

# LRS Benelux User Group



# Agenda

08:30 - 09:00	Welcome coffee	
09:00 - 09:05	Introductions	
09:05 - 10:05	Industry trends and LRS Product Update Different working models including <ul style="list-style-type: none"> <li>• Hybrid Architecture</li> <li>• Security &amp; Zero Trust</li> </ul>	Guy Tucker & Mark Ladd
10:05 - 10:35	Future Product Roadmap	Guy Tucker & Mark Ladd
10:35 - 10:50	Coffee Break	
10:50 - 11:10	LRS Support Portal and Knowledgebase	Demonstration
11:10 - 11:45	State of the art Scan – including <ul style="list-style-type: none"> <li>• New UI and Licensing</li> <li>• Beyond the MFP</li> <li>• Mobile to Scan</li> <li>• LRS services supporting scan Implementations</li> </ul>	Guy Tucker
11:45 - 12:15	LRS and SAP in the New world	Chris Taylor
12:15 - 12:30	Q&A	
12:30 - 13:30	Lunch	

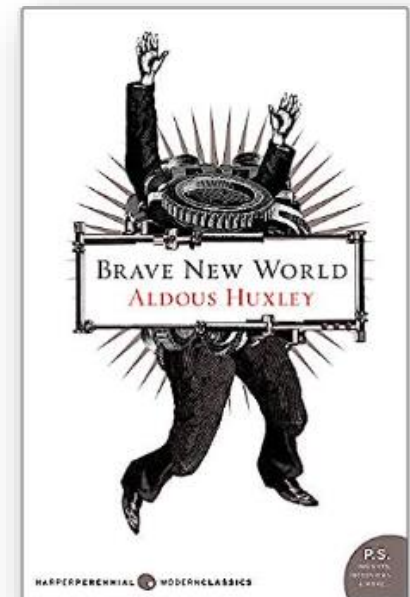
# Introductions

# **Industry Trends and LRS Product Update**

Guy Tucker & Mark Ladd

## Wait – Is it really a new world?

- No. This is the same world we had last year. But . . .
- Yes.
  - As we have matured in this world that we created, we have gained
    - Experience
    - Wisdom
    - Knowledge

