



What's New 'Deep Dives'

IBX SmartView 2021.1.1

'Deep Dives' offer more details on the new and enhanced features for this release.

Good Data Quality Indicator (DQI) for System Alerts

System Alerts take into consideration the Data Quality of readings while processing the data. Only data point readings with **Good** Data Quality are considered valid for triggering or clearing System Alerts. This will reduce notifications of any false alarms.

The different kinds of DQI that can be obtained for readings are described as:

1. **Good** - This is a reflection of the integrity of the reading collected, and is achieved when data polling is Normal. It takes into account the actual value of the data, its underlying calculation formula, and the timing of data collection.
2. **Uncertain** - This is received when device communication cannot be established, or the protocol used provides an **Uncertain** indicator.
3. **Bad** - This is found when a consecutive error of 5 times occurs, and device communication cannot be established, or the used protocol provides a **Bad** indicator.

Uncertain or **Bad** Data Quality can be obtained if the device does not provide a reading at the expected or specified time interval. In such a case, our platform logic substitutes the value of the reading with the last **Good** value collected, but marks it with an **Uncertain** Data Quality. If this lack of data collection persists, the substituted reading value is eventually marked with a **Bad** Data Quality.

- If a data point reading meets the alarm threshold, but has a data quality of **Uncertain** or **Bad**, the triggering of the System Alert will be suppressed.
- If a data point value falls below the alarm threshold and the data quality of that value is **Uncertain** or **Bad**, the active System Alert will not clear.

The triggering or clearing of a System Alert requires that the data point value be of **Good** data quality.