

The ArcGIS Pipeline Data Model (APDM v5.0)

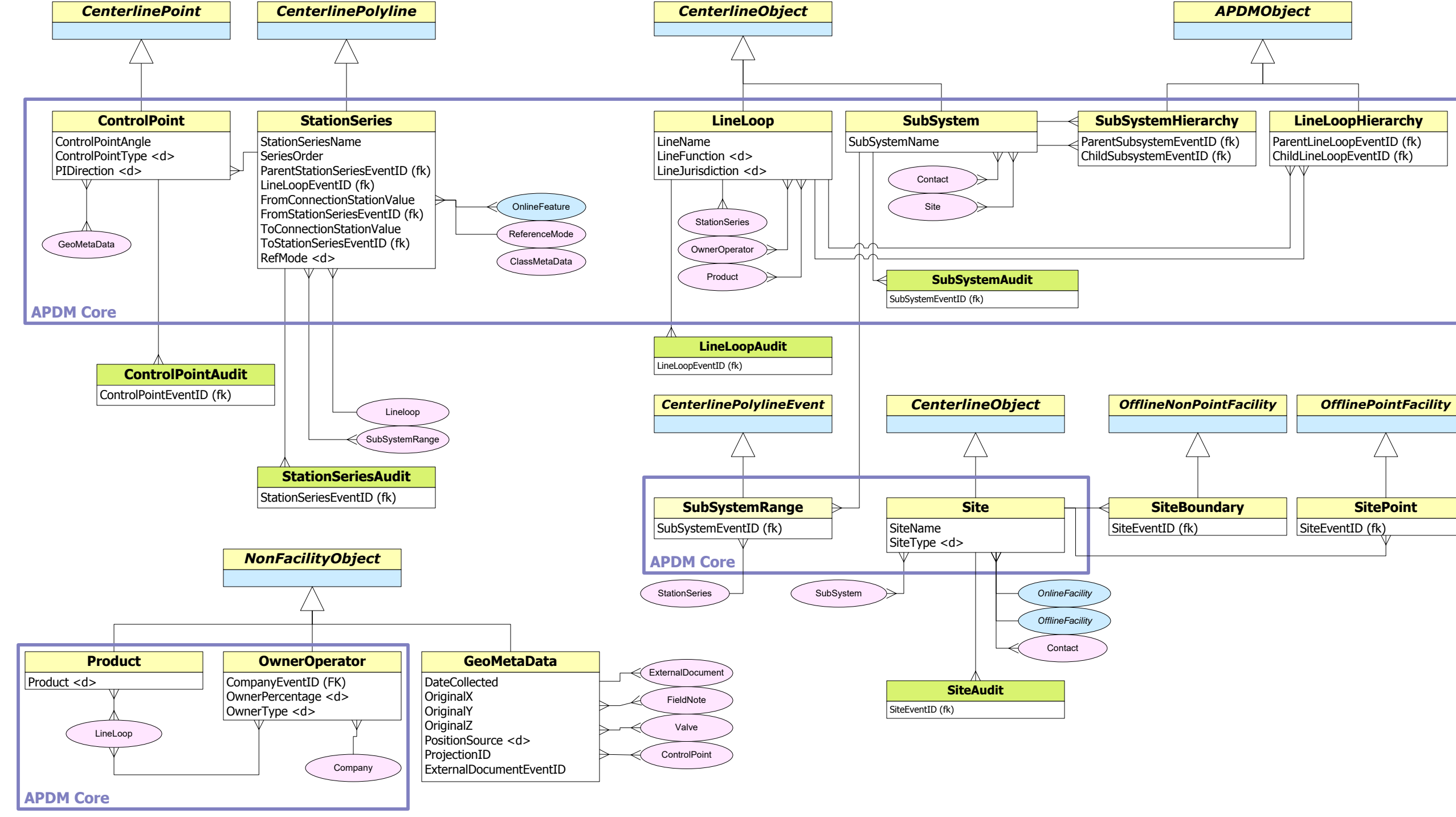
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Abstract & Metadata Classes

