PrinterOn Enterprise Private Cloud Print Platform Release Notes

Enterprise 2.1 – PSIM 2.1

Product Changes and Enhancements

PrinterOn's Enterprise Server provides Enterprise-grade cloud print services for Corporate, Enterprise or Education use. This private cloud solution leverages PrinterOn's years of mobile print experience to provide a complete printing solution for native mobile apps, email, web and desktop printing.

This release provides significant new features and functionality across the entire product scope and includes over 100 product enhancements and improvements. This release of PrinterOn Enterprise is a significant update that expands on PrinterOn's existing solution to provide greater support for complex network requirements, 3rd party solution integrations and greater security while maintaining an easy-to-install experience.

PrinterOn is also pleased to announce support for AirPrint and allowing users to submit print jobs using the native AirPrint functionality on their devices in addition to the existing PrinterOn Discovery capabilities for other platforms including Android. PrinterOn Enterprise offers the unique ability to extend the ease of use of AirPrint and provide capabilities not traditionally expected including rich Active Directory and LDAP authentication, control over guest and authenticated user printers as well as the unique ability to break down the local area network restrictions of AirPrint and deliver print jobs around the world using the native print button on the iOS platform.

PrinterOn's Discovery capabilities bridge the gap between ease of use, security and product flexibility and provide a user experience similar to AirPrint to other platforms.

This release of PrinterOn Enterprise also focuses on updating PrinterOn Enterprise for greater quality, performance and reliability. This release focuses on addressing issues intended to simplify deployments and addressing numerous issues related to providing a consistent and replicable user experience and deployment process.

The following are some of the enhancements and improvements that have been made in this version of the PrinterOn Enterprise Platform.

PrinterOn Enterprise New Additions

- **NEW – Native iOS AirPrint Support – Print Delivery Gateway**
  Native AirPrint job submission is now supported in PrinterOn Enterprise 2.1 and the existing universal PrinterOn Discovery solution.

  PrinterOn Enterprise provides AirPrint protocol support with the introduction of the PrinterOn Print Delivery Gateway, the latest addition to PrinterOn's Print Delivery Infrastructure platform. The Print Delivery Gateway extends over a dozen years of experience with the underlying technology behind AirPrint and introduces advanced capabilities not available with other AirPrint solutions.

  Some of the key benefits of PrinterOn's Print Delivery Gateway include:
    - Rich authentication services including integration with Active Directory and LDAP services, including linking multiple authentication servers.
    - Print Management support allows user information to be delivered to 3rd party print management solutions and provide broad support to most print management providers. Please note that release code workflows are not yet supported between AirPrint print jobs and print management servers.
    - Global AirPrint compatible printer deployments. By combining PrinterOn's ability to securely deliver print jobs around the world and across networks with AirPrint's ease of use, PrinterOn is able to enable native AirPrint printing across network and geographic boundaries and connect users to print services not available with other solutions.
    - Guest Printer support allows administrators to disable authentication for select printers or MFPs.
    - Selectively enable AirPrint support for individual printers or MFPs.
    - Deploy the Print Delivery Gateway and the Enterprise server on different networks to extend AirPrint support across networks while maintaining network security.

- **New – Role-Based Access Control with LDAP & Active Directory**
  PrinterOn Enterprise 2.1 includes the ability to manage access to print services and printer groups to groups or organization units in Active Directory and LDAP. This new functionality allows organizations to better manage and organize printer services. Access control extends to both service/printer discovery and printing. Access control may be either managed using LDAP Groups or existing Organization Units (OUs).

  The new access control capabilities leverages the existing Printer Departments organization options and link PrinterOn Printer Departments to one or more Groups or OUs.

- **New – Advanced Email Printing Workflows Management**
  PrinterOn Enterprise has extended its existing Email Print workflow management to include fine grained control over the print behavior based on a user's identify and their selected printer.
    - Administrators may now define all workflow behaviors independently for unidentified (guest) users and identified users.
    - Administrators may now define all workflow behaviors independently for Enterprise Guest Printers and non-guest printers.
    - Administrators may now override whether to return Release Codes for email users based on the user type. This addition is designed to provide greater flexibility when integrating with some print management solutions, or to provide release code based release specifically for email users.
    - Administrators may now control whether to require full web-based user authentication for specific types of users or printers.

- **New** – **Network-Based Print Valet**
  The PrinterOn Network-Based Print Valet provides customers with an option to enable any printer or MFP with secure release capabilities. The Network-Based Print Valet may be connected using a standard network connection and communicate with a remote or centrally managed Print Delivery Station installation. The Network Print Valet does not require any additional network infrastructure and allows users to release print jobs using PrinterOn Release Codes.   Print Delivery Station supports multiple Network Print Valets allowing a Print Delivery Station to be centrally installed and still support multiple printers or MFPs.

  The Network Print Valet may be used independently or may be used to complement deployments that use authenticated job release from a central Active Directory or LDAP server.

- **New** – **Remote Print Job Release**
  PrinterOn Remote Release extends PrinterOn's existing Enterprise infrastructure beyond printing. By leveraging the same infrastructure developed by PrinterOn, print providers may now offer their users the ability to release print jobs from any network anywhere in the world on any device, using a convenient job release web page.

  PrinterOn administrators may enable the new PrinterOn Remote Release along with other print services on the "Required Settings" section of the administrative dashboard.

  PrinterOn mobile applications have been updated to complement this new functionality, allowing mobile users to access this functionality automatically after printing to enabled print services.

- **New** – **Native Office 2013 Support**
  PrinterOn Enterprise now fully supports the Office 2013 file format as well as a full native integration with Microsoft Office 2013 itself. The PrinterOn Enterprise server automatically detects an Office 2013 installation on the server and if available on the server will utilize it for printing Microsoft Office documents.

