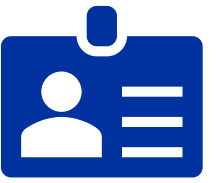


LRS Italian UPDATE & NETWORKING



Enterprise Output Management



Ci sono tecnologie che fanno notizia.

Poi ci sono tecnologie che fanno funzionare le aziende ogni giorno.
L'Enterprise Output Management appartiene a questa seconda categoria.

Presente in ogni vertical (Banking, Logistics, Retail, Public sector..)

Oggi le aziende devono gestire una crescente complessità :

- più canali
- più dati
- più aspettative dei clienti
- più requisiti normativi
- più velocità



La nostra visione

- In questo scenario gestire l'Output non significa più solo «stampare documenti» ma orchestrare comunicazioni, processi ed esperienze
- EOM da infrastruttura tecnica a piattaforma strategica per la Digital Transform
- La gestione dei documenti e delle comunicazioni oggi non è più soltanto una funzione tecnica è :
 - Customer Experience /Efficienza Operativa
 - Governance /Continuità del Business
- In questo contesto Innovare significa **semplificare**:
- processi più intelligenti, integrati, automatizzati e più vicini alle esigenze reali delle persone.

LRS Corporate Overview

Incorporated
In 1979; privata

Headquarters
US: Springfield, IL

Presenza Globale
North America, Europe, Asia and Australia

Focused on
Software, IT solutions

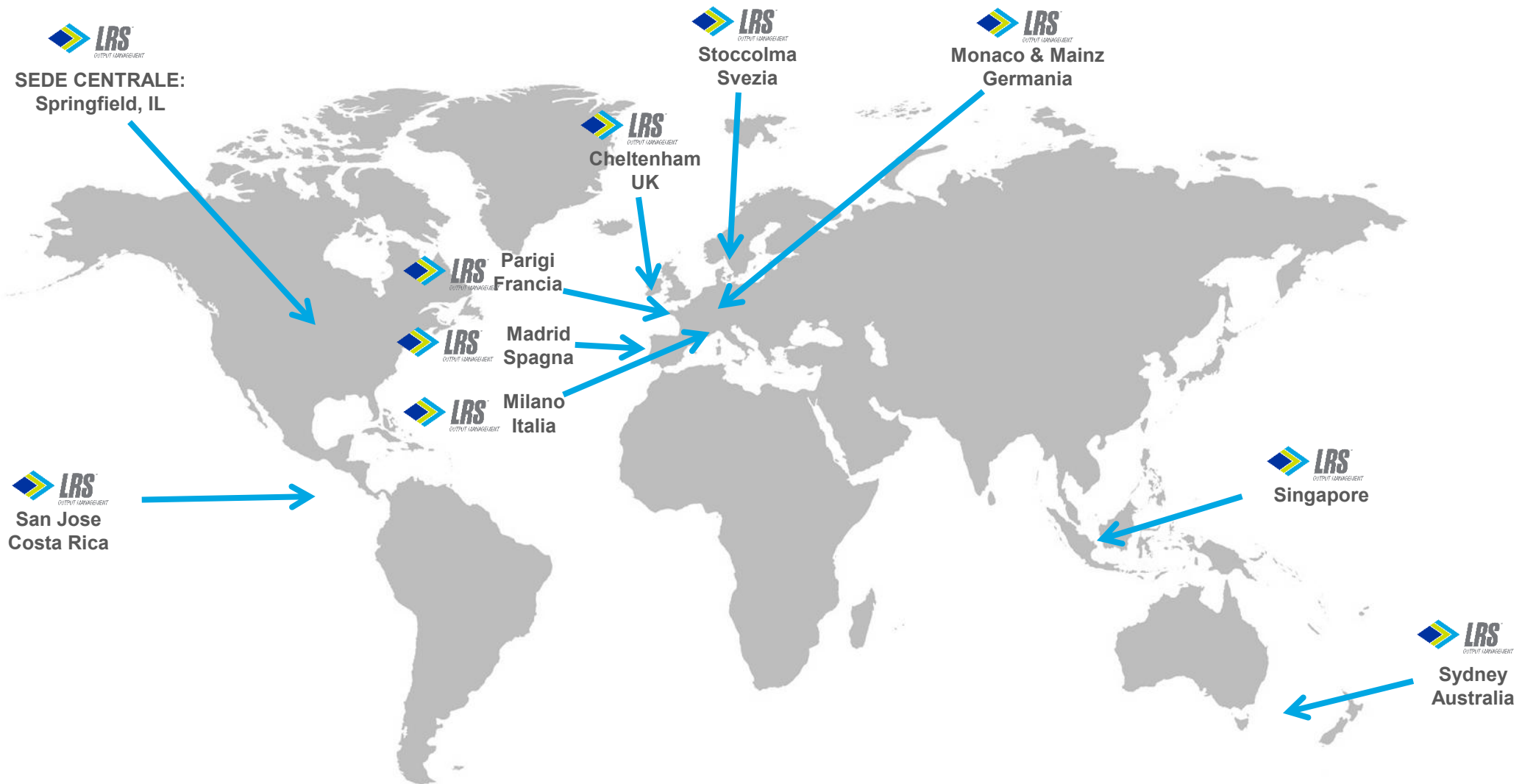
Industry Leader in
Enterprise Output Management solutions

Tra le prime 250 aziende SW al mondo
Oltre 1000 dipendenti nel mondo

Market Success:

- 72% delle Fortune 100
- 52% delle Fortune 500
- Clienti in ogni Vertical, Finance, Manufacturing, Pharma,...
- Soluzioni per aziende Enterprise



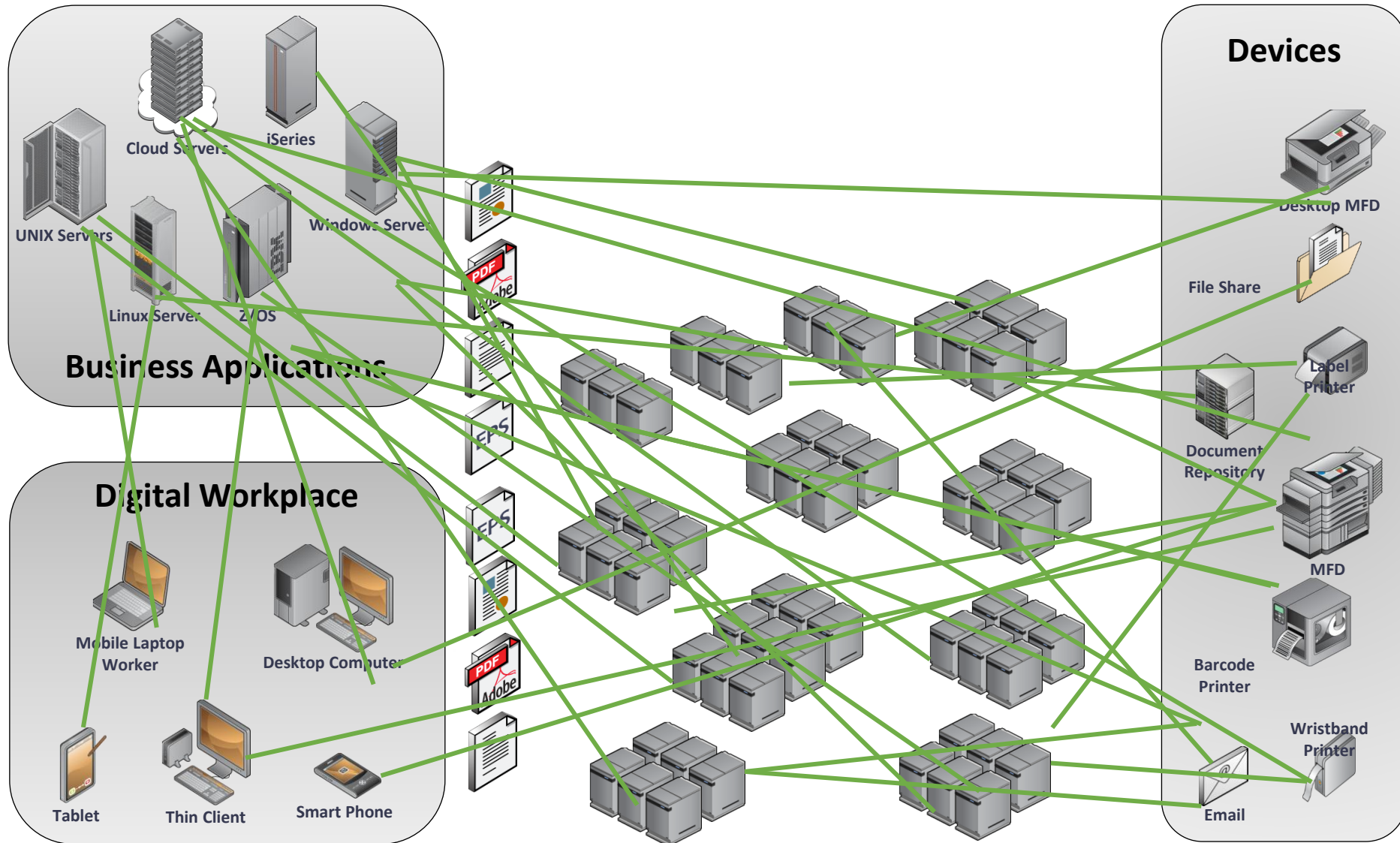


Altri uffici negli USA:

- Bloomington, Illinois • Chicago, Illinois • Anaheim, California • Denver, Colorado • Hartford, Connecticut • Atlanta Georgia • Overland Park, Kansas
- Bloomington, Minnesota • St. Louis, Missouri • Dallas, Texas



Tipica Infrastruttura di Output

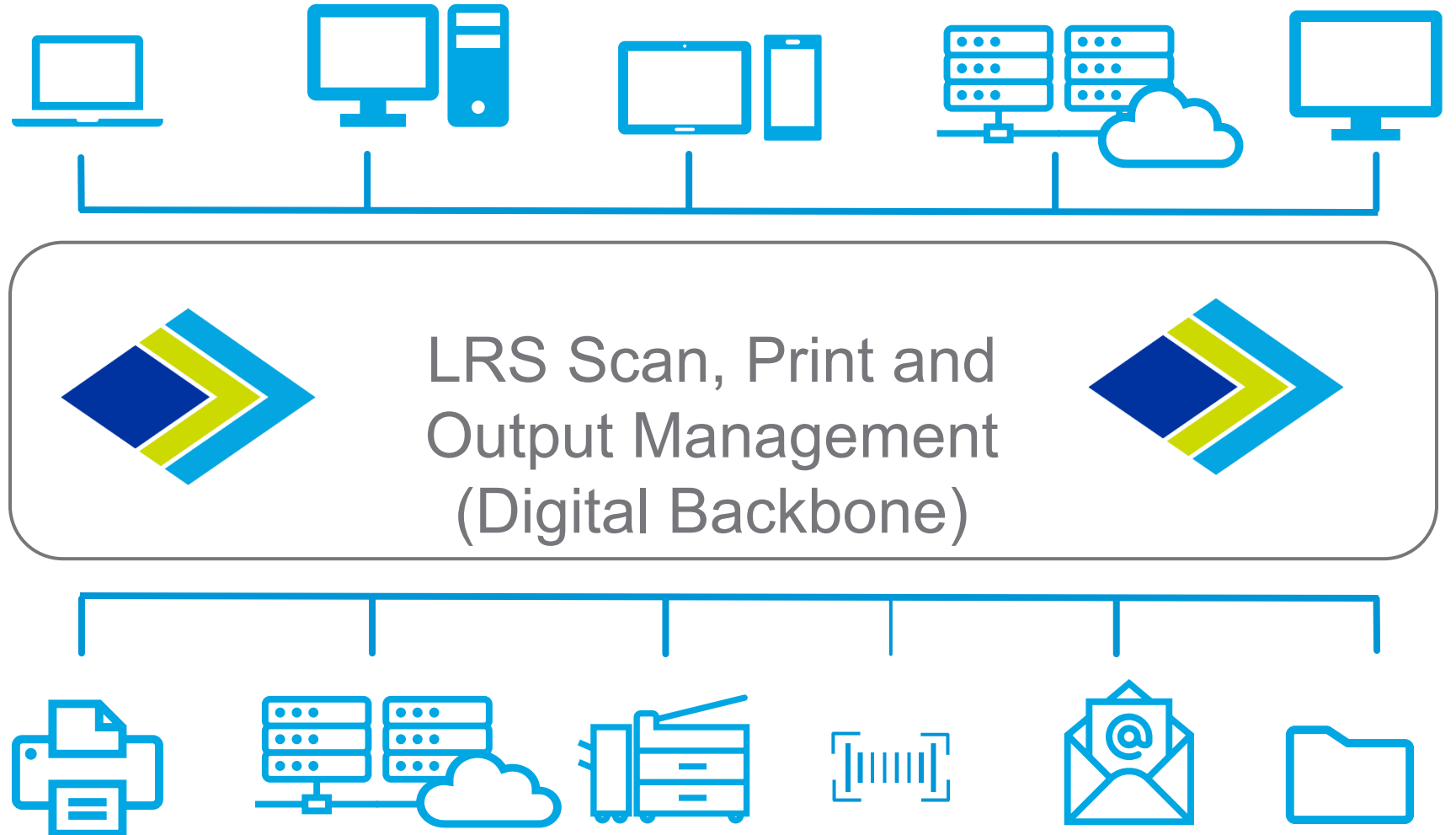


LRS

Un'unica soluzione per tutto l'output, la stampa e la scansione su tutte le piattaforme, dai dispositivi mobili al mainframe.

Un'infrastruttura che gestisce la consegna dei documenti generati da qualsiasi applicazione, su qualsiasi piattaforma a qualsiasi destinazione fisica o virtuale.

The “After” Infrastructure



- Semplificazione
- Miglioramento User Experience
- Riduzione Costi Gestione

LRS Solutions



Industry Trends

Modern Print

The world as we know it is changing

Microsoft Modern Print Platform

- “Modern print is Windows' preferred means of communicating to printers, including the Internet Printing Protocol (IPP), eSCL scanning, and Universal Print.”

- "Driverless printing architecture built into Windows.
- Replacing the traditional driver-dependent print stack with a more secure, simplified, and consistent solution across all Windows devices."

Microsoft Modern Print Platform

- Key Terms:
- Mopria
- Windows protected print mode (WPP)
 - Direct Print requiring line of sight
- Print support applications (PSA's)
- Universal Print
 - A way to reduce the need for an intranet with limitations
- WPP, PWG IPP, Mopria, Driverless, PSA's, Wi-Fi-Direct, WSD...
- A paradise world for the Alphabet Soup Chefs (ASC's)

Mopria



- Formed in 2013 by Canon, HP, Samsung, and Xerox
- Created to standardize mobile printing
- Provides specs and certification tools for device-printer communication
- Supports local and internet-based printing
- Uses IPP, PWG, WSD, mDNS, Wi-Fi Direct, eSCL, IPP FAX
- Standards managed by multiple working groups
- LRS is an Executive Member of the Mopria Alliance

Windows Protected Print (WPP)

- Disables all print drivers except for the built in Microsoft IPP class driver
- Disables PrintUI and other connection mechanisms
- Enforces printing to Mopria certified devices only using Microsoft's drivers
- Windows verifies printer compatibility and abilities using IPP communications (if it can find the right device.)
- May be enabled by GPO, but currently no way to prevent accidental activation by an inquisitive end user

Windows Protected Print (WPP)

- Generates PDF's
- Finishing options via IPP Attributes
- Supports Universal Print
 - User must be authorized in Entra ID



Microsoft

Are you sure you want to use Windows protected print mode?

This will remove printers that are not compatible with Windows protected print mode from your devices.

Yes, continue

Cancel



Microsoft Future

- Eliminate Windows Print Servers
- Everyone just prints locally or via universal print
- Focusing on end user generated print (Front-end printing)



Windows Protected Print (WPP)

The image shows a Windows Settings window for 'Printers & scanner' with a blue confirmation dialog overlaid. The dialog asks 'Are you sure you want to use Windows protected print mode?' and explains that it will remove incompatible printers. The 'Printer preferences' section in the background is highlighted with a red box, showing the 'Windows protected print mode' toggle set to 'On'.

Bluetooth & devices > Printers & scanner

Add a printer or scanner

LRS - Infrastructure
Default

Printer preferences

Windows protected print mode
This feature helps ensure the latest security standard for printer software. Turning this on may limit the availability of some printers using an older default security standard. [Learn more.](#) **Turn On**

Allow Windows to manage my default printer Off

Download drivers and device software over metered connections
Data charges may apply Off

Related settings

Print server properties

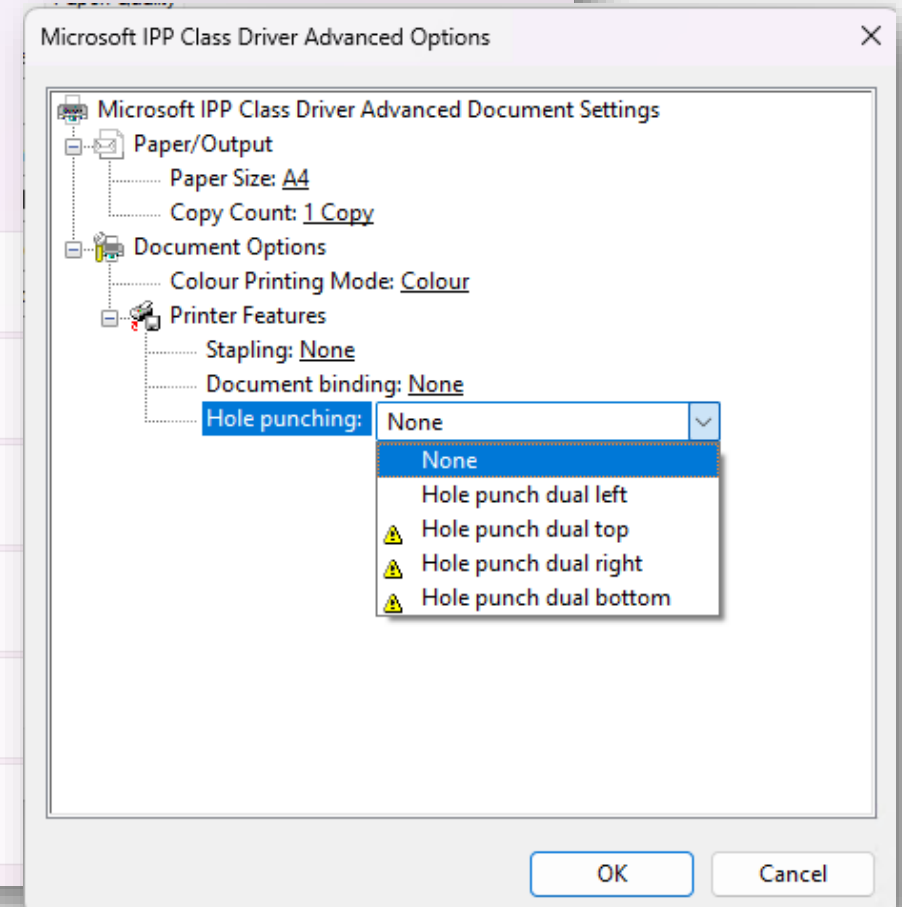
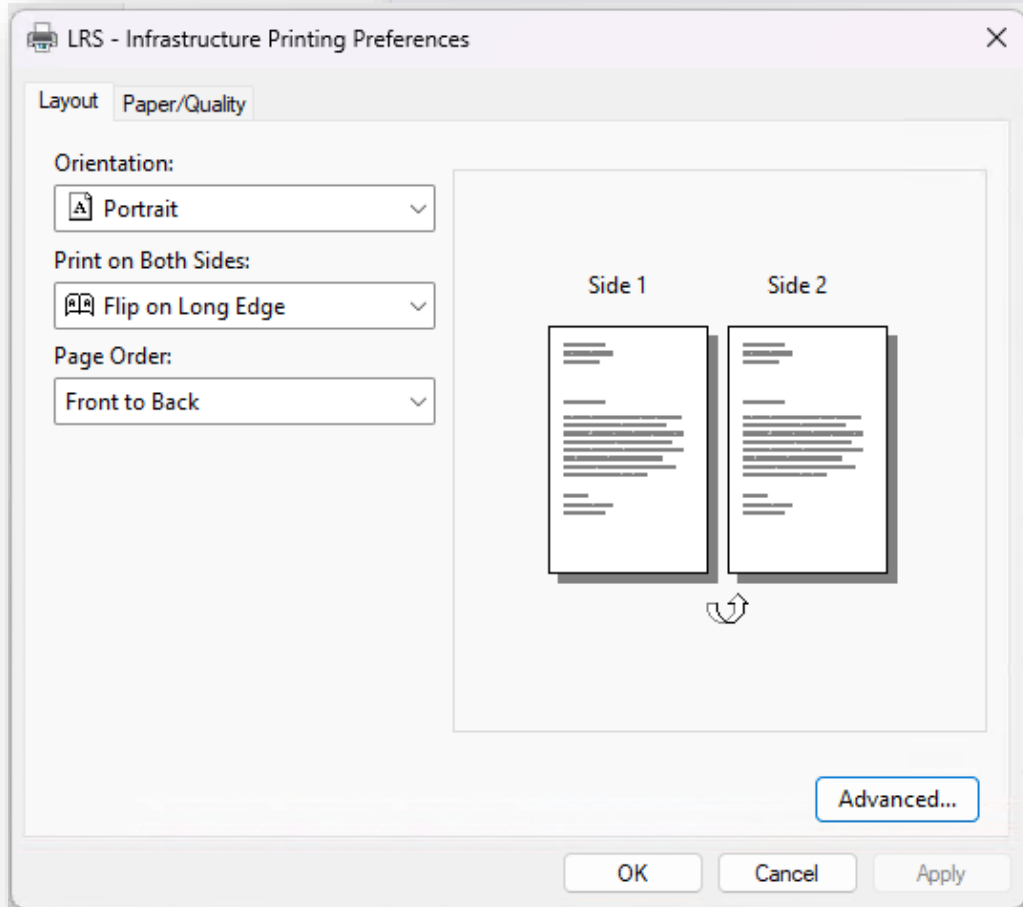
Are you sure you want to use Windows protected print mode?

