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01 Connectivity islands
linked by OPC UA.

Classic products can be accomplished with COM/Proxy wrappers that are available from the OPC Foundation.

In addition to many other improvements, OPC UA supports semantic data description and was developed to be “firewall-friendly” ie, it can be managed and steered using standard network techniques. 128 or 256 bit encryptions are used to secure data during transmission, as well as certificate exchange, sequenced packets and message signing, amongst other techniques.

The multi-layered architecture of OPC UA is intended to provide a “future proof” framework, capable of incorporating, for example, new security algorithms or transport protocols, whilst also maintaining backwards compatibility.

Within organizations one will always find islands of data and they don't necessarily share information between them easily. OPC UA overcomes this and makes it very easy to move data between enterprise systems and monitoring devices and

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OPC UA makes it very easy to move data between system, device and sensor “islands”.

sensors that interact with real world data →01. One of the key features of OPC UA is that it can be supported on a wide range of components from low end sensors and tiny embedded controllers to high end servers, making it an important and useful standard that can be widely applied to connect and share between the data islands. •

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