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Press Release:

Crawford Technologies Introduces **PRO JES Spool Extraction Facility Version 2**

Toronto, Ontario, March 21, 2003 - Crawford Technologies Inc. today introduced their newest transform management solution, **PRO** JES Spool Extraction Facility Version 2. This latest version adds significant functionality and is designed for organizations using the IBM z/OS and OS/390 operating systems with JES2 or JES3 who want more control over their printing processes. By utilizing the **PRO** JES Spool Extraction Facility, clients can further automate and enhance their production printing process without having to change existing workflow and operating environments.

One of the key features of this version of **PRO** JES Spool Extraction Facility is that it also adds support for the IBM Sysout Application Programming Interface (SAPI) available in OS/390 and z/OS for spool management capabilities. The SAPI interface provides significant performance improvements and disk space reductions. The Functional Subsystem Interface already used in previous versions of the product will remain and has been improved to allow transform applications access to more of the JES2/JES3 job information. Using these additional JES Spool interface capabilities, clients will find it easy to manage and control their entire print queue processing including: file conversion and document enhancement, such as barcode addition. Like all other Crawford modules, this software is compatible with the entire suite of **PRO** transform products.

PRO JES Spool Extraction Facility is another product from Crawford that allows more functionality without changing the way companies are doing business. For

example, in this version of the **PRO** JES Spool Extraction Facility is a TRANSFER function which allows organizations to have print datasets transmitted to Unix, Linux and Windows systems using an automated FTP process. This can facilitate moving reports and other application output to other systems for storage, conversions, indexing, text extraction and printing.

"Now our existing and future mainframe clients will be able to use their JES Spools to facilitate print-stream modifications prior to printing or routing. We have made it simple and easy for users without causing significant operational changes", exclaimed Ernie Crawford, President of Crawford Technologies Inc.

Jay Pollitt, VP of Sales and Marketing, sees it this way, "Finally a product that works with mainframes in a coherent manner. This product allows our clients to efficiently interface with their spools and further utilize the power of their mainframe operating systems".

About Crawford Technologies Inc.

Crawford Technologies Inc. provides print stream transform, extraction and manipulation solutions that are unsurpassed in the industry. With our committed and knowledgeable product teams, Crawford provides unparalleled development, design and support. Crawford is a global leader in providing advanced print production transformation products for the financial, insurance, medical, government, and telecommunications industry. Crawford's powerful suite of conversion and enhancement products automates the transformation of print-stream, data manipulation and document output. Crawford Technologies Inc. is based in Canada. Our Toronto and Vancouver development centers produce high quality, cross-platform products using advanced development and testing techniques such as white box testing, daily builds and automated regression tests. Our sales and marketing activities are coordinated in Colorado.