This will remove printers that are not compatible with Windows protected print mode from your devices.

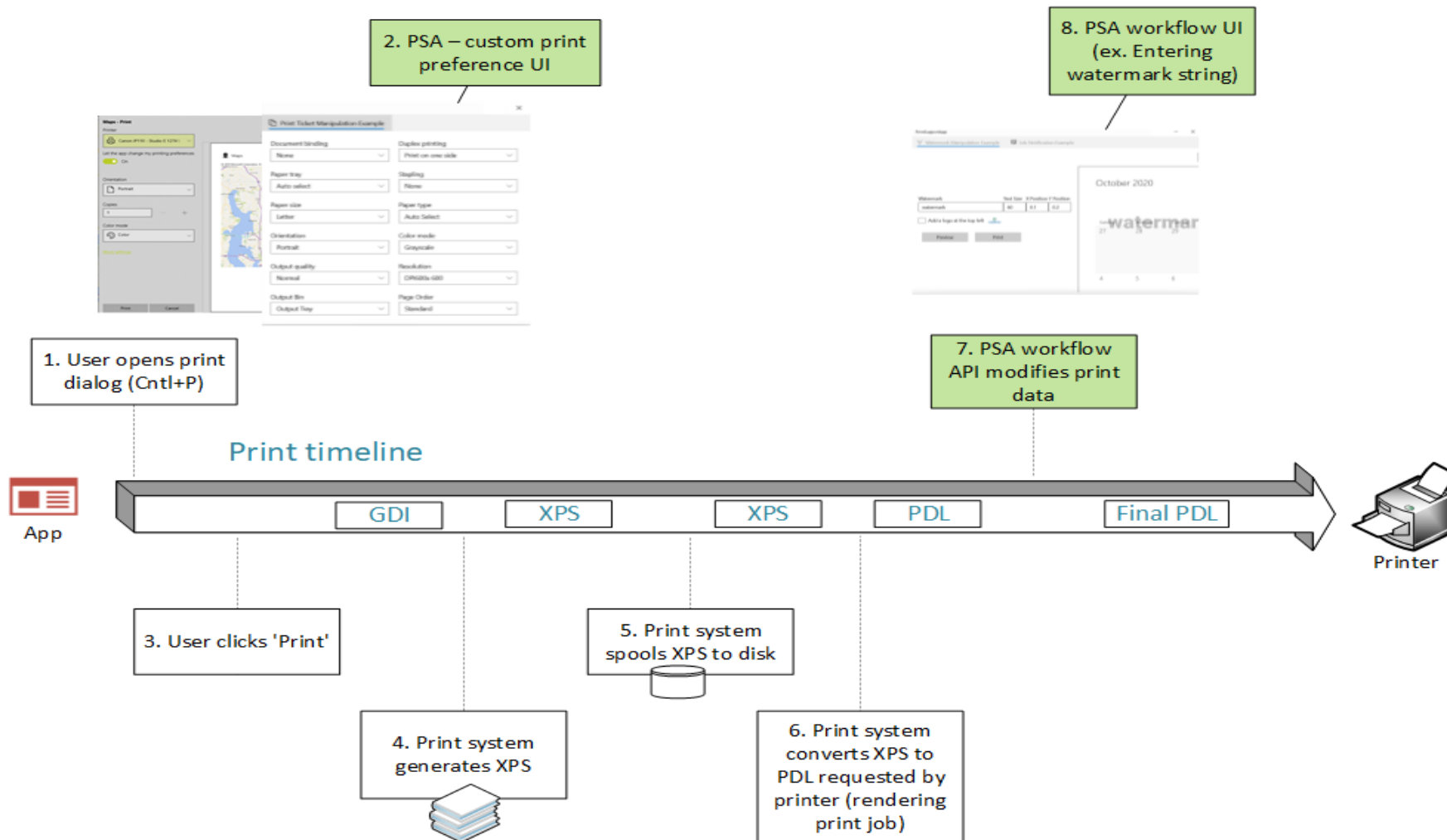
Yes, continue Cancel

Windows Protected Print (WPP)

Bluetooth & devices > Printers & scanners > LRS - Infrastructure



Printer Support Apps



Third Party tools which allow for customisation of the printing process.

LRS Response

- LRS will continue to handle
 - Printer installation
 - Security via encryption
 - At rest
 - In motion
 - Data stream conversion
 - Policy enforcement
 - Access control
 - Specialized print applications
- LRS is actively developing a robust WPP Mopria-compatible solution that allows your organization to work as it always has




Cloud Strategies

È una scelta obbligata?

Cloud Strategies - Cloud first, Cloud all?

- I asked AI why companies try to move everything to the Cloud
- Here are three of the most common and compelling reasons companies shift their IT operations to the cloud:
- 🧠 1. Cost Efficiency
 - Reduces capital expenditure on hardware and infrastructure.
 - Converts fixed costs into variable ones—pay only for what you use.
 - Minimizes maintenance and upgrade expenses by outsourcing to cloud providers.
- 🚀 2. Scalability and Flexibility
 - Easily scale resources up or down based on demand.
 - Supports rapid growth without the need for physical infrastructure changes.
 - Enables global access and collaboration across distributed teams.
- 🗝️ 3. Improved Security and Reliability
 - Cloud providers invest heavily in cybersecurity and compliance.
 - Data backups, disaster recovery, and redundancy are built-in.
 - Systems are monitored 24/7, reducing downtime and ensuring business continuity.

Why are 80% of companies repatriating?

-  1. Escalating Cloud Costs
 - Cloud pricing can balloon over time, especially with storage-heavy or legacy workloads.
 - Companies like 37signals reported saving millions by exiting AWS.
 - Subscription fees, data transfer costs, and unpredictable billing models often outweigh initial savings.
-  2. Compliance and Data Sovereignty
 - Industries like healthcare and finance face strict regulations (e.g., HIPAA, GDPR).
 - Keeping sensitive data in-house helps meet legal and internal policy requirements.
 - Some organizations prefer direct control over where and how data is stored.
-  3. Performance and Architectural Control
 - Repatriation allows for tailored infrastructure optimized for specific workloads.
 - GEICO found cloud reliability issues and architectural limitations that hindered performance.
 - On-prem setups can offer better latency, customization, and integration with legacy systems.

Hybrid Cloud Trends

Cloud as a Platform

The cloud is a powerful platform—ideal for certain workloads, but not a one-size-fits-all solution.

Print as an IoT Solution

Print services align more with IoT than SaaS. It's not just about browser access—it's about connected devices and smart infrastructure.

Cloud Economics

Transitioning to the cloud doesn't necessarily cut costs at the enterprise level—it redistributes capital across different operational areas.

Is Cloud-enabled to Cloud Native for you?

- What are the critical paper-based workflows in your world
 - Labels?
 - Safety documents?
 - Enclosures?
 - Barcoded information?
- Are these simple, ad hoc printed documents, or are their actual workflows involved?
- Understand the challenges
 - Network landscape?
 - Exacting needs?
 - Labels?



Nearly 50 years of experience
with print

Deep knowledge of all forms of
print

Deep knowledge of all
destinations

Trusted by Fortune 500
companies for decades

Stable, talented, and capable.



Artificial Intelligence

È solo un'altra parola d'ordine?

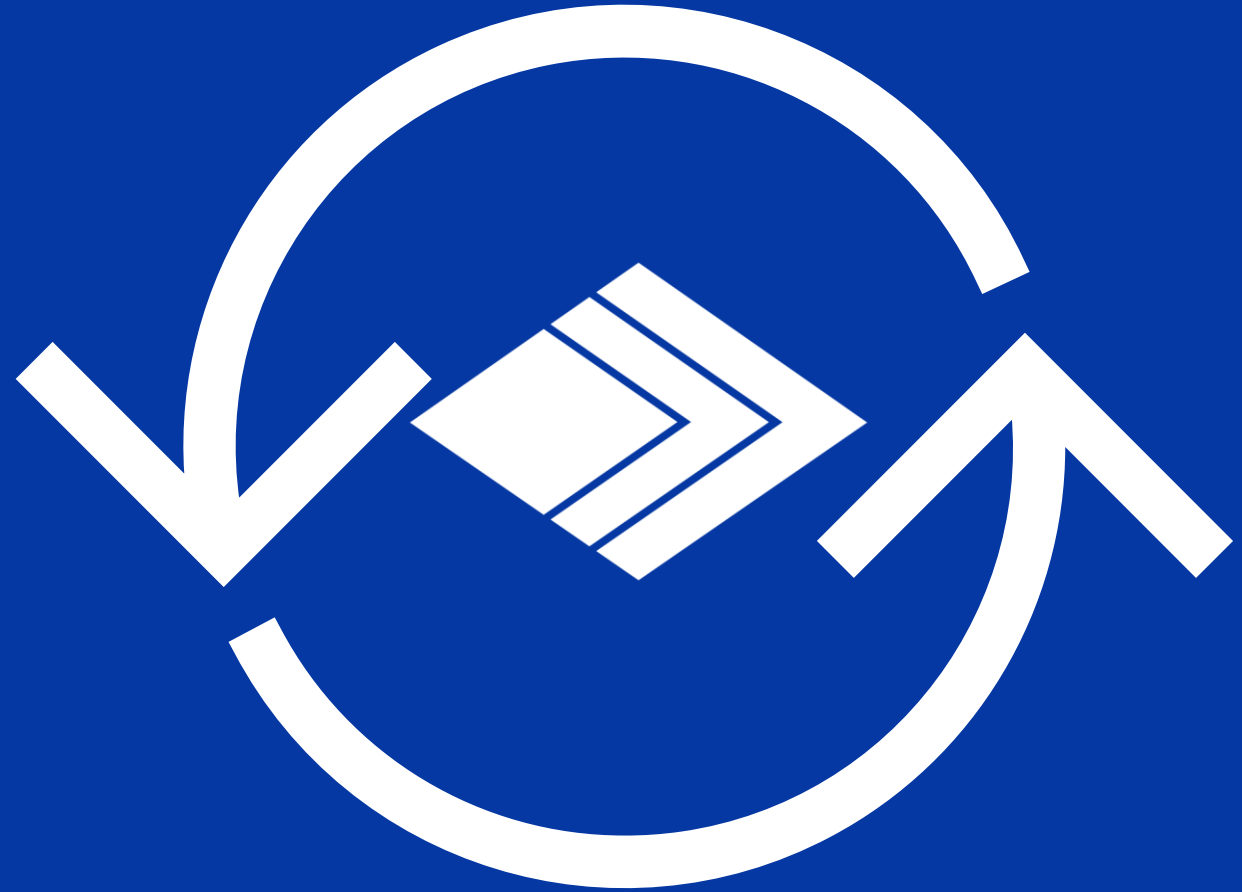
AI - Is this real or is this another buzz word?

- Yes.
 - Some companies are promoting old automation strategies as AI.
 - Some are creating new and innovative interfaces into real AI engines
 - Gemini
 - Co-Pilot
 - ChatGPT
 - Etc.
 - AI is really good at generating anything that has an $A \rightarrow B$ need but there are requirements
 - An appropriate data set
 - Processing
 - Money

What to consider

- Get educated. Many things are good candidates for AI
- Look at cost in the Cloud. Also look at cost to build it in house – many companies are repatriating AI engines.
- What about output management.
 - More on that later.

Product Update and Roadmap



VPSX – Driverless printing

What does Driverless mean in Windows?

- That only Microsoft Modern Print drivers are used
 - IPP class driver
 - Universal Print driver

What does it mean in macOS / CUPS?

- Similar, but more that the use of deprecated PPD files is not used.

What is Microsoft's intention?

- A more secure print infrastructure
- Maybe to make some money?

What is a Print Support App?

- Is this really just a driver”?

The “Activate Internet Printing” Group policy

- With this on and WPP on, printing is defeated entirely.

VPSX – LRS Driverless printing

Phase 1 (already available)

- Printer definitions in VPSX have a Driverless Print selection.
- PersonalPrintManager.custom.json and DRVSTART.ini have new parameters.
- **Only** Direct Print is supported.
- **Only** Mopria compliant devices (Windows).

Phase 2

- PPM will be able to send jobs and metadata to VPSX for handling.
- Initial VPSX support will be limited. Jobs will only be sent to IPP / Mopria compliant devices.

Phase 3+

- Full support.

VPSX – LRS Driverless, what does it look

Update Cancel *Update to apply changes*

Printer Name *
PL033

VPSX ID *
VPSGUY1

CommType *
TCP/IP/IPP

Basics Licenses SNMP Filters **Advanced**

Basic Parameters

Remote Port	Remote Queue
631	PRINTER

HOST/IP Address: 10.10.6.44 Discover Device: RICOH IM C2000

Windows Driver: [Empty] ...

Linux/Mac Driver: [Empty] ...

Location: [Empty] ...

Printer Long Name: [Empty]

Printer Group: [Empty]

Contact: [Empty]

Retain Time: 999 hours

Device Properties

- Color
- Duplex
- Staple
- PullPrint
- Mobile Print
- Affiliate Print
- Driverless Print**

Update Cancel *Update to apply changes*

Printer Name *
PL033

VPSX ID *
VPSGUY1

CommType *
TCP/IP/IPP

Basics Licenses SNMP Filters **Advanced**

+ Advanced Parameters

+ TCP/IP Options

+ PJI Options

+ Printer Options

+ IPP Options

- Windows Printer Options

Print via VPSX

Create direct printer definition

Use IPP protocol to VPSX

Use IPPS protocol to VPSX

Use LPR protocol to VPSX

Disable automatic driver updates

Disable direct secure release

Disable local delivery

Enable policy printing

VPSX family - Quota

- What is Quota?
- Why, after all this time?
- How might it be used?

The screenshot shows the 'Security' console with a sidebar menu containing 'Apps', 'VSPA', 'Print Policies', 'Windows Migration', 'Affiliate Printing', and 'Quota'. The 'Quota' option is selected. The main content area displays the configuration for a policy named 'You put in your 2 weeks'. The description is 'You cannot print anymore.' The policy is currently active, with a 'Policy is active' button and a 'Set as inactive' button. Under 'POLICY CONDITIONS', it is set to 'All of the following conditions are true', with a dropdown menu showing 'Enforce Quota'.

The screenshot shows the 'Users' management console. At the top, there are 'Refresh' and 'Options' buttons. Below that, there are tabs for 'Users' and 'External Groups'. A search bar and buttons for 'Add', 'Modify', and 'Delete' are present. On the right side, there are navigation buttons: '<<', '<', '>', and '>>'. Below this is a table with the following data:

User	Limit Used	Quota Limit
william.lindsey@lrs.com	0	6

LRSQNet - new .NET option for LRSQ

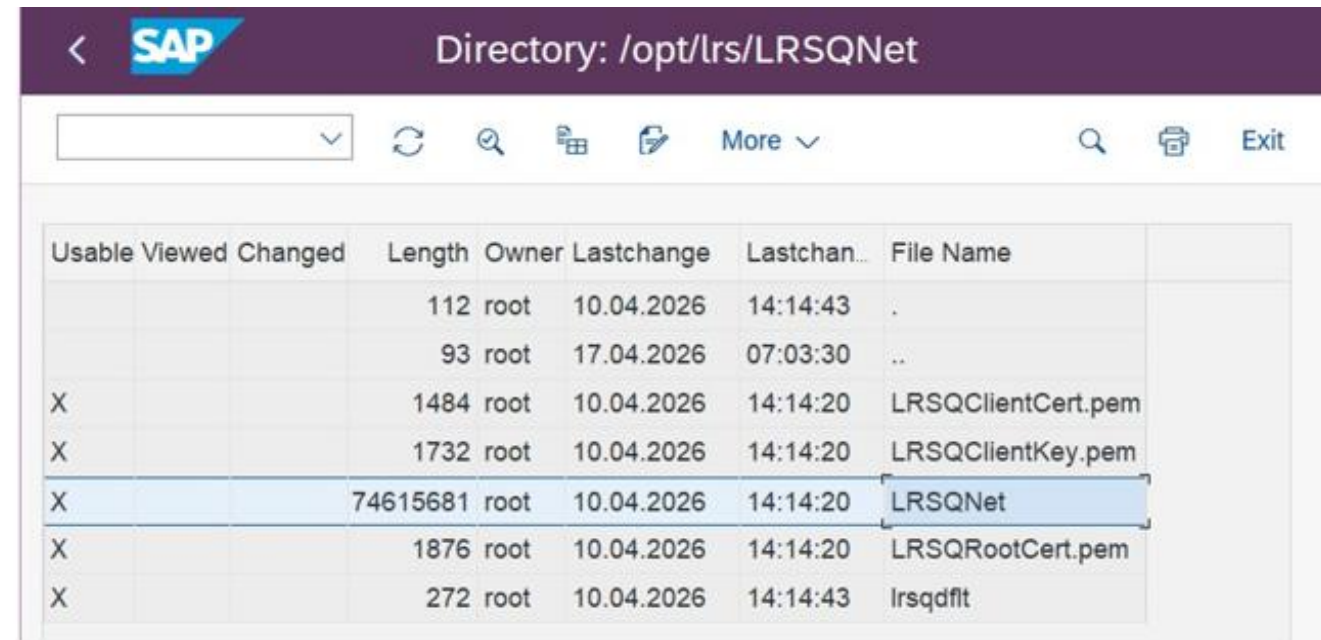
- Add asymmetric key encryption to LRSQ, alternative to AES
- Support 64 bit platforms
 - linux 64 bit (AWS) support for Microfocus Interface
- SAP changes expected in next fix level
- Also added to Cloud Native Products

• LRSQNet built in functionality

- Encryption (SSL/TLS 1.3)
- Redundancy (ALT)
- mTLS (TLS client authentication as specified in RFC 8446, using X.509 certificates profiled by RFC 5280)
- 64bit Linux and Windows .NET self contained with LTS .NET libraries built in
- Not as fast as LRSQ native (IPPS + mTLS Handshake)

Whitelisted by SAP for installation on SAP S/4HANA Cloud, Private Edition

- Works with RISE with SAP
- SAP will install this for you on Cloud, Private Edition
- You must supply and maintain key and cert files (own private CA)
- **Only use if regulatory requirement exists**



Directory: /opt/lrs/LRSQNet

Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchan...	File Name
			112	root	10.04.2026	14:14:43	.
			93	root	17.04.2026	07:03:30	..
X			1484	root	10.04.2026	14:14:20	LRSQClientCert.pem
X			1732	root	10.04.2026	14:14:20	LRSQClientKey.pem
X			74615681	root	10.04.2026	14:14:20	LRSQNet
X			1876	root	10.04.2026	14:14:20	LRSQRootCert.pem
X			272	root	10.04.2026	14:14:43	lrsqflt



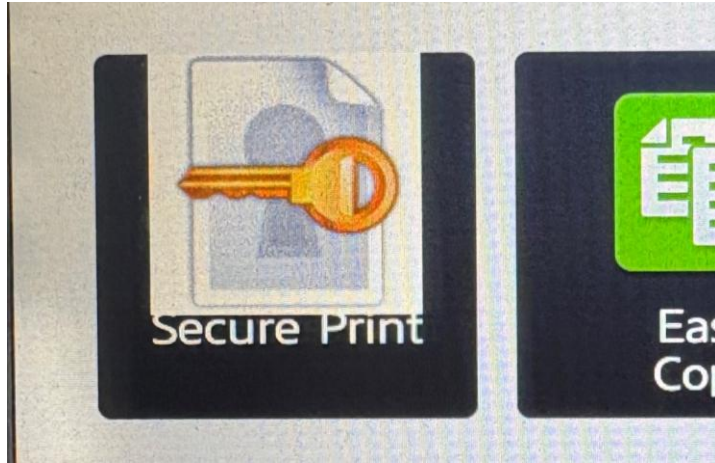
We implemented Zero Trust principles at the transport layer using mTLS, with authentication bound to client and server identities and authorization scoped by customer-managed certificate authorities.

