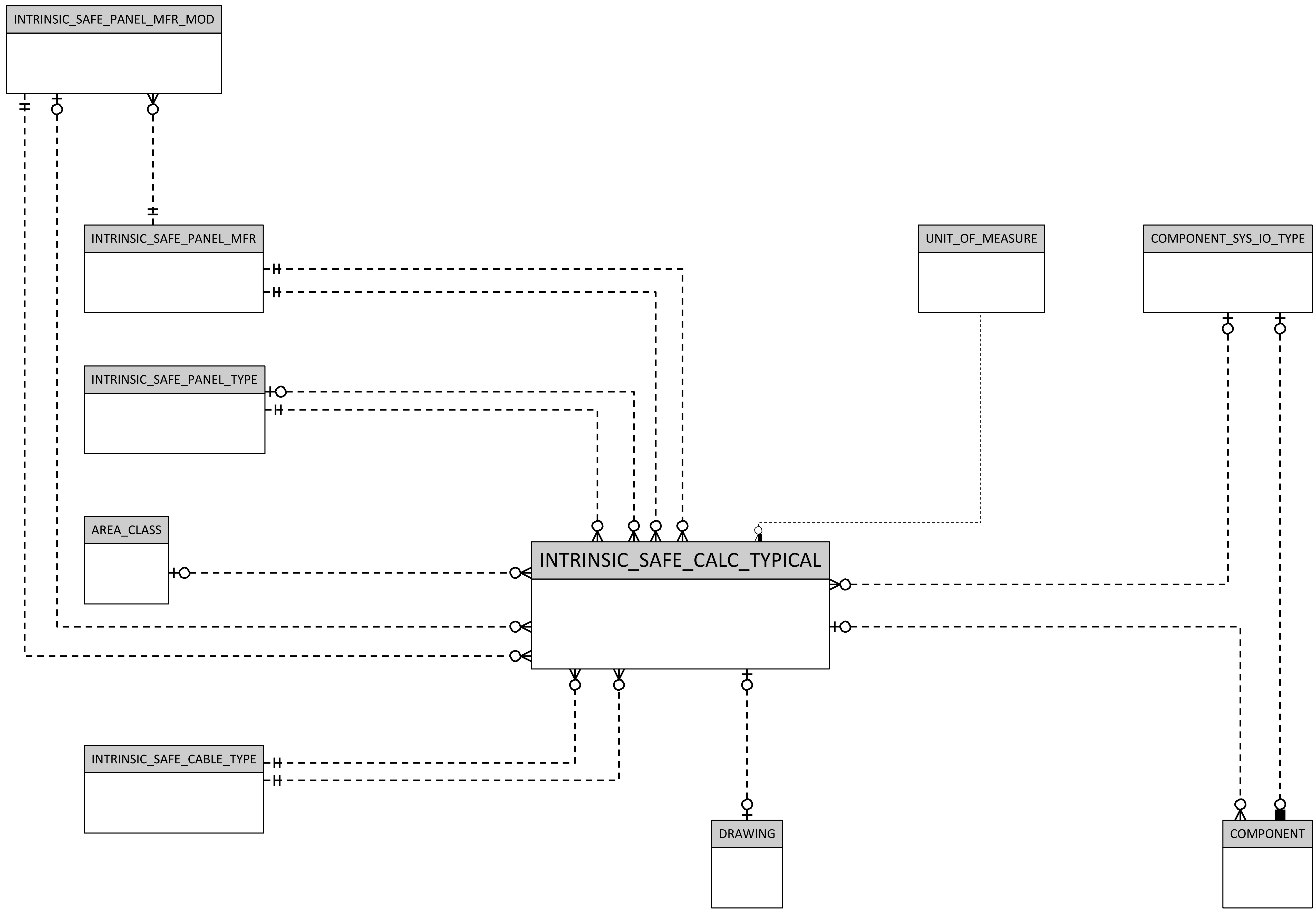
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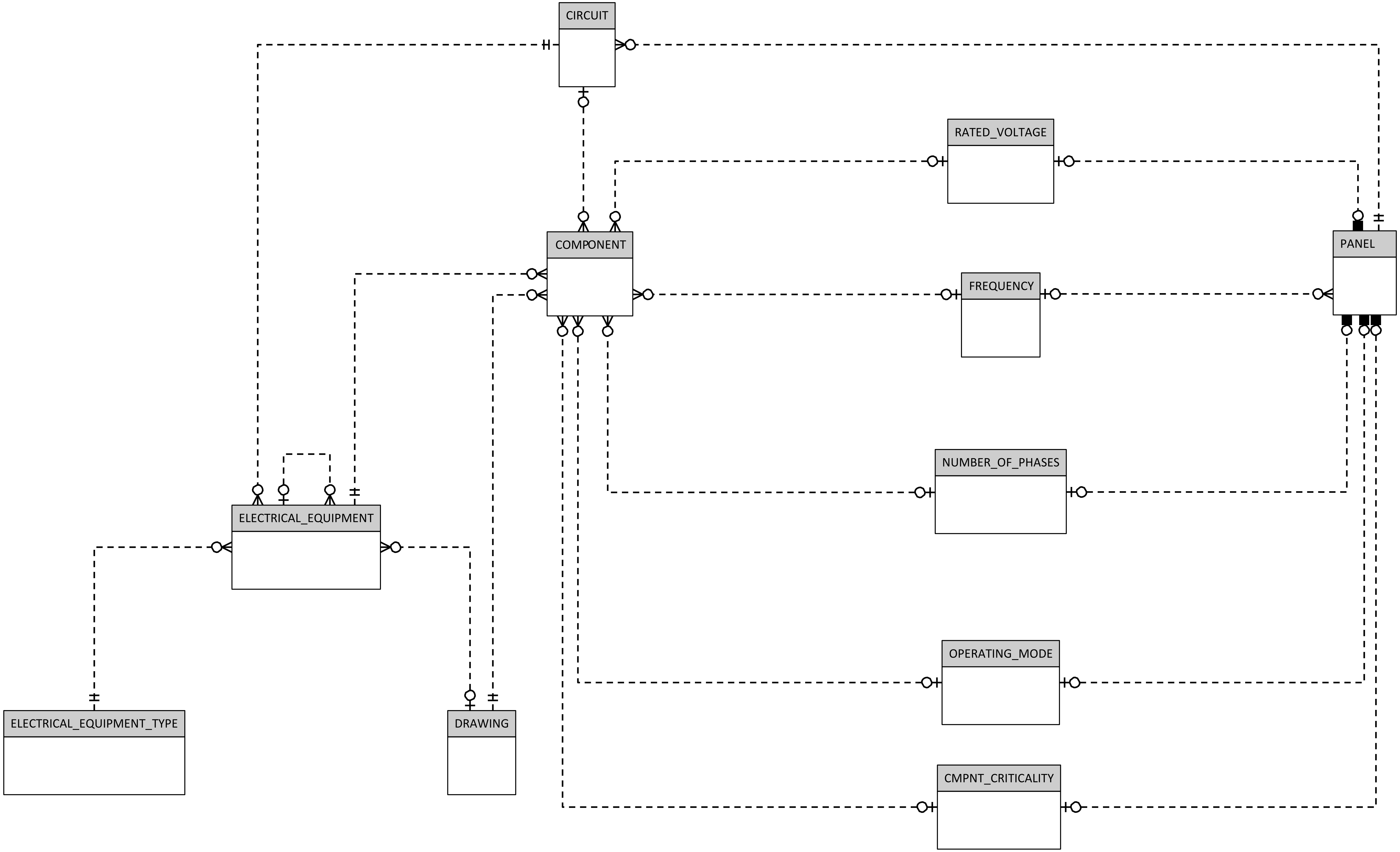
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