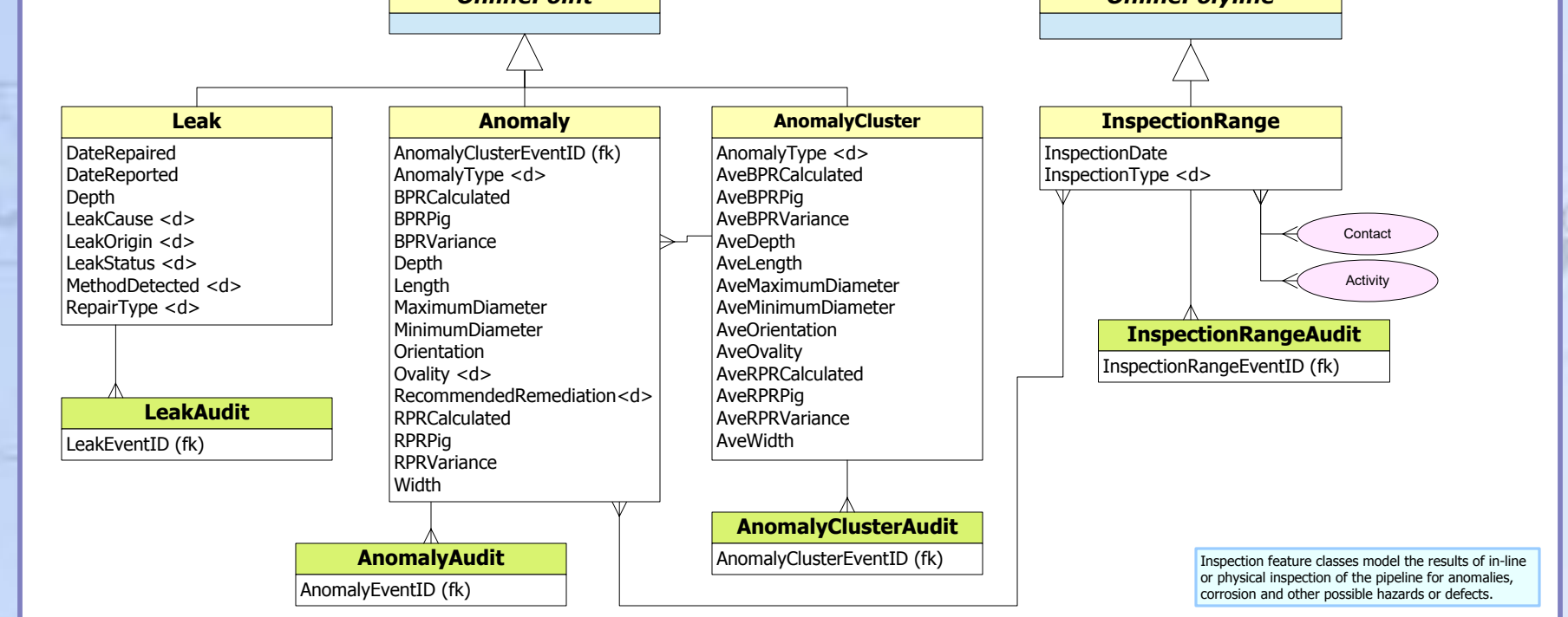
This section describes the 'APDM Abstract Classes' and 'APDM Metadata' tables. This diagram shows the inheritance of attributes and relationships from the top-most classes down to the lower classes. Inheritance means that a concrete feature or object class inherits the attributes, relationships and potential geometry types from all the classes above it (following the lines and the arrow heads pointing upwards). All classes are shown with 'light yellow' header boxes with the exception of the 'Audit' classes which are shown in 'light green'. Standard ESRI classes are shown with white attribute boxes and APDM Abstract Classes are shown with light blue attribute boxes. The 'grey' boxes show feature and object classes that inherit directly from the specified parent 'APDM Class'. [Square Brackets] around the title of a class means that no concrete feature/object class can inherit directly from this class. Note that for a class to belong to APDM it must inherit from one of the specified 'APDM Abstract Classes' otherwise it is considered to be only an ESRI class with no significance or relevance to the APDM. The feature class and object class icons denote which geometry type concrete 'child' classes may implement.

The metadata classes represent a set of object classes that are used to hold information about the reference modes, information about each concrete class inheriting from an 'APDM Abstract Class' and information about which 'offline' APDM classes have related 'online' polyline or 'online' point classes.

