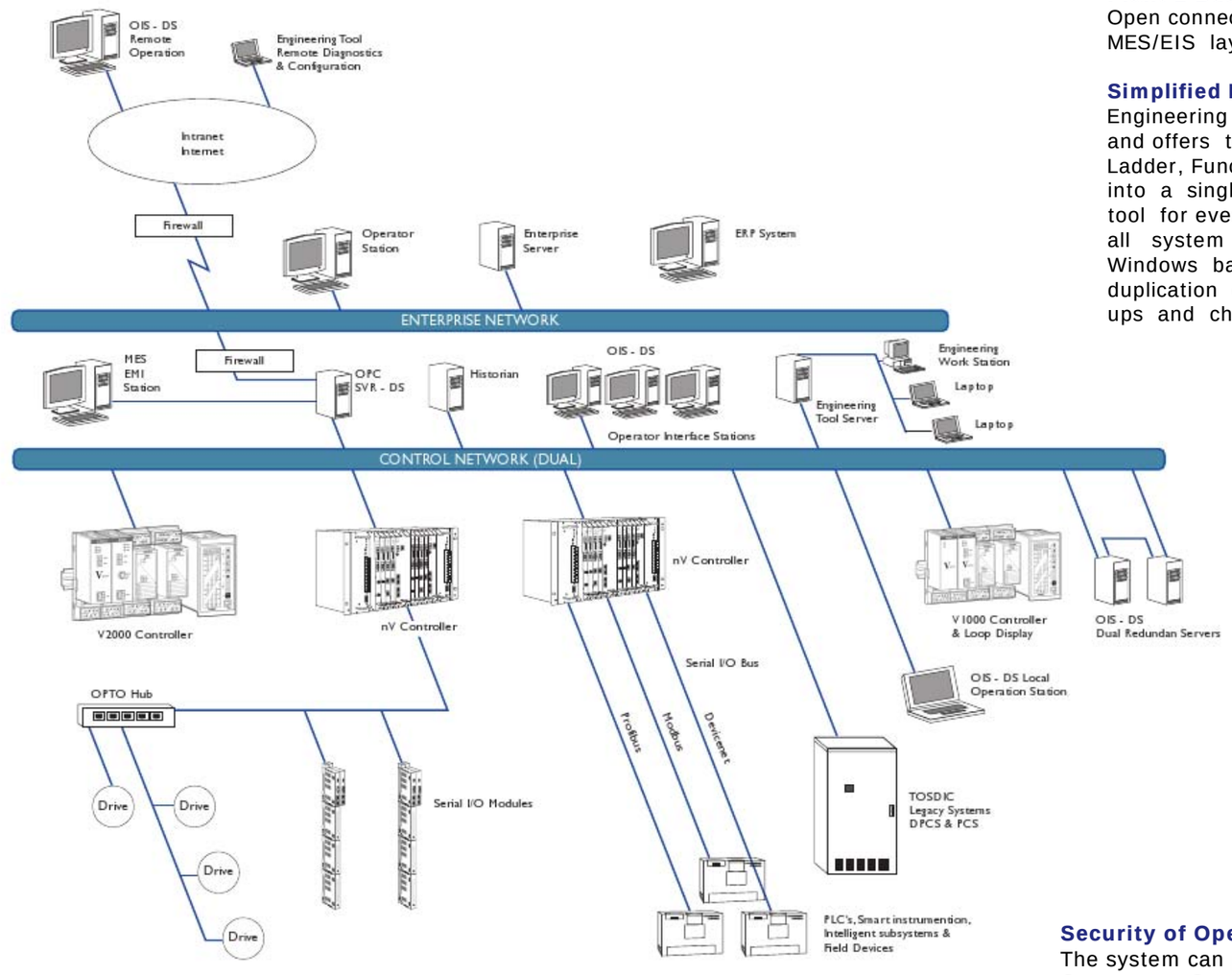
TOSDIC CIE : PROCESS CONTROL & BEYOND

The latest evolution of Toshiba's TOSDIC CIE control system provides, class leading throughput and execution speed, wider connectivity to the field, open architecture, integration with the Enterprise network and much much more.
All this in a scalable package to meet small and large applications with TOSDIC's legendary robustness, reliability and low lifecycle cost.
With over 30 years experience in DCS and advanced control systems, Toshiba and Toshiba's Systems Engineering teams meet the Global challenges of modern processing plants and businesses.