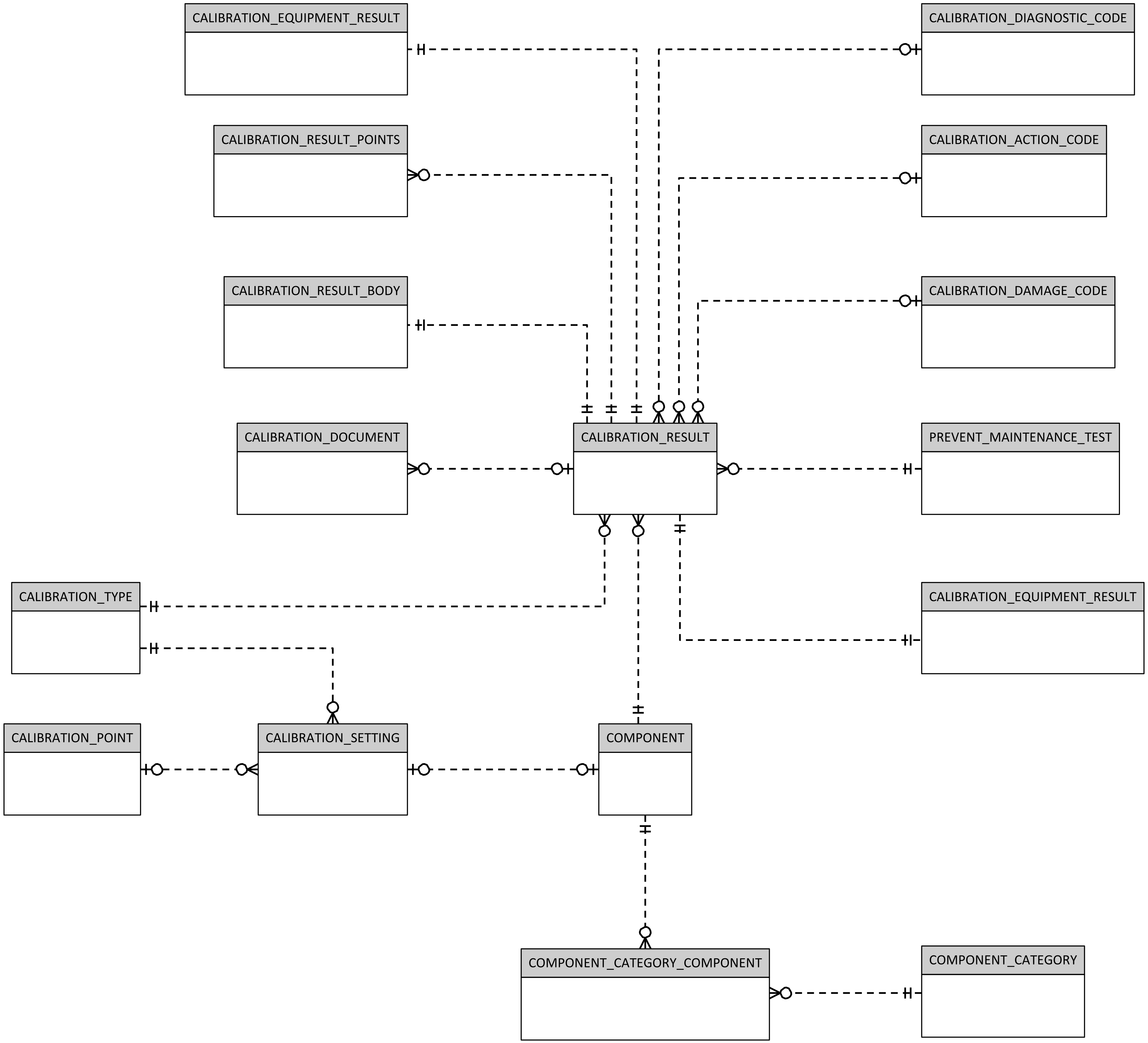
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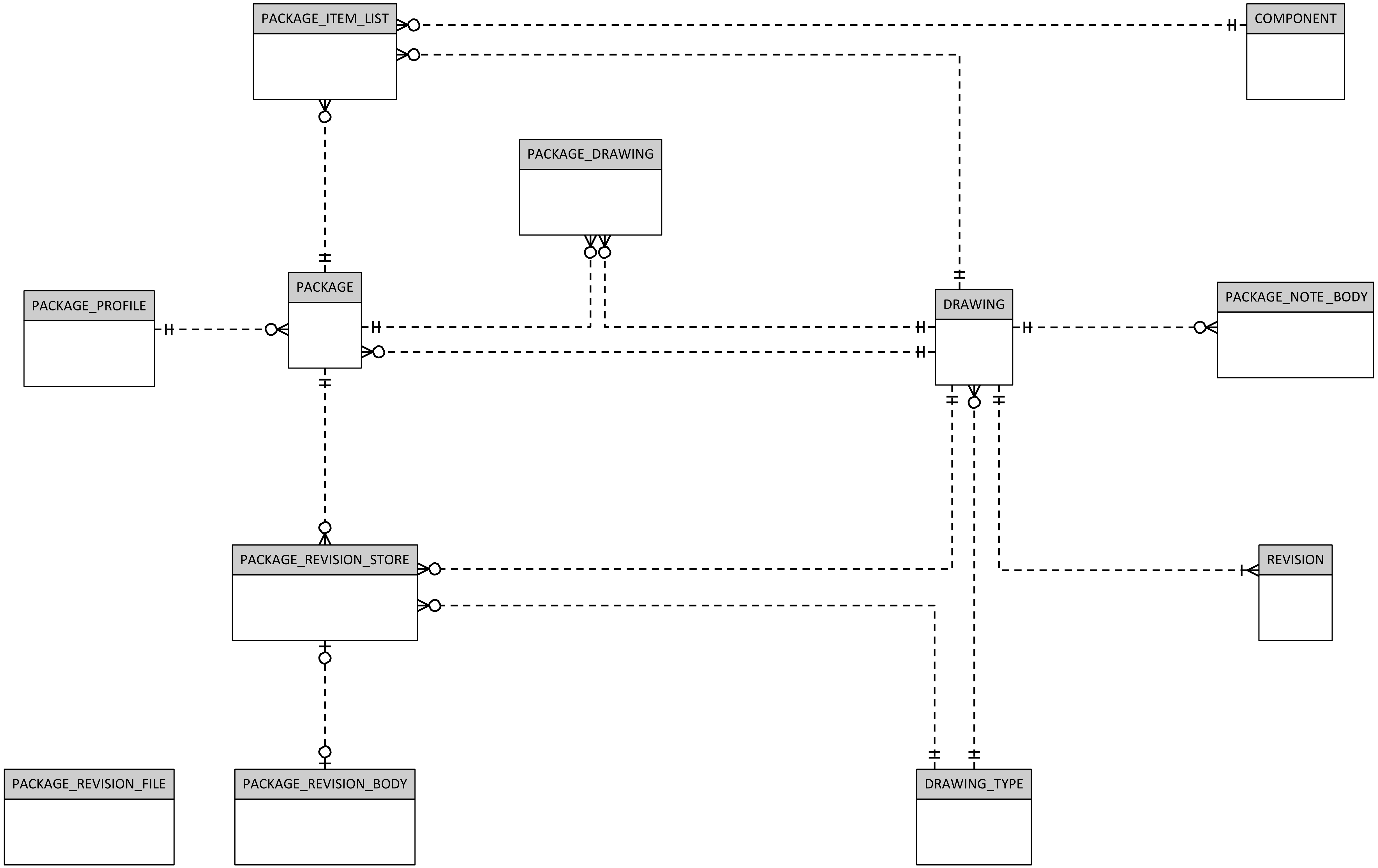
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