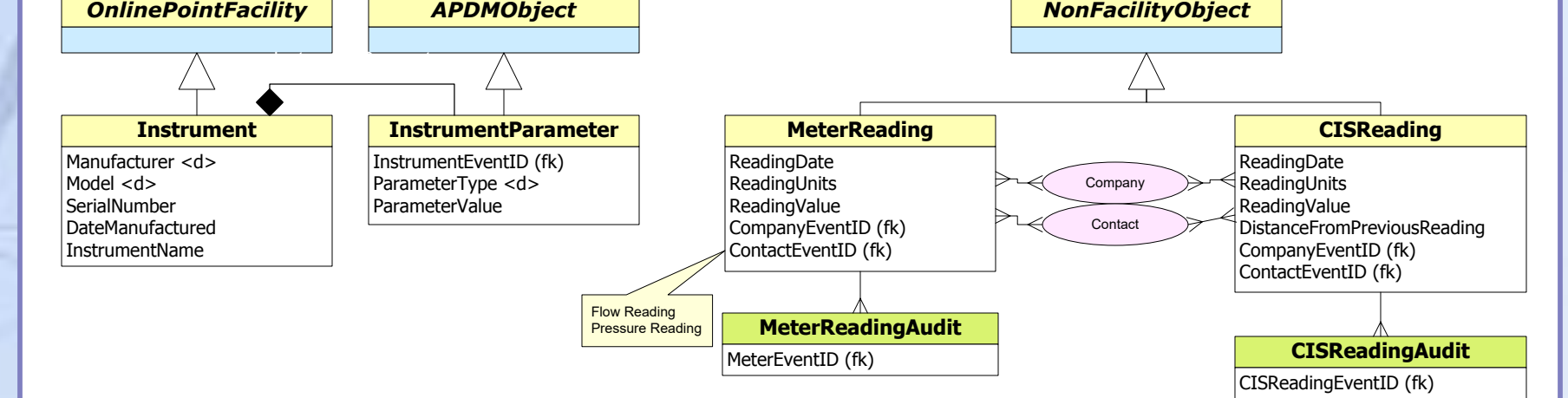
Centerline & Hierarchy



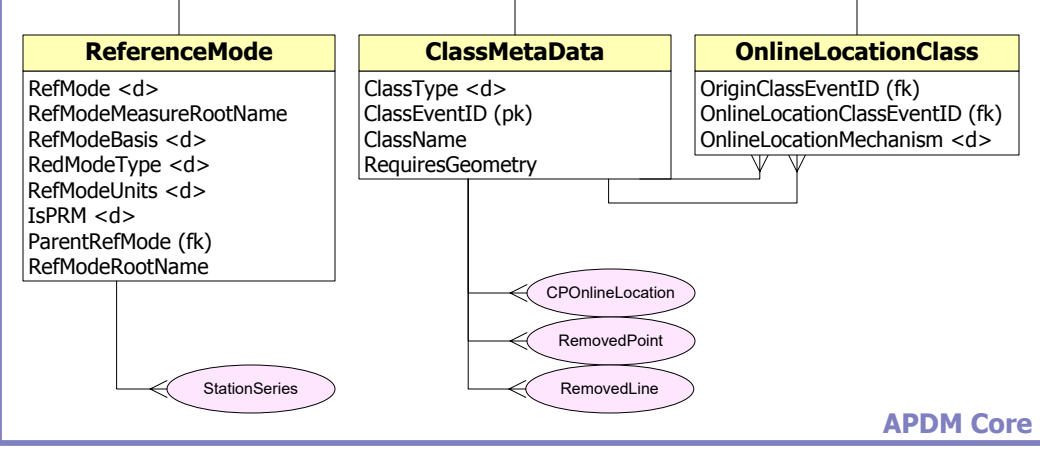
Inspections



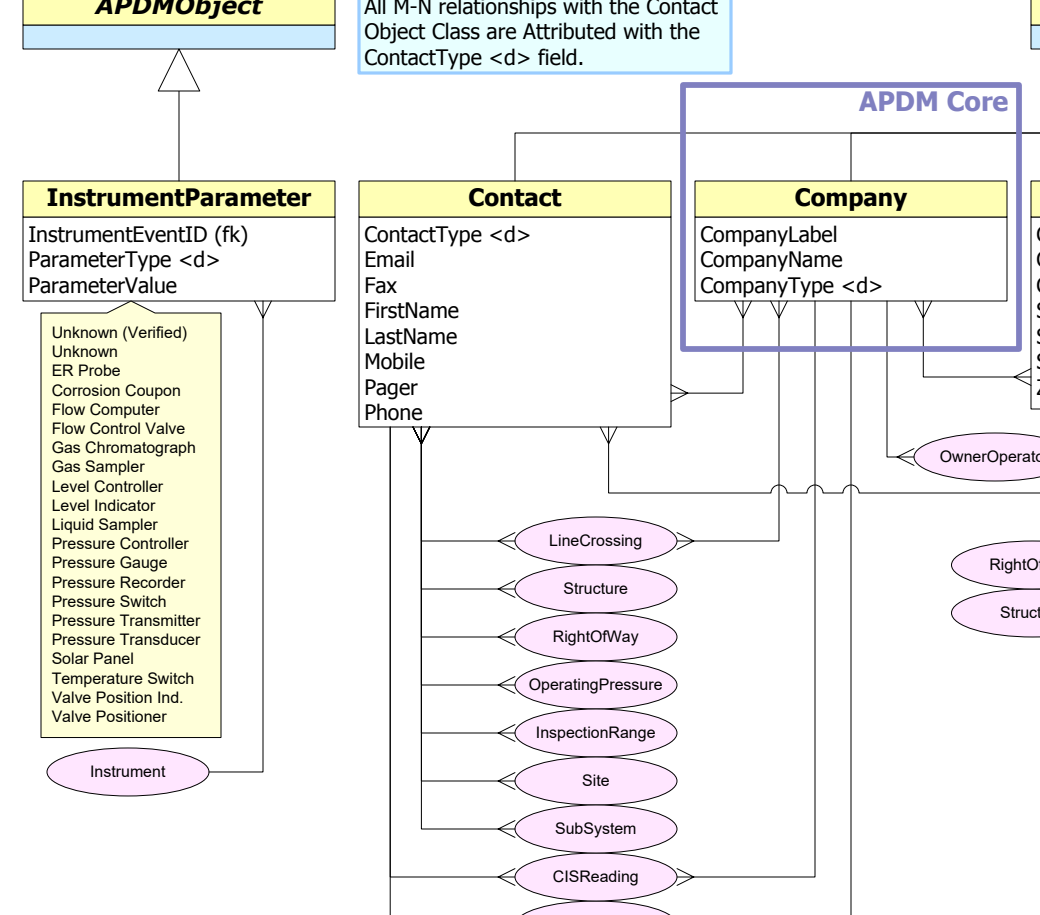
Instrument / Readings



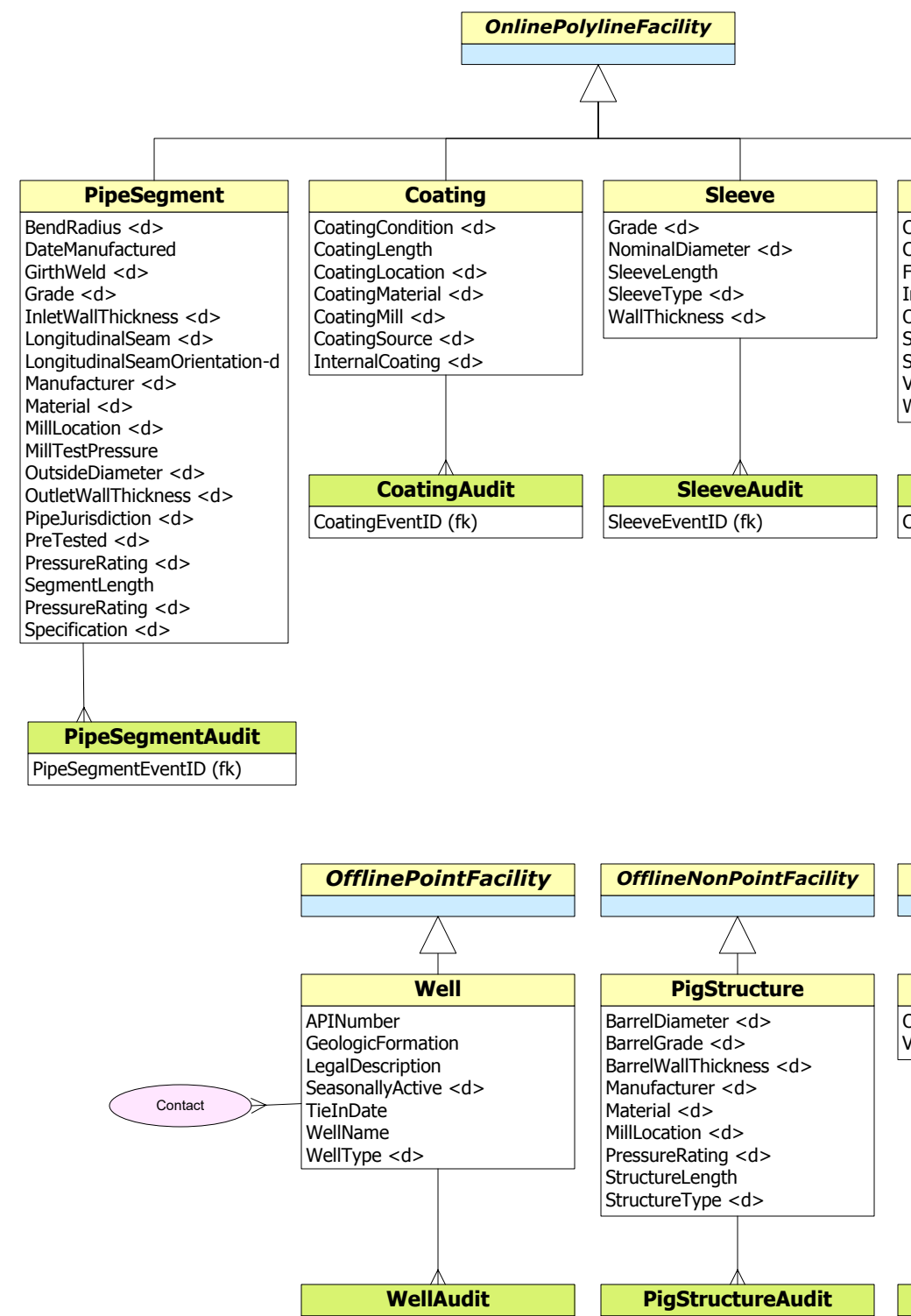
