Imp
Layout Planner

InSoft
Automation

14

Offset . Digital . Wide Format . Flexo

Imp Version 14 Release

Innovation at its core!

At InSoft Automation, innovation is a commitment. With every product/version, we endeavor to deliver solutions that solve your problems and improve your workflow. We're excited to announce the release of Version 14 of our flagship product, **Imp**.

The best just got better!

The industry-leading cost-based layout planning software, Imp, now comes with many new features. These enhancements boost ease of integration, efficiency, and functionality, empowering users like never before.

Key highlights include:

- Seamless REST API integration
- Parallel job processing
- Advanced marks and planning algorithms for automated binderies
- Improved priority-based job planning
- "Block ganging" for simplified & efficient cutting workflow
- Limiting overruns while ganging

Features designed to boost your bottom line!

ImpCmd – Command Line Interface for Parallel Job Processing

Introducing **ImpCmd**, a powerful new command-line interface (CLI) tool designed to simplify integration.

Key Benefits of ImpCmd:

- **Ease of Use:** Easy to integrate and launch from any system.
- **Parallel Processing:** Run multiple instances of ImpCmd on the same system, leveraging CPU threads to process multiple jobs simultaneously.
- **Enhanced Workflow Speed:** Perfect for customers aiming to optimize workflows and reduce processing time.
- **Scalable Licensing:** A special license enables 'N' parallel instances, tailored to your specific needs.

This tool allows users to efficiently orchestrate and execute tasks via the command line, while unlocking parallel processing capabilities.
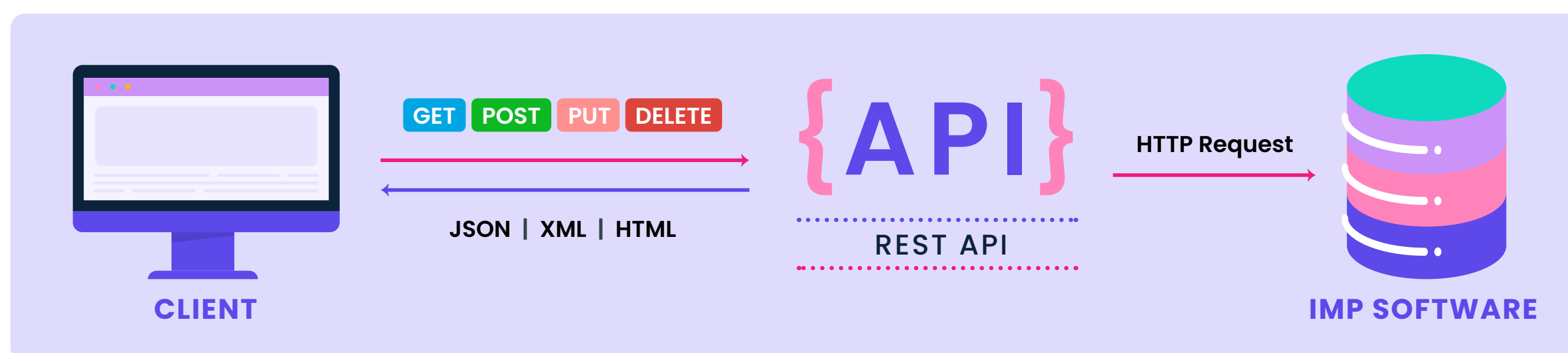
REST Based API

HTTP-based **REST API services** to improve integration scenarios

- **ImpConfig REST API**
- **ImpCore REST API**

These APIs offer a flexible and robust solution for automating workflows, and compatibility across all modern programming languages. Developers and integrators can easily access:

- **Interactive Web Client:** Live demos and testing capabilities for seamless integration.
- **Comprehensive Documentation:** Fully detailed Open API (Swagger) documentation to guide every step of the integration process.

Harness the power of these REST APIs to unlock the full potential of Imp and elevate your automation game.

Advanced marks and planning algorithms for automated binderies

Imp Version 14 introduces advanced features to support both online and offline automated binderies, tailored specifically for book-of-one production, print-on-demand workflows, and short-run jobs printed on continuous-feed digital web printing devices.

Enhanced Mark Capabilities
Multiple enhancements to marks are included which allow creating all sorts of automated marks required for automated bindery.

Smarter Planning Algorithms
To complement the new marking features, advanced planning algorithms and binding constraints have been added. These enhancements enable automated collection and gathering of signatures, adhering to the recommended paper GSM ranges specified by bindery manufacturers.

Optimized Automation and Efficiency
With these controls, Imp now delivers:

- Full automation of book imposition tasks.
- Maximized efficiency for both online and offline bindery equipment.

These innovations redefine the automation capabilities of Imp, empowering users to achieve higher precision and productivity in their finishing workflows.

