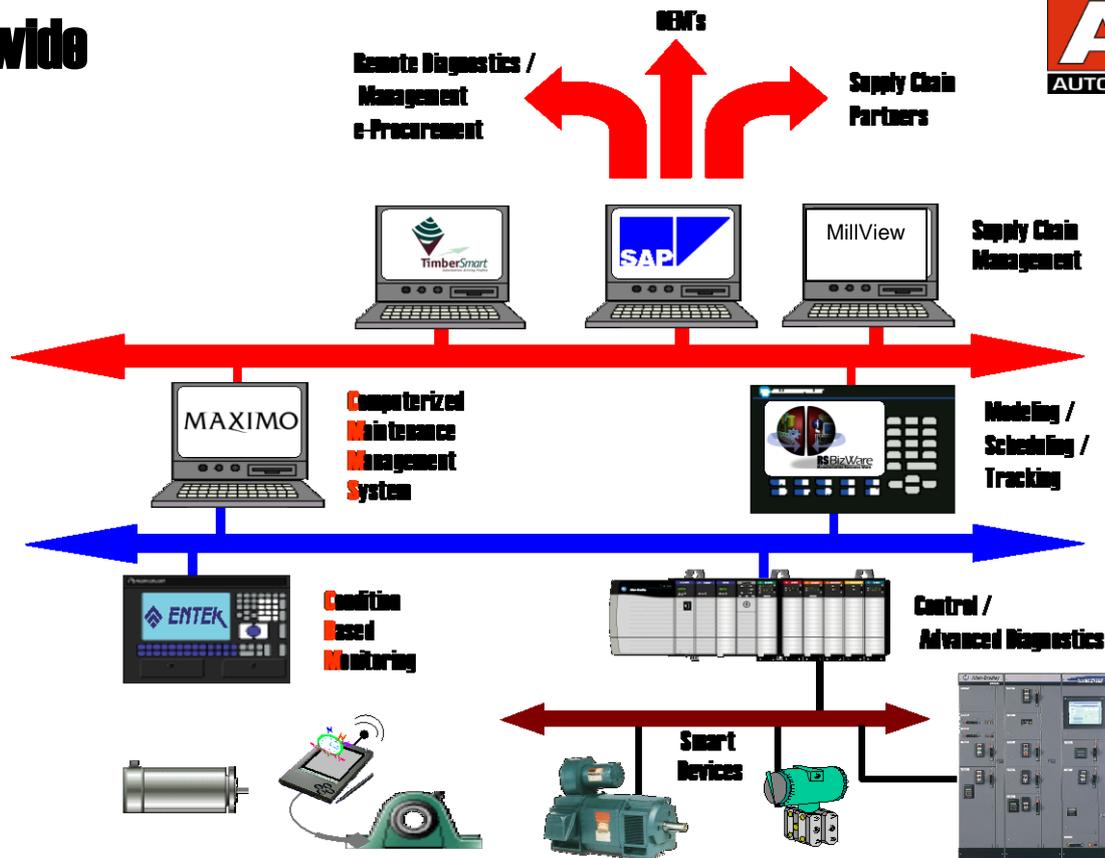


Millwide - e-Manufacturing

Millwide



AE MillView™ (Millwide Web)

AE MillView is based on providing a Centralised SCADA PC that connects over the entire controls system , The PC comes with unlimited tag licence , multi-user client server (5 in the basic configuration) for access to Millwide reporting via Internet Explorer . This central PC will provide HMI screens for the Main Sawmill production line and connectivity to the various optimising reporting systems and connectivity to any of A&E 's downstream software products (ie:AE Networks , BinView (Sorter Software) ,EdgerView ,TallyView , Dryspec /DryZone (Kilns) ,BoilerView etc. Features include Production Reporting ,Trending ,Conversion, Alarming and Downtime reports .The base system also incorporates Cellular Text alarming for remote monitoring of high risk equipment and alarm conditions Add on options such as OEE for Maintenance scheduling and Energy Management , Condition Based Monitoring