SAP® BC-XOM Interface with mTLS

Gateway - SCIM support

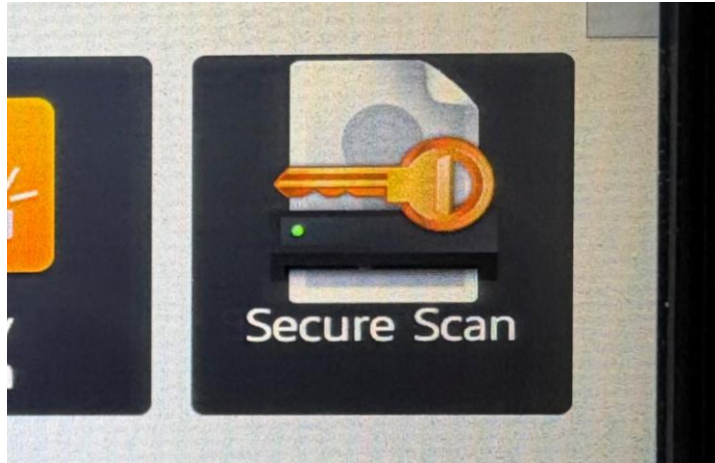
- Available with VPSX V12R4.026 (Gateway V1R4.023)
 - Added support for System for Cross-domain Identity Management (SCIM) v2 when configured using OIDC, providing support for synchronizing directory users and groups allowing Gateway to reference user information before users log in. For this release, Gateway only supports Entra ID SCIM Provisioning.
- Will resolve key deficiency with OIDC (synch of user and group info before users have registered)
- Also resolves VSPA for XenApp issue (unknown user)
- Also added to Cloud Native Products

MFPsecure/Print updates



- Agents are always being improved
 - Underlying infrastructure and security
- Language additions and adjustments
- I printed it to my personal print queue but I did it wrong. Now what?
 - Some agents allow for adjustment at release time now
- Brother support added
- Canon i-SENSE and ImageCLASS models

MFPsecure/Scan



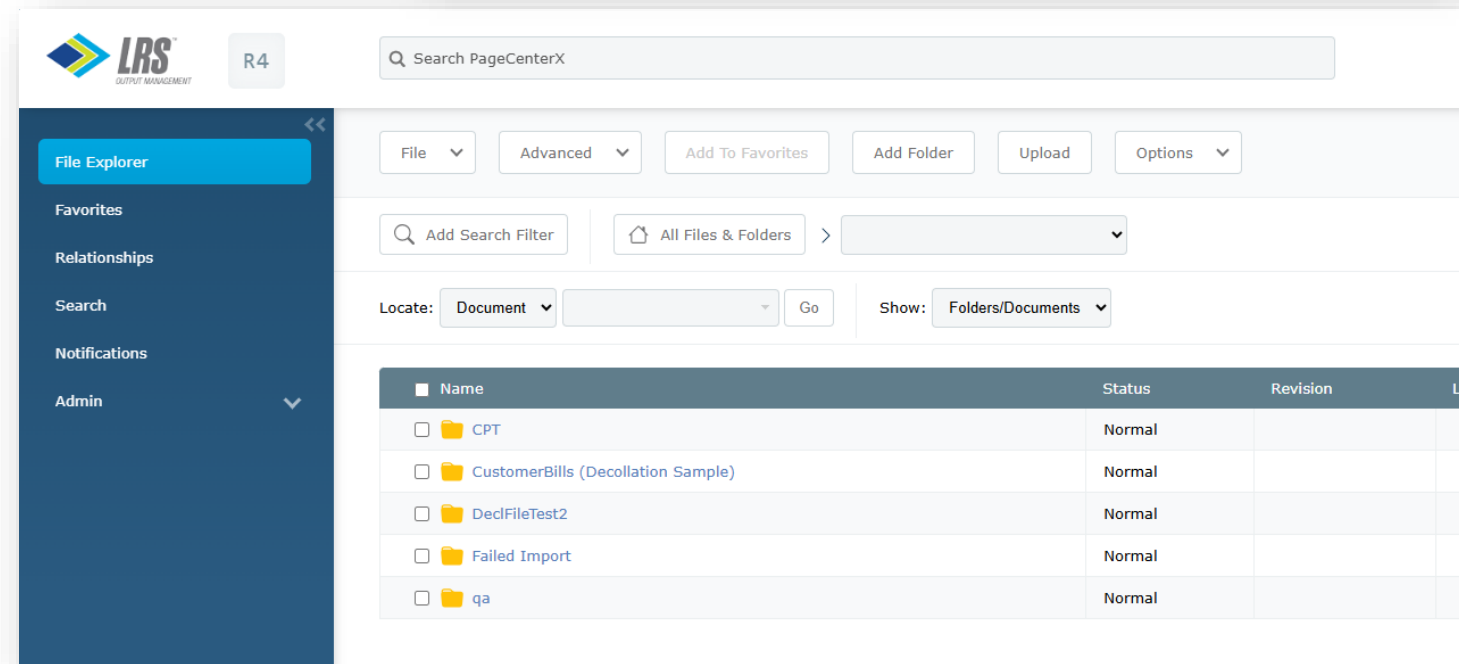
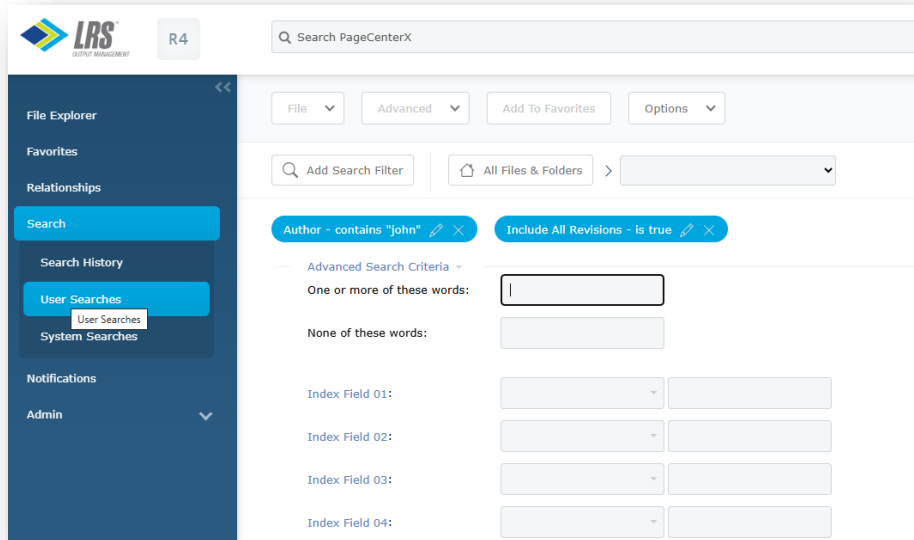
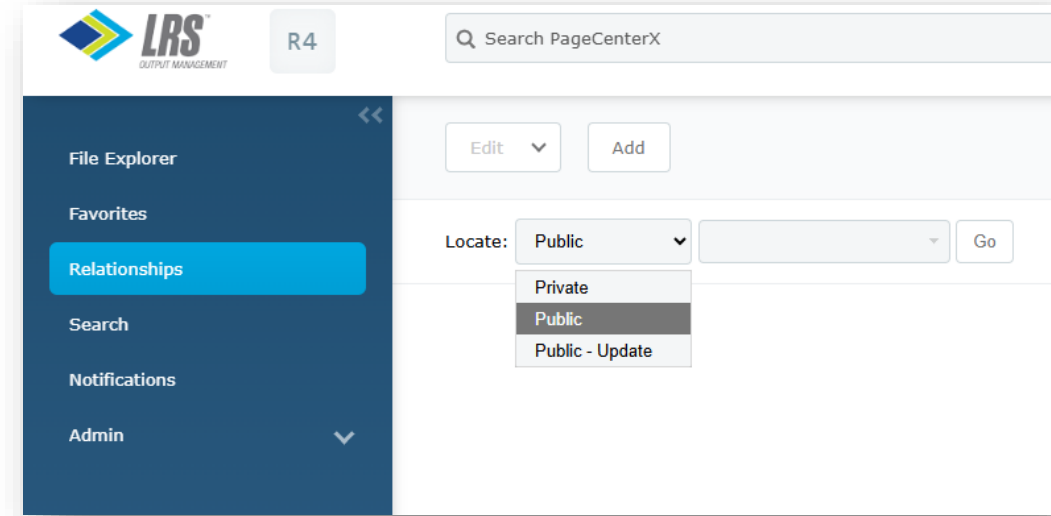
- Web UI – Changes in the Web and legacy Uis
 - Google Drive, Google Mail, FTP
- Devices are always changing
 - HP Hi Res screens
- Real time adjustments at the MFD
- Language adjustments to OCR
- New job processor
- Numerous customer enhancements

Chromebook PPM support

- Development in progress
- Runs as a Chrome browser extension
- PPM look and feel, with some limitations:
 - No DSR
 - No accounting data for direct print

PageCenterX R4

- Gateway authentication
 - Authenticated transactions
 - Multi factor authentication?
 - That's up to you.
- New UI



LRS Mission Control

To infinity and beyond!



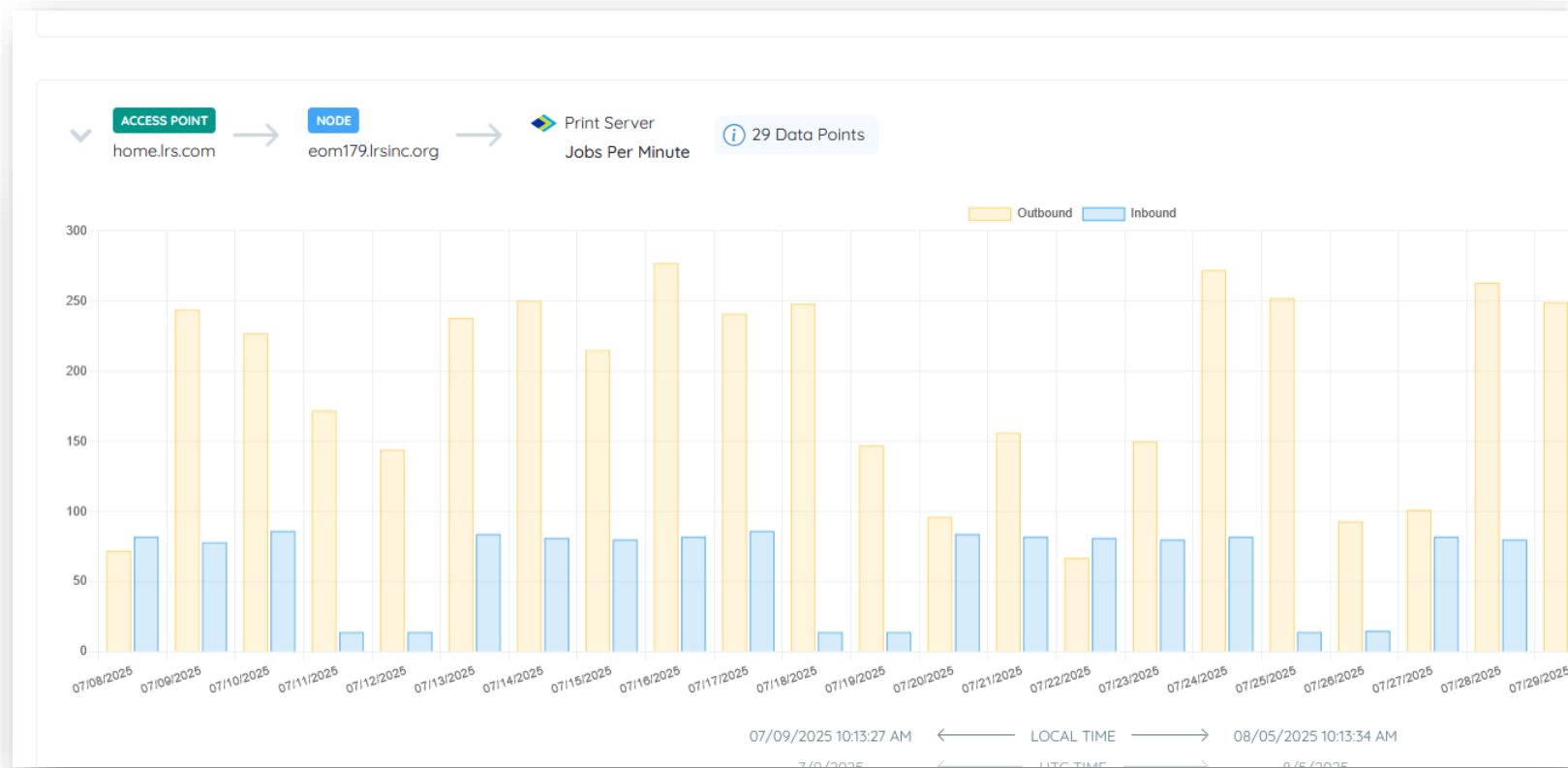
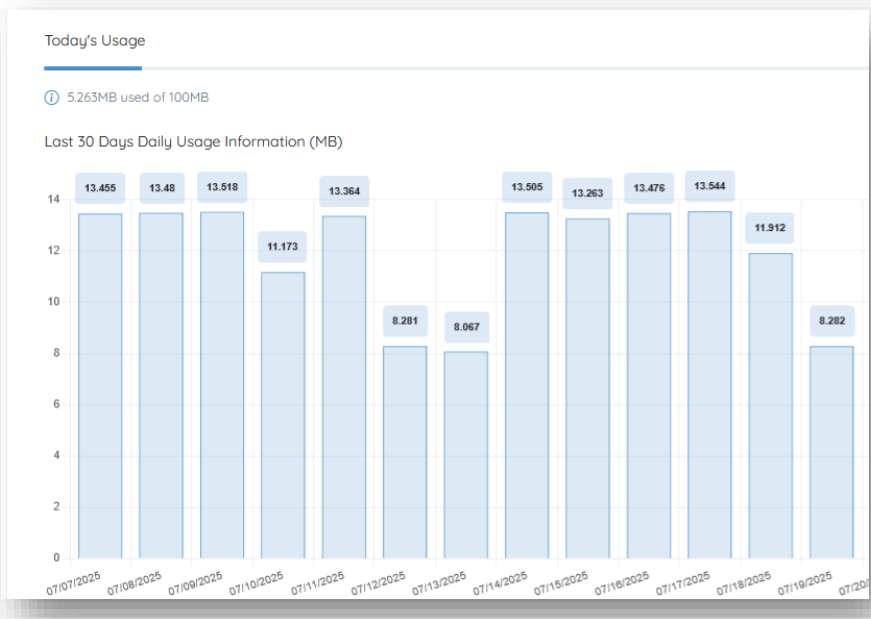
LRS Mission Control

- Available and encouraged.
- A Platform. This is the basis for LRS SaaS offerings
- Runs in Microsoft Azure
 - Front Door
 - Terraform
 - Database(s)
 - Storage
 - CPU
 - Ad infinitum

Customer benefit

- LRS Mission Control platform is included in onsite licensees
- Provides Analytics

- Provides license distribution
- R4 is prerequisite



LRS Mission Control

- How to think about SaaS costs:
 - Base infrastructure – Azure, Development, Maintenance
 - Usage of various facilities
 - Access
 - Infrastructure creation and deployment
 - Analytics
 - CPU usage
 - Various storage
 - Base files
 - Database components
 - Database consumption
- Note that for onsite products, the customer pays these same things and assumes certain risks!

Environment

- LRS/Gateway Environment (On Premise)
 - This is included with LRS Mission Control.
 - We do not charge for this per se, but the cost to the customer is the onsite licenses they pay us for PLUS the infrastructure to run our products.
 - You may have more than one of these within prescribed limits.
- LRS Mission Control Hosted Environment
 - A single instance of LRS Mission Control resources. Customers may require multiple instances for purposes of managing the Azure data storage regions or for production and testing. Each is considered a separate LRS Mission Control instance and will incur an additional LRS Mission Control Hosted Environment fee.

For Example,

LRS Levi, Ray & Shoup, Inc. - Demo
EOM Environment

[+ Add EOM Environment](#)

LRS Mission Control Hosted Environments
1 used of 1

Hosted Environment - East US

- LRS Mission Control Hosted Environment
 - Connected
 - 📍 East US ⓘ LRS Mission Control Hosted Environment 🔗 Production

Existing LRS/Gateway Environments
1 used of 2

Demo Environment

- Connected - All LRS/Gateway Nodes Connected (1)
 - 📍 East US 🔗 Production

Levi, Ray & Shoup, Inc. - Demo
EOM Environment > Add EOM Environment

Add EOM Environment
Complete the options and click Add EOM Environment when finished.

[✔ Add EOM Environment](#) [✕ Cancel](#)

Environment Name
Required: Please enter an alphanumeric name to describe the EOM environment

Description
Optional: Optionally enter a description of the environment.

Resource Location
Required: The geographical region where data for the environment should be stored.

East US ▼

- East US
- North Europe

Existing LRS/Gateway
Use this environment to manage an existing LRS/Gateway environment. Use the LRS Mission Control VPSX UI to establish a connection to LRS Mission Control.

Production Environment
You have reached the maximum number of production environments.

Single Hosted Environment

- This will be typical
- This provides a basis for products to run
- But –
 - Some customers may have some unforeseen need for a second environment
 - Location?
 - Test? (I believe this is something we should discourage)
 - Storage segregation?
 - Who knows – but . . .
 - A second environment will incur a fee that the first did not.



TRANSFORMING PRINT AND SCAN IN THE CLOUD

Simplify Print. Streamline Scan. Scale with Cloud.



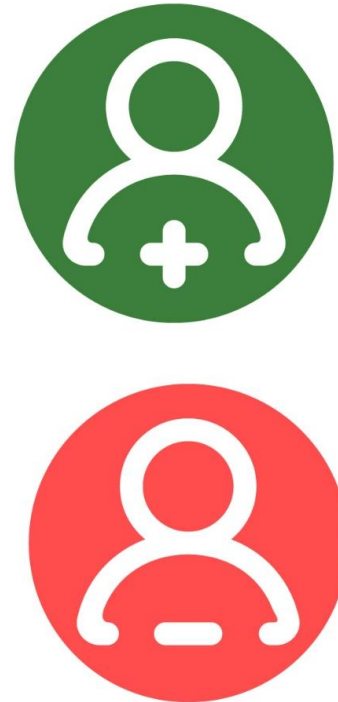
Cloud Scan, Print and Output Management

From Cloud-Enabled to Cloud-Native

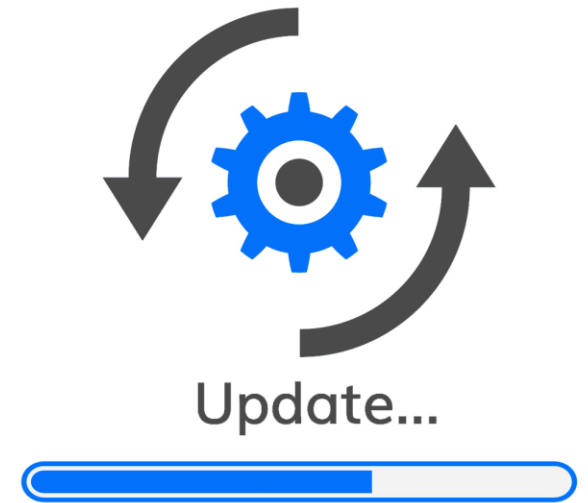
Simple to Deploy



Easy to Scale



Delivered as SaaS



Cloud Print and Scan: As You Like It

Solution Core Capabilities



Enterprise Output Management



Secure Printing



Scan Workflow



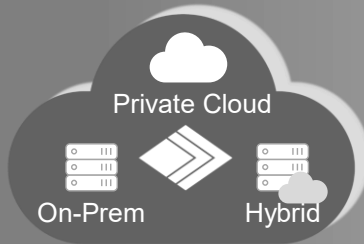
Auditing and Reporting



API Integrations

LRS Mission Control

Solution Environment Modes



Cloud-Enabled

Bespoke, single-tenant installation in server and/or Cloud environment administered by customer.