Toshiba is among the world leaders in Process Control and manufactures Motors, Drives, Controls and Instrumentation products.
From product supply to complete plant design, turn key installation and commissioning, Toshiba can ensure integrity of design and security of operation.
In Oceania, Toshiba International Corporation Pty, (TIC), supports Toshiba's global operations with Process Design, Systems Engineering and Service with offices and workshops throughout Australia.



TOSDIC CIE Supports

Plant 2 Business
Open connectivity to the Enterprise Layer and MES/EIS layer application packages.

Simplified Engineering
Engineering Tool 4 is IEC61131-3 compliant and offers total freedom to mix and match Ladder, Function Block and Sequential Function into a single Work Sheet providing the optimal tool for every part of the project. Configuration of all system elements through this single, Windows based, Engineering Tool avoids duplication of effort and facilitates faster start ups and changes. .

Scalability
The system starts at the V1000 controller for micro DCS applications through the V2000 and up to the **nV** to cover all scales of system applications with economy. All the Controllers within the family share common communications & engineering.

Fast Control Execution
Uniquely to TOSDIC CIE, the instructions within the IEC 61131-3 compliant language are processed within their own dedicated processor at a processing time down to 20 ns, providing a platform suited to ultra fast machine control as found in the metals, mining and paper industries.

Security of Operation
The system can provide full redundancy from Input Output to Operator Interface and with secure hierarchical password logon.

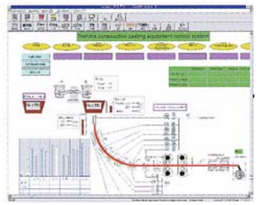
Plantwide Integration
The TODIC CIE system supports multiple interfaces for Drives, PLCs, Instrumentation and other alien devices.

Ultra High Speed Networking
The new **nV** Controller features 100Mb/s Serial I/O system which is fast enough to facilitate both Process & Electrical Control.

TOSDIC Control Systems have been installed in Steel, Cement, Water, Mining, Chemical and many other Industries throughout the region with "commission and forget reliability". Toshiba TOSDIC systems have achieved continuous evolution from their earliest appearance, in the 1970's, to today with many of the original components still in service and co-habiting with their more modern counterpart as a single system.

TOSHIBA

TOSDIC CIE Operator Interface Stations OIS-DS



TOSDIC CIE can be implemented using its own powerful Window based HMI, OIS-DS or most industrially recognised SCADA packages.

OIS-DS is an intuitive full graphic operator interface specifically designed to maximise the power of the TOSDIC CIE controllers. It uses a 'Tag' system which combines IO points into functional blocks replicating the actual plant item and their associated controls, for example Cascade Controllers, Motor Control Stations etc.

The OIS-DS top down display hierarchy enables the operator to quickly drill down to problems with minimal key strokes. Process and System alarms are highlighted in all displays but can prioritise operator actions by selecting the most important alarm and suppressing the secondary ones. Trending and Report generation complement the process displays.

TOSDIC CIE Controllers

For less demanding applications or smaller DCS nodes the TOSDIC-CIE V2000, below, and V1000 controllers complement their larger sibling, happily cohabiting the same networks and sharing the same data, engineering tool and IEC6113-3 conforming programming languages.

The nV Controller, shown above, is state of the art technology & the most powerful unit within the TOSDIC CIE range.
It features high capacity Loop, high speed Sequential and Logical processing & is capable of the most demanding operations within industry.

TOSDIC CIE Communications

TOSDIC CIE is an Open Architecture System with communications based on recognised industry standards. The Control Network is a 1Gbps Ethernet LAN. Inter-controller communications & serial I/O operate on Toshiba's, IEC standard Real Time Ethernet, TC net. Serial interfaces are also available for most common devices such as Modbus, Profibus, Device Net etc.

Increasingly Real Time Plant Data is being exchanged with the Enterprise System in the MES Layer to automate the order process, quality control and OEE. TOSDIC CIE provides this interconnectivity.

TOSHIBA INTERNATIONAL CORPORATION PTY LTD AUSTRALIA
2 Morton St, Parramatta NSW Australia 2150
www.toshiba.com.au
Phone (02) 9768 6600 Fax (02) 9890 7542
Sydney-Perth-Maitland-Melbourne-Brisbane-Tokyo-Singapore-Houston-London

EG16057 J R0

TOSHIBA

Leading Innovation >>>

TOSDIC-CIE

Toshiba Integrated Control System