MathIT is Australia's most experienced OSIsoft® PI System® integrator

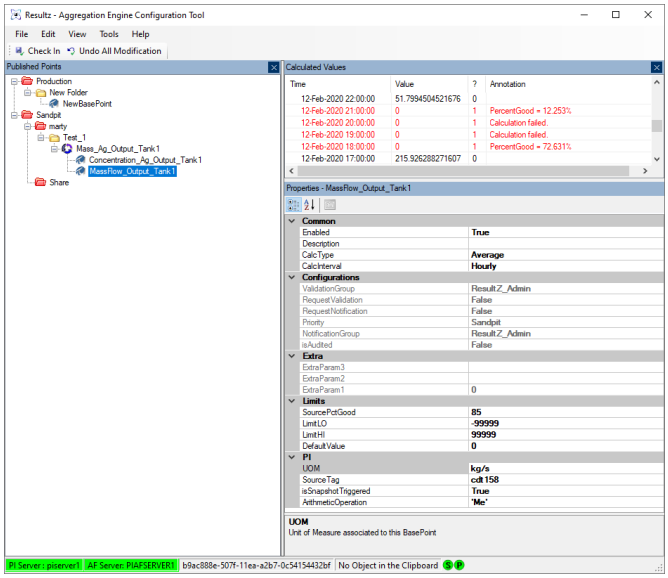
MathIT ResultZ

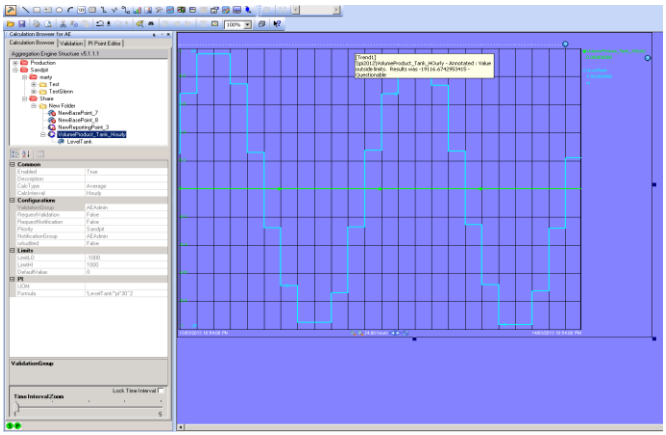
Graphical Calculation Engine with embedded Validation Process

MathIT ResultZ is available to any OSIsoft® PI Server® owner. It use PI Asset Framework and the PI Archives to exposes a simple and powerful interface allowing users to build complex calculations and to enable data validation requirements with only a few clicks.

The Standard Calculation Package supports standard aggregated calculations, such as Average, Min, Max, %Good, Delta, Total and StdDev and includes full audit trail, validation and notification features.

The Event Processing Package supports more advanced analysis functions like Time Above, Time below, Time Equal, Event count, etc. All these standard calculations can also be performed during specific event conditions. For example, you can calculate the amount of time where a value is above a set point while a pump is in 'Running' mode or the maximum current consumption associated to a motor while the equipment is in 'starting' mode.





A PI ProcessBook® Add-In is provided to allow groups of users to leverage on PI Group Security and identities to perform validation on data that is automatically recognised as being questionable. Calculated data is, by default, only made visible to people that are part of the selected validation group, to ensure that market-sensitive information is not exposed to external parties. MathIT ResultZ leverages the full security model native to the OSIsoft® PI System® infrastructure.