Cloud-Serviced

Customizable single-tenant, LRS-hosted environment configured and administered by LRS experts.



Cloud-Native

LRS Multi-tenant SaaS Solution with Single Tenant customer data storage. Simple deployment, zero infrastructure requirements, auto updates.

LRS Managed Services

Flexibility

IT Involvement

Ease of Deployment

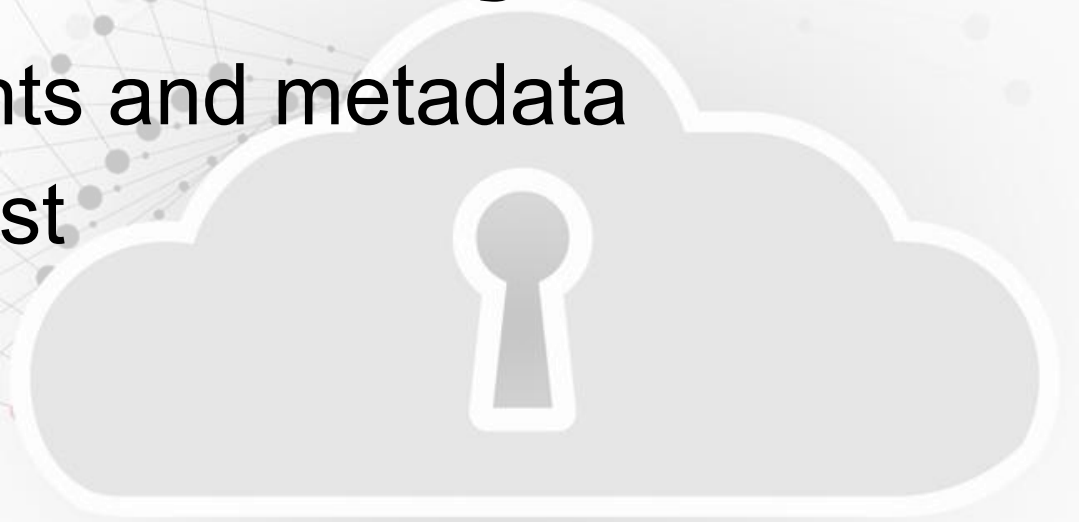


LRS Update & Networking



Enterprise-Grade Cloud Security

- End-to-end encryption of documents and metadata
- Data protected in motion and at rest
- Role-based access control
- Audit logging for full traceability
- ISO 27001 certified infrastructure
- Data privacy compliant for regulatory assurance e.g., HIPAA, GDPR etc.

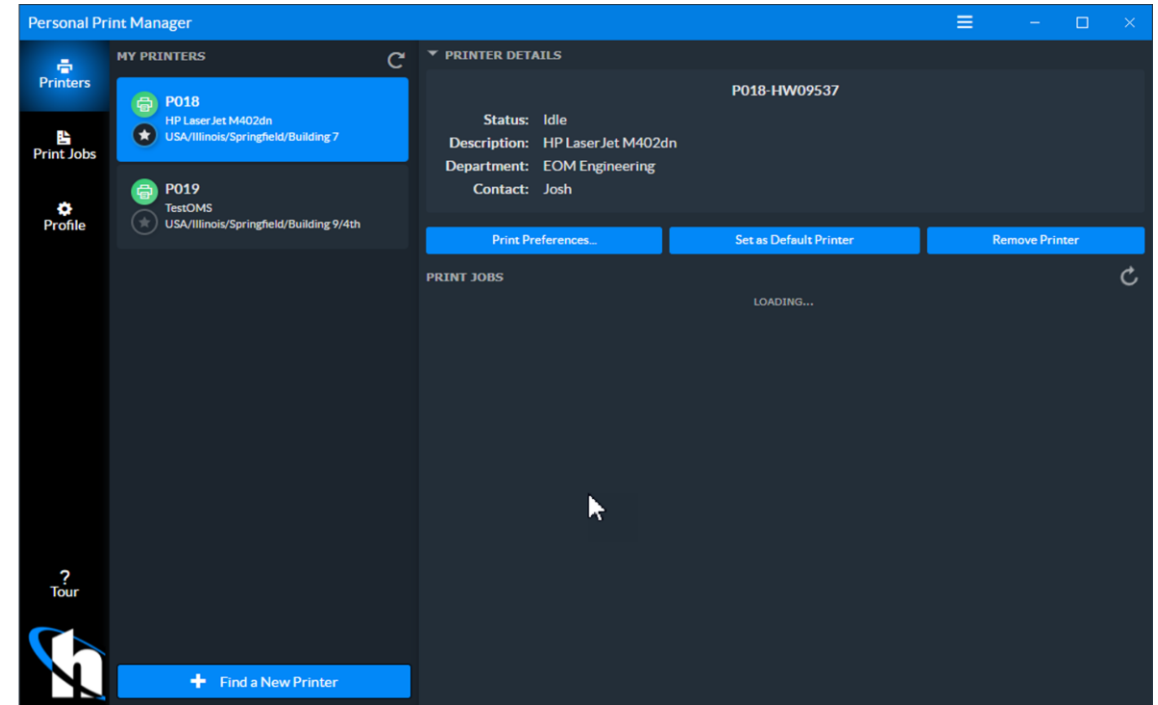
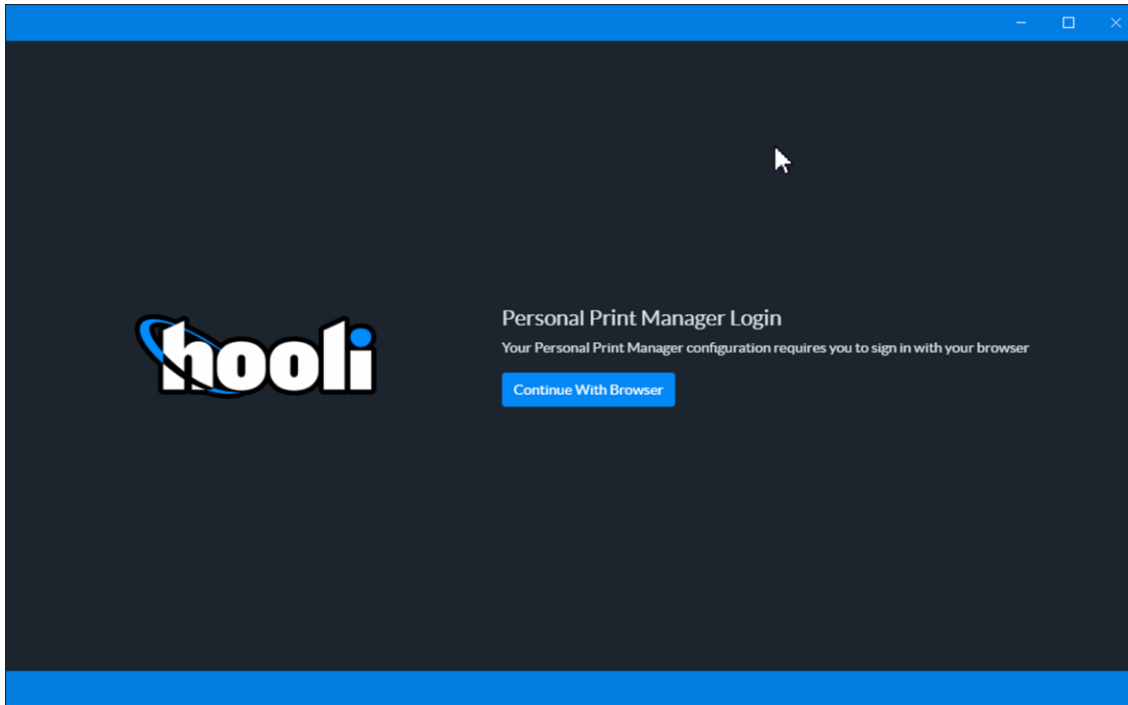


Proven Scalability and global support

- Supports tens of thousands of users across hundreds of sites
- Keep hybrid and field teams productive
- Improve uptime, speed remediation
- Predictable quality and service worldwide
- Proactive support

The screenshot displays the LRS Mission Control dashboard. At the top, there are seven navigation tiles: EOM Environment (Your printing environment), Licenses (Check usage & expiration), My Reports (Audit reports assigned to you), Notifications (Any alerts that are important), Security (Manage authorization & permissions), Activity Log (View organization events), and My Profile (Information about you). Below these, the 'EOM Environments' section shows a table of environments. The first table, 'LRS Mission Control Hosted Environment', lists an 'EOM Environment' named 'Hosted Environment - East US' with a status of 'Connected' and a last updated time of '04/15/2025 02:26:00 PM'. The second table, 'Existing LRS/Gateway Environment', lists an 'EOM Environment' named 'Demo Environment' with a status of 'Connected', one server, and a last updated time of '04/15/2025 09:26:42 AM'. Below this, there is a detailed view of an environment with an 'ACCESS POINT' (home.lrs.com) and a 'NODE' (com179.lrsinc.org), both with a last updated time of '04/15/2025 09:26:42 AM'. This view includes a 'Ports' section with three entries (631, 515, 5500) and a 'Processes' section with four entries (LRS IIS Website, VPSX, ServerX, IIS Service, and NetX). On the right side, the 'License Capabilities' section lists three capabilities: 'EOM Output Server' (Expires: 10/1/2025), 'Hosted in LRS Mission Control' (Expires: 10/1/2025), and 'Innovate/Audit Cloud' (Expires: 10/1/2025).

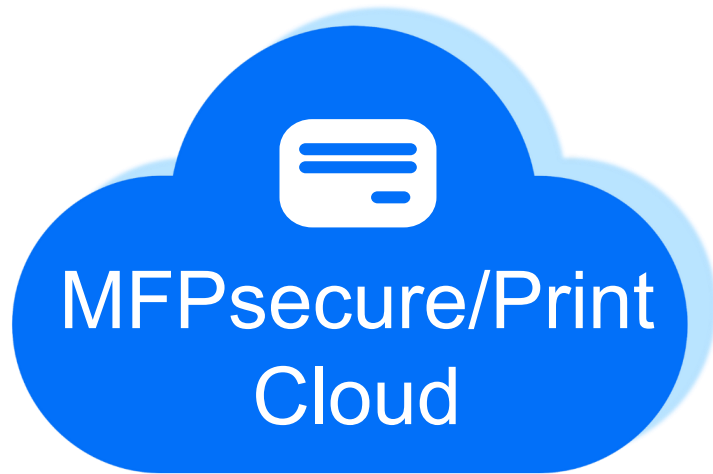
Consistent end-user experience



- UI consistency across all devices
- Print anywhere, release anywhere

- Predictable across platforms
- Fast, low-effort scanning

LRS Cloud Print and Scan



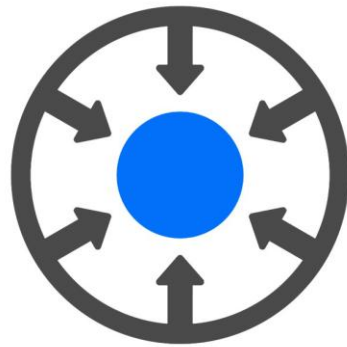
VPSX/DirectPrint Cloud

ELIMINATE PRINT SERVERS, SIMPLIFY MANAGEMENT



Serverless Printing

No Windows print servers—simpler, leaner infrastructure.



Centralized Control

Management of devices, drivers, and delivery in a single dashboard



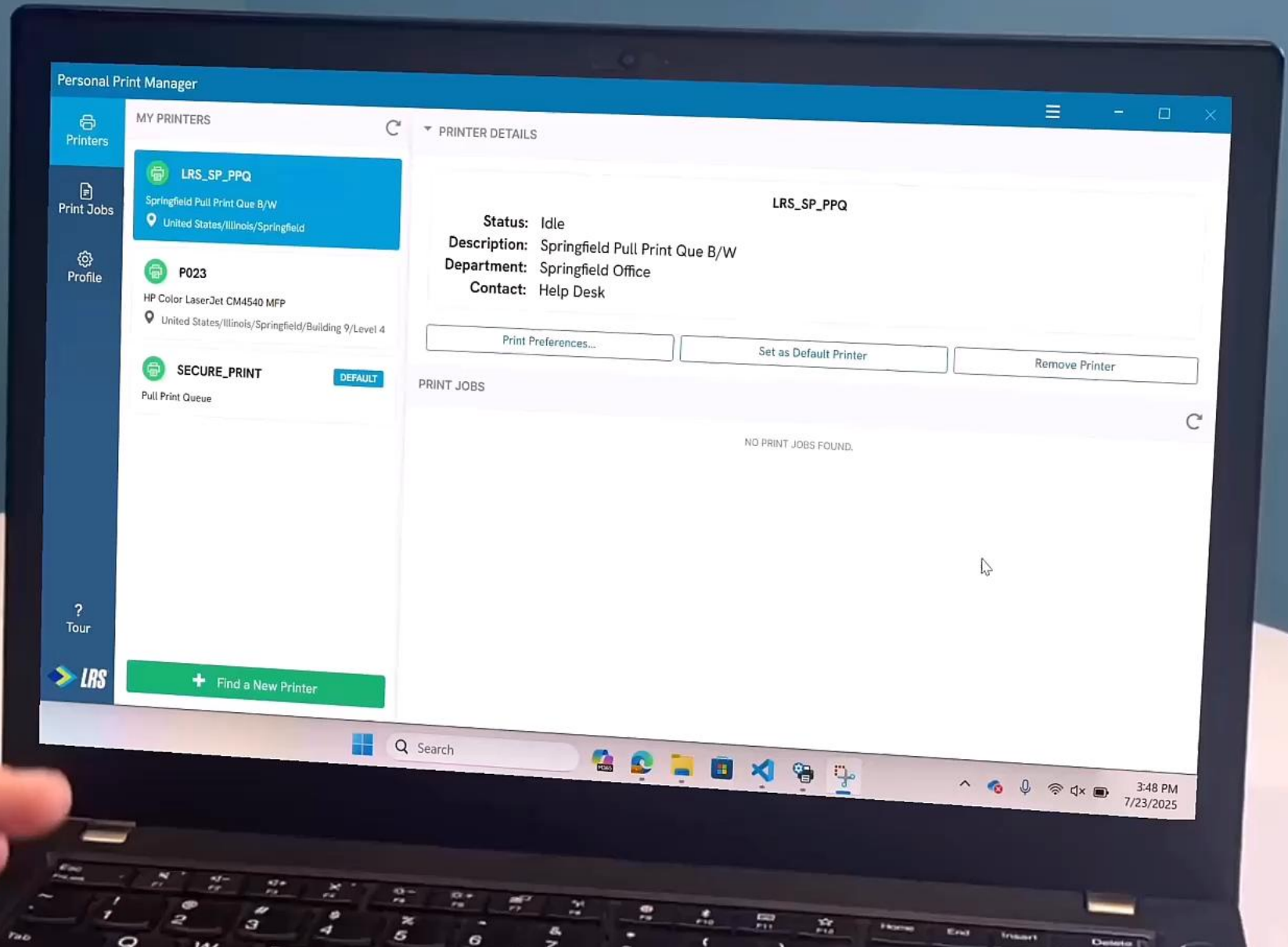
Secure & Scalable

Global cloud backbone for security and growth.



Driverless & Auditable

Print from any desktop or device with full activity tracking.



Cloud Scan, Print and Output Management

MFPsecure/Print Cloud

SECURE CLOUD PRINTING MADE SIMPLE



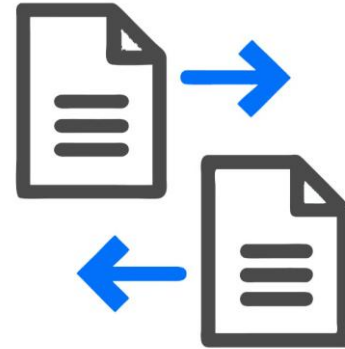
Secure Pull Printing

Print to personal queue and use authenticated release at any MFP.



Multiple Authentication Options

Supports badges, PINs, and other methods for secure access.



Flexible Document Delivery

Send to cloud for scalability or keep on PC for control and compliance.

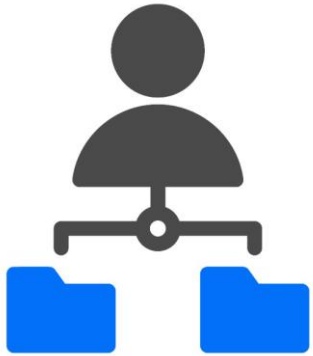


End-to-End Encryption

Protects documents in transit and at rest with strong encryption.

MFPsecure/Scan Cloud

SMART, SECURE SCANNING MADE SIMPLE



Personalized Workflows

Shows the right scan options based on user role.



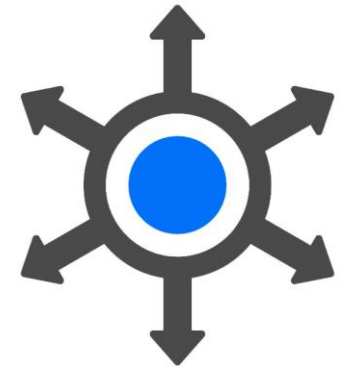
Automated Data Capture

Uses OCR to extract data from documents like invoices or forms, reducing manual entry.



Direct Cloud Delivery

Send scanned files straight to destinations like OneDrive, SharePoint, or email for instant access.



Centralized Management

Control all scanning workflows from a single cloud platform for consistency and compliance.

On-Premise Connector for Cloud

Levi, Ray & Shoup, Inc. - Demo
EOM Environment > Hosted Environment - East US

Spada, Massimo

Overview Print Server Secure Print & Scan Desktop App **On-Premise Connector** Audit

On-Premise Connector
On-Premise Connector Activity
Up to the last 30 days of On-Premise Connector Client activity.

Search

Select Date Range

Start Date/Time: 04/18/2026 12:00:00 AM
End Date/Time: 05/18/2026 11:59:59 PM

Activity Type - is "On-Premise Connector"

Activity Information
On-Premise Connector Connected Connected
On-Premise Connector Disconnected Disconnected
On-Premise Connector Connected Connected

Details

Details

Details

Details

Innovate/Audit Cloud

SMART, SECURE SCANNING MADE SIMPLE



Granular Visibility

Track over 60 document attributes for complete insight into usage.



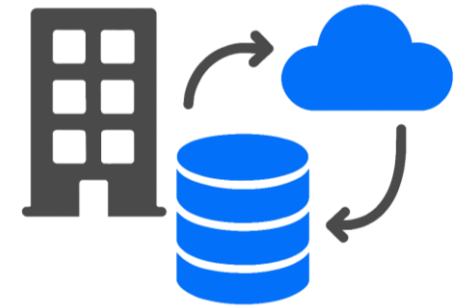
Actionable Analytics

Power BI dashboards uncover patterns, inefficiencies, and risks..



Cost Optimization

Identify savings opportunities through detailed usage analysis.



Hybrid Environment Coverage

Consolidate data from on-premise and cloud systems for a single source of truth.