Priority-based job planning

Imp Version 14 introduces significant enhancements to its ganging algorithms, enabling optimal planning of gang runs based on delivery schedules.

What's New?

- **Delivery-Driven Planning:** Jobs are now prioritized and grouped efficiently to meet tight delivery deadlines.
- **Improved Performance:** Ganging operations are now **2X faster** compared to earlier versions, ensuring quicker turnaround times and increased productivity.

These improvements empower users to achieve streamlined workflows and meet customer expectations with greater precision and speed.
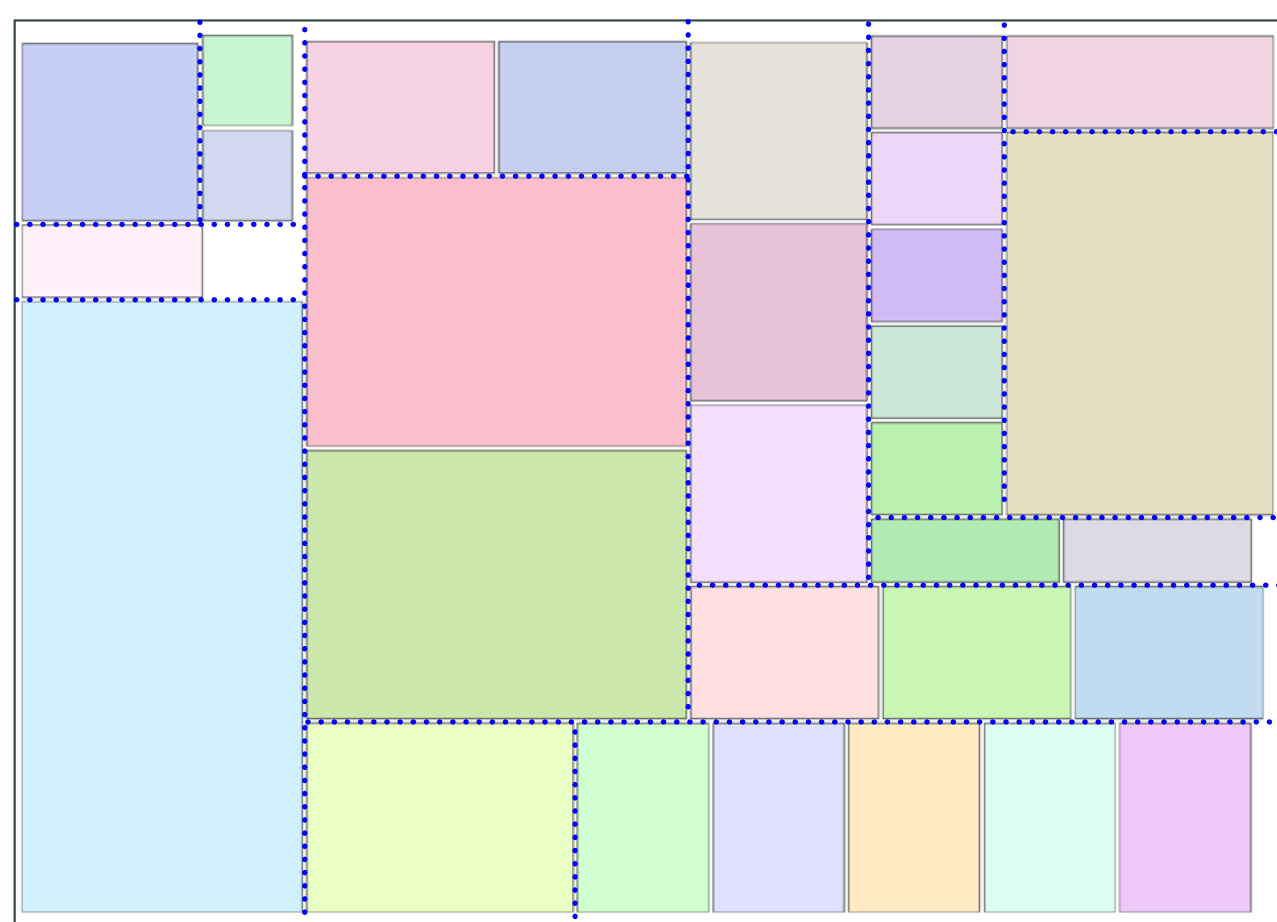
"Block ganging" for simplified & efficient cutting workflows

