

Introducing CyberPrinter XP – A Next Generation Print Management System

Application Note

Human and Machine Readable Information

Cerity Enterprise Content Manager (ECM) safely catalogs, warehouses, indexes, stores, archives and shares the analytical data generated by laboratory instrumentation together with all types of human readable information across an enterprise, building an entire electronic library for informed decision making. As a web-based application, Cerity ECM makes information immediately available to those who need it, whether across the building or across the globe.

The Next Generation – CyberPrinter XP

CyberPrinter XP is a print management system that manages the transfer of human readable electronic documents to Cerity ECM. An integral part of the Cerity ECM product, the CyberPrinter XP works with 3rd party print drivers from any operating system – Microsoft® Windows, Unix®, Macintosh® - and allows users to upload electronic records generated during a print operation from any application. The CyberPrinter

XP can manage files generated by one or many printers, providing the user with a full suite of print-

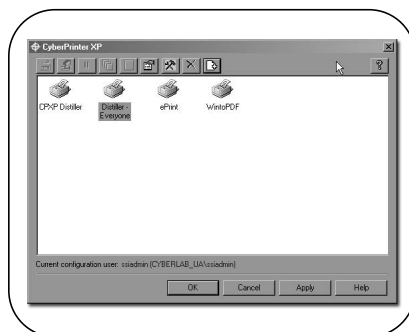


Figure 1
The CyberPrinter XP is a next generation print management system to be used in conjunction with CyberLAB ECM.

ing and file upload options. There are many commercially available programs for generating industry standard Portable Document Format (PDF) or other file formats (such as TIF, JPG, BMP, PCL, and more) during a print operation. Additionally, most hard-copy print drivers have the option to generate an electronic file rather than a paper printout. The CyberPrinter XP can work with any print driver that generates any file type during a print operation

from any application in Microsoft Windows®, Macintosh or Unix operating systems. Print drivers such as Adobe's® Distiller have numerous options for generating electronic files such as, font embedding, color management, print quality and much more. With the CyberPrinter XP, the user has full access to all of the print options / preferences available, regardless of the generating application.

To aid in compliance with federal regulations such as 21 CFR Part 11, the CyberPrinter XP can require the user to login prior to printing and confirmation of file transfer options. Options for transferring the file include; renaming the file, the Cerity ECM upload location, additional user defined metadata to be stored with the file, optionally printing to a hard-copy printer, and email notification to another user. When printing a series of documents, such as reports from a sequence of analytical runs from a chromatography data system, the printer can be set to run in an unattended mode. This enables the CyberPrinter XP



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to print from a single printer with pre-set printing/uploading options with no additional user interaction. When a print job fails due to network failure, or inappropriate user privilege the data is not lost. The job is saved and the options can be reconfigured for successful transfer to Cerity ECM.

Enhanced Options for Generating Electronic Data

The CyberPrinter XP includes many options for human readable electronic data. User's can rename the printed file and/or attach tags to the file name such as date / time or computer name to ensure file uniqueness. User's can move the file to another Windows location or delete the file after a successful upload to Cerity ECM.

Searching for Electronic Data

All text within PDF files, whether uploaded to Cerity ECM via the CyberPrinter XP or manually or automatically uploaded, is available for searching. In addition, users can define templates that extract specific text and associate it with a key word. For example, if a PDF file contains the following text:

"Analyst Name: John Smith"

a search for "John Smith" through the complete text index would find this document, plus any additional files that contained the text "John Smith" anywhere in the document body. Templates allow users to narrow their search specifically for documents where the key word "Analyst Name" has been assigned the value "John Smith".

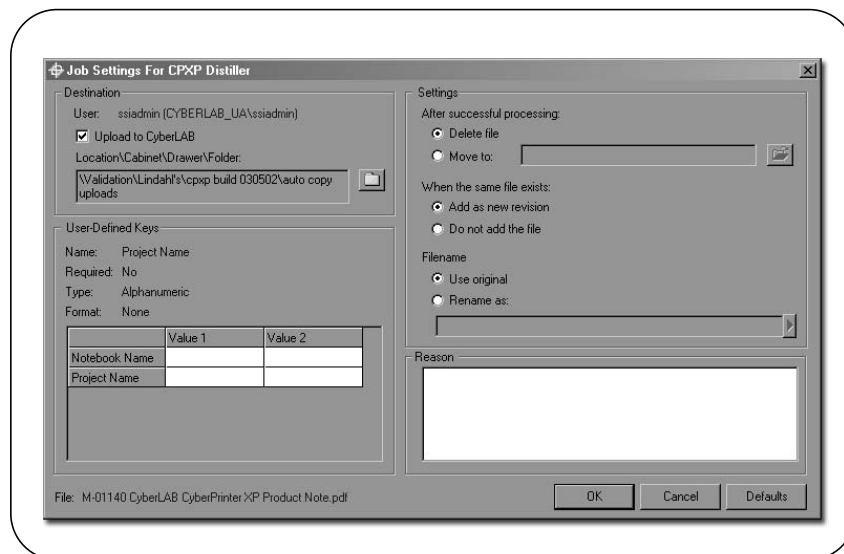


Figure 2
CyberPrinter XP's many options can be configured per print job or with default values for unattended printing.

What can Cerity ECM do for you?

Here are just a few of the benefits:

- Secure short term storage of all of your enterprise data, both structured and unstructured.
- Archive your machine data along with your human readable data while maintaining the ability to search across both data types simultaneously.
- A flexible archiving solution that allows users to define the archive schedule, device and media type and archive both human readable and machine readable data together.
- Make your human readable data entirely searchable with the full text index feature.
- Assign additional key words to your human readable files, even when the information is not present in the file itself.

- Make your documents available instantly, through the Web, any time, anywhere.
- Make more informed decisions.

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