10/13/2025

10/20/2025

Last 7 Days

This Month

This Year

Custom

Total Jobs

152K

Total Pages

1.47M

Total Impressions

1.49M

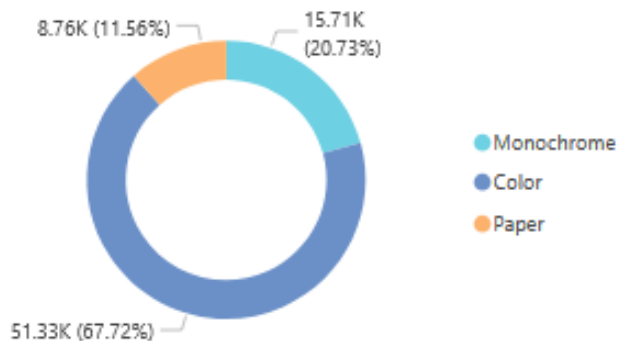
Total Cost

75.79K

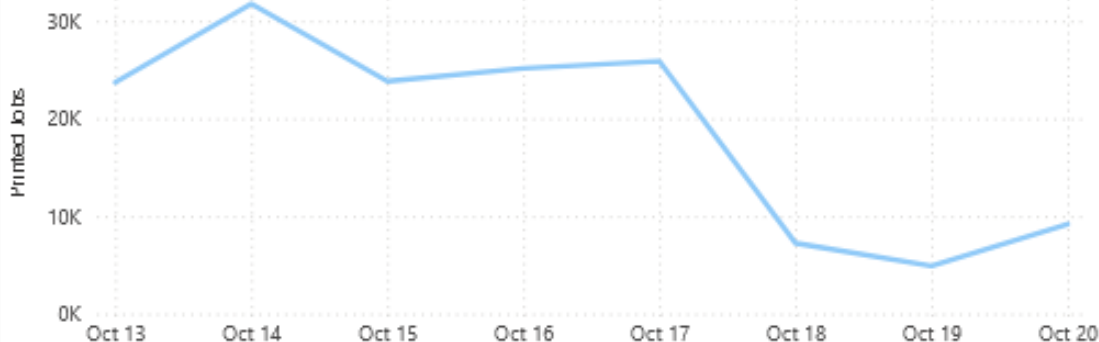
Possible Savings

48.99K

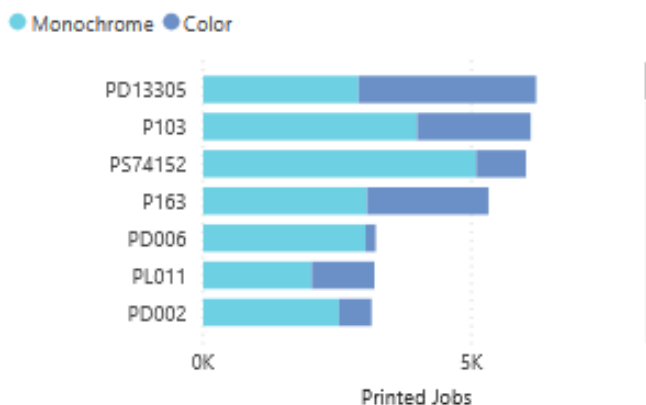
Cost Breakdown



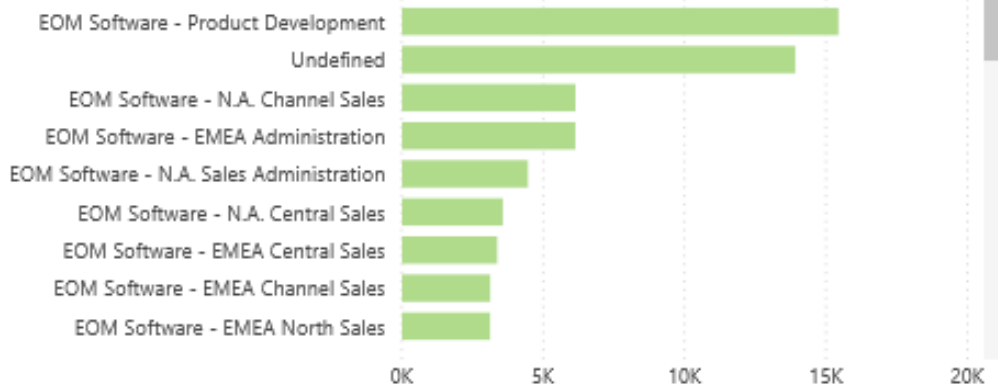
Job Count



Top Printers by Print Volume



Top Departments by Cost



Start Date 10/13/2025

End Date 10/20/2025

Source Unknown, Print Server, P

Location



Location Summary

Jobs: **151,608** Impressions: **1,492,633** Pages: **1,471,987** Cost(\$): **75,793.03**

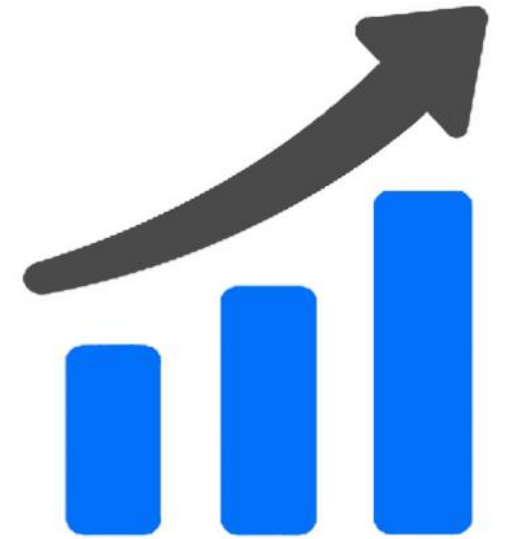
Sources: Unknown, Print Server, Print Direct, Print - DBA, Copy, Copy - DBA, Scan, Scan - DBA, Fax - DBA, Other

Locations: 11

Location	Impressions			Pages		Job Cost (\$)
	↑↓ Mono	↑↓ Color	↑↓ Total	↑↓ Total	↑↓	
AUS/New South Wales/Sydney	29,543	30,369	59,912	58,864	4,433.06	
DE/Heiligkreuzsteinach/Wiesenweg 4	473	187	660	577	24.81	
UK/England/Cheltenham	56,553	32,851	89,404	88,295	5,232.14	
USA/California/Anaheim	1,763	592	2,355	1,550	87.73	
USA/Georgia/Atlanta	22,132	9,707	31,839	31,003	1,674.48	
USA/Illinois/Springfield/Building 5	127,235	51,609	178,844	176,798	9,020.19	
USA/Illinois/Springfield/Building 7	323,707	104,586	428,293	421,721	19,578.85	
USA/Illinois/Springfield/Building 7/4th floor	277,237	92,484	369,721	364,788	17,134.63	
USA/Illinois/Springfield/Building 9/4th floor	146,492	60,535	207,027	204,807	10,604.66	
USA/Missouri/Kansas City	21,827	8,606	30,433	30,308	1,499.81	
USA/Texas/Dallas	50,209	43,936	94,145	93,276	6,502.67	

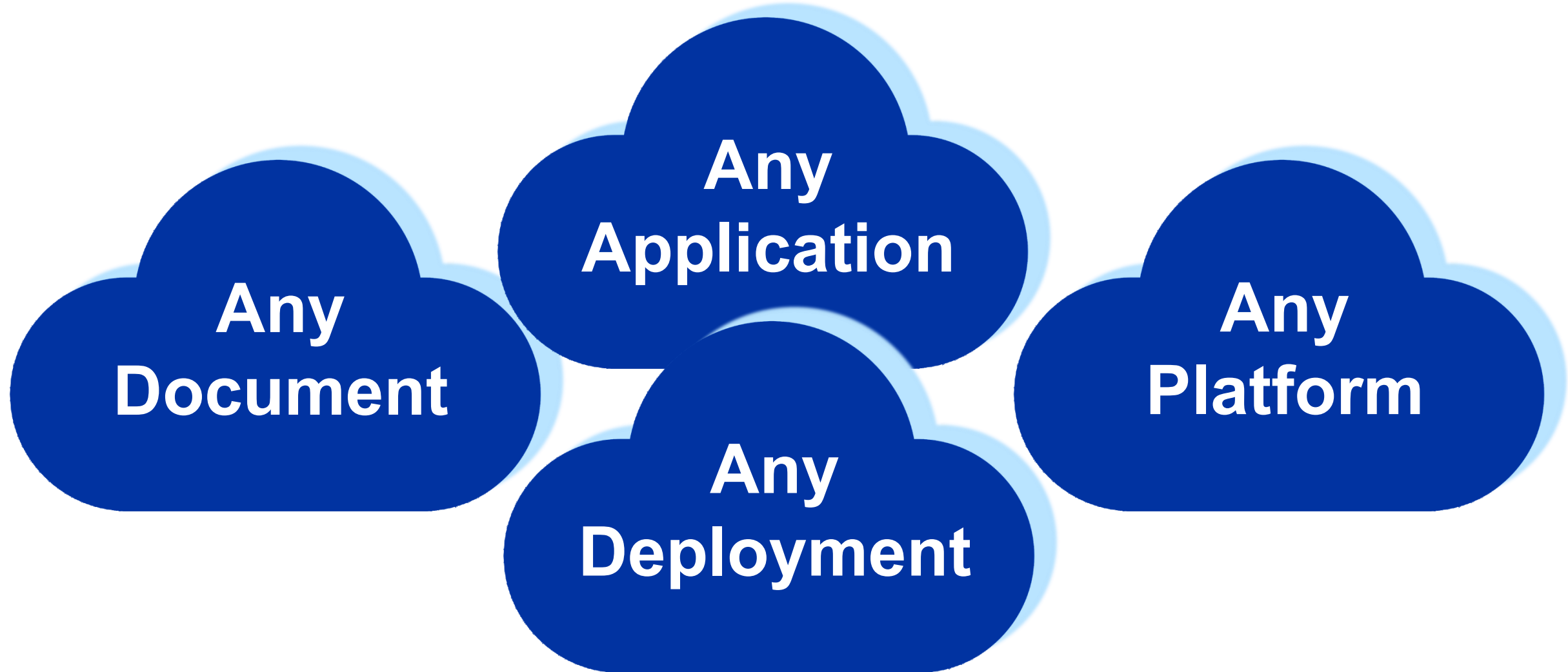
1 of 1

Why Cloud Printing?

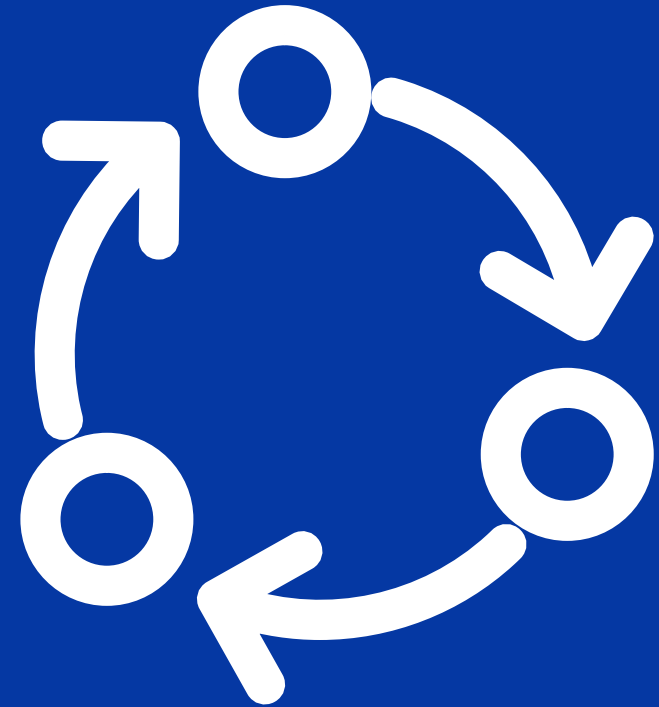


Serverless. Secure. Simple. Scalable.

Future Proof Cloud Solutions



Process updates



Process Updates

- Knowledge base
- Enhanced release notes
- Training
 - Documents
 - Presentations
 - Videos
 - Quizzes
 - Watch Parties

LRS Knowledge Base

Find the answers you need when you need them



KB0010602

Enhanced Release Notes - MFPsecure V1 R4.0 Fix 0020

📅 11d ago • 👁 34 Views

NOTE: Customers using the HP Agent and upgrading to MFPsecure 1.3.54 or later must upgrade the HP Agent to V1R3.054.005 immediately following the MFPsecure upgrade. Redeployment is not required.

HP devices will require FutureSmart 5.6 or higher to support TLS 1.3 with SecureScan. However, due to firmware issues on various devices TLS 1.3 may result in the 49.38.03 error.



Title
VPSX Enterprise-LRS/Queue Installa...

LRS Document Description
VPSX Enterprise-LRS/Queue Installation hands-on training



Title
VPSX/DirectPrint Cloud - The Client...

LRS Document Description
Overview and hands-on instructions to configure a Sandbox for use with VPSX/



Title
Personal Print Manager - Installatio...

LRS Document Description
Personal Print Manager - Installation and Configuration hands-on training



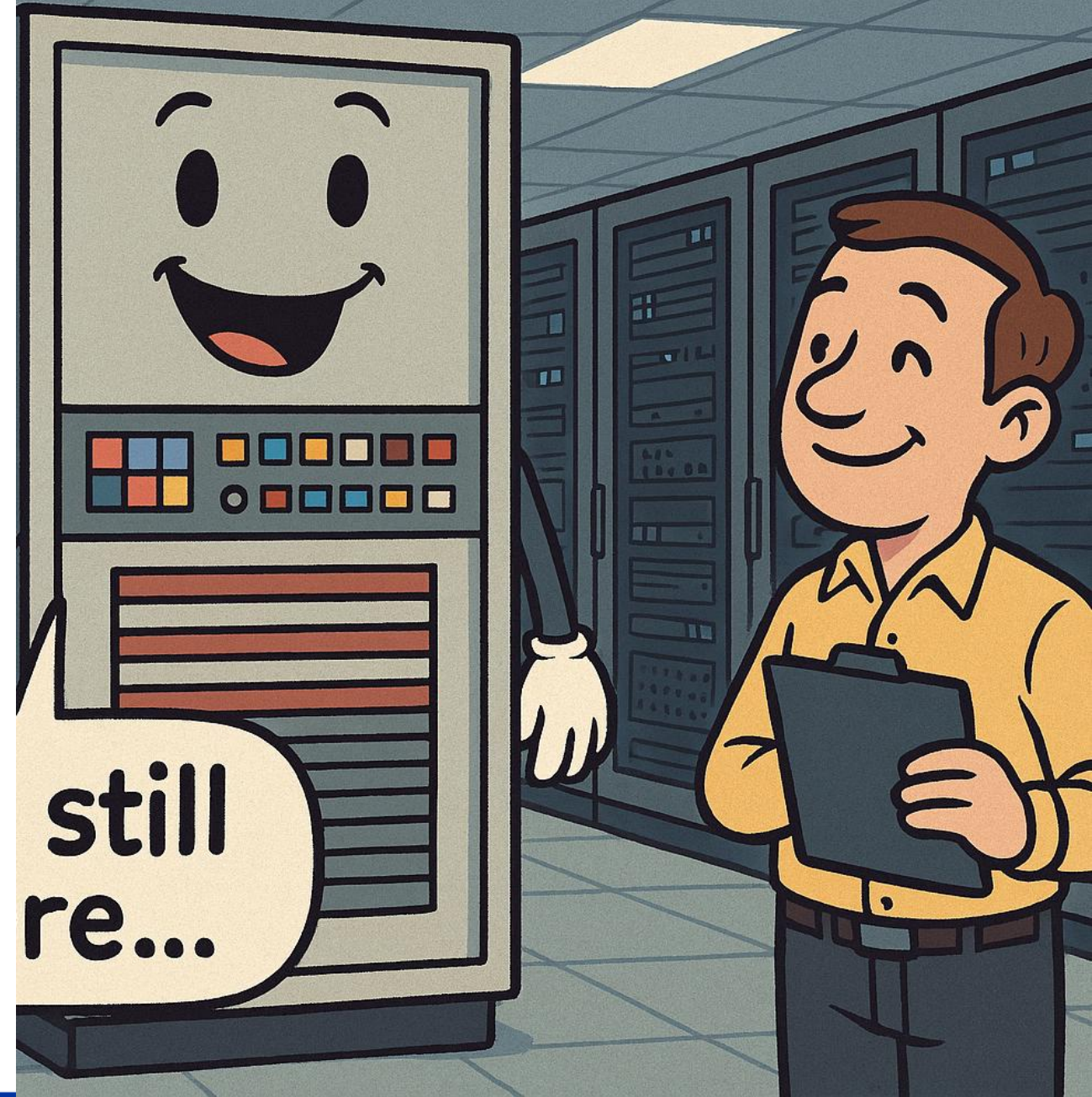
AGENDA

Technical Session

- Mainframe
 - Trends and directions
 - Re-engineering mainframe output
- SAP
 - Replacing SAP Document Composition Tools
- Stories from the Field
 - Redaction
 - Copy print restriction
 - Bundling and Pull Printing
 - Scan process as part of Print process

The Mainframe...

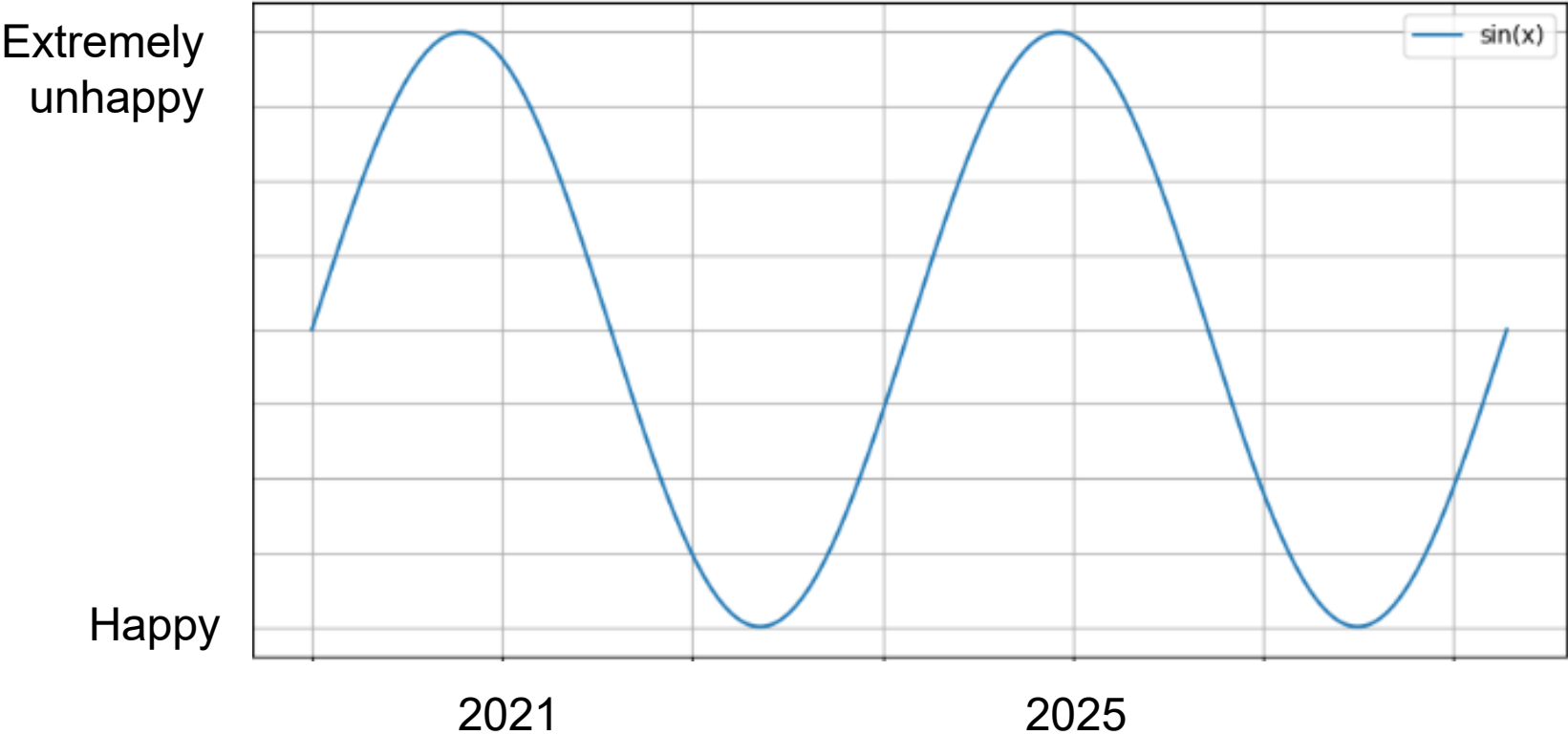
- Today, Mainframes are still running **70% of global business transactions**, quietly powering the digital world behind the scenes.
- LRS are not here to sell “legacy technology” - we’re here to help our clients modernize, scale, and unlock untapped value as a competitive advantage.



