



# customised print solution using PReS Impact2D



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## The Customer

**Check Technology Corporation (Check Tech) is a global leader in the design, manufacture and sale of advanced print production systems for financial, security, forms and commercial printers worldwide. Check Tech also offers finishing solutions and related products and services for complete document production.**

## The Challenge

Check Tech wished to upgrade some of their smaller customers from the older Checkwriter and Checktronics printers to a more robust printing system using Océ PageStream printers that had been converted to MICR printers. Check Tech approached PrintSoft Americas (PSA) to assist them in creating a program that would seamlessly convert their existing cheque printer data stream systems into IPDS while retaining many of the security features that were built into the Checktronic printers.

Check Tech and PSA worked together for several months testing and designing a program to convert and accurately report from the designated data stream. A number of sites were targeted for the conversion tool (now known as Impact2D, for its impact to digital ability) including several prominent insurance companies and a large supermarket chain in the Midwest.

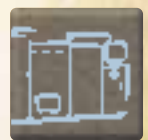
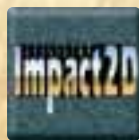
## The Solution

Check Tech approached Océ requesting a means to interpret data from inside the controller so that a signal could be sent to the PReS system to emulate the old Checktronic system. Océ wrote a serial port connection that would send a signal every time the printer picked a sheet from the input trays. PSA wrote Impact2D to interpret these unique printer signals allowing it to use this information as part of the audit trail and management reports. Impact2D now provides much of the audit function previously located within the controllers of the Checktronic systems. Depending on the end user it is often necessary for accountants and authorised clerks to operate the printers with certain cheque runs, requiring a user-friendly printer operation interface to be part of the solution.

This case study shows the power of the PReS scripting language, and its ability to produce customised print solutions.



Checktronic  
Datastream



Audit Trail &  
Management Reports

## Background...

Both the Checkwriter and Checktronics printers operate as line mode printers with a control array that tells the printer where to place each line on the page. This is similar to Xerox line mode with FSL and JSL to format the page. Impact2D has to read in Check Tech's FSLs and JSLs and convert them to PReS script to format the page and provide the required security features. Other than MICR ability, what made these Check Tech printers unique was their audit capability which is embedded into the

printer itself. The printer control unit is able to monitor the progress of each cheque at every stage of the print process. As a result, if there is a jam, the printer knows exactly at what stage each piece of paper is at in the printer. A key feature of the printer's capabilities is that even if a page had printed with a MICR line, the controller reports where the restart must start and also that a duplicate check was printed and the reason for the duplication. This process makes it possible to create a detailed audit trail

of both the printer operation as well as the actions of the operator. The audit process records each keystroke of the operator as they interface with the printer. Each page processed through the printer is accounted for. Lists are created of all discarded pages and totals for each account indicating the total amounts printed and the total number of discarded cheques.

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