

## Appendix C: Data Model

This Data Model includes the set of data elements required to produce the CPFR data flows and the logical relationships among them. The data model is in relational form, using the Crow's Foot ERD notation. This model is provided as a reference. CPFR implementations are not required or expected to include a physical database with this schema. Not all fields will be used by each trading partner. Each site that implements CPFR will want to refer to this Data Model and determine how to best implement it in its environment.

### Notations:

- An entity is represented by a rectangular box. Each entity has a name, which is a noun or noun phrase.
- An entity has one or more attributes whose values uniquely identify one entity from another. Each attribute of an entity is represented by listing it in the box. Elements above the line indicate attributes which are part of the key. Foreign Key (FK) indicates that the attribute is the key in another entity.
- A connection relationship is represented by the presence of a Foreign Key attribute in a child relation.

The following minor corrections have been made since the publication of the *VICS CPFR Guidelines* in 1998:

- All mentions of a “Unit of Measure” were consolidated, and a **Unit of Measure** entity was created.
- New entity **Forecast Type** was created to portray whether a forecast (item level) was total, promotional, seasonal, or fill/replenishment.
- New attribute **Forecast Revision Comment** was added to **Forecast Revision Item** entity to reflect any additional comments made about the reason for a forecast revision.
- The relationships of **Forecast Purpose** were changed for modeling correctness so that **Forecast Purpose** directly links to **Forecast Header**, and *migrates* to several other entities.
- Changed attribute; **Exception Value Comparison** renamed **Exception Value Comparison Code**.
- Changed attribute; **Planned vs. Actual** renamed **Planned or Actual Code**.



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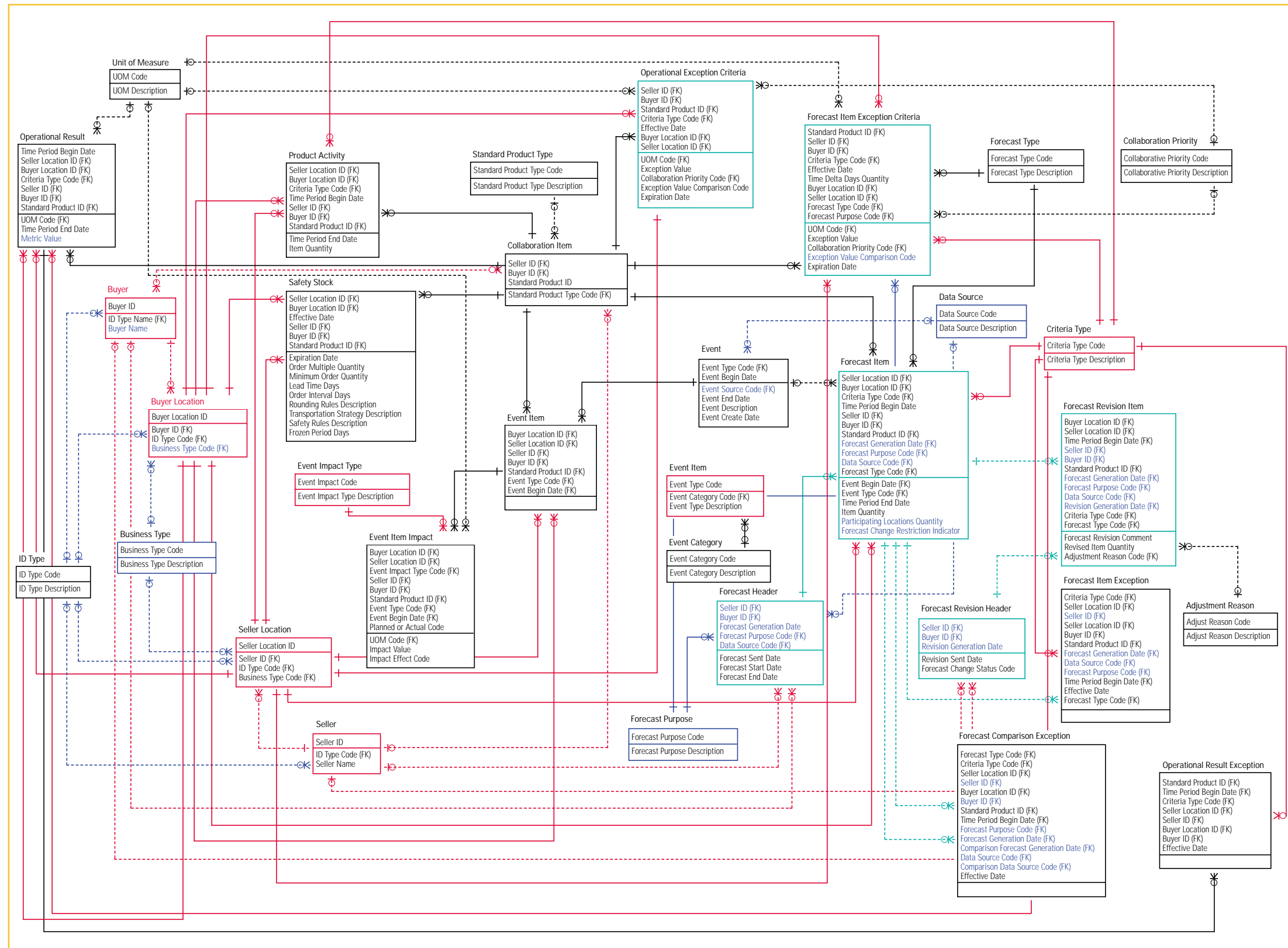


Figure 28



**Appendix C**  
Data Model