Imp Version 14 introduces Block Ganging, a revolutionary approach to planning and ganging algorithms for enhanced cutting efficiency.
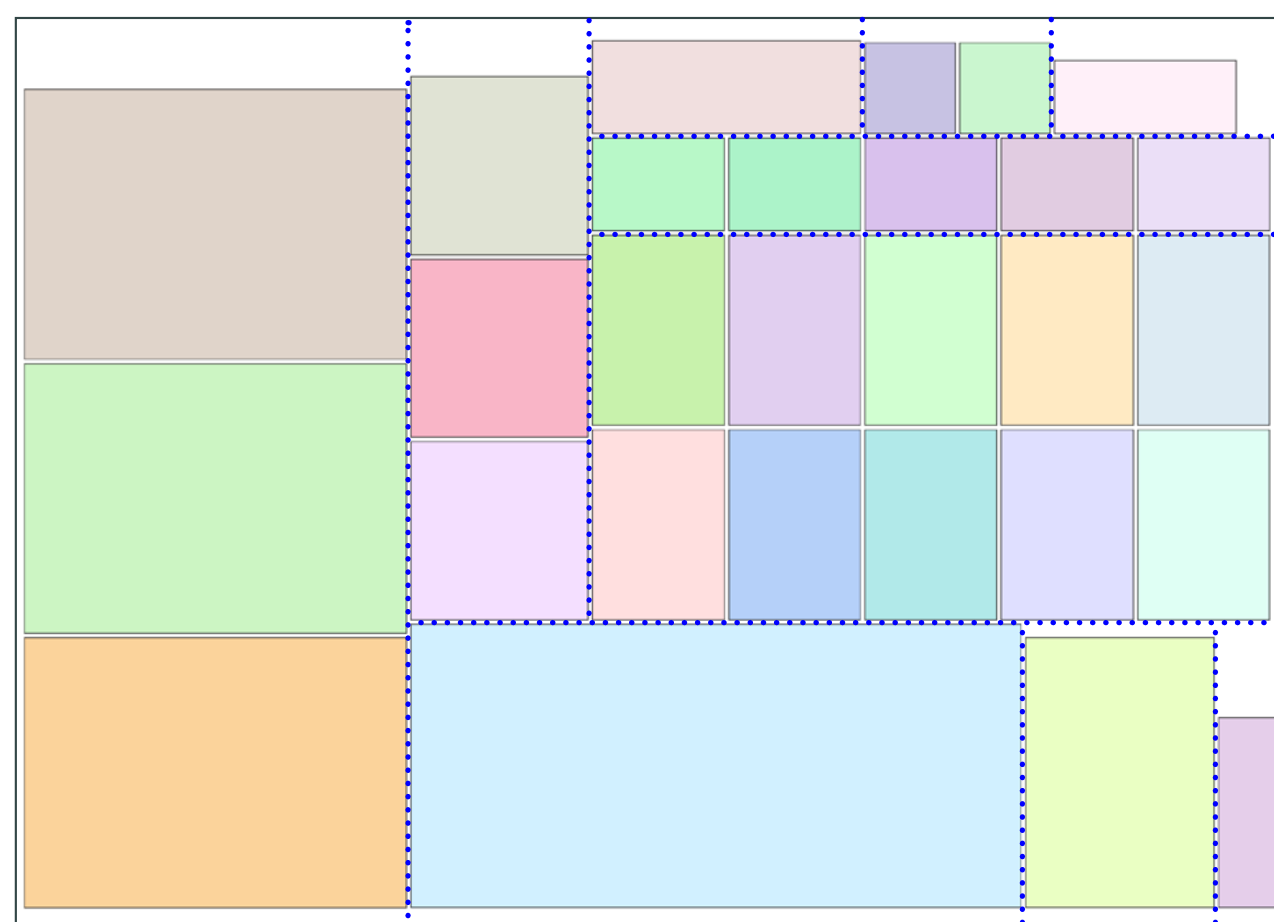
Key Benefits of Block Ganging:

- **Consistent Grouping:** Jobs with the same trim size are grouped together as a single block, ensuring they are never mixed with jobs of other trim sizes.
- **Streamlined Cutting Process:** This approach simplifies cutting workflows by reducing the number of pile rotations required on the cutting table.
- **Enhanced Efficiency:** Minimizes handling time and boosts overall productivity in cutting operations.

Block Ganging is designed to optimize finishing workflows, making it easier than ever to deliver high-quality results with speed and precision.

Standard Ganging

Block Ganging

Limiting overruns while ganging

Imp Version 14 introduces enhanced controls to manage overruns during ganging, providing customers with greater control.

Key Features:

- **Customizable Overrun Limits:** Set limits for overruns either by percentage or by the number of copies, ensuring they stay within the allowed range.
- **Advanced Automation:** Supported by additional settings, these controls ensure that the desired layouts are consistently and automatically produced.
- **Enhanced Cost Efficiency:** By minimizing unnecessary overruns, users can reduce material waste and improve overall efficiency.

These new capabilities make ganging smarter and more aligned with customer-specific production requirements, delivering better results with less effort.

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Automate & Optimize!

These are just some of the new features introduced in Imp Version 14. For more details, including comprehensive release notes and customized demos, feel free to reach out to us at: ravi@insoftautomation.com

www.insoftautomation.com