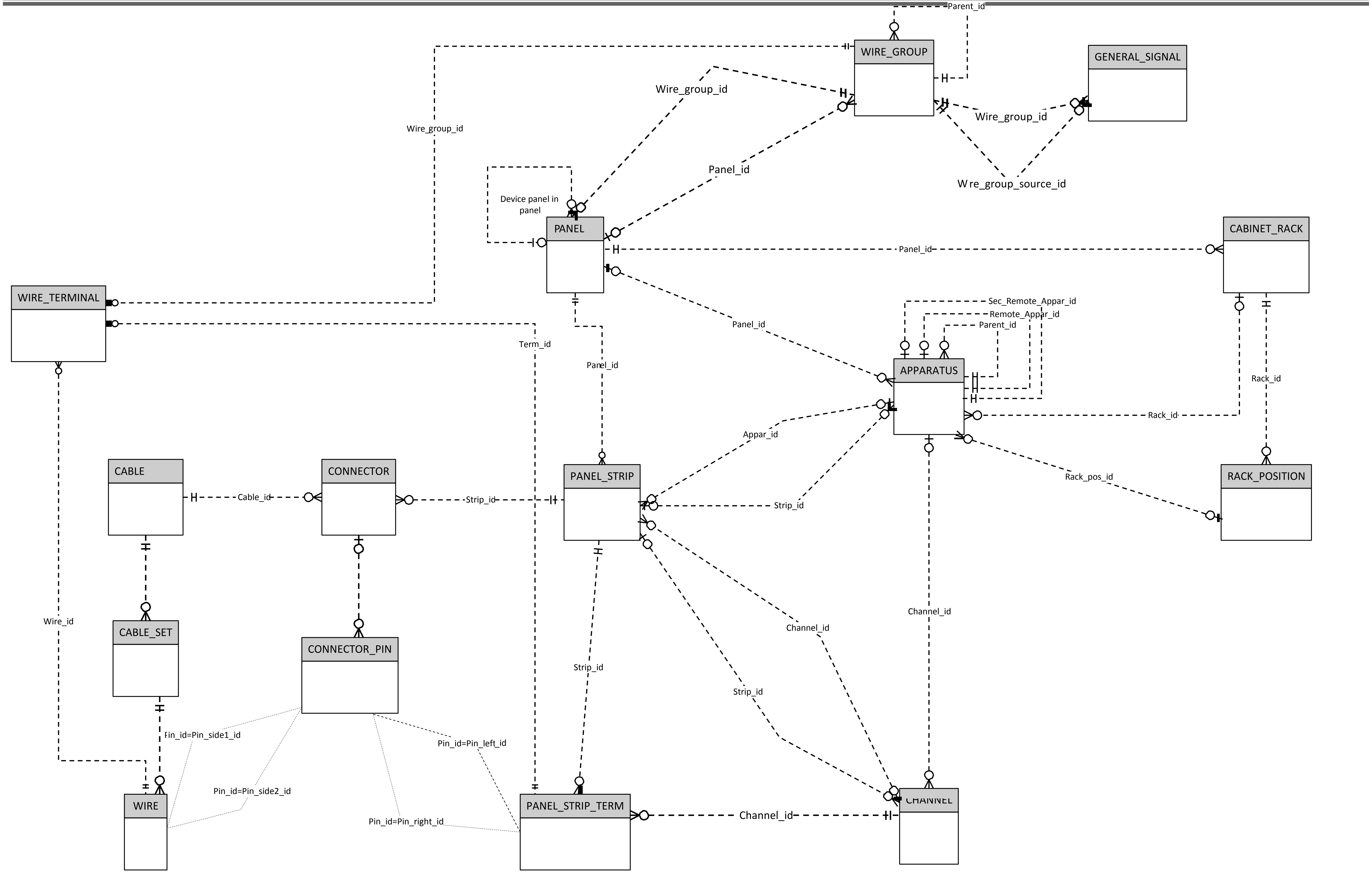

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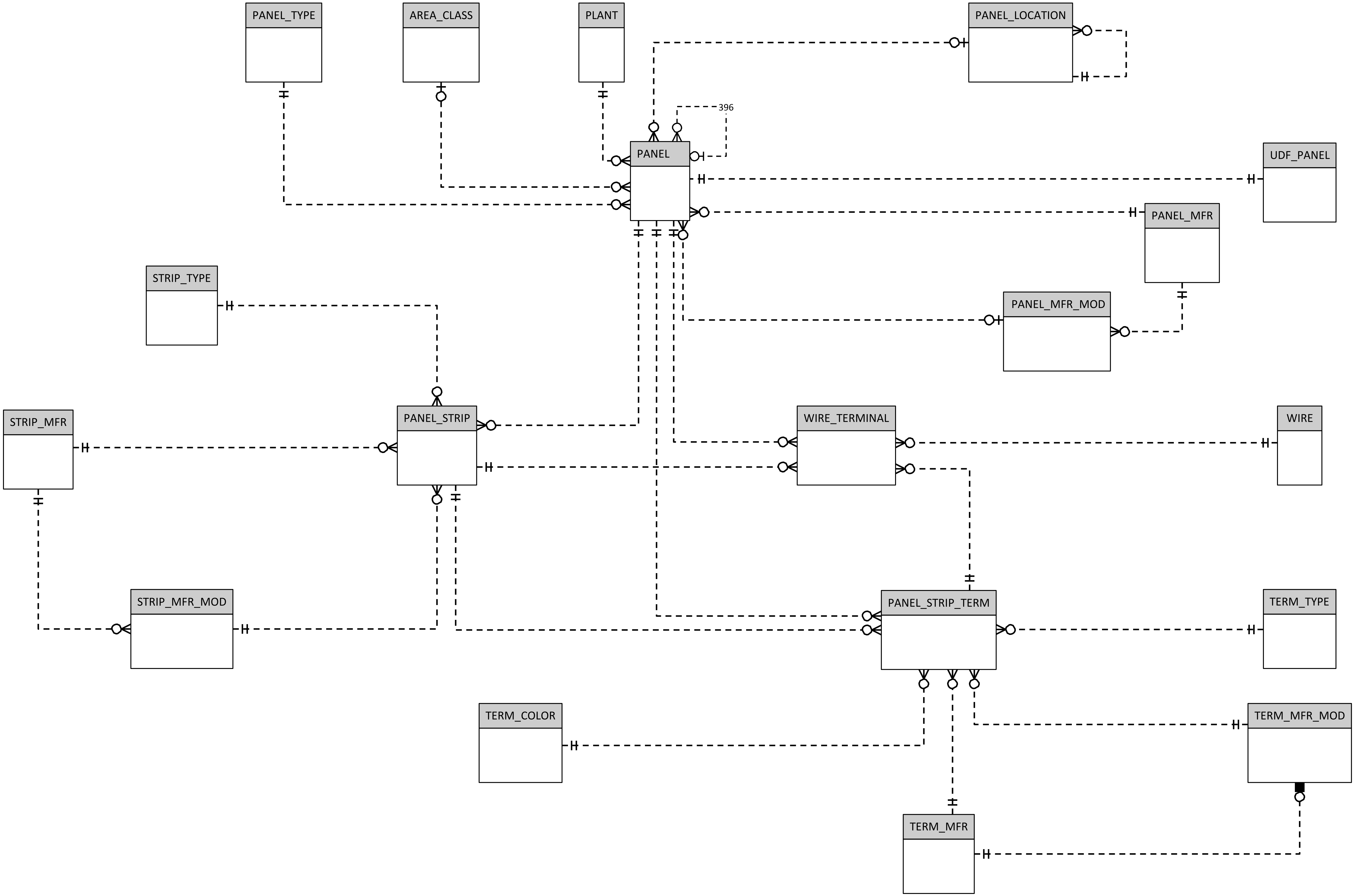
