



WebReports™ Fact Sheet

Confidential to The Menon Group, Inc.
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Review of Functionality

The *WebReports™* application from The Menon Group, Inc. is a versatile report management application that organizations use to provide online report viewing, remote printing, electronic distribution, and HTML report formatting to users. *WebReports* obtains reports from the GE Centricity Enterprise (formerly Carecast or LastWord) systems and makes them available through web-based access.

WebReports can provide the following features:

- **Online Viewing.** Users can view reports online through *WebReports*. For customers using the report generator, Style Report, *WebReports* can serve as an integrated viewer for new reports created in Style Report as well as legacy reports written in ENFORM or COBOL. Users launch *WebReports* from within Centricity Enterprise via a command or chart tab, so they can view reports online using a Web browser from any workstation connected to the network directly or via a VPN from a remote desktop.
- **Remote Printing.** Users outside the network, such as referring physicians, can receive reports and print them on their locally connected printers with *WebReports*. Many customers use *WebReports* in conjunction with Citrix to provide this service to users.
- **Report Security.** When users launch *WebReports* from within Centricity Enterprise, they have access to reports generated by them. Additionally, they may be set up to view reports generated by other users. Authorization is controlled by *WebReports* Security to assure that information is distributed only to authorized personnel.
- **HTML Formatting.** *WebReports* allows reports to be formatted with HTML, so organizations can add color, change fonts, and plot graphs within reports. HTML formatting is added to reports using MINT, The Menon Group's proprietary scripting language.
- **Search Capabilities.** *WebReports* allows organizations to add search tools to reports to help users locate specific data efficiently.

WebReports Modules

- ***WebReports* Base.** *WebReports* Base provides viewing, routing, and remote printing capabilities.
- ***WebReports* Fax.** *WebReports* Fax communicates with the organization's fax server to fax reports directly to remote locations.
- ***WebReports* Email.** *WebReports* Email communicates with the organization's email server to email reports to specific users or distribution lists.
- ***WebReports* PCL Report Handling.** *WebReports* PCL Report Handling converts PCL reports to PDF files.
- ***WebReports* Report Packages.** Custom-formatted reports are available for purchase from the Menon Group. For example, the Financial Reports Package includes a Patient Statement, Aged Trial Balance, Ticklers, and a Census report.

WebReports *Frequently Asked Questions*

How do we make use of MINT?

Organizations that purchase the *WebReports* applications will find that the Menon Group's proprietary scripting language, MINT, provides tremendous flexibility for implementing advanced capabilities. *WebReports* employs MINT scripts for HTML formatting, complex routing and other features. Customers can contract with The Menon Group to develop custom MINT scripts for a modest fee. Alternatively, customers may elect to have members of their staff learn MINT. Web-based Training courses for *Basic MINT Programming* and *Advanced MINT for WebReports and Offline Access* are available at no charge on The Menon Group web site at www.menongroup.com/education. Advanced or custom MINT training is available for an additional fee at The Menon Group corporate offices near Seattle, Washington.

How do reports go from Centricity Enterprise to *WebReports*?

Reports are created in Centricity Enterprise and sent to a specific *WebReports* location (#WEBREP) defined in the Tandem Spooler. A specialized Spooler process called SCANJOBS constantly monitors the queue for the *WebReports* location. It pulls the jobs for the *WebReports* location and routes them to one of two locations (#WBRONL or #WBRBAT), depending on whether the job was submitted via the online Centricity Enterprise application or via a batch process such as NetBatch. Within *WebReports*, there are process-based printers (not physical printers) that are attached to the Spooler locations (#WBRONL or #WBRBAT). The Tandem Spooler views those locations as regular printers and sends the report to that device. The process looks at each report and attempts to match it with a MINT script that will format the report. If there is no MINT script available, a default script is applied, and the report is sent to the Web browser where it can be viewed and printed via *WebReports*.

For organizations that need to route specific reports to multiple locations or group reports for a specific location, there is an enhancement available. A new SYSSUT parameter allows Centricity Enterprise reports to be sent to printer locations other than #WEBREP for printing to *WebReports*. This enables sites to group certain types of reports by location.

Can reports generated by Style Report, the new Centricity Enterprise report writer, be viewed via *WebReports*?

There is an enhancement available to enable reports generated using Style Report to be routed to *WebReports*.

How does *WebReports* route reports to specific users?

WebReports uses both User ID and Pathway information from Centricity Enterprise to route reports to the correct user's queue. The Centricity Enterprise servers, REPSVR and LBLSVR, have logic built in that passes the user information (user-ptr) and Pathway/Environment information from the report when the *WebReports* location (#WEBREP) is specified. This logic includes a call to the REPCLIBS subroutine. For servers and programs that handle printing without going through REPSVR, such as Patient List server, IPP server, etc., the programs need to be uniquely coded to invoke the REPCLIBS subroutine in order to pass the user information (user-ptr) to determine the owner of the report for routing.

Can *WebReports* handle large volumes of reports?

The servers (printer devices) defined for each of the GWACS pathways can have multiple processes configured, which allows *WebReports* to scale for high traffic and usage volumes.

Can *WebReports* handle PCL formatted reports?

Yes, organizations can use the *WebReports PCL Report Handling* module to convert reports that contain PCL formatting to standard PDF files, which can be viewed online or printed using Adobe Acrobat Reader. *WebReports* makes use of a third-party software product called PCL2PDF to make the conversion.

The process for converting PCL reports to PDF includes the following steps. When a PCL or CRB report from Centricity Enterprise is submitted to the #WEBPCL location, it is converted to #WEBSTRM. When the report is in the #WEBSTRM queue, a specialized device (@sys3.pcldata.pcl) picks it up for processing by the \$PSTRM print process. This creates two files in the PCLDATA subvolume: a "pcl*" file and an "icl*" file. The TACL-MONITOR server picks it up and runs the third-party PCL2PDF conversion software, which creates a "p*" file in the PDFDATA subvolume. A report is created for the spooler and added to #WBRONL as a regular report spooler file, making the converted file available in *WebReports*.

Is *WebReports* limited by the printing capabilities of Internet Explorer?

No, *WebReports* uses third-party software from Mead Company to provide greater flexibility and control when printing HTML documents from Internet Explorer. The software is installed on the client workstation as an Active X Object.

Requirements and Constraints

- Microsoft Internet Explorer Version 6.0 or higher
- HP NonStop Guardian® Operating System Version D30 or higher
- Available for all Centricity Enterprise (LastWord and Carecast) versions.
- The Menon Group automated installation process assumes one spooler per installation of the Menon Group infrastructure, GWACS, and any application, such as *WebReports*. Additional spooler locations require manual installation steps. A smaller spooler for the QA version of GWACS is recommended.