Where LRS can help...

- Attrition of mainframe-skilled staff
- Initiatives to move away from mainframe applications
- Initiatives to modernize pieces of the mainframe landscape
- Incompatibility with modern tools
- Need for Modern APIs, real-time access
- Mitigation of dependency on legacy skills
- Reduce high operational (storage, MIPS) and licensing costs

What we are seeing...



Broadcom:
CA/Spool
CA/View
CA/Deliver
CA/Bundl
CA/Dispatch
Others...

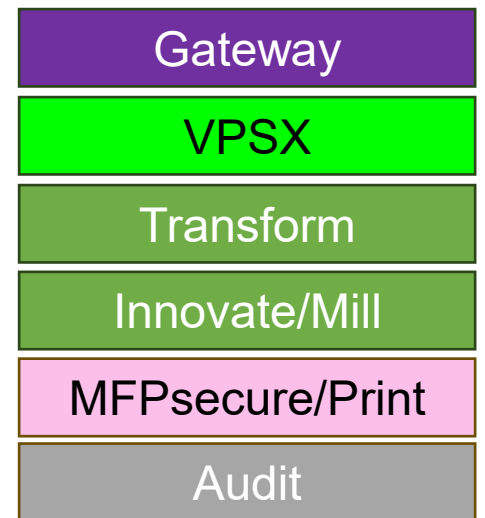
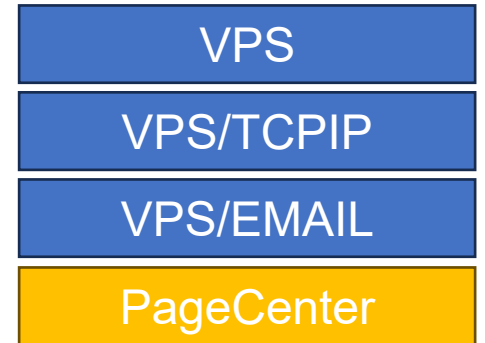
BMC:
Control/D

CA (Broadcom) and BMC licensing policy!



LRS solutions...

- Deliver output from the mainframe...
 - direct to printers
 - to eMail
 - to Archive
- ... and via the LRS open systems platform to enable
 - print to remote/internet-only locations
 - pull-printing for mainframe documents
 - document Transformation and/or re-engineering
 - audit and analysis
 - future proof delivery of mainframe output



How LRS can help...

- As an alternative mainframe solution
 - proven technology, endless experience, ...
 - core product, continued development and support
- Moving to MicroFocus, Anubex, Fujitsu, etc.
 - LRS has interfaces to many of these products
 - many "modernisation projects" fail to consider printing/archiving soon enough – LRS have already thought of it and know what to do
- Moving to open-systems Report Archiving\Viewing
 - LRS Conversion and Migration Services team has done many of these
 - This brings VPSX/PCX into play
- Enhancing / re-engineering mainframe output
 - change document layout, logo, letter text, ...
 - deliver in different format to a new destination

What LRS have done...

Totals by "From" Archive Product	Completed	Vendor/comments	Platform
Beta93	0	Beta Systems	z/OS
CA- Bundl	2	Computer Assoc. (now Broadcom)	z/OS
CA-Dispatch	5	Computer Assoc. (now Broadcom)	z/OS
View	7	Computer Assoc. (now Broadcom) - fka SAR	z/OS
View/Deliver	11	Computer Assoc. (now Broadcom) - fka SAR/Express	z/OS
CMOD for z/OS	1	IBM - Content Manager OnDemand	z/OS
CMOD for Multiplatforms	1	IBM - Content Manager OnDemand for Multiplatforms	Open
Columbus DW	1	Macro4 (a division of UNICOM)	Open
Content Server z/OS	4	Systemware (fka XPTR)	z/OS
Control-D	8	BMC	z/OS
LaserArc	2		Open
Marchive	1	M/Archive - Kuhn & Weyh - Software GMBH	Open
Mobius	15	ASG (Rocket Software) (fka InfoPac, ViewDirect)	z/OS
Mobius for Nets	4	ASG (Rocket Software) (fka ViewDirect for Networks)	Open
PageCenter	9	LRS	z/OS
PageCenter Plus	3	LRS	Open
Report2Web	1	Redwood	Open
ReportSafe	0	Accscend	Open
RMDS	4	IBM (withdrawn from marketing/support)	z/OS
RMS	1	Mantissa	z/OS
Rocket EOS	3	RSD (now Rocket Software) (fka RSD EOS, EOS 360)	z/OS
Rocket Folders	1	RSD (now Rocket Software) (fka RSD Folders)	Open
TRMS	3	SEA	z/OS
Vista Plus	3	OpenText Vista Plus (fka Quest Vista Plus)	Open
Other	10	One-off projects: In-house or non-mainstream	
TOTAL	100		

SUMMARY

- Mainframe is still very important to you...
...and to LRS!
- LRS mainframe products actively developed and supported
 - VPS V2R1.2.0070 (25/03/2026)
- LRS seeing trends to
 - replace existing m/frame products with "like-for-like"
 - use LRS open systems products to
 - enhance document output
 - enable mainframe output with same features of 'workplace'

Document Composition for SAP



... presented for use with SAP, but can be used in many other scenarios!

Why is this "a thing"?

SAP are changing the game with RISE:

- SAP **Presentment** means Document Composition (like StreamServe which is now part of Open Text) but they were ALL **click charged**
- SAP Forms by Adobe (replaces Adobe Document Server, which was Free for printing) running on BTP - now **charges by block**, and results in massive charges for companies who print a lot



Adobe Document Services out of support in 2027 - extended maintenance available until 2030

- Change required: SAP Forms by Adobe (BTP Service)
- Will SAP offer an OnPremise option ?
- It is pay per use (also preview) click charge



SAP for Adobe Document Services, SmartForms/SAPScript will also be out of support.

- Business documents will be supported and maintained ONLY in the new BTP based service.

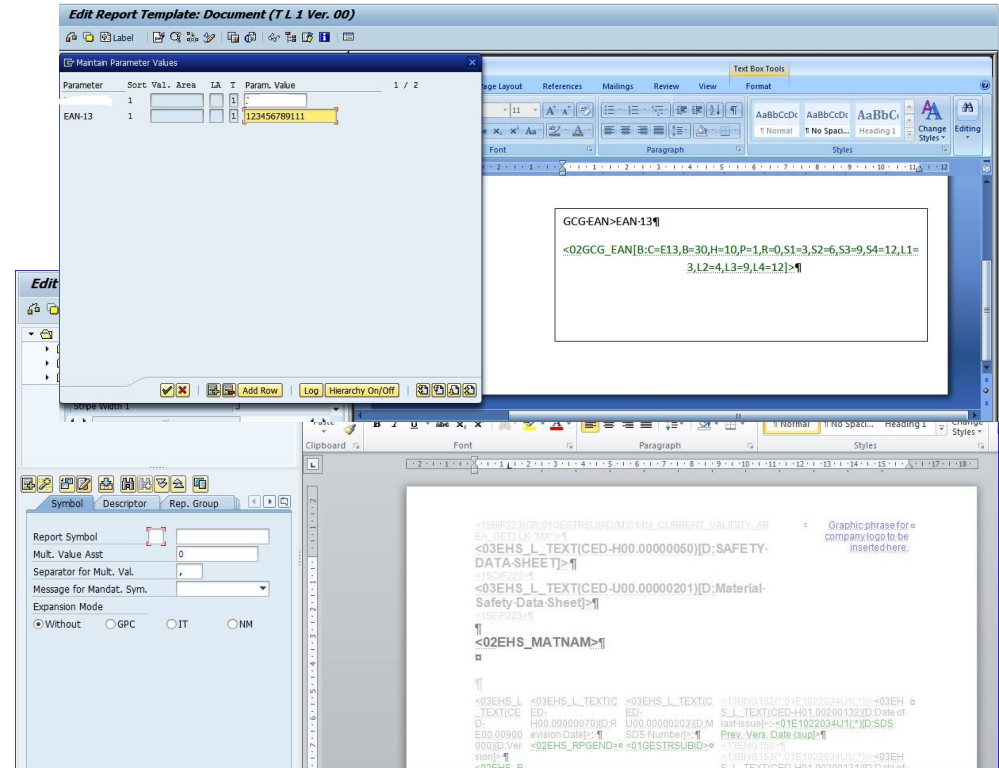
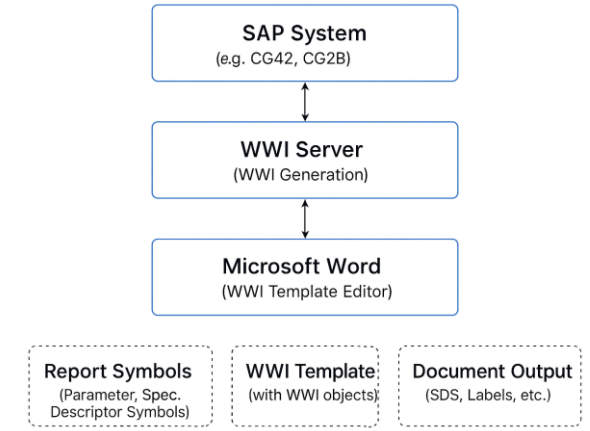


Why is this "a thing"?

Windows Word Integration (WWI) is often a part of label printing as a tool to create templates

SAP is sunsetting WWI and actively promoting **third party [cloud-based] solutions.**

(See SAP Note: 2557755 - EH&S WWI and EH&S Expert End of Maintenance, **how does that impact your CMO for label printing.**)



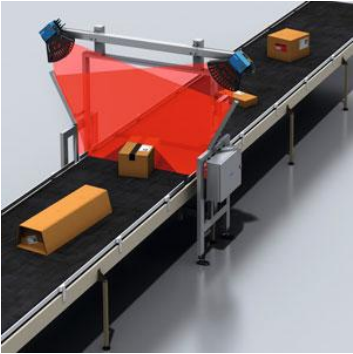
Why is this "a thing"?

SAP are working with Loftware to create a new Cloud based Global Label Management solution (GLM).

This will replace the current SAP Windows Word Integration GLM solution.



Assured delivery



Perfect Integration with Production Line software, all available papers for a given package are requested from VPSX at the scan point, consolidated into a single print job and printed.



SAPUSR01



Perfect Integration with Commissioning, Pull by Voice etc. Back End Print is collected at ANY available device by the RIGHT person. With PjL even an interrupted print can be resumed with label exact restart at the next available device.



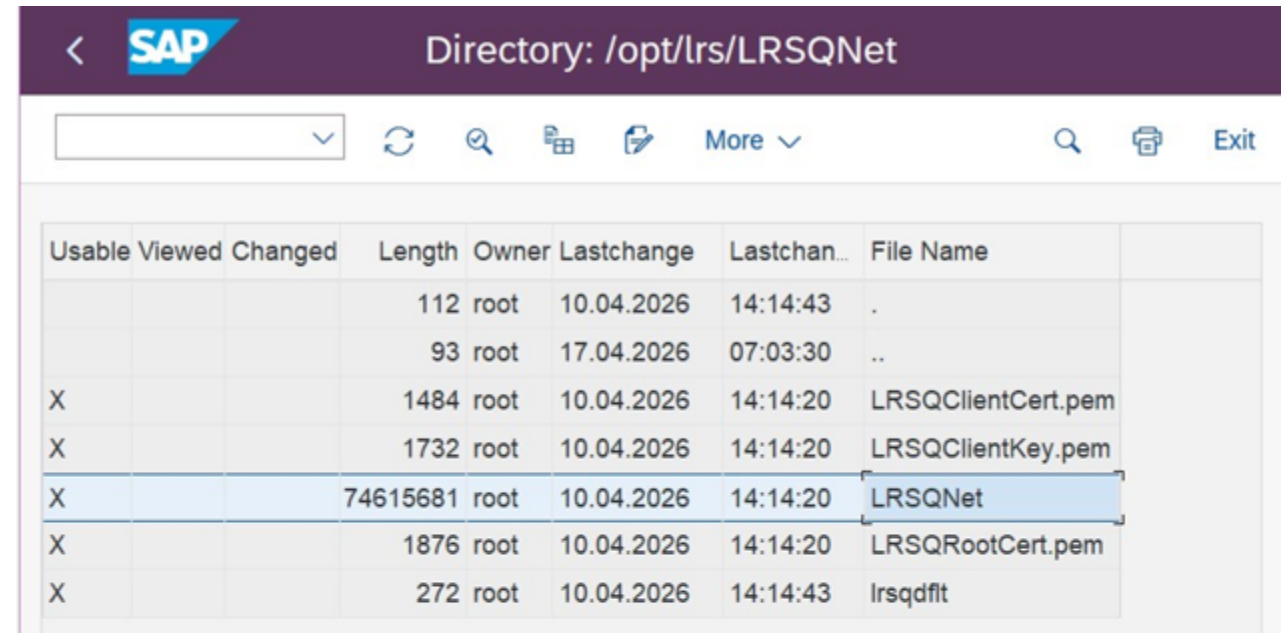
SAP® BC-XOM Interface with mTLS

• LRSQNet built in functionality

- Encryption (SSL/TLS 1.3)
- Redundancy (ALT)
- mTLS (TLS client authentication as specified in RFC 8446, using X.509 certificates profiled by RFC 5280)
- 64bit Linux and Windows .NET self contained with LTS .NET libraries built in
- Not as fast as LRSQ native (IPPS + mTLS Handshake)

Whitelisted by SAP for installation on SAP S/4HANA Cloud, Private Edition

- Works with RISE with SAP
- SAP will install this for you on Cloud, Private Edition
- You must supply and maintain key and cert files (own private CA)
- **Only use if regulatory requirement exists**

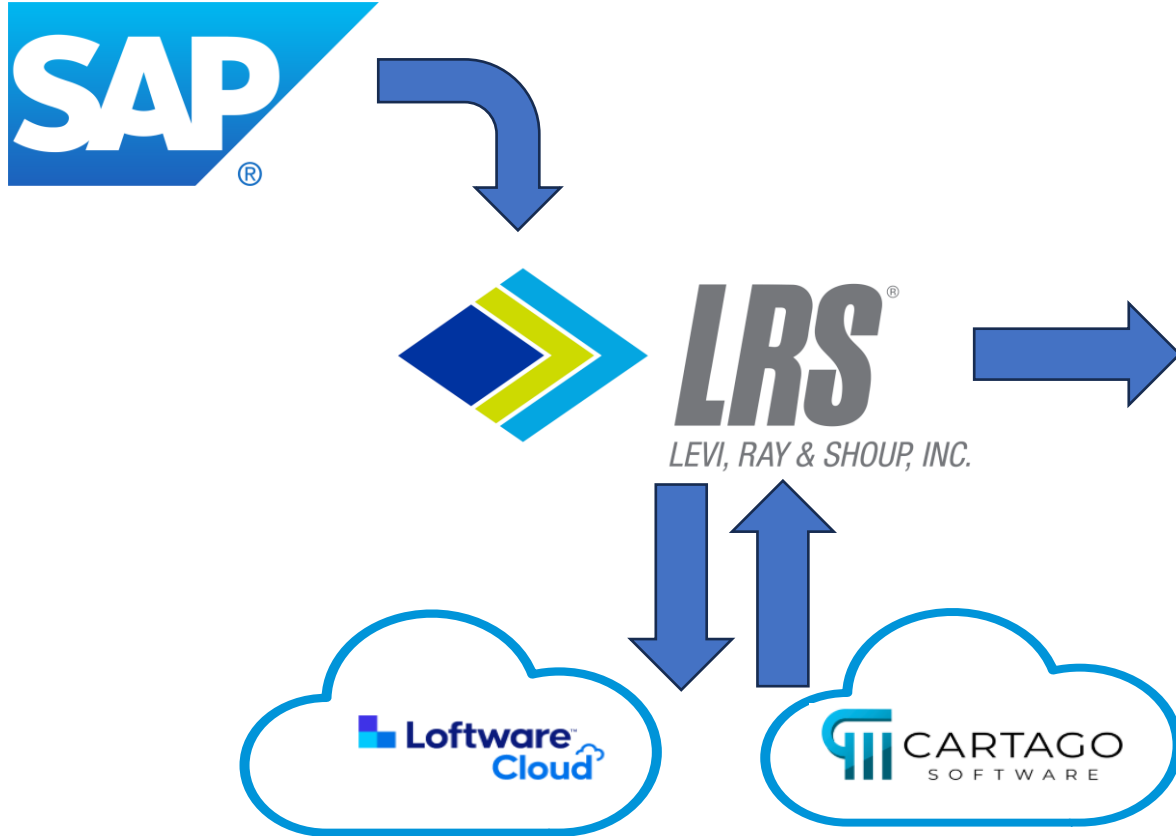


Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchan...	File Name
			112	root	10.04.2026	14:14:43	.
			93	root	17.04.2026	07:03:30	..
X			1484	root	10.04.2026	14:14:20	LRSQClientCert.pem
X			1732	root	10.04.2026	14:14:20	LRSQClientKey.pem
X			74615681	root	10.04.2026	14:14:20	LRSQNet
X			1876	root	10.04.2026	14:14:20	LRSQRootCert.pem
X			272	root	10.04.2026	14:14:43	lrsqdfit



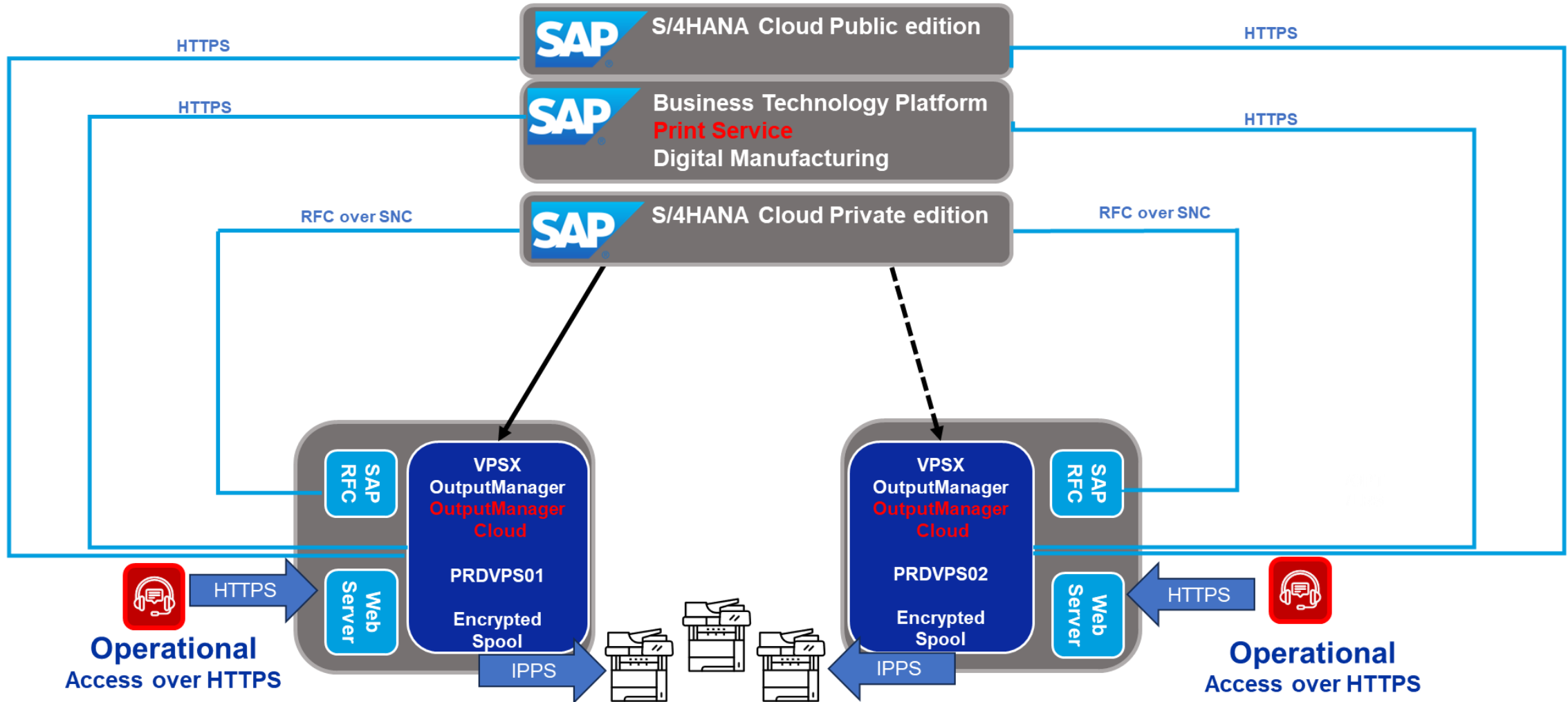
We implemented Zero Trust principles at the transport layer using mTLS, with authentication bound to client and server identities and authorization scoped by customer-managed certificate authorities.