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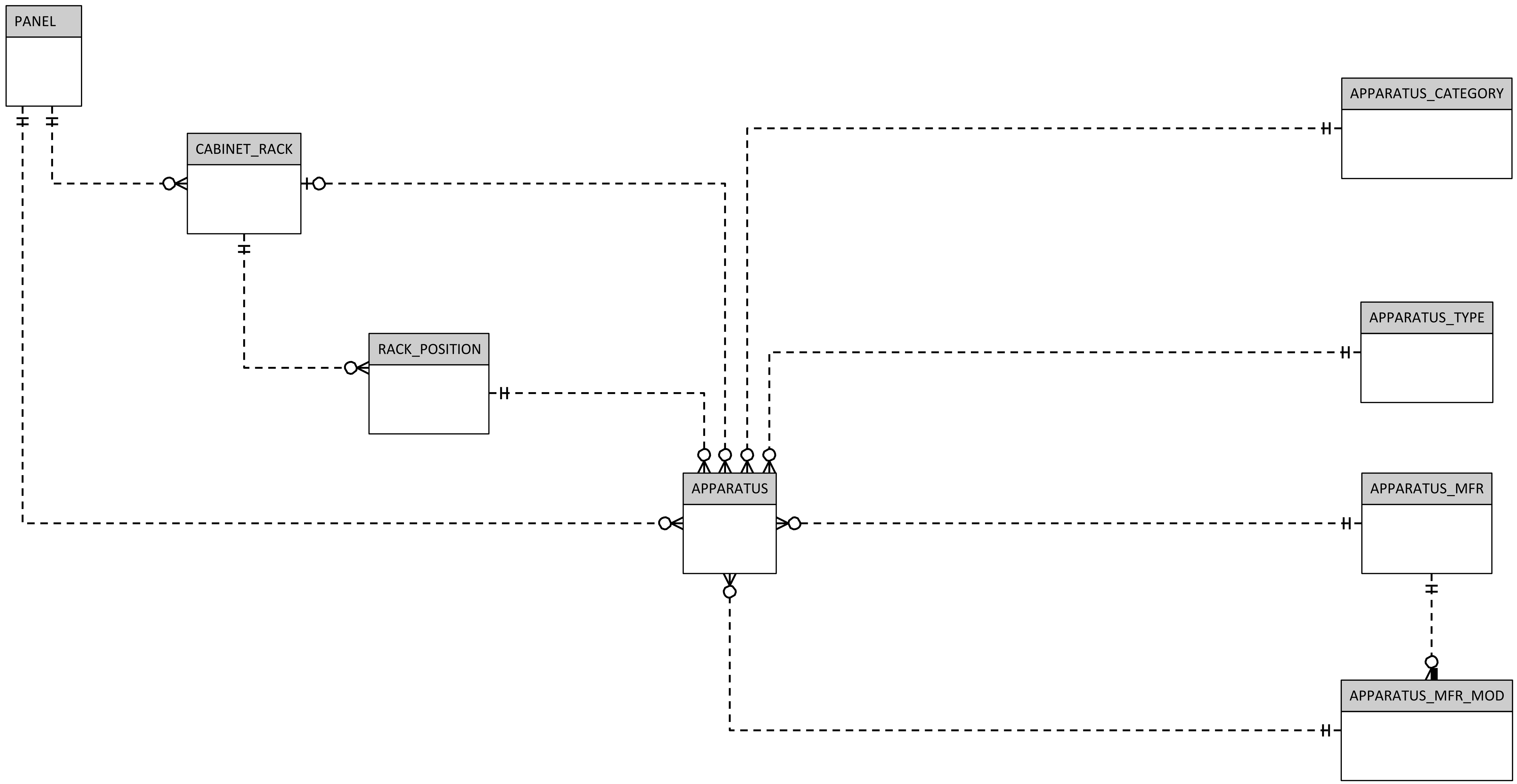
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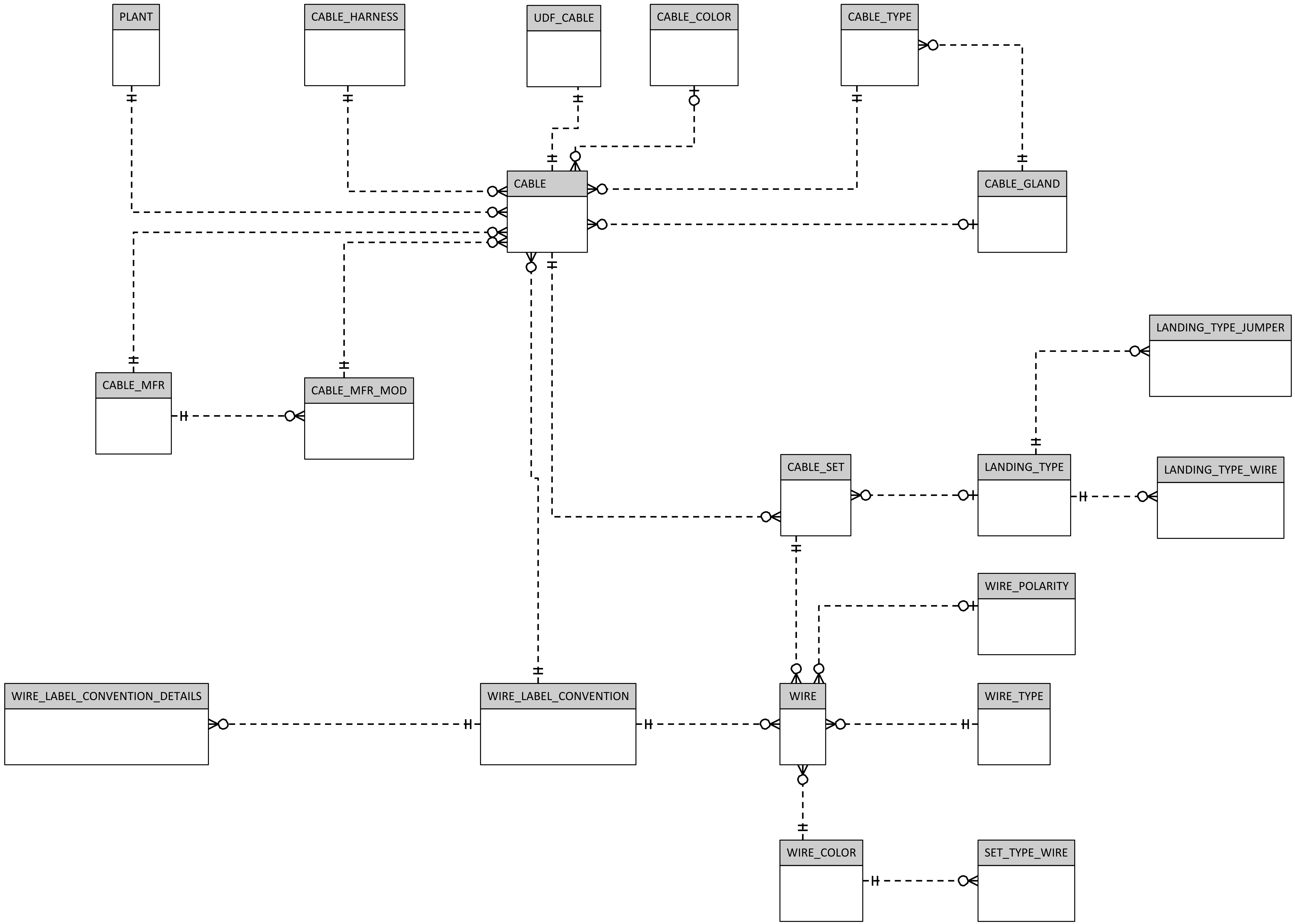
