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ClashManager – efficient clash management for Intergraph PDS®

Introduction:

ClashManager dramatically improves productivity of clash management in Intergraph PDS by eliminating 90% of falsely reported clashes and providing a simple approach to reporting, viewing and approval of clashes.

Common issues:

Although Intergraph PDS is well proven and is being widely used on the world's largest engineering projects, the area of clash management brings its own challenges.

The PDS interference check usually produces a very large list of items that clash, in most cases these clashes should not be reported. This can lead to an overwhelming list of many thousands of clashes that need to be reviewed. This can lead to…

- A large number of man-hours required to review, verify and eliminate false clashes
- The potential that true clashes could be missed as a result of the volume of clashes to review, which in turn could lead to costly on-site rework

The person performing the clash run is not necessarily the same person that needs to review, approve or fix the clash through a design change; therefore it is important that any clashes identified can be reported in a clear, simple and concise manner.
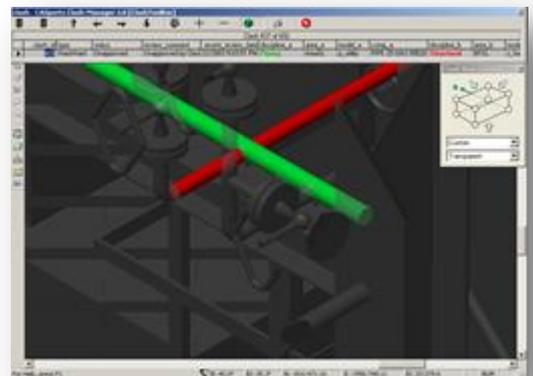
Discrepancies within the PDS models are not always easily identified and some will result in the Envelope Builder process to be run several times leading to increased man-hours on the project.

ClashManager has been specifically designed to address these issues and provide an integrated environment for viewing, reporting and approving clashes efficiently.

Rule based clash filtering:

One of the major strengths of **ClashManager** is its rule base clash filter. Pre-defined rules can be applied to all the PDS® clashes. This reduces the clashes to the relevant ones. The user can define the grade of automatic approval for every project individually. All clashes are displayed in a data grid, where they easily can be filtered, reviewed and approved or reported.

There is typically a 90% reduction in the number of clashes that need to be reviewed after the clash filter has eliminated the false clashes. This saves a significant number of man-hours and reduces the risk of overlooking the true clashes that would be very costly if they are not identified prior to fabrication and erection.
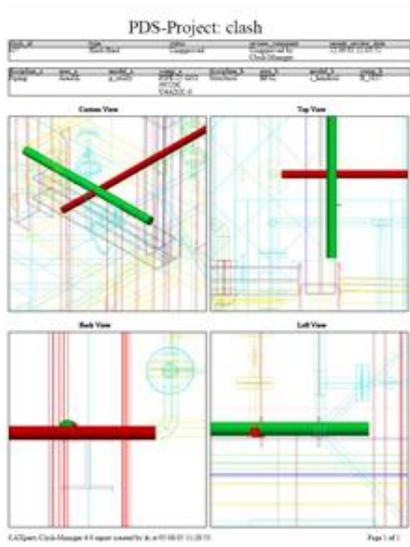
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Envelope Builder & Interference Checker:

ClashManager uses the PDS Envelope Builder & Interference Checker and they can be launched from a user friendly interface. ClashManager controls the batch processes to guarantee that envelope generation is completed for all models where there are no discrepancies. The resulting report highlights the models using different colours to indicate the status, making it easy to understand where there are issues that may need further attention. This approach also reduces the number of man-hours traditionally associated with this process.

Viewing and reporting:

All clashes which are not approved by rules can be reviewed immediately in Bentley MicroStation® or Intergraph SmartPlant Review® directly from the **ClashManager** user interface.

The report function can be used to generate a four view PDF report of the clashes which can be forwarded on to the design team for further action.

Benefits:

- Significant time reduction (90% of the man-hours) for clash checking, PDS® clash checking is made efficient by focusing on relevant clashes
- Effective and early collision detection prevents additional costs during erection
- Clashes can be effectively communicated to design team members using the standard report outputs
- An "out of the box" solution requiring no configuration and an immediate return on investment on your first project.

Next steps:

If you believe that **ClashManager** may be of value to your organisation, please contact your nearest CAXperts office for further information. We will be happy to provide more detailed information and discuss your individual requirements in more depth.

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