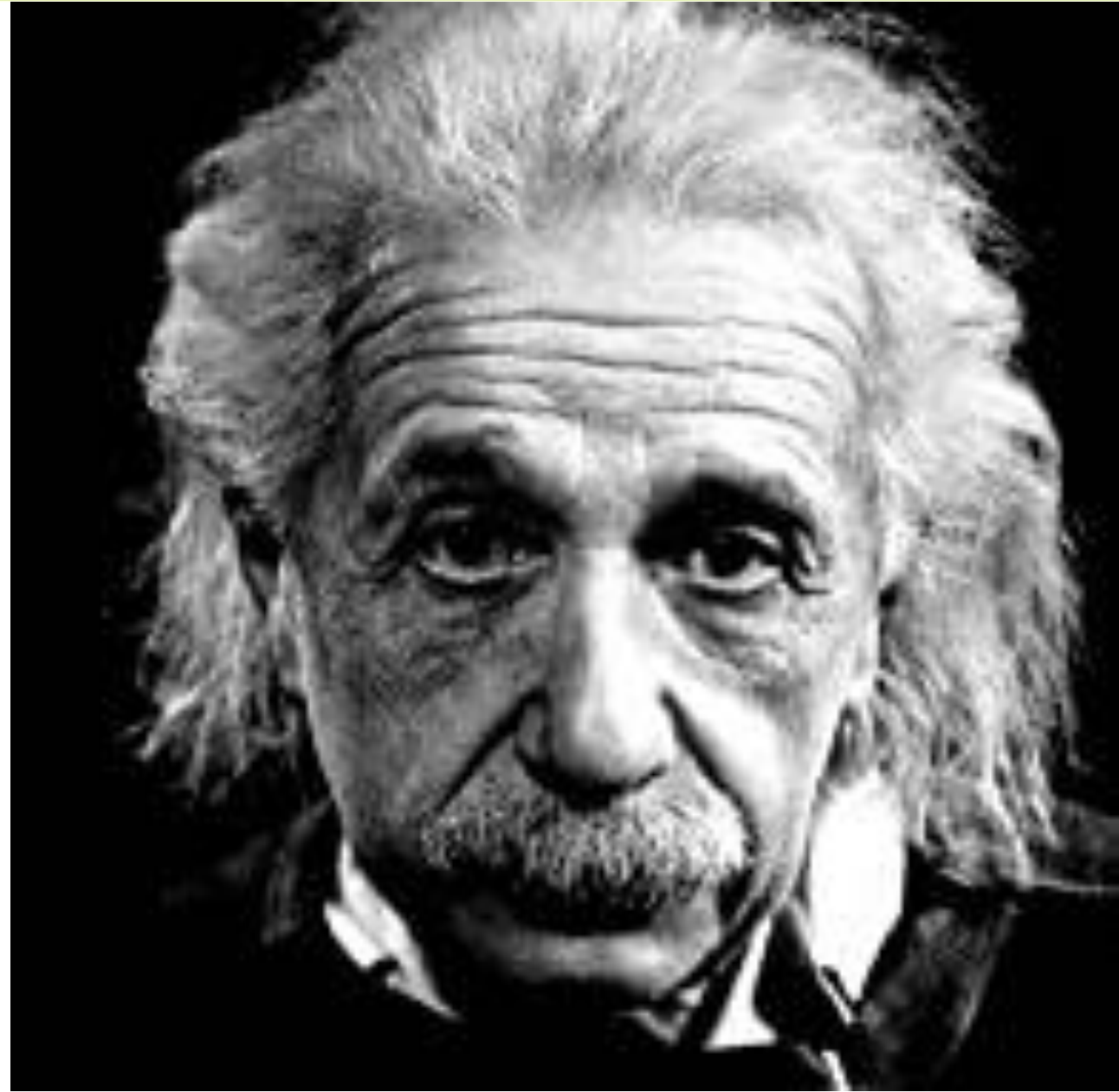


# Architecture

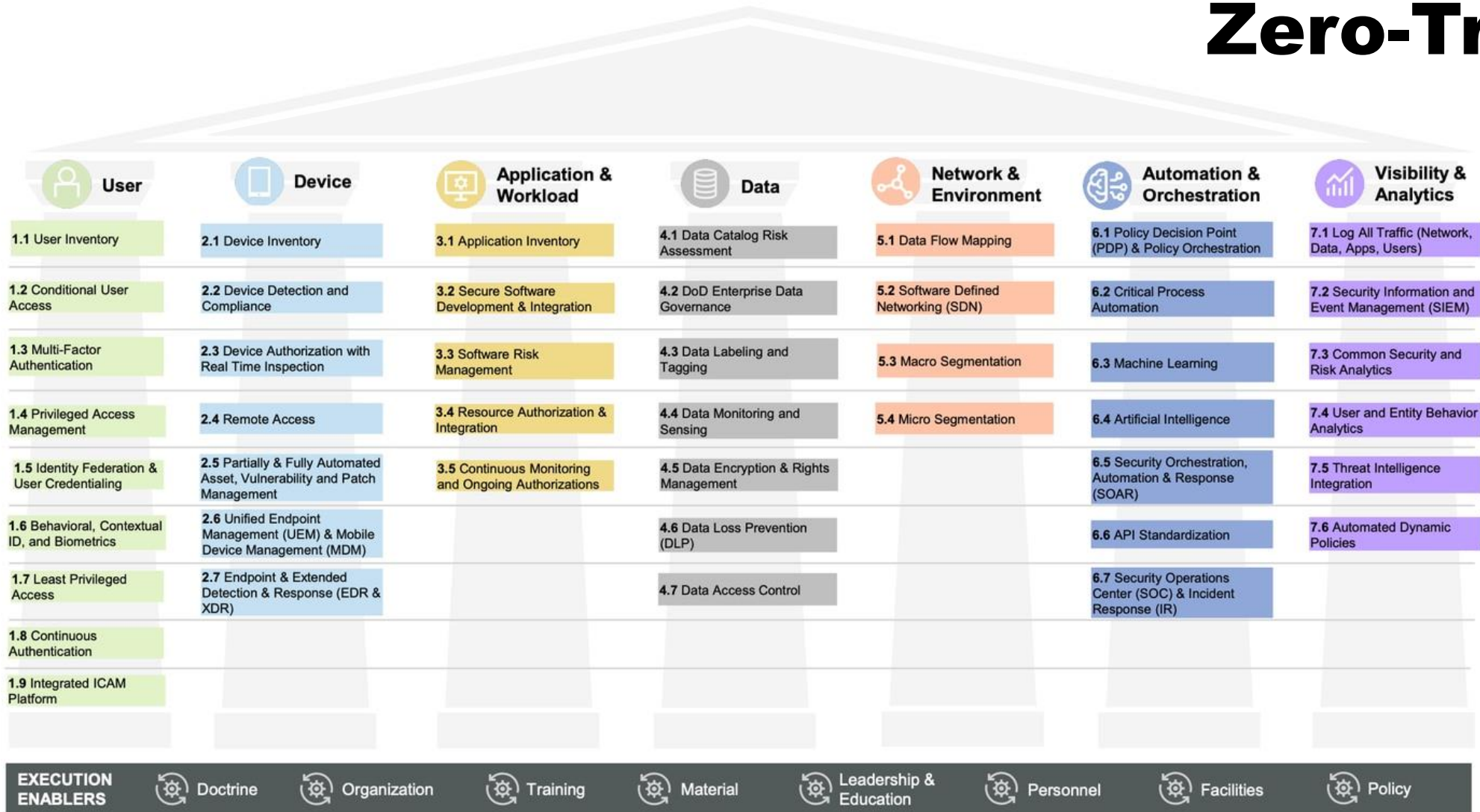
- Layered architectures began in 1974 with SNA followed a few years later with the OSI model
- TCP/IP began to be thought of in layers
- Over time, we built expertise and staff around layers rather than specific platforms and products

