

Relationship between substituted quality and mode and behavior needs clarification

08/13/2025 02:53 PM - Ben Day

Status:	New	Start date:	08/13/2025
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
ID:		To discuss in WG10:	No
Source:		Short Proposal:	
TF Unique ID:		Standard(s):	
WG10 Proposal:		Needs More Information:	No
Estimated Completion:		Assigned TF:	None
Discuss in Upcoming Meeting:	Yes		
Description			
<p>Part 7-3 in its definition of substitution and 7-4 in its definition of mode and behavior create a contradiction that should be clarified to help users understand how they interact to avoid unexpected results.</p> <p>Part 7-3 Table 16 provides the following definitions of subQ and subEna.</p> <pre>subQ: "Any element other than the 'q.source' can be substituted." subEna: "If 'subEna' = true, the data value and quality shall always be set to the same value as the attributes used to store the substitution data value and quality, ..."</pre> <p>If read alone it seems clear that if a user sets subQ.test=true and subEna=true, then q.test will remain true regardless of any other changes like Beh.</p> <p>But part 7-4 Annex A Table expects q.test=true when LN.Beh=test or test/blocked. For LN.Beh=on or blocked, it is less clear only stating: "Data objects will be transmitted with a relevant quality."</p> <p>If read alone this seems clear that q.test will transition with changes to LN.Beh.</p> <p>But when both parts are taken together, one must take precedence. Discussion of Tissue #814 favored allowing substitution of the test bit, and the 7-3 definition of subQ was updated accordingly. So, it seems that substitution may have been intended to take precedence over mode and behavior. If so, 7-4 Annex A should be clarified to indicate how substitution may interact with processing of incoming data.</p> <p>Note this situation seems likely to result in disparate vendor implementations and interoperability issues.</p>			

History

#1 - 08/14/2025 01:38 AM - Vladan Cvejic
- Discuss in Upcoming Meeting changed from No to Yes