Data integration in plant lifecycle data management using iRING

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Management of the master documents for an operating facility today tends to be focused on the control of the paper-based document which have some inherent limitations; many copies of the same document can be circulated, consolidation of changes is a manual process, finalizing change at project closeout can be ambiguous, and the "master document" is often controlled from one location which can become a bottleneck. The needs and problems of an owner/operator will be described and the possible answers of a software provider will be given.

This paper will demonstrate the use of iRING technology and the ISO 15926 plant information standard to implement an object based workflow that streamlines data changes, minimizes IT support requirements, while allowing each department to efficiently contribute to the data lifecycle. Information originated from the process design department using an in-house application will be propagated into several applications including P&IDs and Data Sheets and this paper will explore the implementation of iRING technologies with maintenance management solutions. The advantages of using open standards based data exchanges will also be highlight by considering alternative workflows and applications without impacting upstream or downstream work processes.