High-end RIP workflow solution

Nexus

Nexus is a high-end RIP workflow solution for commercial printing environments. Nexus increases productivity in pre-production through automation of human-intensive front-end tasks and RIP based tasks.

Nexus is a modular system and consists out of 2 main workflows: the Nexus Classic RIP workflow and the Nexus PDF native workflow. Nexus is a client-server solution controlled through NexusManager.

NexusManager allows users to monitor job progress and workflow from a Mac station over TCP/IP. The Shuttle client, available for Windows and Mac OSX, also allows to submit files with specific settings based on the job requirements.


Integration - JDF / JMF integration / NexML / XPaths

Nexus is capable of linking to external systems like MIS or database environments. NeXML allows automation and workflow control from external environments through XML jobtickets. Additionally, jobs can be initiated by an MIS system sending JDF/JMF to the Nexus workflow. Job information is retained in the ticket, and parameters defined by the MIS system can be used through XPaths.

Nexus Classic RIP Workflow
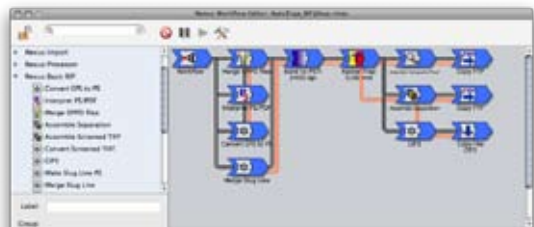
The Nexus Classic RIP workflow is centered around NexusRIP, the ripping and screening engine of Nexus, supporting many different file formats, including PDF, PS, EPS, DCS, TIFF/IT…
The engine works according to the ROOM principle (RIP Once, Output Many). The same ripped data is used for multiple outputs, resulting in a maximum level of consistency and security.

Link files for positioning can be used in any imposition application, resulting in additional security, and supporting simple last minute page replacements. Raster trapping as well as preflight and automated page corrections through NexusImport and NexusProcessor are optionally available.

Nexus PDF Native Workflow
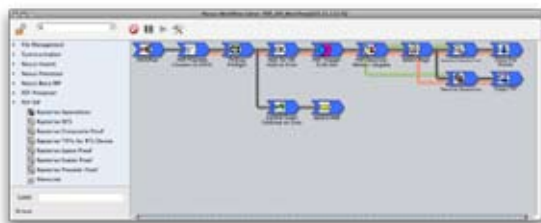
Based on state-of-the-art native PDF technologies, extensive functionality is available ranging from Enfocus PitStop based preflight all the way to extensive automatic file correction, JDF imposition, marks generation and object based trapping.

Even elaborate manipulations are available: splitting multipage files to single pages or joining several pages back together to one multipage document. When the files are ready, the Nexus PDF RIP generates proof or plate data straight from the PDF file. This results in a maximum level of throughput. For last minute corrections Neo offers a highly productive and easy to use standalone PDF editing solution.
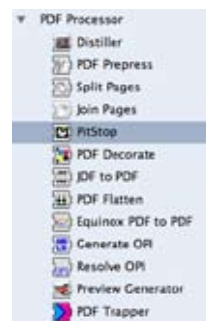
Imposition technologies

Link files are reference files that contain a low resolution preview and a link to the high-resolution page on the server. These files can be used by practically any imposition application. The imposition is generated with the references, and Nexus replaces the links with the high resolution page data on the server.
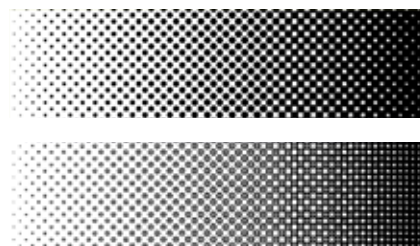
Another option is to generate JDF layout files that contain the paths to the actual pages. Nexus automatically inserts these in the imposition and can apply a broad range of marks to the imposed sheets.

For high-end imposition suitable for even the most sophisticated web and finishing environments, Nexus users have access to FastImpose, which offers intelligent elastic templates independent from the actual trim sizes, SmartNames, and real-time high resolution preview. Imposeproof! can automatically generate 2 up proofing from the imposed data.

Screening

On both Nexus RIPs, the job can be output to proof as well as to plate, with advanced screening including Paragon AM, Organic (2nd order FM) and Concentric Screening, which combines the smoothness of AM with the advantages of FM: higher saturation, better quality, more detail and important ink savings.

With DotSpy the RIPped data can be opened and viewed extremely fast, to allow QA departments to find errors before committing to final plate output. Nexus equally includes Symphony, harmonizing output devices incorporating device calibration and press compensation technologies.

AM vs Concentric.

ESKO artwork