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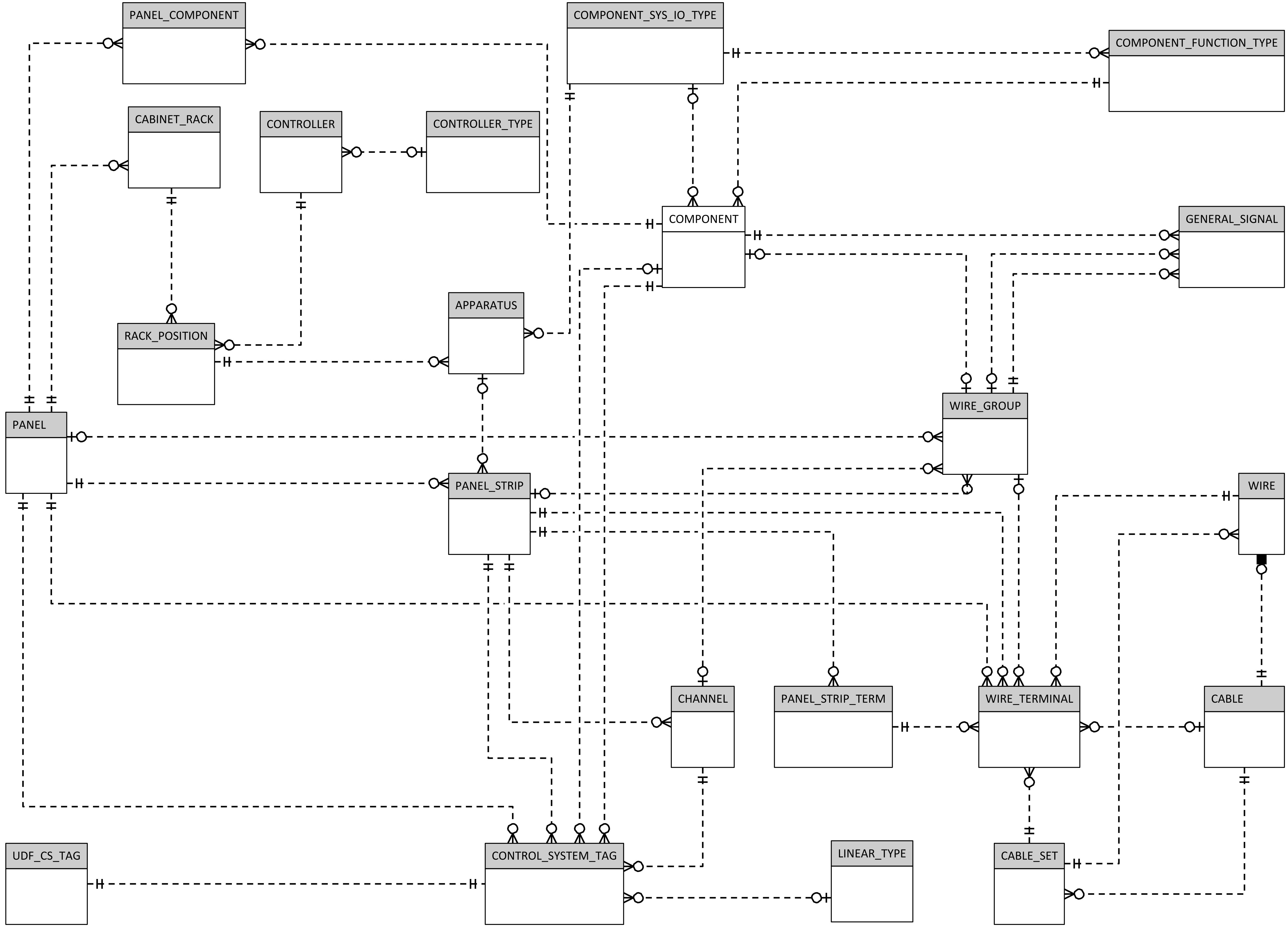
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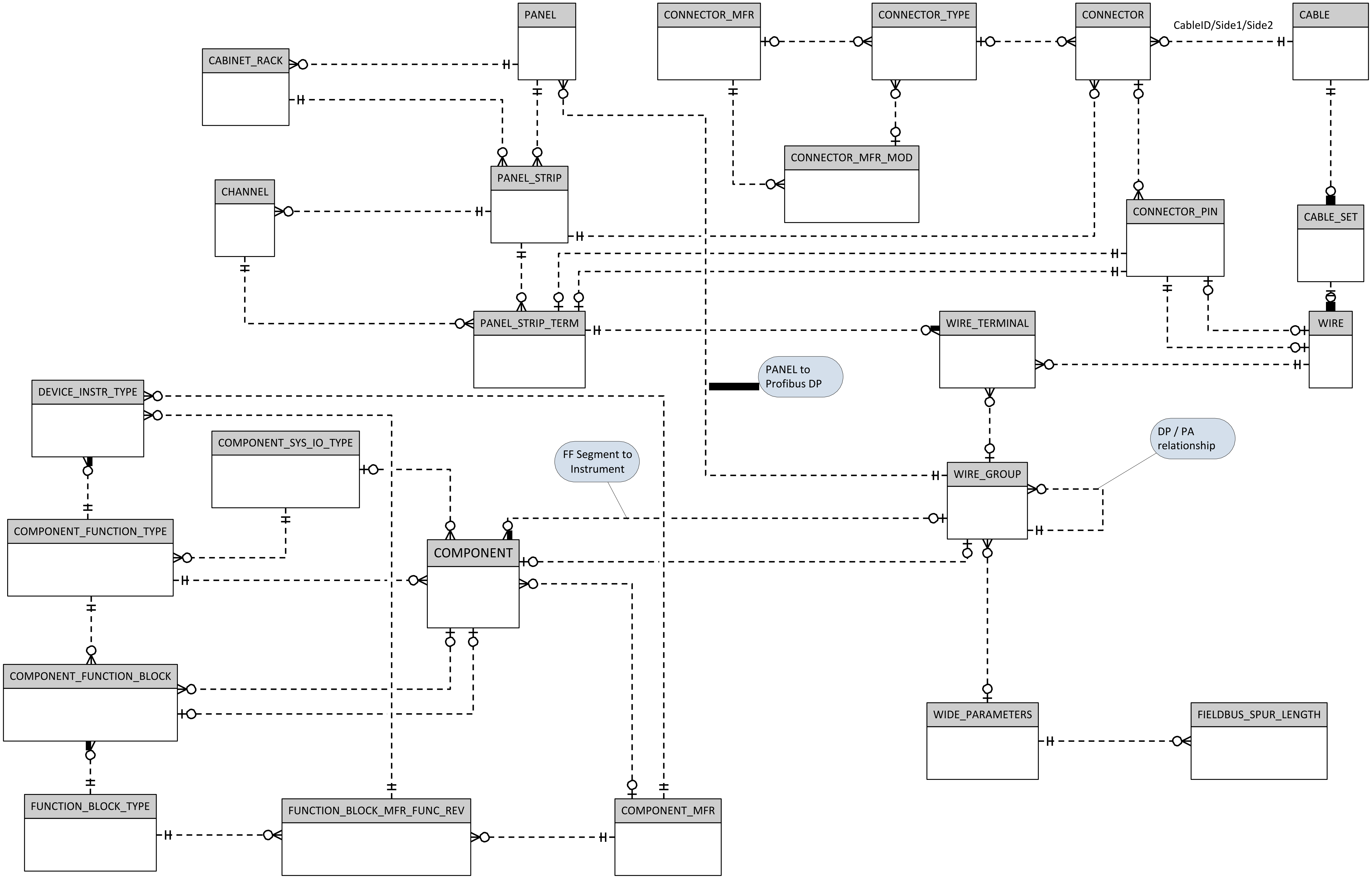
