



# Relationship of PQX to CxF

PQX was designed to directly carry CxF data exported from any tool employing CxF. And rather than requiring the writing of specialized CxF data fragments, PQX carries a complete CxF data set in the CxF namespace. This was intended to simplify the implementation of PQX by software vendors. As stated in the Terms of Reference, “PQX incorporates color using the same data containers that are defined in ISO 17972 (CxF). While PQX and CxF are different formats with different parsing requirements, developers can use the same strategies for reading and writing color data in a PQX file that they use for reading and writing color data in a CxF file.”

If a PQX message is being used to report color quality, PQX will also require the exchange of CxF sample data generated by the software supporting the color measurement device. Thus, PQX allows for, but *does not require*, the exchange of CxF standard, or reference data. If a Brand wishes to have reference data (as well as sample data) included in the PQX message, that can be accommodated using the PQX message as well.

## Rules for Employing CxF in PQX

The following design principles were followed as the PQX XML message was developed:

- Only Core CxF will be employed as the data store for color data.
- CxF will be employed as a *complete CxF hierarchy* (blob) with the cc:CxF element as the root to ensure direct importability from color measurement device software.
- No fragment of CxF will be allowed within the PQX model.
- CxF elements will be employed for only those mechanisms where the intent of CxF is a match for the intent of PQX.
- The use of CxF <Tags to customize CxF to fit the intent of PQX is not appropriate.
- The use of CxF <CustomResources and <CustomAttributes is not appropriate.
- Non-appropriate CxF elements may be written into a PQX message but shall be ignored by PQX compliant receiving systems.
- Quality reporting using objects not explicitly supported by CxF Core will be implemented with PQX XML structures, outside of the CxF data store.