


# Batch Execution





# Increase consistency, improve visibility and optimise your operations

With increasing customer demand for ever changing, low cost, high quality products, set against a backdrop of tight regulations, batch production techniques should, in theory, enable effective just-in-time, lean manufacturing.

Is the cost of your batch execution system outweighing the benefits multiple product, batch based production can offer?

The reality of non-standard or complex automation systems, custom code and poor scheduling/campaign planning results in unnecessarily long cycle times and downtime, reducing profit margins.

Astec has many years experience successfully implementing batch execution systems and can offer a range of services from initial consultancy to full project implementation and commissioning.

By adhering to industry standards such as S88 and S95, an Astec batch control system will provide a highly supportable and extensible batch execution system to help your manufacturing organisation remain adaptable and profitable.

Astec can work with your existing, preferred PLC vendor to provide the underlying control system. All PLC software adheres to well documented standards to implement structured equipment modules and control modules and phases.

While a number of vendors supply batch execution software, Astec recommends the Proficity Batch Execution product supplied and supported by GE Intelligent Platforms.

## **Proficity Batch Execution**

Proficity Batch Execution is a complete solution for batch processing and control, to help you to achieve new levels of efficiency, profitability and security throughout your entire production process.

Through a robust set of tools, an open architecture and an intuitive user interface, Astec integrates Proficity Batch Execution to help you to transform your production processes, increasing consistency, improving visibility and optimising operations to achieve that much needed competitive edge.



Proficy Batch Execution adheres to all the leading industry standards, platforms and technologies, including:

- ISA S88.01 (batch and terminology model)
- IEC 61131-3 Sequential Function Chart programming language
- Microsoft COM/DCOM
- Windows 2000/2003/Vista/7, Windows NT/Server 2008
- OLE for Process Control (OPC)

Development within the Batch Execution application is fast, simple and effective. You can model your plant floor equipment, add equipment paths, equipment priority and unit status, plus create and manage reusable recipe components, all using the S88.01 models. The workspace enables you to edit equipment and recipes, develop pictures, and even configure security and alarms.

Using the Work Instruction add-on, you can also define operator workflow activities and do it all within the same batch record and in a manner consistent with the regulations.

Further enhancing the versatility of the Proficy Batch Execution solution, the application seamlessly integrates with any OPC-compliant SCADA, PLC or DCS system, allowing OPC browsing to establish connection and automatic creation of tags.

Through the powerful yet easy-to-use Batch Execution application, you'll be able to:

#### **Improve production efficiencies**

Batch Execution helps to maximise equipment utilisation and minimises changeover time and helps to reduce batch cycle time, resulting in increased capacity and throughput.

#### **Simplify enterprise connectivity**

Batch Execution enables information sharing across the entire business, empowering you to download recipe and formula information from enterprise-level systems and upload electronic batch records and production actuals.

#### **Accelerate New Product Introduction (NPI)**

Using Batch Execution, companies can get new products to market faster than ever before by providing reusable recipe components, a common equipment model and process simulation capabilities.

#### **Address regulatory concerns**

Designed specifically to address the complex yet critical demands of regulators, the robust reporting, recording and security features inherent to Batch Execution and Work Instruction play a critical role in the development of your compliance strategy.

#### **Reduce costs & boost ROI**

Because Batch Execution delivers a diverse array of development tools, communication options and compliance-enabling functionality, you'll be able to reduce life-cycle engineering and system maintenance costs. Through the enhanced connectivity options for business-level systems, your company will also be able to make better, more informed business decisions based upon real-time information.



#### **Batch reporting**

Astec has developed a comprehensive reporting system to work in conjunction with Proficy Batch Execution. The range of reports, developed using Microsoft SQL Server Reporting Services and delivered to the user via their browser, provides production managers with a detailed, unified view of the batching operation to facilitate continuous improvement regimes.



### **Improving Operational Effectiveness**

Astec strives to improve operational effectiveness and profitability for our clients by delivering specialist management, production and monitoring information technology solutions.

We implement solutions for many of the world's leading enterprises across numerous sectors including Broadcasting, Food & Beverage (F&B), Power Generation, Utilities, Pharmaceuticals and Consumer Packaged Goods (CPG).

Astec is a Premier Solution Provider (PSP) for GE Intelligent Platforms. Our strategic partnership enables us to utilise our unrivalled product experience and depth of knowledge throughout Europe and North America.



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