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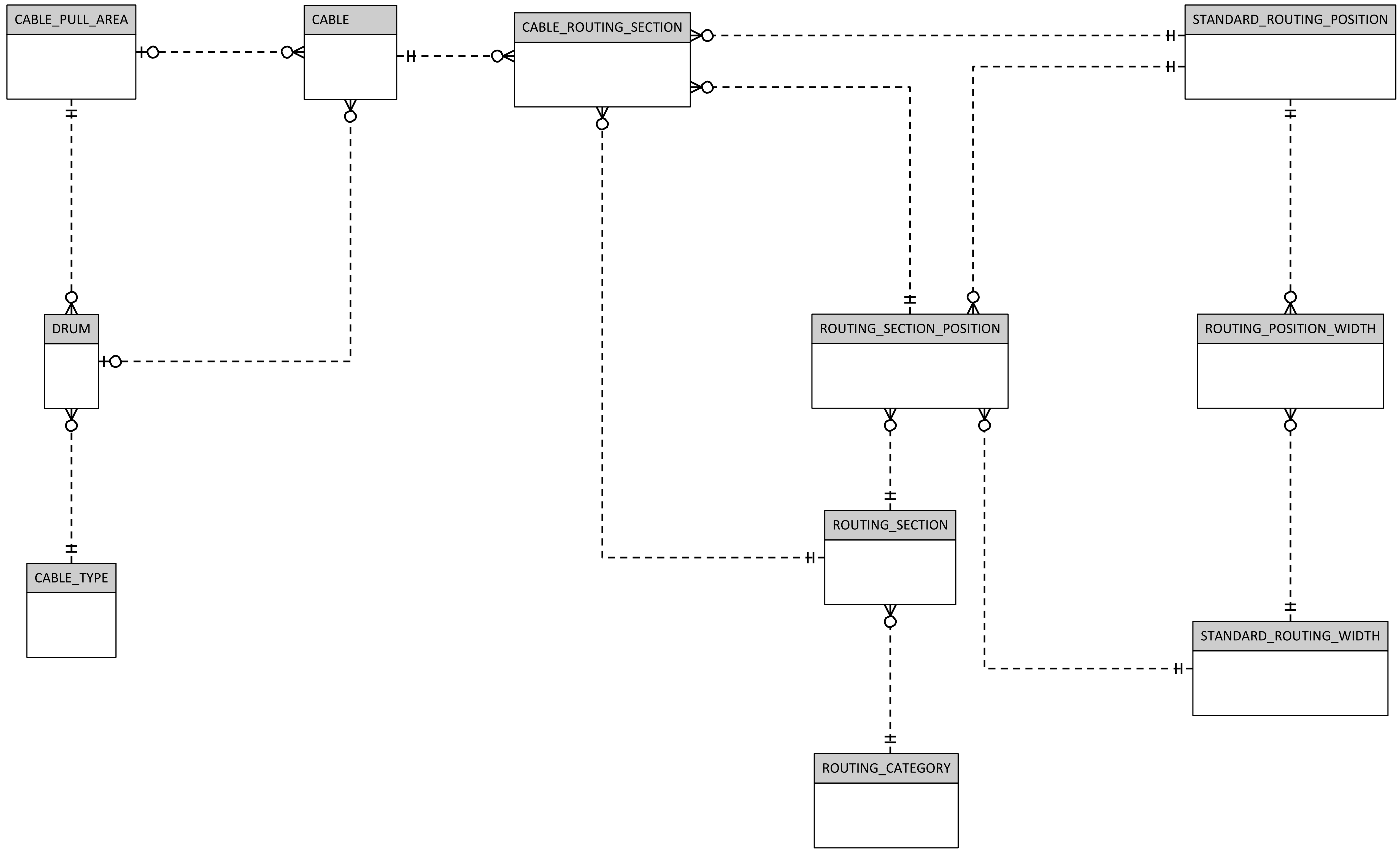
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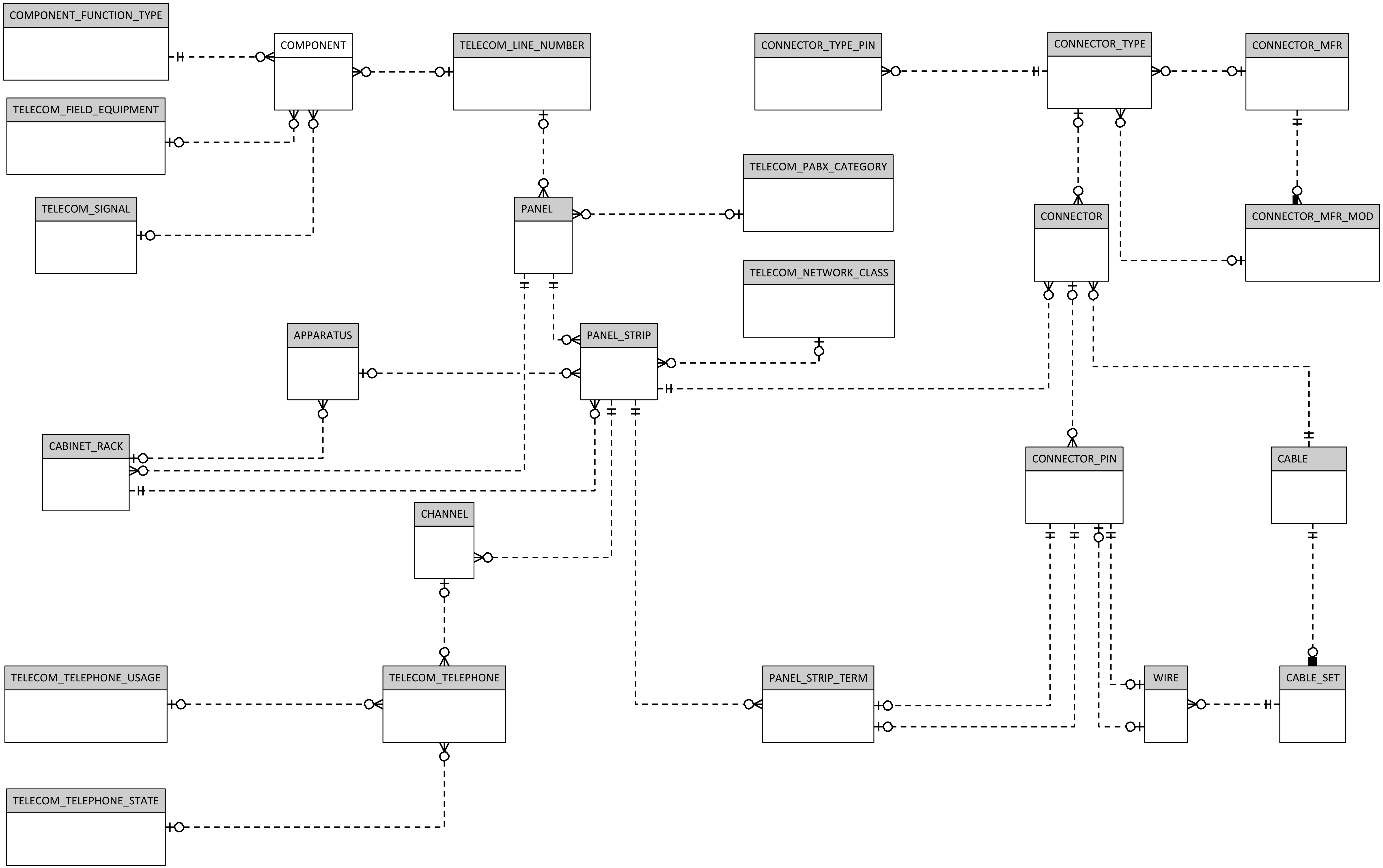
