



A Rockwell Automation Company

## Meadow Lake OSB Limited Partnership MLOSBLP —Meadow Lake Saskatchewan

### The Client:

Tolko Industries Ltd. and its partners Crown Investment Corp., Meadow Lake Tribal Council and North West Communities have formed a limited partnership. The newly formed company is called

Meadow Lake OSB Limited Partnership (MLOSBLP). The plant, designed to produce OSB at a rate of 600MMSF annually on a 3/8 inch basis, is built near Meadow Lake, Saskatchewan.

### The Requirement:

MLOSBLP selected Hinz as their electrical and control consulting partner.

Hinz was responsible for providing the electrical/controls engineering services for the construction and commissioning of a Greenfield Orientated Strand Board plant. The new plant is designed to produce 600 million square feet of 3/8" OSB per year. The process consists of two log ponds, two drum debarker lines, two stranders, two green bins, two hot oil energy systems, two drum dryers, two dry bins, one wax & resin system, two drum blenders, one OSB forming line, press & finishing line, and one plant wide pneumatic dust system.

MLOSBLP wanted a Management Information

System (MIS) that would:

- Provide automatic data acquisition of the vital process and test lab information.
- Produce daily and "on demand" reports that were accurate and consistent.
- Coordinate information between the process systems and the test lab.
- Provide "Down Time" Analysis.

### The Design Solution:

The MIS was designed using Wonderware's MIS software as a natural extension to the existing Wonderware InTouch HMI system which is used to control the plant. This software is called IndustrialSQL (InSQL) Server. InSQL Server can track up to 5000 data points and acquires the data in real time at full resolution. The InSQL Server automatically acquires data from 10 HMI stations, and from the Test Lab PC. For this application, the InSQL Server is continuously tracking 350 data points. One requirement for the MIS system is to track the key process information for each master OSB panel produced. The plant produces 12 master OSB panels per minute on a 24 hour a day basis. The InSQL Server records 26 quality control data points for each master OSB panel produced. This requires the InSQL Server to obtain the process

information at a very high rate of speed and because of the volume of information that needs to be recorded it has to efficiently compact the information.

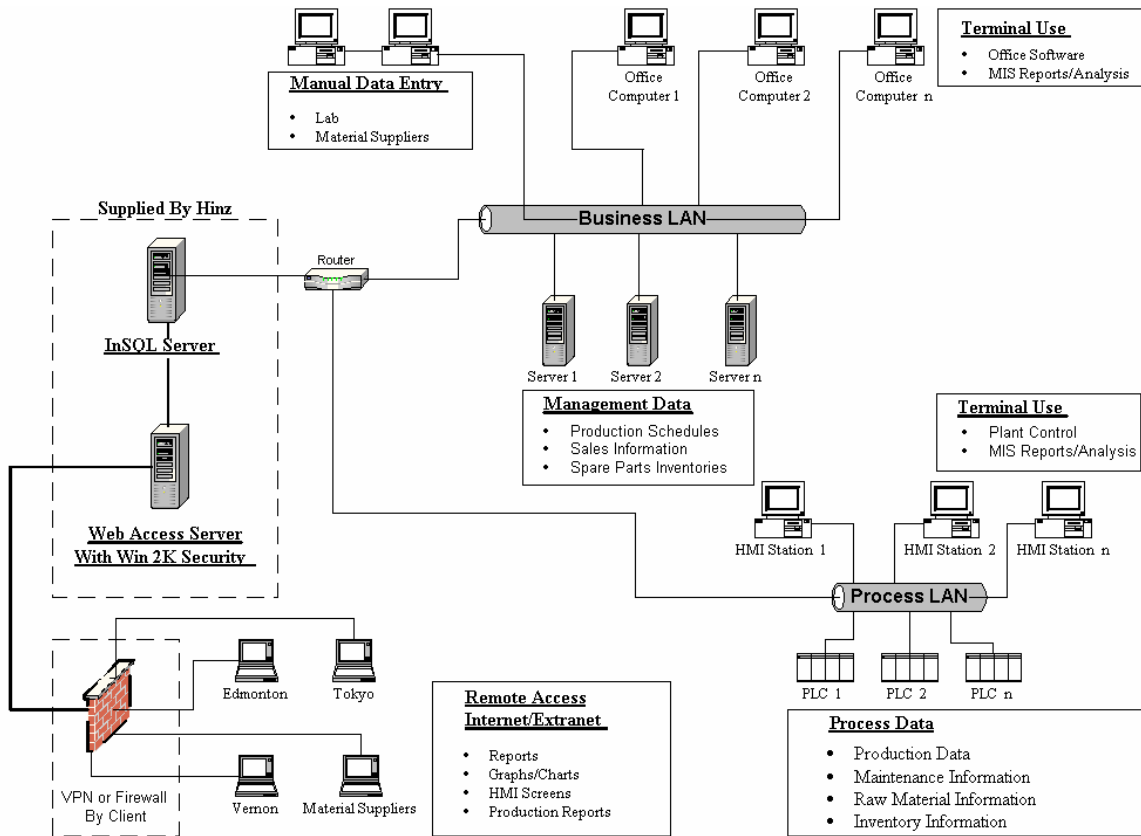
The reports are generated through a Web-based information system using asp.net technology. The reports can be viewed over the plant intranet system or over the internet using a VPN connection. The MIS generates several different types of reports which include:

- Production Reports
- Board Quality Reports
- Downtime Reports
- Process Efficiency Reports



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## System Specifications:

- IndustrialSQL Server
- Wonderware software
- Asp.net
- Rockwell RSLINX communication software

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

[www.hinz.com](http://www.hinz.com)