- **New** – **OpenOffice 4.0 Support**
  PrinterOn Enterprise now supports a full native integration with OpenOffice 4.0 in addition to the existing suite of native application integrations. The PrinterOn Enterprise server automatically detects an OpenOffice 4.0 installation on the server and will utilize it for printing OpenOfffice/Open Document formatted documents. OpenOffice 4.0 will also be used to print other document formats including commonly used Microsoft Office document formats when Microsoft Office is not installed on the server. The PrinterOn Enterprise server will automatically detect what software is installed and process print jobs with the preferred application.

- **Improved** – **Push Notification for Enterprise Ricoh Embedded MFP**
  PrinterOn has extended the Ricoh embedded software to fully integrate with the PrinterOn platform to provide the first fully embedded private-cloud mobile print solution. With the release of HotSpot Embedded 5.3, PrinterOn now supports the combination of an efficient push notification and the reliability of PrinterOn patented polling technology

Email Printing Enhancements

- **New** – **Digitally Signed Email Support**
  PrinterOn Enterprise now supports environments that use digitally signed email messages for both Exchange-MAPI and IMAP4 server's configurations.

- **New** – **Manage Release Code Availability Based on User Type**
  Administrators are now provided with the option to manage whether to present a release code to email users based on whether they are identified or unidentified users. This option is intended to allow administrators to have greater control over the email workflow when integrated with print management solutions with or without authentication.

- **Improved** – **Manage Web-based Authentication Based on User Type**
  Administrators are now provided with the option to prompt email users to authenticate to the Enterprise server based on whether they are identified or unidentified users. This allows users who use multiple email addresses to authenticate and identify themselves using a web interface when submitting via email.

- **Improved** – **SSL & TLS Email Server Support**
  PrinterOn Enterprise now supports both implicit and explicit SSL/TLS email configurations. These changes provide greater compatibility with various mail servers including Microsoft Exchange's IMAP server and certain web-based mail servers.

- **Improved** – **Email Body Print Quality**
  Significantly improved WYSIWYG support for printing images embedded in HTML-based email. The enhancements address issues reported with font substitutions and font size differences between the original HTML email message and the printed output.

  NOTE: The changes included in this update eliminate the need for the previously introduced "Fix Web Font" workaround.

- **Improved** – **Email Server Configuration Tools**
  New improved email server configuration tools have been introduced to simplify the process of configuring email print deployments. Changes include providing separate configuration views for the various email server integration types such as MAPI-Exchange and IMAP4.

- **Improved** – **"Far East" language support for email printing**
  Significant improvements made to printing that contain "Far East" encodings in the email body or attachment names. This update addresses both the quality of the printed output for email bodies and addresses an issue that could cause some attachments to not be printed and report an error.

- **Fixed** – **Email Print "User Lookup" wildcard**
  Addressed an issue that could cause the Enterprise server to return the incorrect user information with nearly identical email addresses.

- **Fixed** – **Errors Releasing Print Jobs with Asian Characters in Subject Line**
  Addressed an error that result in jobs failing to release from the Print Delivery Station when printing emails. The issue was a result of certain Asian language characters, such as Japanese, in the subject line of an email message. The issue affected both manual and automatic release configurations, which are more commonly used when deployed with a third party print management solution.

- **Fixed** – **PasPort Crashed for Certain Forwarded Emails**
  Addressed an issue that could cause PasPort to crash when processing certain messages form the iOS mail client. This issue is more likely to occur when a message has been forward multiple times before being submitted to print.

Directory Search Improvements and Enhancements

- **Improved** – **Search Performance**
  Numerous general improvements focused on API performance.

- **Fixed** – **Possible CPS Exception when performing Directory Search**
  Addressed an issue that could cause CPS to report an exception and return no search results when requesting paper sizes and search detail level is less than 9. This issue affected some third party mobile applications.

Other Improvements and Enhancements

- **Improved** – **PDF Print Quality and Compatibility**
  Significant improvements have been made to PDF quality and compatibility. This addresses issues reported by some customers that resulted in blank output for some PDFs and addresses issues that resulted in errors when opening some PDFs.

- **Fixed** – **Special Characters in Password**
  Addressed an issue that resulted in a failure to authenticate to the Enterprise server when password contained some special characters such as ampersand.

- **Fixed** – **CPS Log Settings and Guest Printing options reset during upgrade**
  Addressed an issue that caused CPS log configuration and the Guest Printing configuration to be reset to default during an upgrade.

- **Updated** – **PasPort Service Startup Setting**
  The PasPort is now set to start automatically when other services are also set to "Automatic" start.

- **Updated** – **Java Version**
  The supplied Java version included with the Enterprise server has been updated to JRE 7. JRE 7 is now the default supported JRE for the Enterprise Server, Print Delivery Station and the Print Delivery Hub.

- **Updated** – **Apache Tomcat**
  The supplied Apache Tomcat version included with the Enterprise server has been updated to 7.0.42.

Installed Product Information

PrinterOn Enterprise 2.1BV includes the following software:

- Central Print Services 2.1.12
- PrintAnywhere Server 4.5BI
- Print Delivery Station 2.6DR
- Print Delivery Gateway 1.0CQ
- Dr. Print 1.8AJ
- Sun Java Runtime Environment 1.7.0u17
- Tomcat 7.0.42
- CPS Dashboard 1.4.10
- PrintWhere 4.5AG

System Requirements

- A dedicated physical server or virtual machine
- Intel compatible processor with 2GHz multi-core processor
- 2 GB RAM minimum (4 GB recommended)
- 2 GB of free disk space for PrinterOn Enterprise software and third party applications
- Windows Server 2008 32-bit or 64-bit, with current patches installed

Please contact support@printeron.com if you have any questions.