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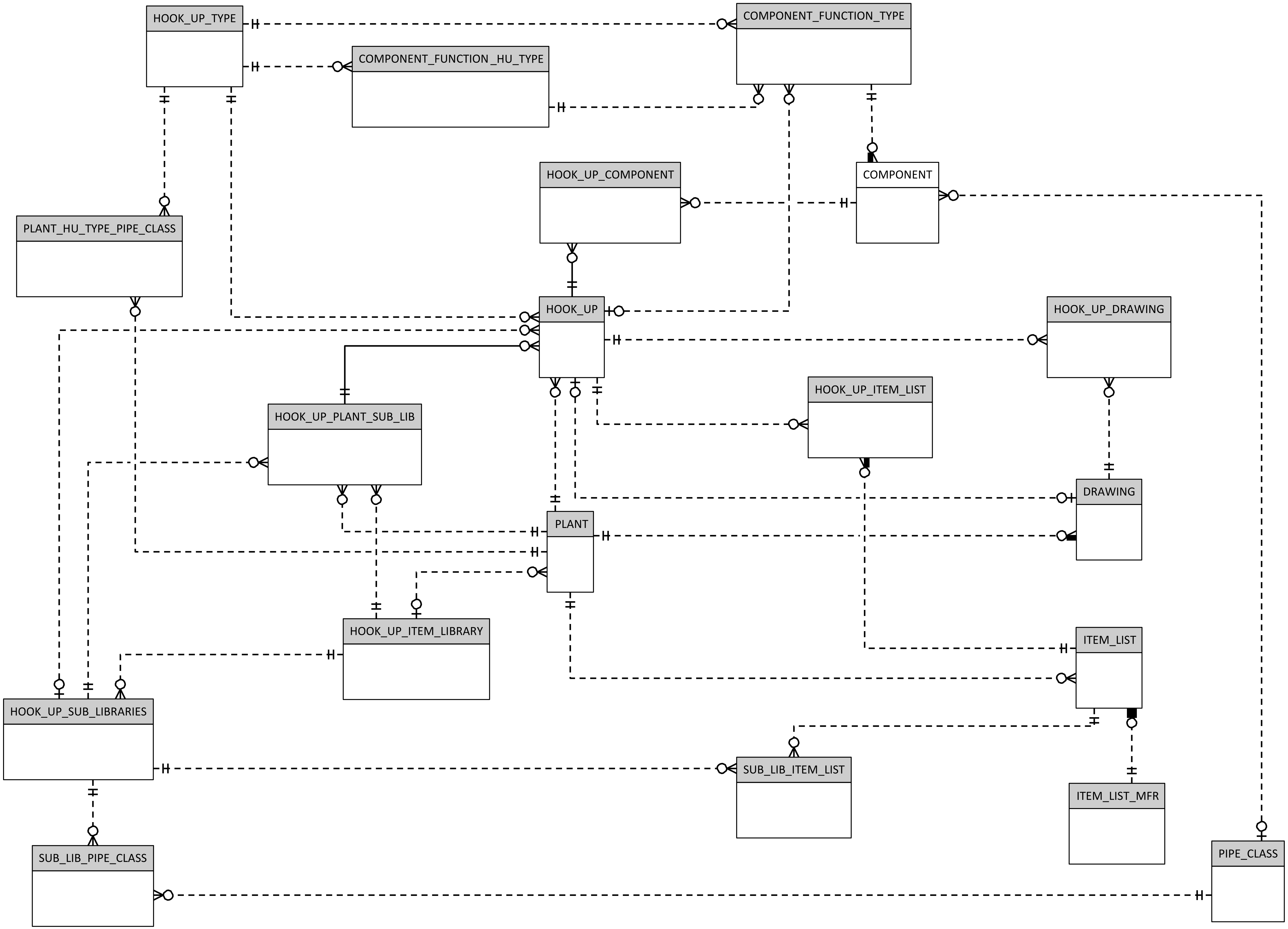
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