Is there another way? Oh, Yes!

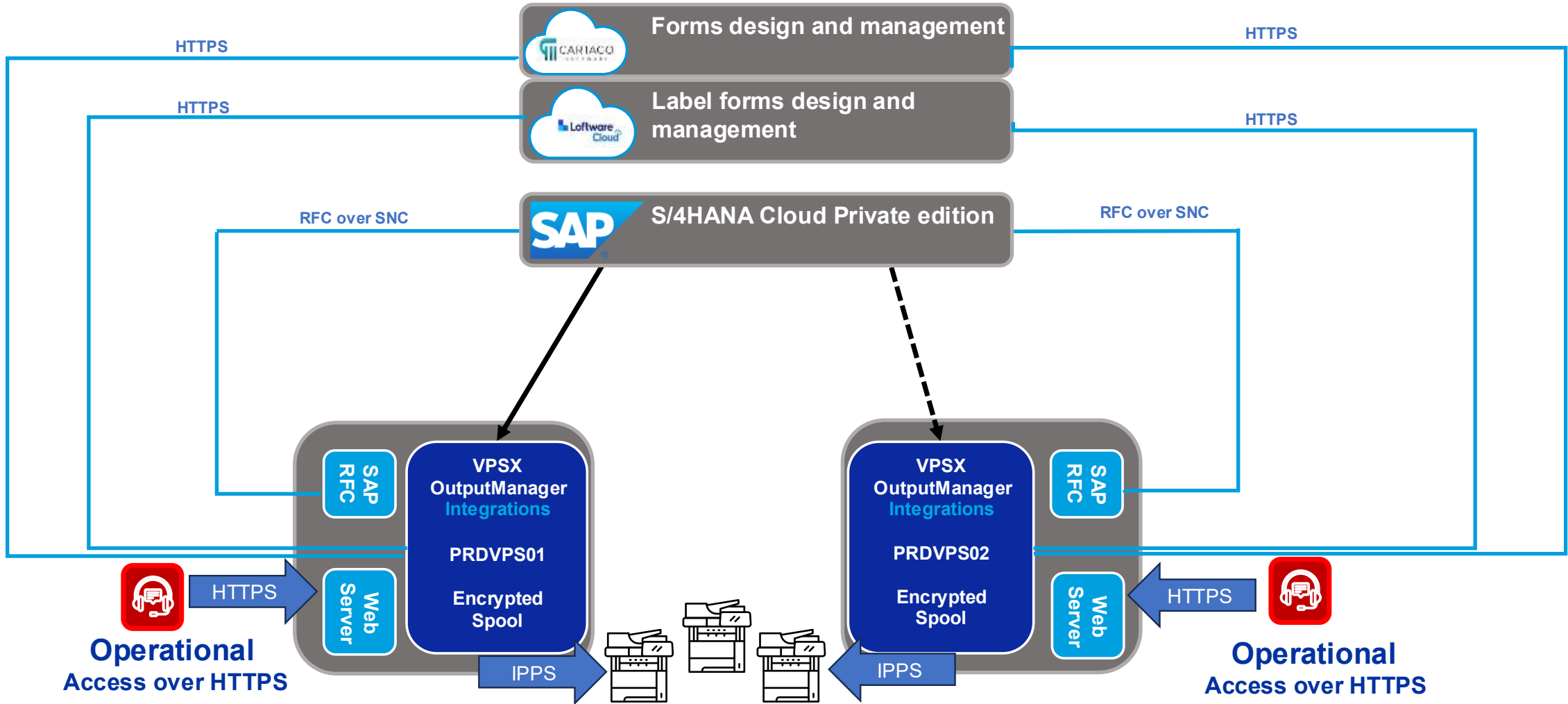


Presentment (Composition) Systems

SAP S/4HANA Private and Public Cloud, SAP Print Service



Integrate Presentment systems



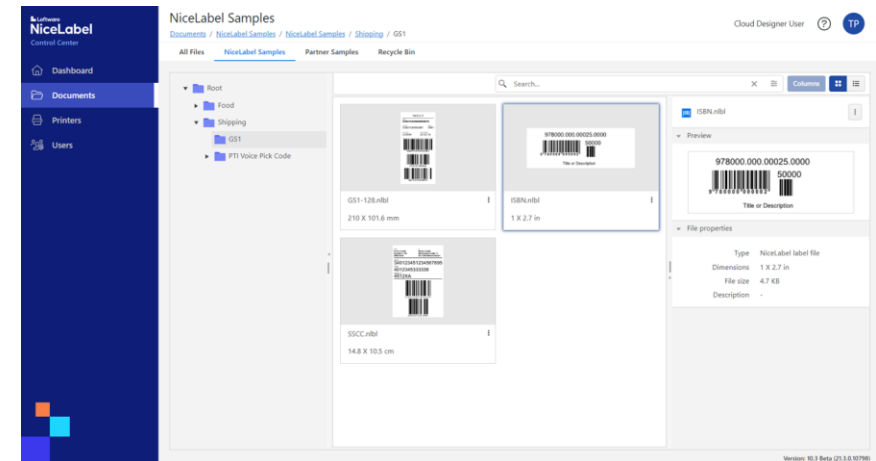
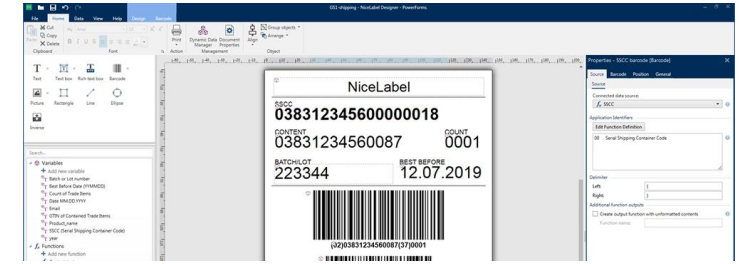


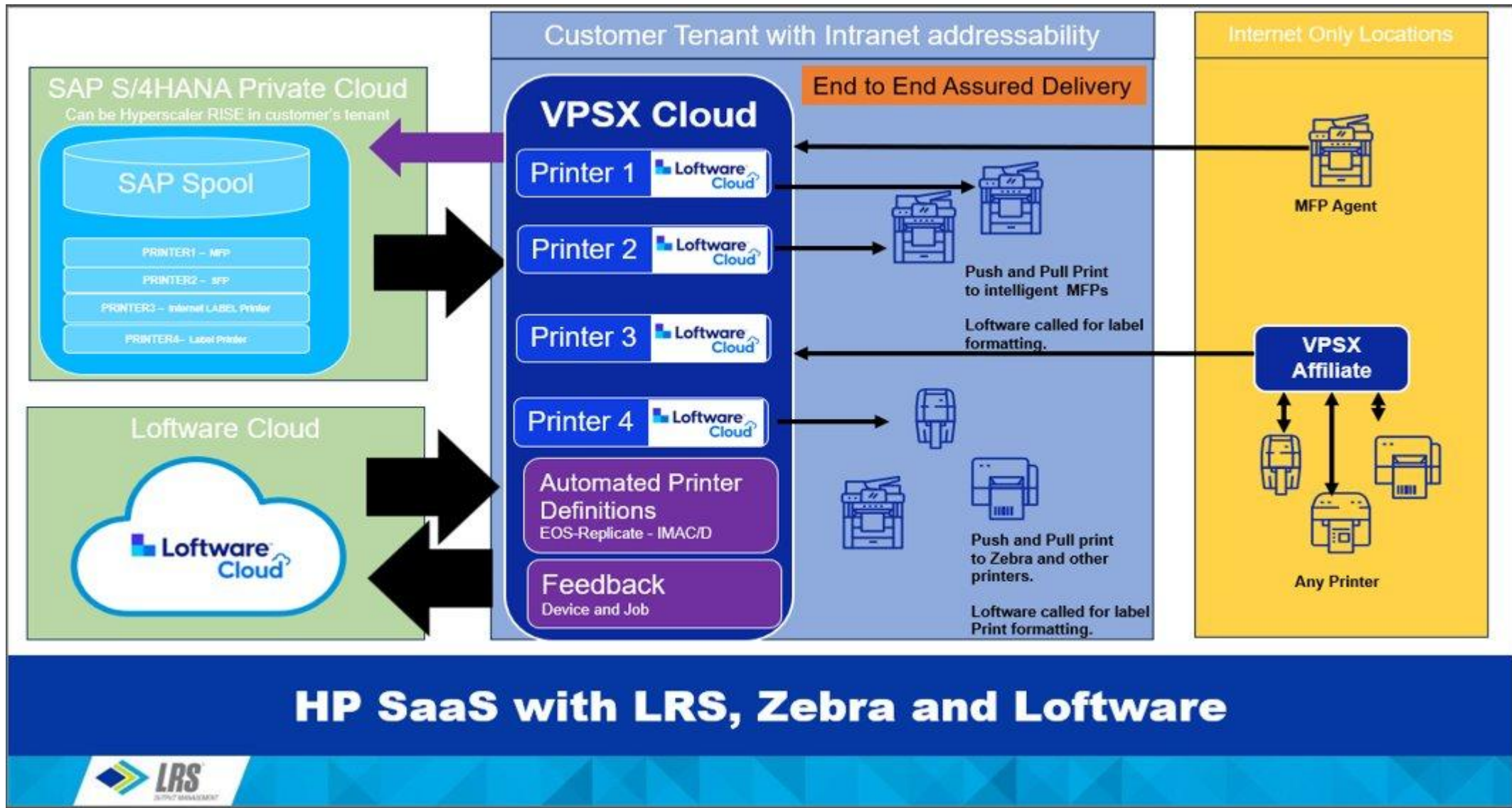
Loftware Cloud is a cloud-based labeling and artwork management platform that integrates seamlessly with **SAP S/4HANA Cloud** and **SAP Business Technology Platform (BTP)**.

It enables centralized control of label design, storage, and printing across global operations.

Loftware is, like LRS, the Software of choice for many Enterprise customers

Now LRS and Loftware Cloud can be integrated into an end-to-end, assured delivery workflow.







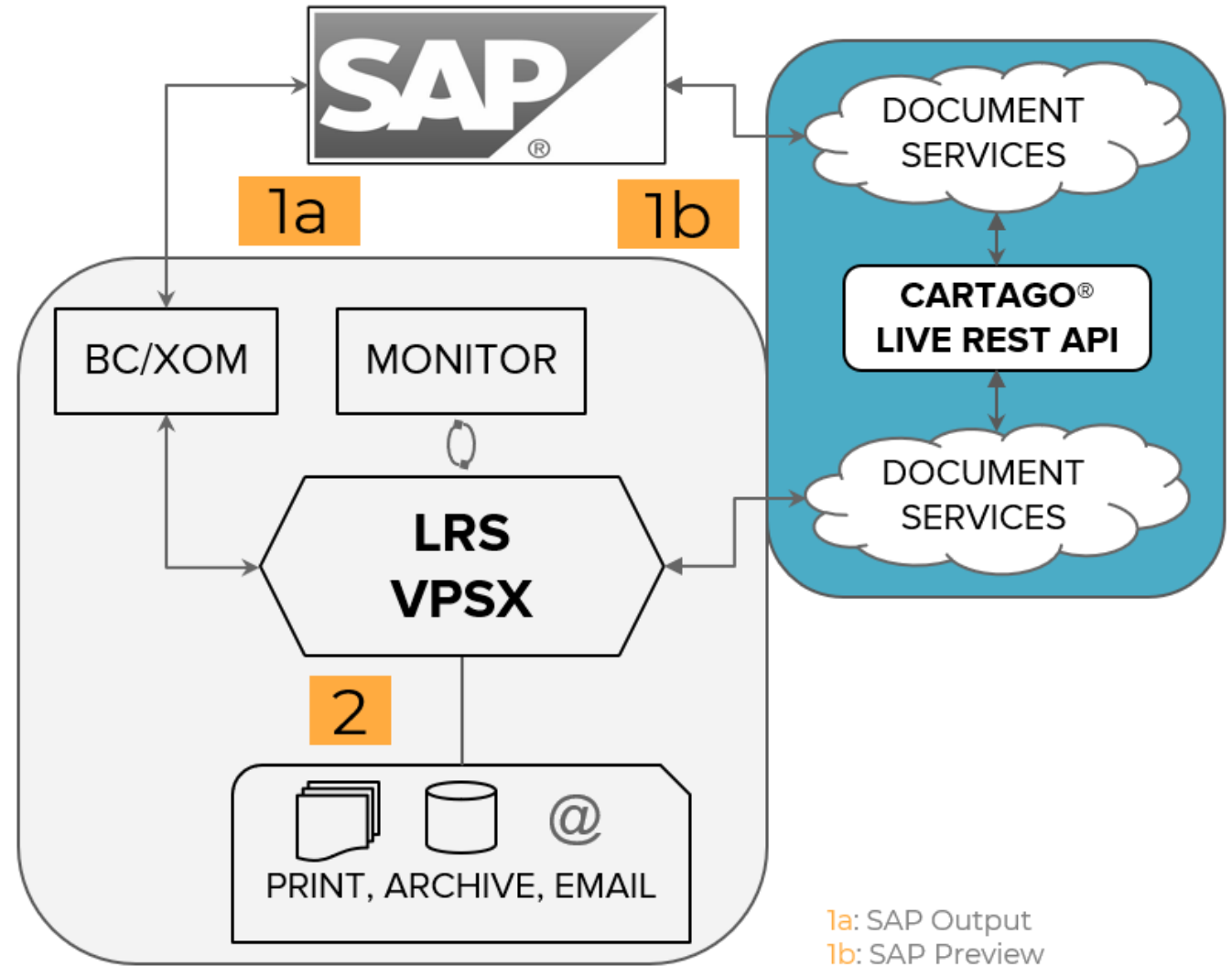
Cartago is ...

- Very modern, state of the art software
- Web Based editor
- Runs in the cloud, on site, or hybrid
- Container based
- Highly flexible API... RDI, SAPGOF, XML
- Synchronous Multi-Channel Output



SAP Connectivity

- SAP
- LRS / VPSX
 - Enterprise Output Management
 - Central Monitoring and Control
- Cartago
 - **Document Generation Services**
 - SAP Preview Services



1a: SAP Output
 1b: SAP Preview
 2: Document Delivery



AGENDA

Stories from the Field



Document Information Redaction



Healthcare Redaction

Medical Documents which require scanning may contain information which should be redacted in an archive copy

- no view of text in image
- no text-search result

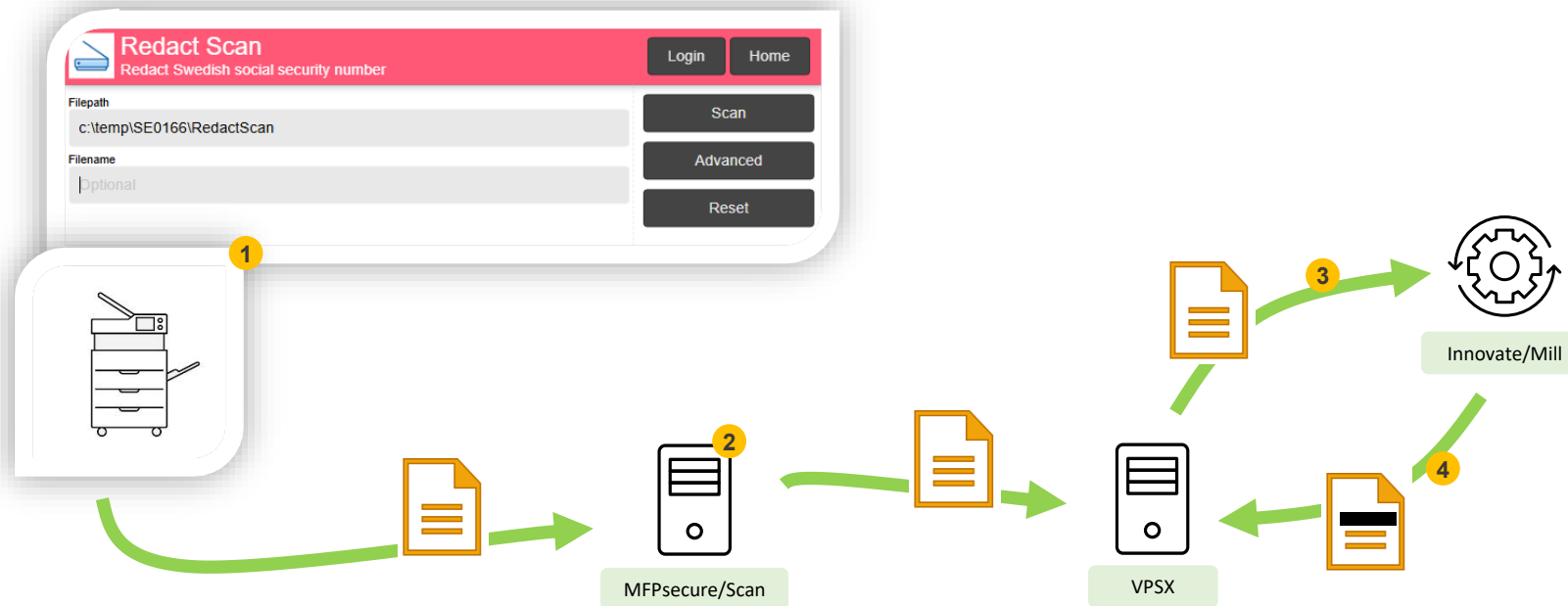
19 650420-3792

Närhälsan Bergfot vårdcentral 10000016701	JOURNALBLAD Utskrift: FBY HELGR13 N5455 Sida 1 av 1
VC vägen 1 52161 Stenstorp tel: 010-47 32 275 fax:010-123 45 67	19 650420-3792 Jönköping Testperson1 Testgatan 8c Lgh 1101 561 Jönköping T 0515-48018
* 2015-09-07 10:09 Lena Knutsson, Ssk Test 1 (signerad)	
ANTECKNING	
Kontakttyp	Mottagningsbesök planerat
Kontaktorsak	Hosta
ANAMNES	
Socialt	
Sysselsättning - Patientbakgrund	Yrkesverksam heltid
Vapenlicens - Patientbakgrund	Nej
Körkort - Patientbakgrund	Ja
Hälsa- och sjukdomshistoria	Hälsa och sjukdomshistorieuppgifter skrivs här
Aktuellt	Aktuella uppgifter om patienten.
Alkoholvanor	Tar ett glas varje helg
Registrering av KVÄ	XV016 Läkemedelsgenomgång, fördjudad (i)
----- VARNING -----	
-BLODSMITTA- 2016-07-01 Ja	
-ÖVERKÄNSLIGHET- 2016-07-01 Tvättmedel	
----- slut utskrift -----	
Journalkopia uttagen 2025-02-25 kl 13:54	Uttagen av HELGR1



Workflow solution

Solution involves multiple LRS products in a workflow to deliver required result



1 Scan document and deliver to Secure Scan

2 Output "Application" to transfer to VPSX via IPPS (COM API)

3 Examine all TEXT objects from PDF search strings
Compare TEXT strings to redaction target(s)
For matches,

- capture x,y position
- place black marks at x,y for string length * estimated character width
- remove text object from PDF