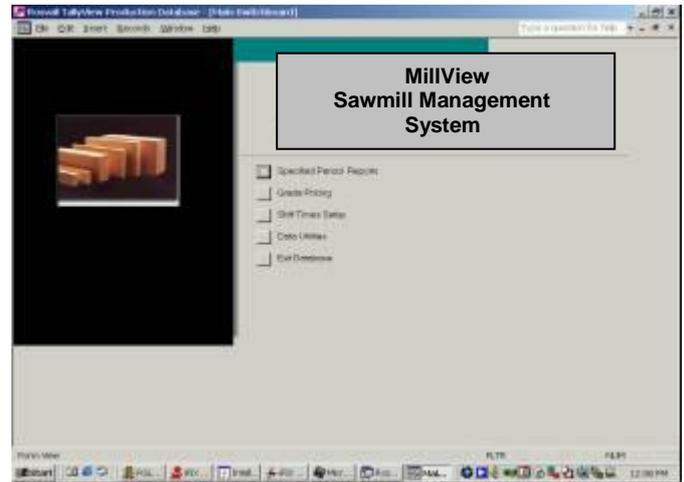
A&E has completed many installations that communicate over Ethernet into a mill reporting system . On smaller sites this may involve integration into the local users IT system such as TimberSmart or for larger applications SAP .Either way A&E can engineer and customise a gate way from real-time sawmill production to a comprehensive MS Access or SQL database .This data can be connected online or polled and uploaded by the IT network.

Ethernet provides a common architecture that is available for data collection, optimisation,controls systems and is supported by every major computer and peripheral manufacturer and will continue to evolve as a long term platform . We recommend you consider a VPN (Virtual Private Network) for remote a access and support , this allows us the ability to carry out software updates easily and email to vendors for support .

Connectivity should be over a hardwired LAN (F/Optic) however for some parts of the plant connectivity is available using wireless technology also . You may wish to also consider Ethernet based video systems for capture of production related information , we can offer a range of Ethernet IP compatible cameras and multiplexes from Panasonic .

Our MillView™ Management system will enable you carry out some of the following functions:

- Collect data from Ethernet based PLCs (Alarms ,downtime etc)
- Collect comprehensive information in MS Access or SQL Database
- Collect production information from each machine centre (piece count, grades, dimensions ,packet data etc)
- Trend and graph Mill production and analyze versus previous days production
- Monitor data and alarms in real-time
- Customer created reports in Excel, Crystal Reports
- Autolog /MPM Interface for Log studies and Simulation, Compare actual results of Optimisation Study effects of changing board parameters, wane rules , Target dimensions and pricing.
- Send alarms via Cellular text message
- Displaying real-time production information



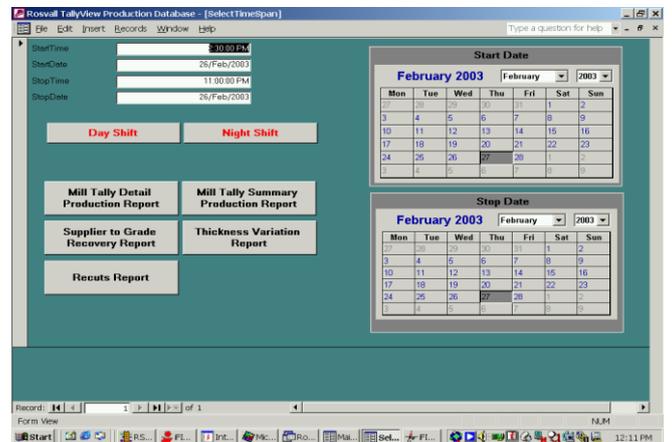
The Mill View™ management reporting system can be configured on various SCADA platforms inc iFix , RSView ,Wonderware and is customized to the clients requirements .

HMI – Human machine Interface

The HMI interface provides operators and production Management with a user friendly interface to the Control system.

