

Accessibility and Interoperability of Control Systems

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Accessibility and Interoperability of Control Systems

Control Systems Development – Older Systems

Simple but Effective Process Control

Relatively ‘Dumb’ Components

Limited Accessibility

Limited Data Handling, Storage & Comm’s Capacity

Basic Reporting

Little Interoperability

**Difficulties with ‘External Communications’
‘Upgrading and Integration’**

Accessibility and Interoperability of Control Systems

Control Systems Development – Comments

Many Systems from date from the 80's & 90's

Large Number of Suppliers and Integrators

Variety of Hardware & Software

Rapid Development of Systems – H/W, S/W, Comms

Vendors Bespoke Systems

Vendors Bespoke Integration Packages

**Difficulties with 'Open Systems'
'Systems Integration'**

Recent Trends in Control Systems

Number of Systems is reducing

Client Investment in updating is poor

Client Technical Input is reducing

Client Maintenance and Development is reducing

**Client Ownership is Transferring to an
'Administration Only' Status**

Accessibility and Interoperability of Control Systems

Changes in Client Focus – Business Environment

Increasing Commercial Pressures

Stringent Budget Control

Less Engineering Control of Resources

Quality - Must be Achieved

Standards – Must be Achieved

Reliability – A Key Commercial & Technical Factor

Openness – To Customers, Statutory Bodies etc.,

Reporting – To Internal, External, Non-Technical

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Changes in Client Focus – Business Approach

De-Manning of Operations

Stepping out of Engineering Support

Less Input into System Development

More Complex Control Strategies

Increased Standards

Increased Security and Safety

Increased Data Handling & Information Transfer

Transparancey and ‘Value for Money’

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What does this Mean for Us

Minimized Client Input

Broader Scope of Service

Higher Standard of Service

Change in Focus of Delivery

Testing & Validation

Technical Support & System Development

Maintenance, Safety & Security

Quality Control

Data Handling & Communication

Alternatives for Existing Systems

Buy New and Dump Old

Buy Some New and Interface with Old

Upgrade Old

Buy Second or Parallell and Phase out Old

Do Nothing and Make Do

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Changing Systems – Some Points

Intelligent Systems Advances

Accuracy and Reliability of Source Data

More Standardization

Advanced Control Strategies, Predictive Control

Development of Testing and Validation

Data Handling & Transfer – Speed & Security

Data Storage – Larger Volumes, Better Security

Connectivity and Communications

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‘Where Innovation Will Matter’

Interfacing with Older & Custom Systems

Standardising across a Wide range of Solutions

Reliability and Guarantee of Supply

Future Proofing Investment - VFM

Security and Longevity of Data Storage & Use

Communications Options – WEB, MIS, Remote Access

Support

– Maintenance, Development,
Validation and Testing,
Quality Control, Security, Safety