



How does the Quality of a Trigger tag affect Exaquantum/Batch Custom Batch Data Collection?

If the quality of a trigger tag is UNCERTAIN or BAD then the trigger value will be ignored. Only values with a quality of GOOD are considered when deciding to trigger Custom Batch Data Collection. Whilst the quality remains BAD or UNCERTAIN no trigger will be raised.

To see the effect of this consider the following situation. In this example a value of 1 is the configured trigger value and the name of the trigger tag is trigger.

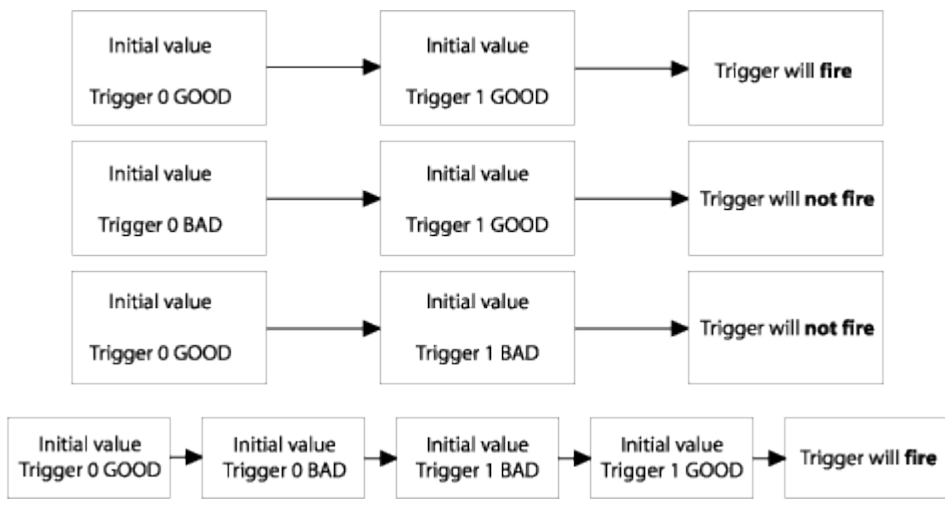
In the first case the values changes and the Quality remain GOOD. This will cause the trigger to fire.

In the second case the quality is initially BAD but goes to GOOD when the value changes to 1. This does not satisfy the quality rule as no trigger will be fired until the quality again becomes good.

In the third case even though the value is set to the trigger value the quality is now bad and the trigger will therefore not file.

In the final case we have the situation similar to that in case three but the Quality then goes from BAD to GOOD but the value remains the same. In this case the Trigger will fire. The reason for this is that two BAD values have actually been ignored by CBDC. This means that CBDC sees the value go from 0 to 1 both with GOOD qualities and therefore the trigger fires.

Note in these examples only GOOD and BAD quality are used if the quality is UNCERTAIN it will have the same effect as if the quality was BAD.





Note: In this last case the trigger time will not be the time the value changed from 0 to 1 but be the time that the Quality went from BAD to GOOD.

In summary data collection will only occur when the trigger tag value changed from one which is not the trigger value to one which is and both have a quality of GOOD. Any number of values with a quality of UNCERTAIN or BAD may occur between these two values.

Exaquantum /Batch Releases Affected

All