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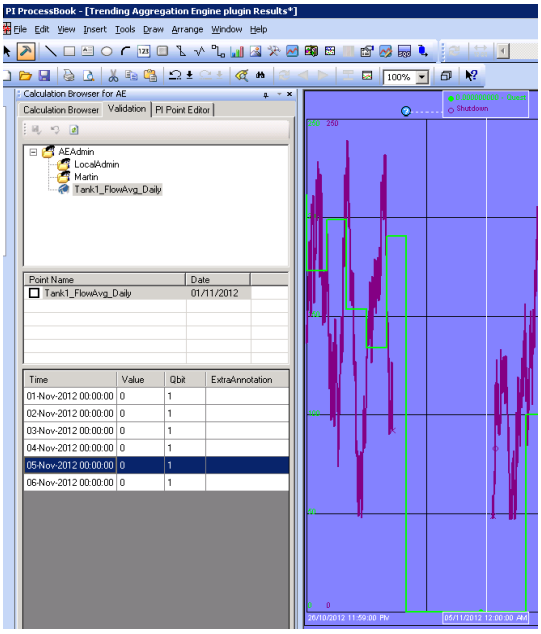
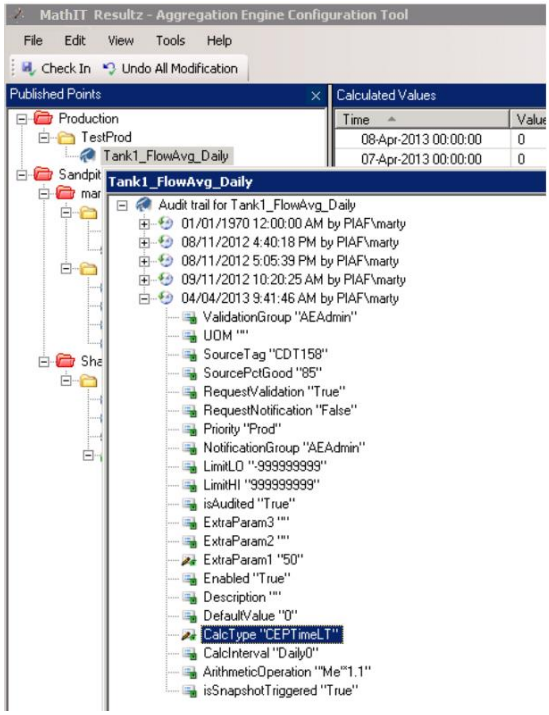
MathIT ResultZ ensures that you spend time validating data only when the calculation values are outside the expected boundaries or when source data availability (% Good) is less than a configured level.

Within PI ProcessBook®, with the help of ResultZ, you can easily locate and investigate the source data used for the calculation. You can than assess the situation and perform an educated validation by replacing and annotating the calculation result.



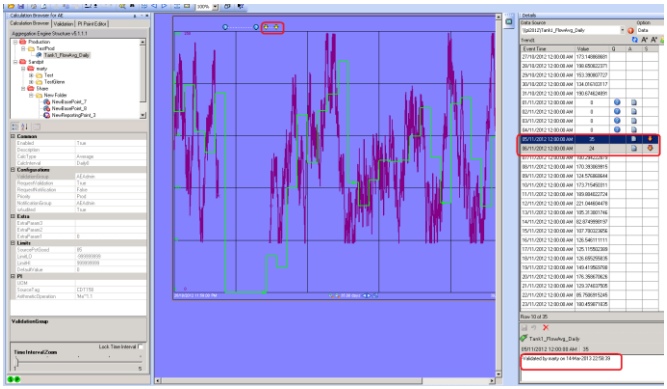


Re-calculations are automatically performed upon validating/changing a calculation result or when manually triggered. Following any validation event, a recalculation will be performed to keep your data synchronised with the latest change. Changed data can be easily visualised in PI ProcessBook®.

The MathIT ResultZ web service is also available to expose calculations results to any external data warehouse or third-party applications. This web service will also return any changed/recalculated data to the calling application, keeping your data warehouse up to date at any time.

All changes, both data and configuration, are fully audited. Roll back of configuration data is easy and calculated data can be annotated to ensure that the time and individual responsible to the change is permanently stored in the system for future reference.

This information can be audited with any OSIsoft® PI System® client application tool, including PI Datalink®, PI ProcessBook®, PI OLEDB®, etc.



If you'd like to know more about ResultZ, or any of the other products available in the MathIT eZ Suite, please contact us at martin.thivierge@mathIT.com.au

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