Atlas® Software Suite

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The Atlas Software Suite offers a range of software solutions designed for use in digital print systems. From individual software components, integrated RIP solutions through to complete Digital Front Ends (DFE), GIS Atlas software can be used to enhance existing or build new systems. Built using next generation server and User Interface (UI) technology, Atlas software is designed to deliver performance, stability and flexibility to meet the requirements needed by a wide range of customer and digital print applications.

Build your Own DFE Using Atlas

Atlas Server is a high-performance and configurable platform built on the latest .Net Core technology. It supports user-configurable job management and processing, integrated and distributed RIPs, ink delivery, motion and automation control, and can be extended to integrate all controllable sub-systems to provide a single point of control for all clients. Complementing Atlas Server is the Atlas Pro User Interface platform, which offers machine builders configurable UI technology that can be customised to meet each application and customer requirement. Modular and extensible, Atlas Pro UI offers short time to market development while supporting customer branding and existing UI reuse.

Atlas Server

Atlas Server is a configurable machine control software engine with an industry standard HTTP 2.0 RESTful API interface for maximum compatibility. Core components include:

- Job Management and Tracking (JDF)
- System configuration and visualisation
- Realtime diagnostics and monitoring
- High-performance image processing
    - High Quality Realtime Screeners
    - Missing Nozzle Correction
    - Print Density Optimisation
    - Dynamic Image Correction
- Datapath drivers
- System integration
    - Ink Delivery Systems
    - Motion / Automation
    - Curing / Drying
    - Vision / Closed Loop

Components can be easily be combined and configured to achieve many applications including:

- Real-time, n-colour, multi-page PDF / PDF-VT printing
- Pixel accurate dynamic job registration and rotation
- Continuous closed loop print quality optimisation

Customers also have the ability to extend the functionality of Atlas Server to meet their own requirements using the GIS SDK.

Atlas Pro User Interface

This modular and customisable graphical UI platform offers a range of components that can be incorporated into one or both of the following platforms:

Atlas Professional
For machine builders, developers and advanced users
Atlas Professional offers a rich, configurable UI which gives users the power to create their ideal working environment. The UI includes a powerful WYSIWYG design tool, allowing users to lay out and create complex jobs that incorporate Variable Data Printing (VDP) content such as barcodes, text, serial numbers, PDFs and images.

Atlas Production
For machine operators and service engineers
Atlas Production can be configured in advance by the machine builder to offer the optimal UI for the end user. The UI can be configured to restrict access to the operating system and advanced settings.

Both Atlas Professional and Production have full language and localisation support, can be branded and re-skinned, and can support GIS, customer and 3rd Party UI tools.

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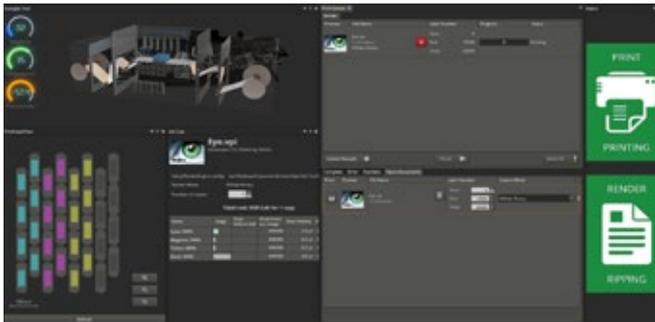
Software Development Kits

GIS offers a comprehensive range of Software Development Kits (SDKs) for both Atlas Server and Atlas Pro (UI), enabling rapid customisation and extension of existing Atlas and inclusion / reuse of propriety components.

Developed for the Microsoft Visual Studio .NET platform, GIS SDKs provide example C# source code, project files and detailed documentation.

Atlas Pro (UI) SDK

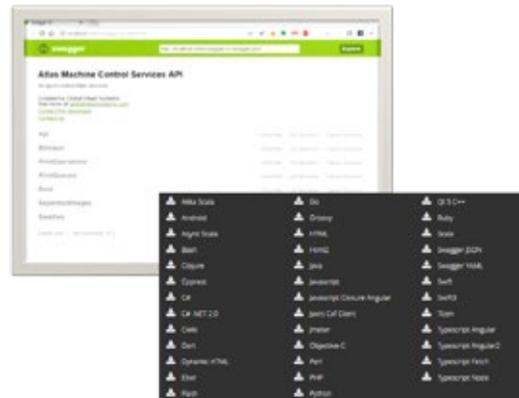Design and configure your own UI with access to:

- Enhance, modify and change functionality
- Add branding, change icons, fonts, colours and layout of existing UI tools
- Create an unlimited number of new UI tools to add new functionality and control

Atlas Server SDK

Design and configure your own Server components:

- Create custom job-processing components
- Create drivers for any sub-systems
- Use existing Server platform technology to reduce development time
- Modify and enhance Server components

Why Choose Atlas

Seamless Customer Experience
Integrate all printer functionality from workflow and RIP to transport and ink delivery into a single platform

Reduced Time to Market
Rapidly develop and deploy new product lines with targeted functionality, high-productivity and proven reliability

Flexibility
Freedom to configure and modify existing Atlas software components combined with the ability to include your own or 3rd party software functionality

Full Branding and Customisation
Take control of customer-facing user interface by adding your own company branding, colour scheme and look and feel. Create targeted user profile interfaces and tailor for your region with our language pack options

Enhanced Value
Include only the components that add value to you and your customers, avoiding unnecessary feature costs