4 Back to VPSX for its final destination:

- Folder
- Onward VPSX queue
- Printer (redacted copy)

MFPsecure/Scan

Scan image with OCR to PDF

PDF will contain:

- original scan image
- searchable 'hidden' text strings

JOURNALBLAD
Journalkopia uttagen Uttagen av
Utskr.id: FBY HELGR13 N5455
2025-02-25 kl 13:54 HELGR1
Närhälsan Bergfot vårdcentral
VC vägen 1
52161 Stenstorp
tel: 010-47 32 275 fax:010-123 45 67
VARNING!
Se i slutet av utskriften.
19 650420-3792
Jönköping Testperson1
Testgatan 8c Lgh 1101
Tel: 0515-48018
567 56 Jönköping
Sida 1 av 1
KOPIA
10000016T01
* 2015-09-07 10:09 Lena Knutsson, Ssk VC Test 1 (signerad)
ANTECKNING
Kontakttyp Mottagningsbesök planerat
Kontaktorsak Hosta
ANAMNES
Socialt
Sysselsättning - Yrkesverksam heltid
Patientbakgrund
Vapenlicens - Nej
Patientbakgrund
Körkort - Ja
Patientbakgrund
Hälso- och Hälso och sjukdomshistorieuppgifter skrivs här
sjukdomshistoria
Aktuellt Aktuella uppgifter om patienten.
Alkoholvanor Tar ett glas varje helg
Registrering av KVÅ XV016 Läkemedelsgenomgång, fördjupad (i)
----- VARNING -----
-BLODSMITTA-
2016-07-01 Ja
-ÖVERKÄNSLIGHET-
2016-07-01 Tvättmedel
----- slut utskrift -----

Närhälsan Bergfot vårdcentral 1000016T01	JOURNALBLAD Utskr.id: FBY HELGR13 N5455 Sida 1 av 1
VC vägen 1 52161 Stenstorp tel: 010-47 32 275 fax:010-123 45 67	19 650420-3792 Jönköping Testperson1 Testgatan 8c Lgh 1101 567 56 Jönköping Tel: 0515-48018
VARNING! Se i slutet av utskriften.	
* 2015-09-07 10:09 Lena Knutsson, Ssk VC Test 1 (signerad)	
ANTECKNING	
Kontakttyp	Mottagningsbesök planerat
Kontaktorsak	Hosta
ANAMNES	
Socialt	
Sysselsättning - Yrkesverksam heltid	
Patientbakgrund	
Vapenlicens - Nej	
Patientbakgrund	
Körkort - Ja	
Patientbakgrund	
Hälso- och sjukdomshistoria	Hälso och sjukdomshistorieuppgifter skrivs här
Aktuellt	Aktuella uppgifter om patienten.
Alkoholvanor	Tar ett glas varje helg
Registrering av KVÅ	XV016 Läkemedelsgenomgång, fördjupad (i)
----- VARNING -----	
-BLODSMITTA- 2016-07-01 Ja	
-ÖVERKÄNSLIGHET- 2016-07-01 Tvättmedel	
----- slut utskrift -----	
Journalkopia uttagen 2025-02-25 kl 13:54	Uttagen av HELGR1



Transfer to VPSX

- Output is File to temporary folder
- Run Application on the File
- **VPSX_PrintJobFromScan.exe**
 - v "https://<vpsx_server>:631"
 - p "ipp://<vpsx_server>:5443/<queue>"
 - f <Filepath>\\<Filename>.pdf

Profile
SE0166 Redacted Scan Workflow

Details Input Processing **Output** Options Scan Settings

Output

File

Output CSV XML Applications

Path <Filepath>

Create Folder

Create OCR text file

Append to existing file

File Name <Filename>

C:\Program Files\LRS\MPsecure\securescan\DefaultC

Service account

Cancel Ok

Hidden

Name Filepath

Description temporary file storage for submission to VPSX

Default Value C:_tmp\mpsecure_scans

Evaluate at input stage

Cancel Ok

File

Output CSV XML Applications

Run Application

Run for each document

Applications

+ Add

EXE c:\LRSROOT\vpsxroot\filters\VPSX_PrintJobFromScan\VI

Applications

Executable c:\LRSROOT\vpsxroot\filters\VPSX_PrintJobFromScan\VI

Commandline Parameter -v "https://eomthunberg02.lrsinc.org:631" -p "IPP://eomthunberg02.lrsinc.org:5443/se0166-scan-processing" -f <Filepath>\\<Filename>.pdf -u TRUE -

64 bit

Wait until application exits

Returns pre-defined JSON format

format

Timeout (sec) 180

Cancel Add

Image Processing

Cleanup Enhancement **Rotation** Optional Settings

Flip Rotation

Rotation

Adjusts the orientation of the image by turning it to a specified angle. Users can rotate the image both clockwise or counterclockwise to achieve the desired position. Ideal for correcting tilted captures, aligning images to a standard orientation, or customizing the image layout for specific presentation needs.

Enable Rotation

Auto Rotate

Work Depth 5

Reset to default

Cancel Ok

Innovate/Mill

For each PAGE

- Capture all objects from the page
- For each TEXT object
 - Match each text string against target REGEX(s)
 - If matched,
 - get text (X,Y) co-ordinates
 - get font size (H)
 - get text character count and font spacing (W)
 - create a black Rect object (H x W)
 - place Rect at (X,Y) to redact visible text
 - remove text object from page to prevent text search

```
Page[1] item[37] position(14.05,63.25) text string:'2015-09-07'  
Page[1] item[37] string '2015-09-07' matched with regex[1] '^\\s*([0-9]{4}-[0-9]{2}-[0-9]{2})\\s*$' match items [37]  
item [37] details: x(14.05) y(63.25) fn(cdnictureBackupFont) sz(10.632pt) w(0) spc(1)  
removed searchable text item[37] string '2015-09-07'  
redactionBox: text font metrics: fn(cdnictureBackupFont) s(10.632pt) sp(1) sw(0) av_cw(2)  
redactionBox: adding redaction box x(14.05,63.25) w(20) h(3.2) offy(60.05)  
redacted image area item [37] string '2015-09-07'
```

The screenshot shows a medical journal page with several redaction boxes. A code block is overlaid on the page, with arrows pointing from it to the redacted areas. The code block contains the following text:

```
// --- REGULAR EXPRESSIONS ---  
// - regular expressions to match text for redaction  
regex_redaction_text_list = new Array(  
  "\\s*([0-9]{2})\\s*([0-9]{6}-[0-9]{4})\\s*$", // social security number  
  "\\s*([0-9]{4}-[0-9]{2}-[0-9]{2})\\s*$", // YYYY-MM-DD dates  
  "regex-for-some-redactable-text"  
);
```

The page content includes:

- Header: Närhilsan Bergföt vårdcentral, 10000016T01, JOURNALBLAD, Utskr.id: FBY HELGR13 N5455 Sida 1 av 1, KOPIA
- Address: VC vägen 1, 52161 Stenstorp, tel: 010-47 32 275 fax:010-123 45 67
- Warning: VARNING! Se i slutet av utskriften.
- Signature: * [redacted] 10:09 Lena Knutsson, Ssk VC Test 1 (signerad)
- Section: ANTECIPNING
- Text: Kontakt /p Mottagningsbesök planerat
- Text: Pat ent bak grund Verksam heltid
- Text: Vapenlösa - Nej
- Text: Pat ent, kg rund
- Text: Kö kort - Ja
- Text: Patientbak grund
- Text: Häls- och sjukomshistoria Häls och sjukdomshistorieuppgifter skrivs här
- Text: Aktuellt Aktuella uppgifter om patienten.
- Text: Alkoholvanor Tar ett glas varje helg
- Text: Registrering av K 7 Å XV016 Läkemedelsgenomgång, fördjupad (i)
- Text: VARNING
- Text: BLODDPROVA [redacted] Ja
- Text: ÖVRIGT LÄSRIKTT [redacted] Tvättmedel
- Text: slut utskrift
- Page Footer: Uttagen av HELGR1, [redacted] kl 13:54



VPSX Delivery

- Delivery by VPSX to final destination:
 - Redacted Archive PDF
 - Redacted COPY printed back to printer where it was scanned
 - Redacted COPY stored in PPQ for later release

The screenshot displays a printing management interface. On the left, a sidebar lists printer-related options: Printers, PersonalQs, PPQ1 (highlighted), Output Queue (1), Retained Queue (0), and Configure. The main area shows a job queue table with the following data:

Spool ID	Class	Copies	Creation Time	Data Type	Filename	Host
00000207		1	2025/06/05 12:56:38	PDF	2025-06-05-12-56_Secure_Scan.pdf	eomthunberg02.lrsinc

Additional interface elements include a search bar, Bulk Actions, Queue Command, Table Columns, Job upload, and Refresh buttons. A detailed view of the selected job shows: Name: 2025-06-05-12-56_Secure_Scan.pdf, Date modified: 2025-06-05 14:56, and Type: Adobe Acrobat D...

Solution is...

• Generic

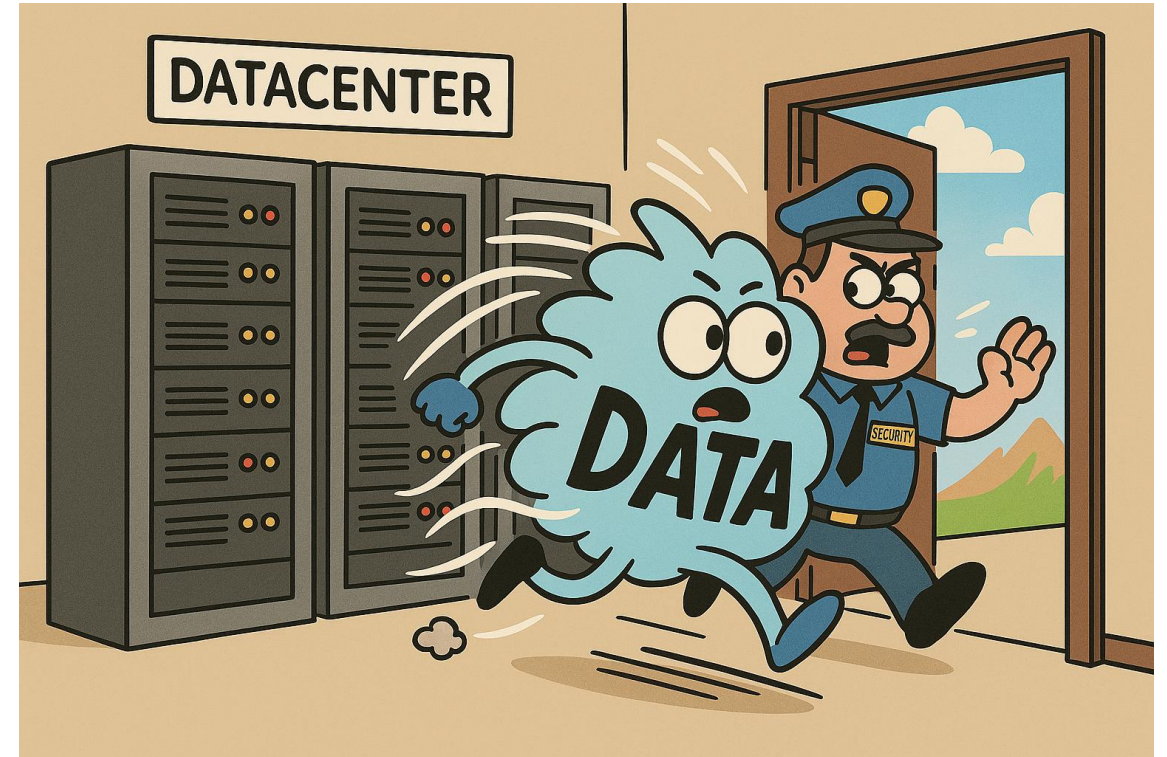
- Works with all MFPsecure/Scan devices
- Works with VPSX or HPA
- Works with mobile VPSX Print App / Scan
- Works for print output as well - AFPDS, PCL, PS, PDF, ...
- Simple to change
 - add the REGEX to match the required redacted text
 - update scaling factors to suit font size for redaction Rect (if necessary)
 - update Y variance for deskew (if necessary)

• Multi-purpose

- Archive redacted print and/or scan
- Print a redacted paper copy

```
// --- REGULAR EXPRESSIONS -----  
// - regular expressions to match text for redaction  
// - this needs to return a capture group so include ( ) in your regex to  
regex_redaction_text_list = new Array(  
  
    // text  
    "(Project Ignite)",  
  
    // SE social security number  
    "\\s*([0-9]{2}\\s*[0-9]{6}-[0-9]{4})\\s*",  
  
    // dates YYYY-MM-DD  
    "\\s*([0-9]{4}-[0-9]{2}-[0-9]{2})\\s*",  
  
    // email addresses  
    "\\s*([a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\\.[a-zA-Z]{2,})\\s*",  
  
    // LRS email addresses  
    "\\s*([a-zA-Z0-9._%+-]+@LRS\\.\\.[a-zA-Z]{2,})\\s*",  
  
    // some regex  
    "regex-for-some-redactable-text"  
);  
  
// --- REDACTION BOX SIZING FACTORS  
// - we don't know character font width/height so have scaling factors to  
// - estimate redaction box width as = number of chars * font_size * char_  
// - estimate redaction box height as = font_size * char_height_factor  
  
char_width_factor = 0.5;  
char_height_factor = 0.8;  
  
// --- MERGING SPLIT TEXT ELEMENTS ON THE SAME LINE  
  
// --- LINE VARIANCE  
// - if the scan is not 100% desked/horizontal, we may get a variation of  
// - when comparing items to determine Y-coord for same line, add a +/- ma  
  
line_ycoord_variance = 0.5;  
  
// --- MAX MERGE ITEMS  
// - the maximum number of items to merge in same line  
  
max_merge_items = 1;
```

Data loss protection

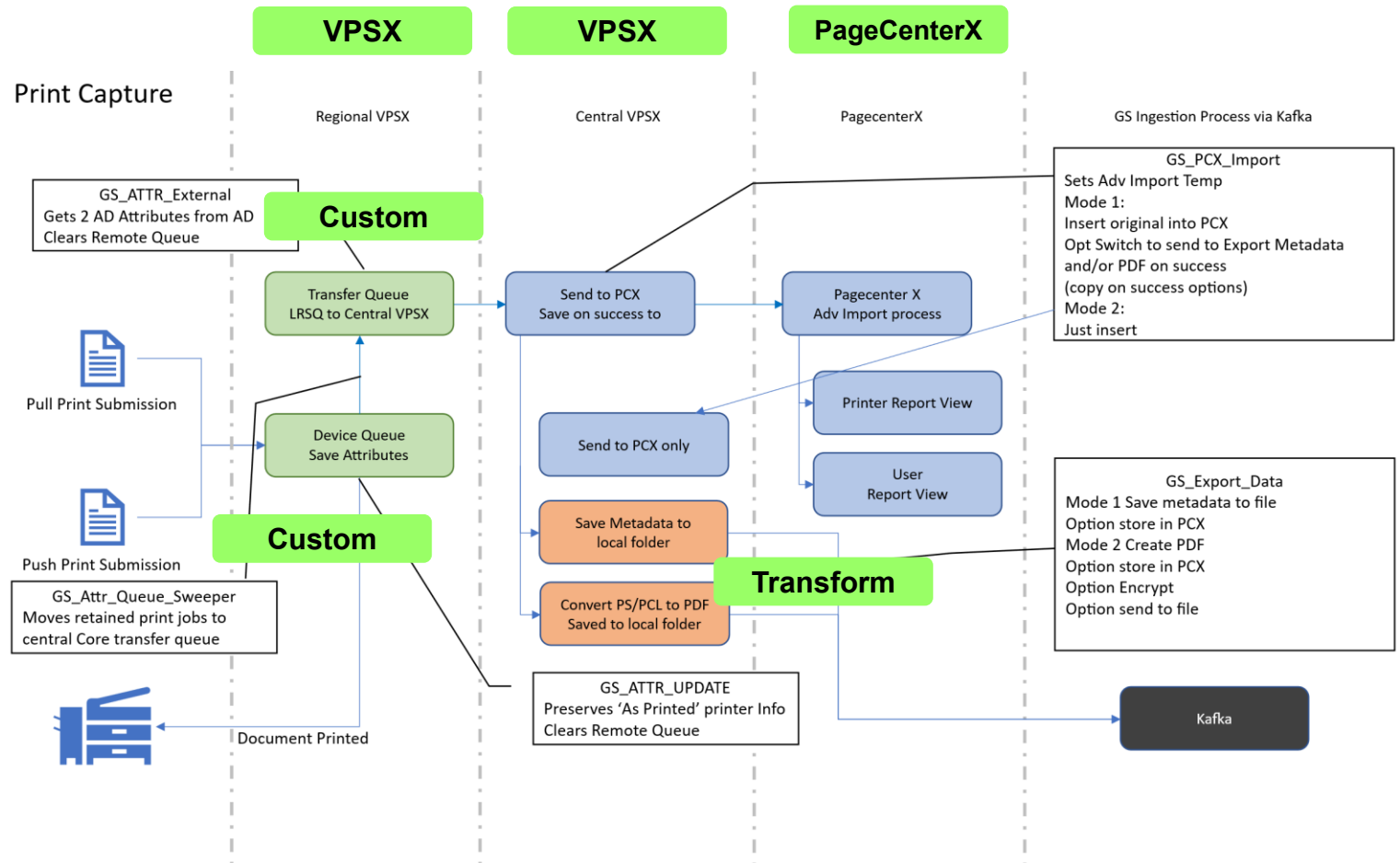


Data loss protection

Global Bank

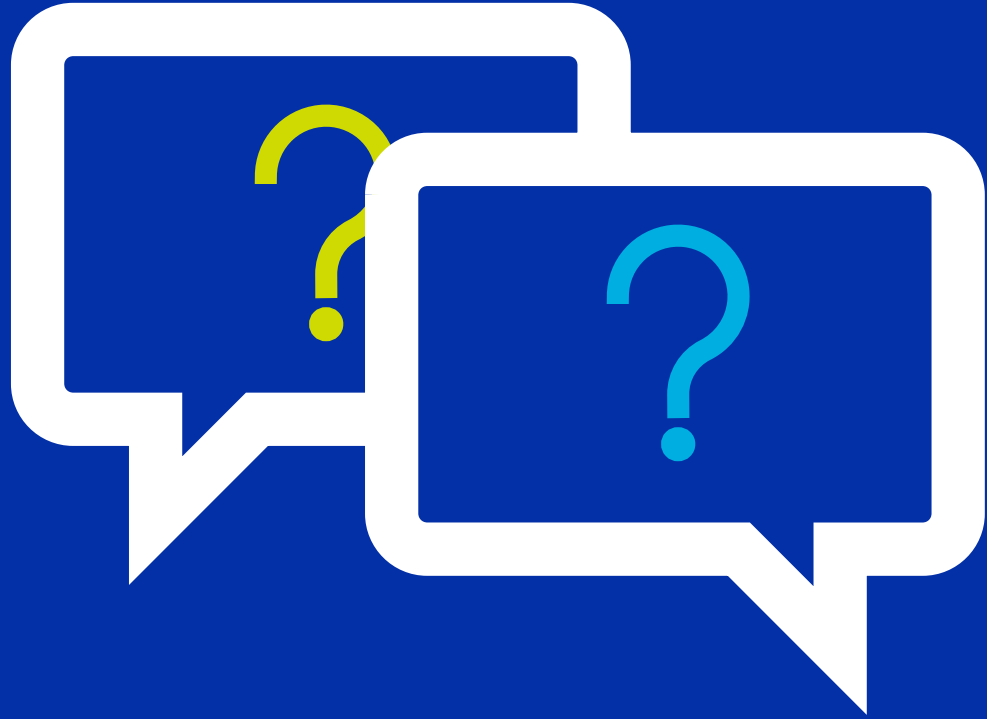
Data Loss Protection program:

- Take a copy of every print job to regional and then central VPSX
- On successful print:
 - Transform to encrypted PDF with unique key per file
 - create original user/printer/date/time meta-data file
 - store to PageCenterX
 - compliance view
 - eg print analysis for leaving employees
 - content display
 - report trends
 - copy to Kafka Data Lake storage
 - content analysis
 - AI training



Healthcare Patient Visit





Questions?





LRS[®]

OUTPUT MANAGEMENT

Thank You

