



A Rockwell Automation Company

Hinz, A Rockwell Automation Company PMDS - Project Management Database System

The Client:

In 1990 Hinz developed a suite of programs written in C and in FoxPro to merge data from various project databases with native AutoCAD (ACAD) drawing files. This suite of programs was linked into our project database and could potentially be linked into the materials management and the scheduling databases, thus making it a Project Management Database System or PMDS. Although it has not yet been linked to scheduling or materials request databases for project use, it remains a valuable tool to Hinz for yielding high volumes of drawings that are derived from typical ACAD drawings. Drawings are expensive and important records for projects. Many clients and manufacturers use "typical" drawings with tabular indices for detailing valve wiring, motor

schematics, instrument loop terminal wiring, terminal layouts, even P&IDs. After installation, commissioning, years of service and numerous field modifications, the typical drawings either do not get updated or have turned into a series of marked up sheets that hardly represent the actual wiring or the typicals. In all cases detailed drawings for each item are preferred but are more costly, sometimes too costly for projects. Hinz in many cases, can use PMDS to create the many detailed drawings at a fraction of the cost of creating and maintaining them through the course of a project.

The Requirement:

The client requires 300 motor schematics and 400 instrument loop diagrams to meet site maintenance requirements. Each motor control schematic must contain the terminal wiring numbers, wire numbers, I/O addresses, equipment description, location, MCC information, contractor, part numbers, breaker size, protection settings, size and wire size. There is a motor list in excel and an MCC list in a procurement database. There are seven different types of drawings that need to be created for each instrument. There are

four different pressure transmitter types, two temperature transmitter types, two level transmitters, one PH transmitter, one position (dv/dt) transmitter type, one weight. There is a well maintained database with everything but the wiring information. Wiring for each is through one or two junction boxes and uses typical wiring for either DCS or PLC I/O.

The Design Solution:

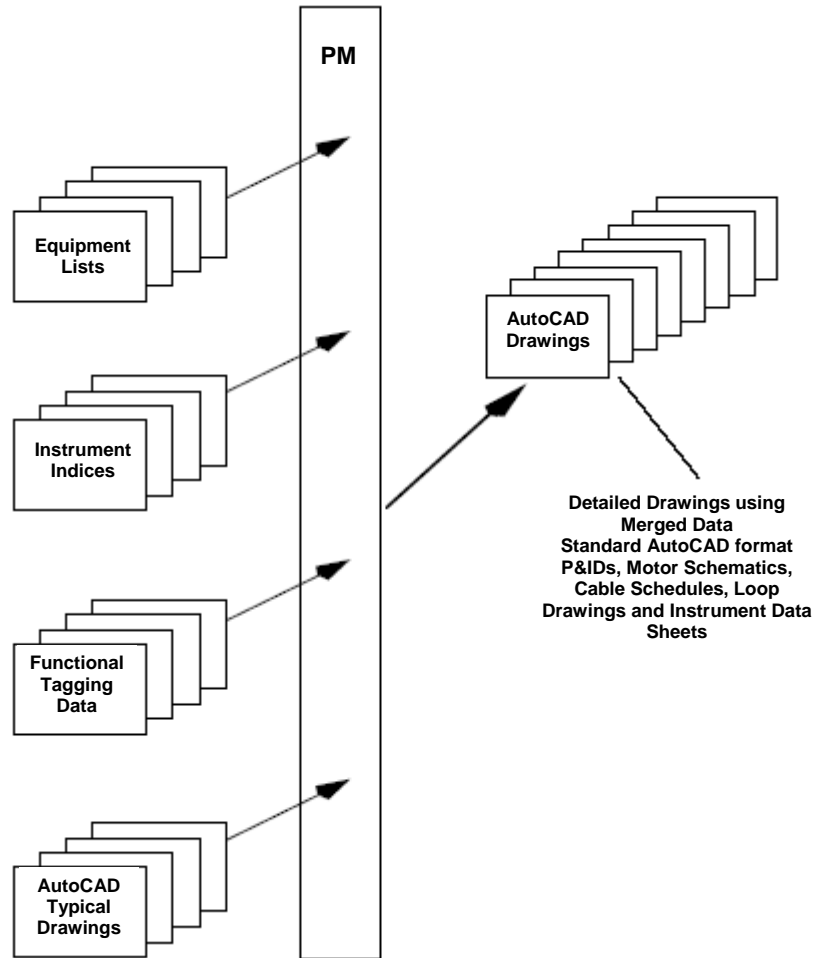
Motor control drawing databases are created. A list of each typical drawing type, list of drawings to be created, combined database of the motor list spread

sheet, the procurement database and the PLC I/O database.



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System Specifications:

- Excel Spread Sheets
- AutoCAD (ACAD)
- C and FoxPro procurement database

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com