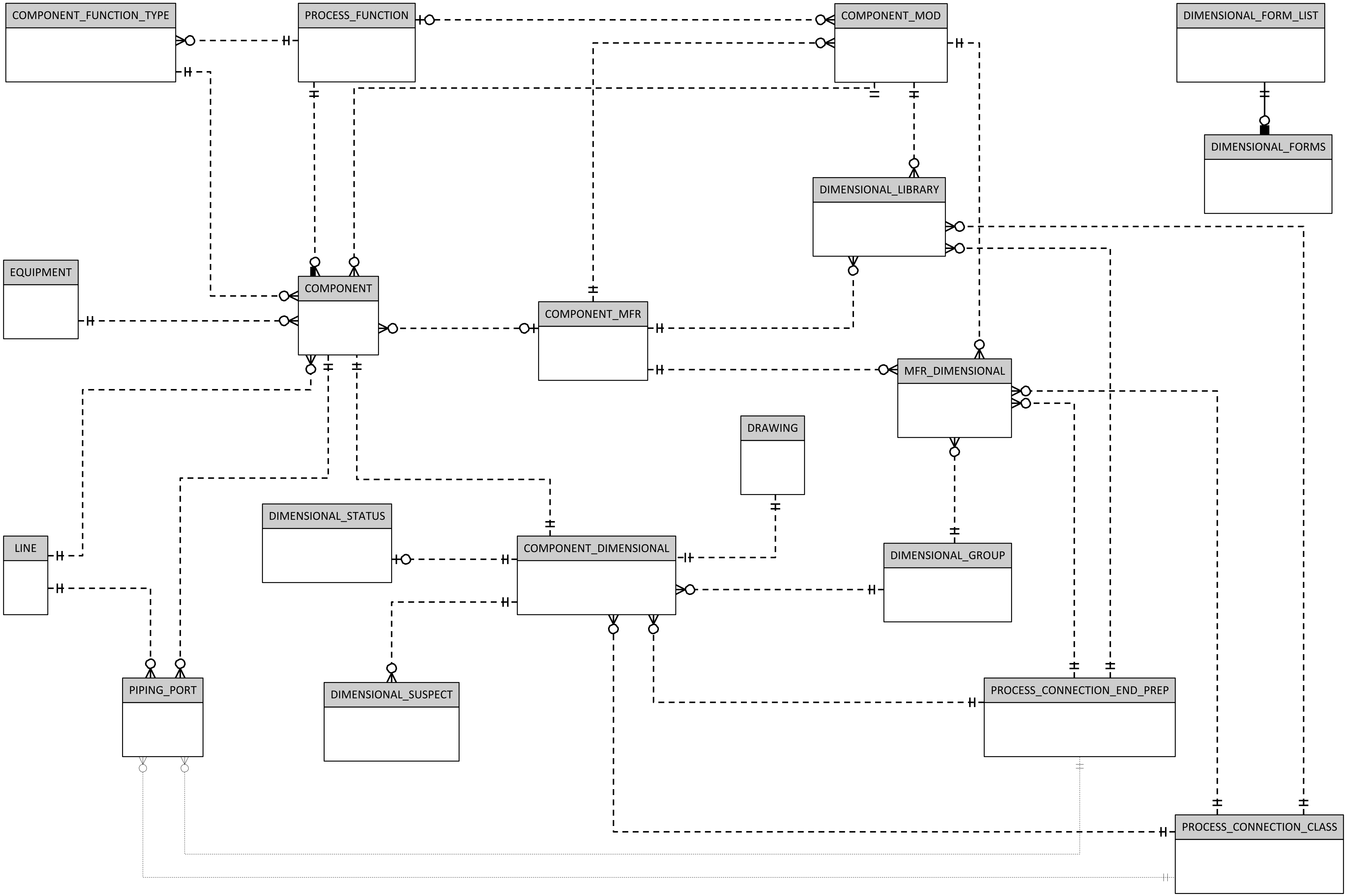
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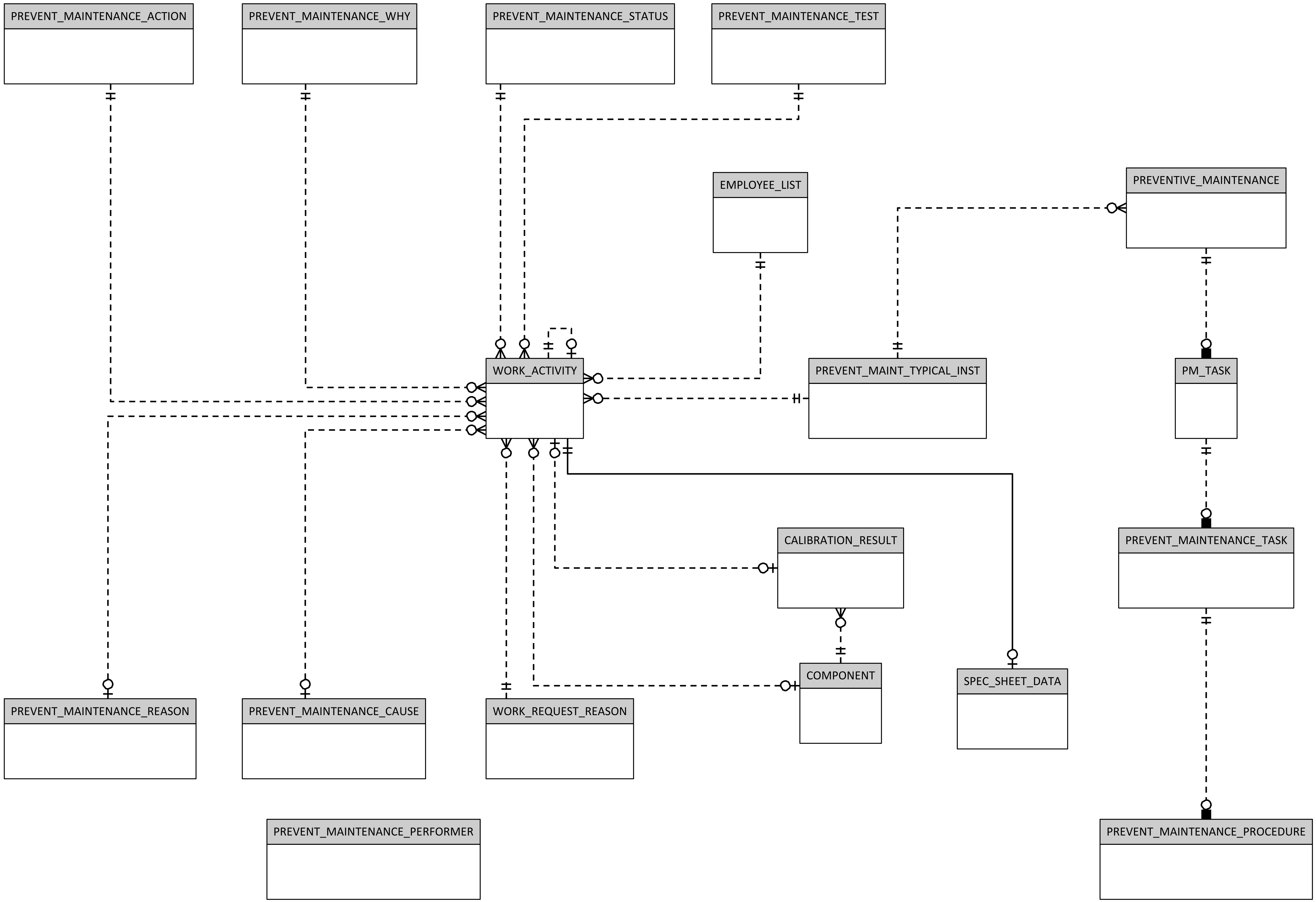
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