The maybe password protected to ensure that only Qualified personnel may be able to enter relevant data That is critical to target production .

The HMI also reduces the time required for basic Troubleshooting,fault analysis and provides access to The routine tuning of the Networks and various timers And counters ,



The screenshot displays a 'Production Summary' report table. The table has columns for 'Grade', 'Pieces', '%Gr', 'Meters', '%Gr', '10fms', '%Gr', 'Avg Thickness', and 'Avg BlkH'. It lists various grades like CLEARS, CUTTINGS, FRAMING, etc., and includes a 'TOTALS' row at the bottom.

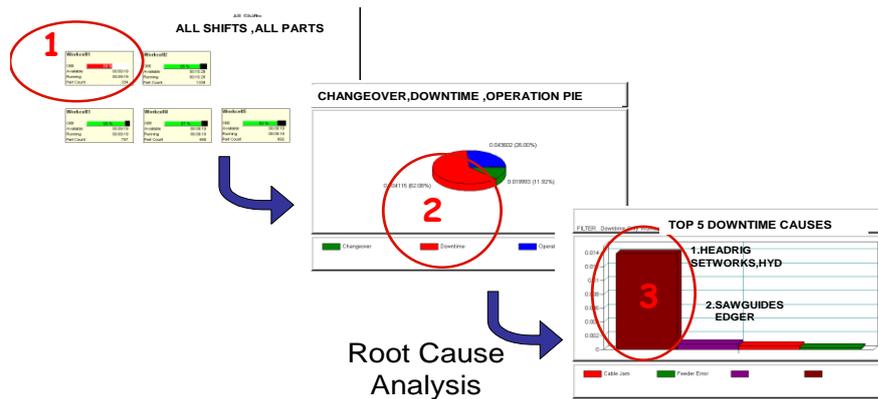


Real-time Display - A&E manufacturer a range of super bright LED displays that can be remotely mounted At various locations throughout the mill . The super bright 100mm high displays can be seen From upto 30 metres away and can display alarms, production, piece counts, lug speeds and Bin status and various other information that can be communicated to factory floor personnel



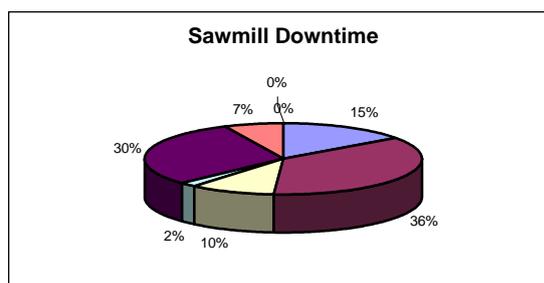
Using OEE to Increase Efficiencies

OEE - Drilling into the data



MillView™ - OEE enables your mill the ability to divided your process into multiple Sectors and drill down on performance inefficiencies . This means identifying Causes of downtime caused through operators, plant machinery , electrical Equipment .

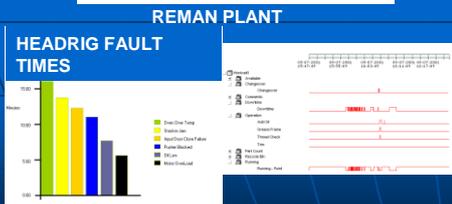
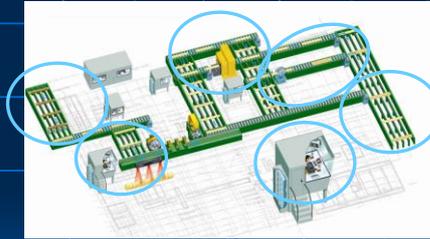
OEE enables Mill management and maintenance personnel to identify re –occurring Problems that contribute to plant downtime.



Using OEE to Increase Efficiencies

Asset Model & Report Levels

- The factory is broken down into a plant model.



- Reports are broken down into levels.
- This allows us to publish data in varying detail and enables users to drill into the right data, quickly.

AE Millwide Software & Control System Architecture

