

WG13 Issues - CIM Issues #6736

Quality61850 Class does not match the definition of Quality in IEC 61850-7-2

03/12/2024 04:05 PM - Tom Berry

Status:	New		
Priority:	Normal		
Target version:			
Author/Contact Info:	Tom Berry	Standard(s):	IEC 61970-301
Base Release:		Version:	
Solution to be Applied To:		Clause:	
Solution Version:		Sub-Clause:	
Solution Applied By:		Paragraph:	
Completion Date:		Table:	
CIM Keywords:	61970-Meas	Originally Closed in Version:	
Breaking Change:	No	Origination Date:	
Breaking Change Description:		Origination ID:	
CIM Impacted Groups:	WG13	Originally Assigned To:	
Requestor:	Tom Berry		

Description

CIM definition is missing Inconsistent, Inaccurate Boolean
IEC 61850 does not define Source = DEFAULTED

```
Encoding is now
/* * Bit(s) Name      Value
0-1 Validity Good    0 0
Invalid 0 1
Reserved 1 0
Questionable 1 1
2 Overflow
3 OutofRange
4 BadReference
5 Oscillatory
6 Failure
7 OldData
8 Inconsistent
9 Inaccurate
10 Source Process 0
Substituted 1
11 Test
12 OperatorBlocked
*/
```

Proposed Solution

Update the CIM definition to match the IEC 61850 definition

Move the non-61850 attributes to MeasurementValueQuality

estimatorReplaced
suspect

Reference or replicate part of IEC 61850-7-2 Annex D and table D.1
D.1 Relation of the detailed quality identifiers with invalid or questionable quality

The reason for an invalid or questionable value of an attribute may be specified in more detail

with further quality identifiers. If one of these identifiers is set then validity shall be set to invalid or questionable.