Metadata



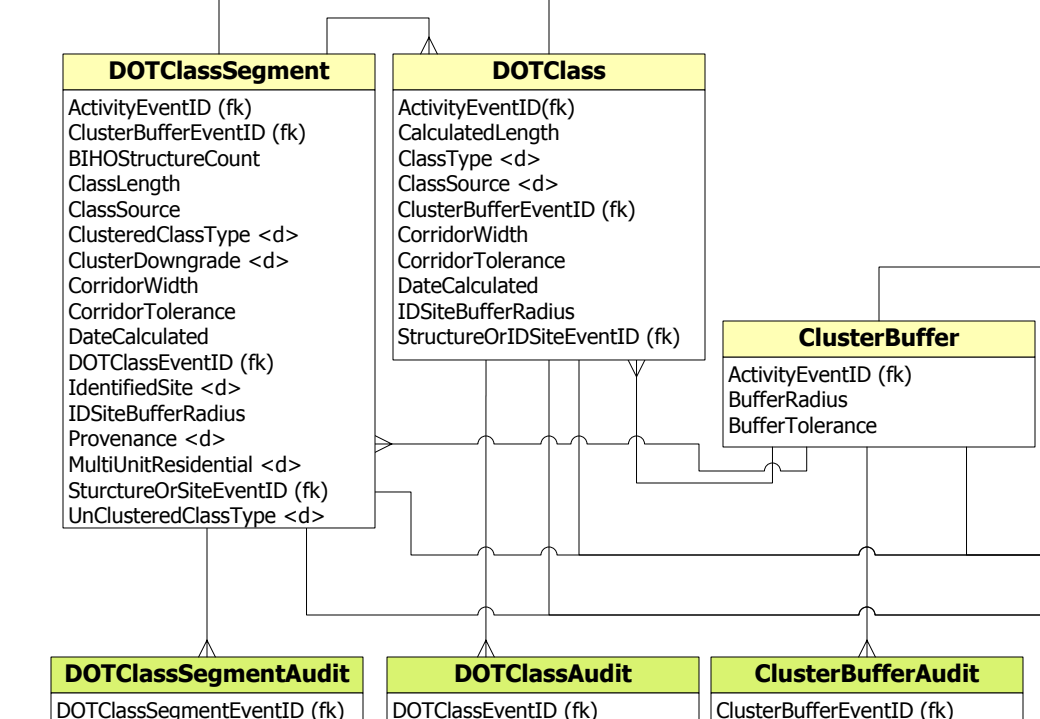
Event Support



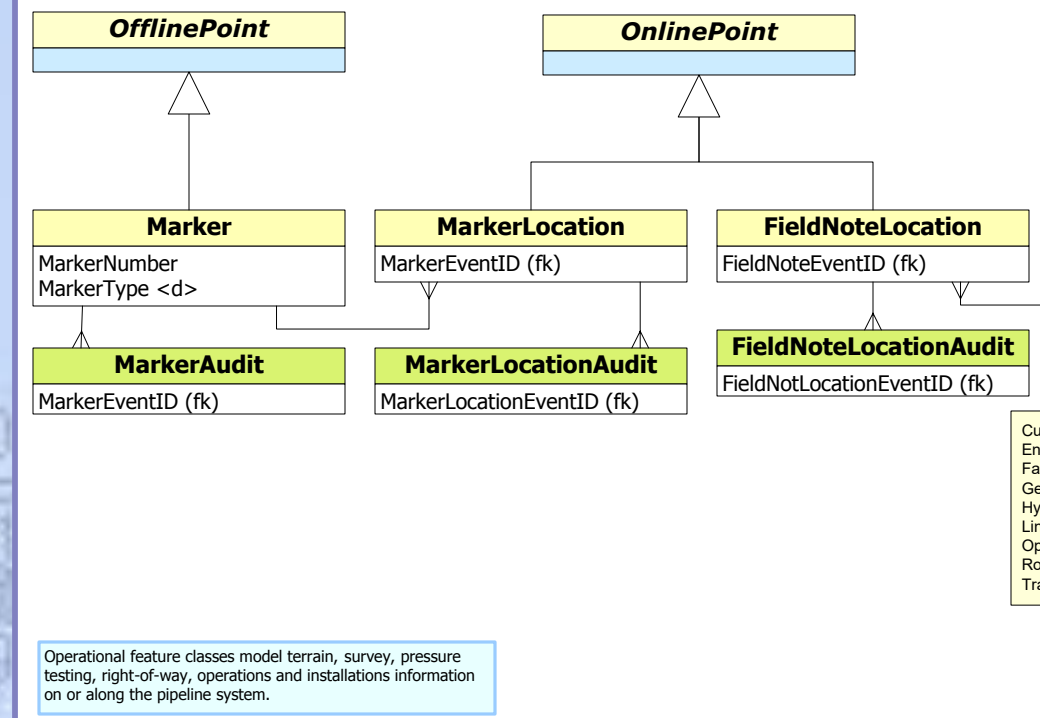
Facilities



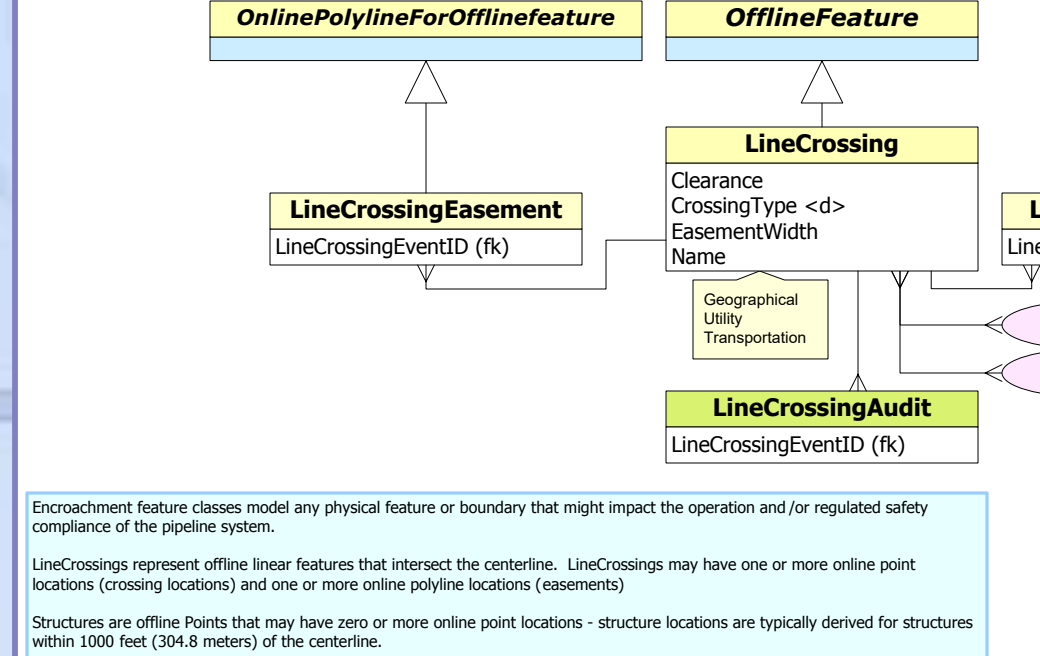
Integrity



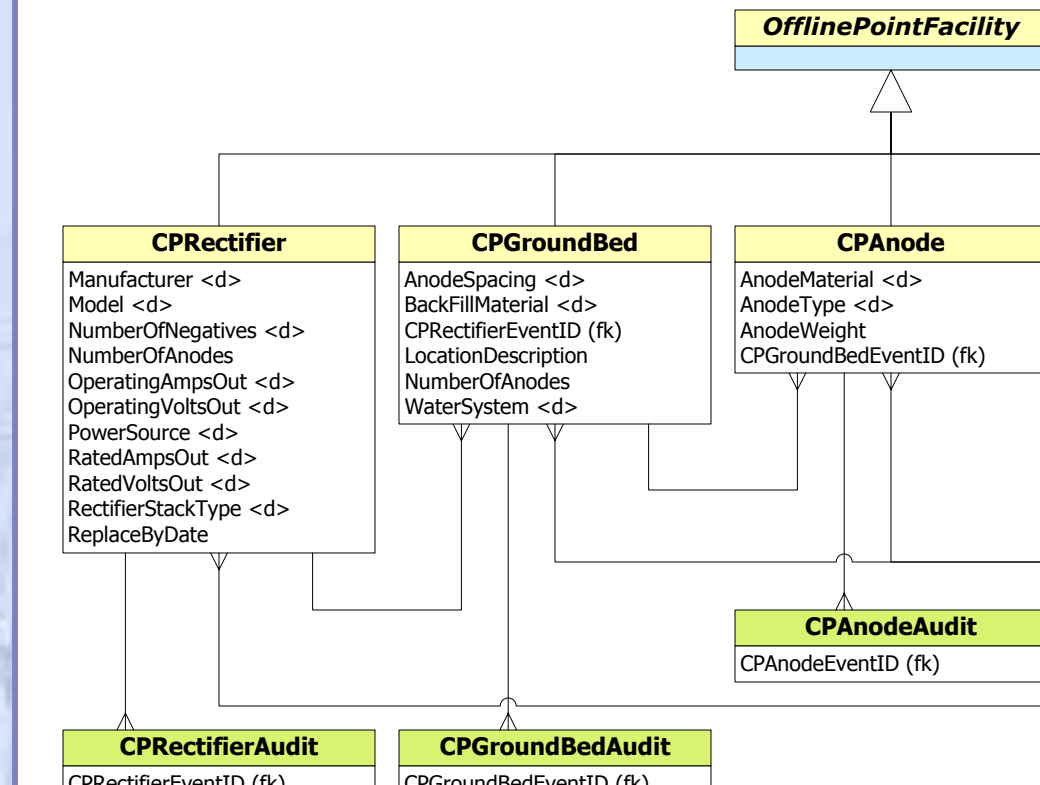
Operations



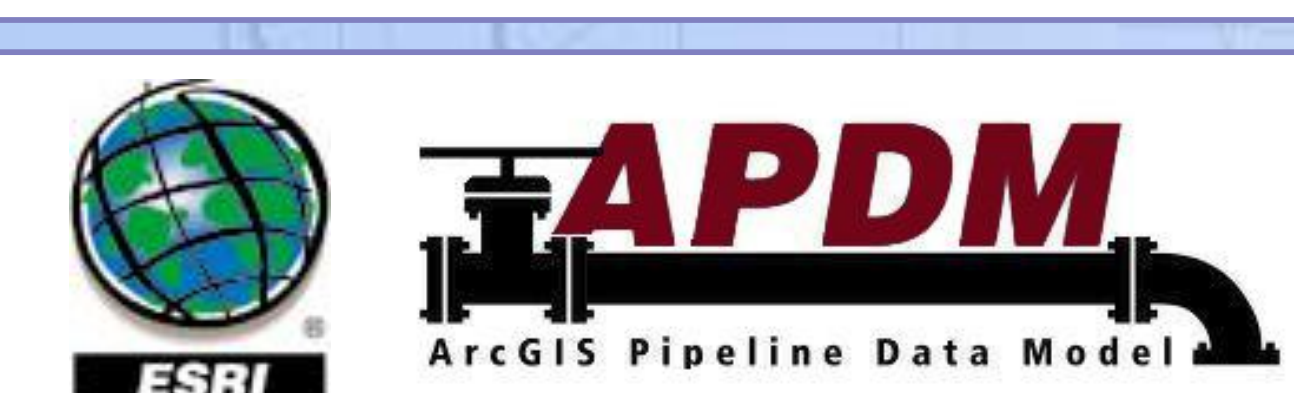
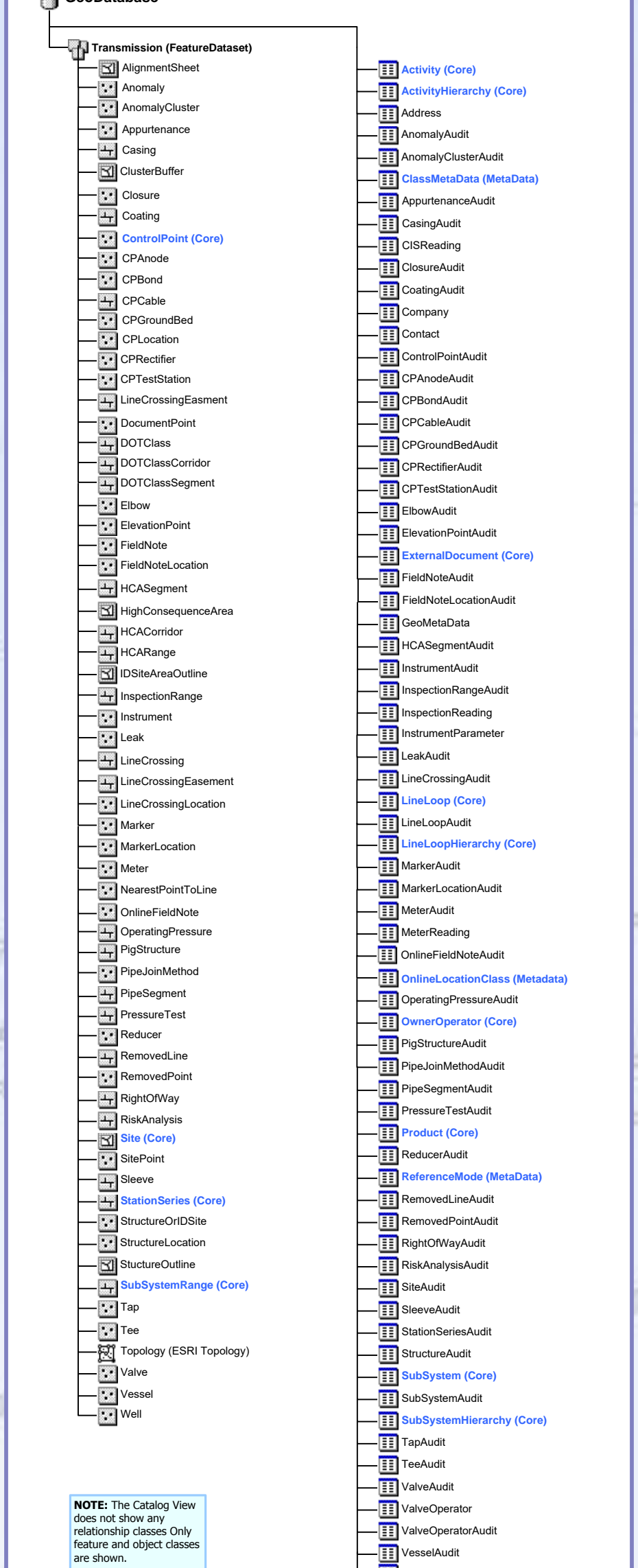
Encroachments



Cathodic Protection



Catalog View



Simple Topology Rules

Rule Name	Rule Description	Rule Type
ControlPoint	Must be connected to a StationSeries	Must Be Connected To
StationSeries	Must be connected to a ControlPoint	Must Be Connected To
ControlPoint	Must be connected to a StationSeries	Must Be Connected To
StationSeries	Must be connected to a ControlPoint	Must Be Connected To

NOTE: An example Topology is included in the model. It is used to test the topology rules and to provide a visual representation of the topology rules. The topology rules are defined in the 'Topology' table.

NOTES:

ESRI/2009 - Version 5.0
ESRI/2009 - Version 4.0
ESRI/2009 - Version 3.0
APDM Model is maintained by APDM Technical Committee on behalf of the ESRI and the ESRI Pipeline Interest Group (PIG).

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