Schicht	ISO	SNA
7	Application	End User
6	Presentation	Presentation & Network Services
5	Session	Data Flow Control
4	Transport	Transmission Contr. Network Control
3	Network	Path Control
2	Data Link	SDLC
1	Physical	Lines

**As our circle of knowledge expands, so does the circumference of the darkness surrounding it.**

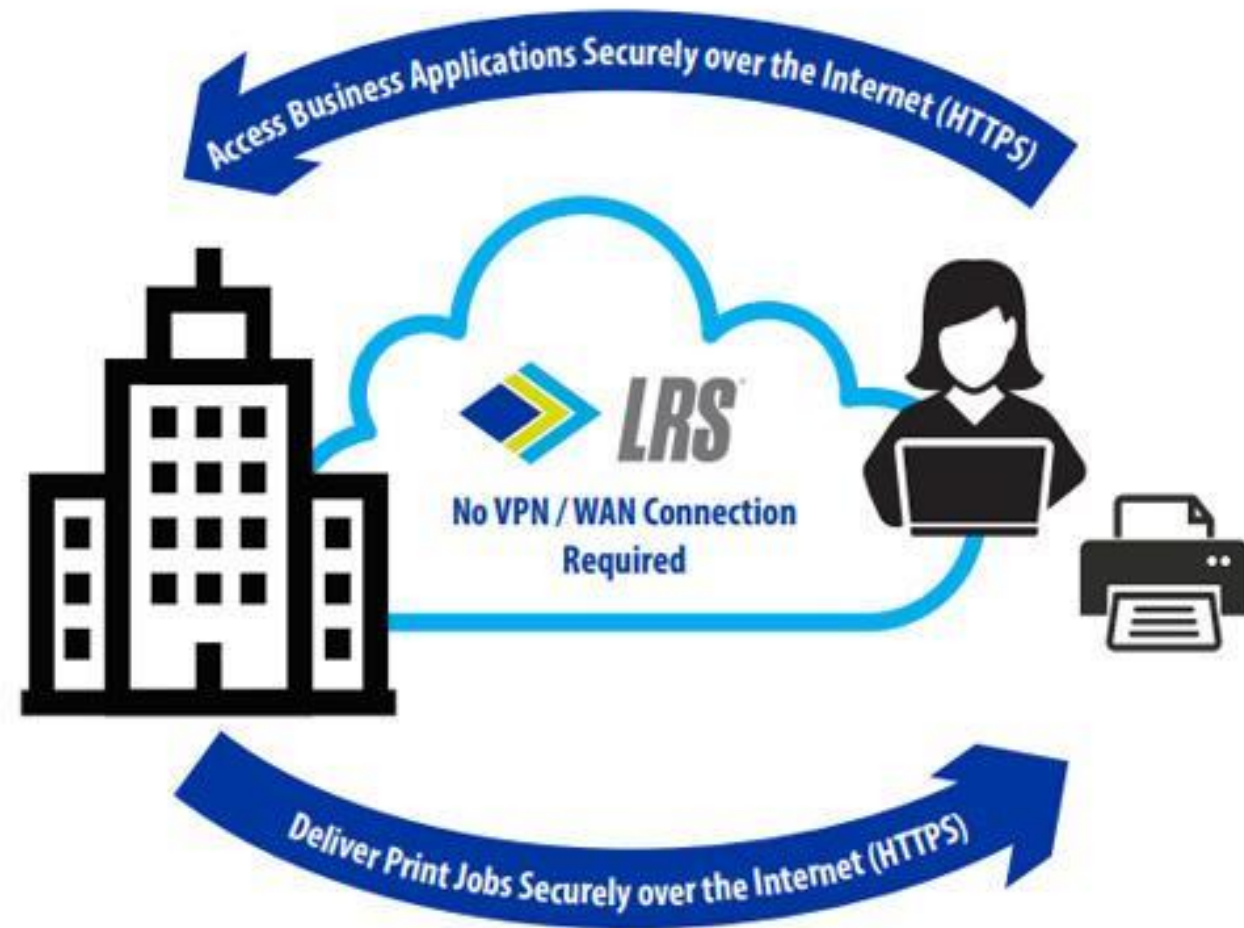


# Zero-Trust





# Pushing Print on the Open Internet

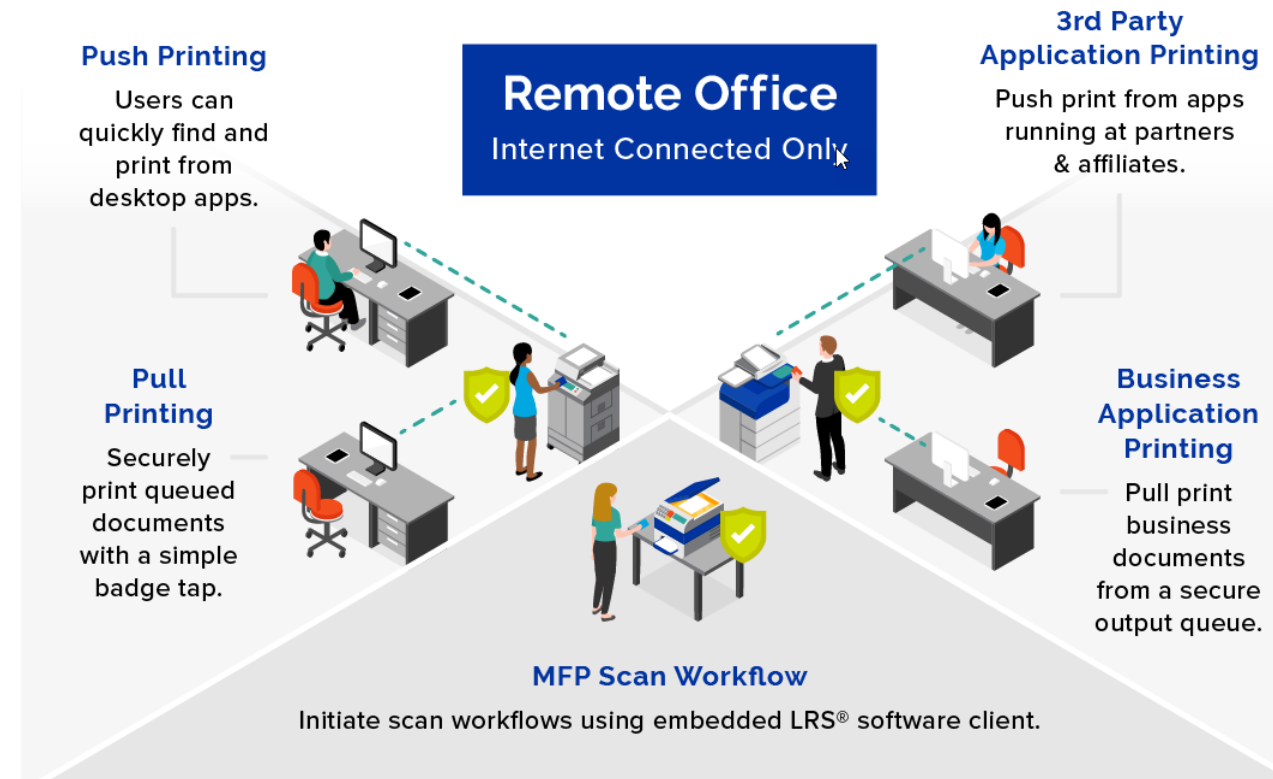


Affiliate Print allows for pushing jobs with only an open internet connection

- Contracted entities
  - Distribution centers
  - Manufacturing facilities
  - Associated clinics

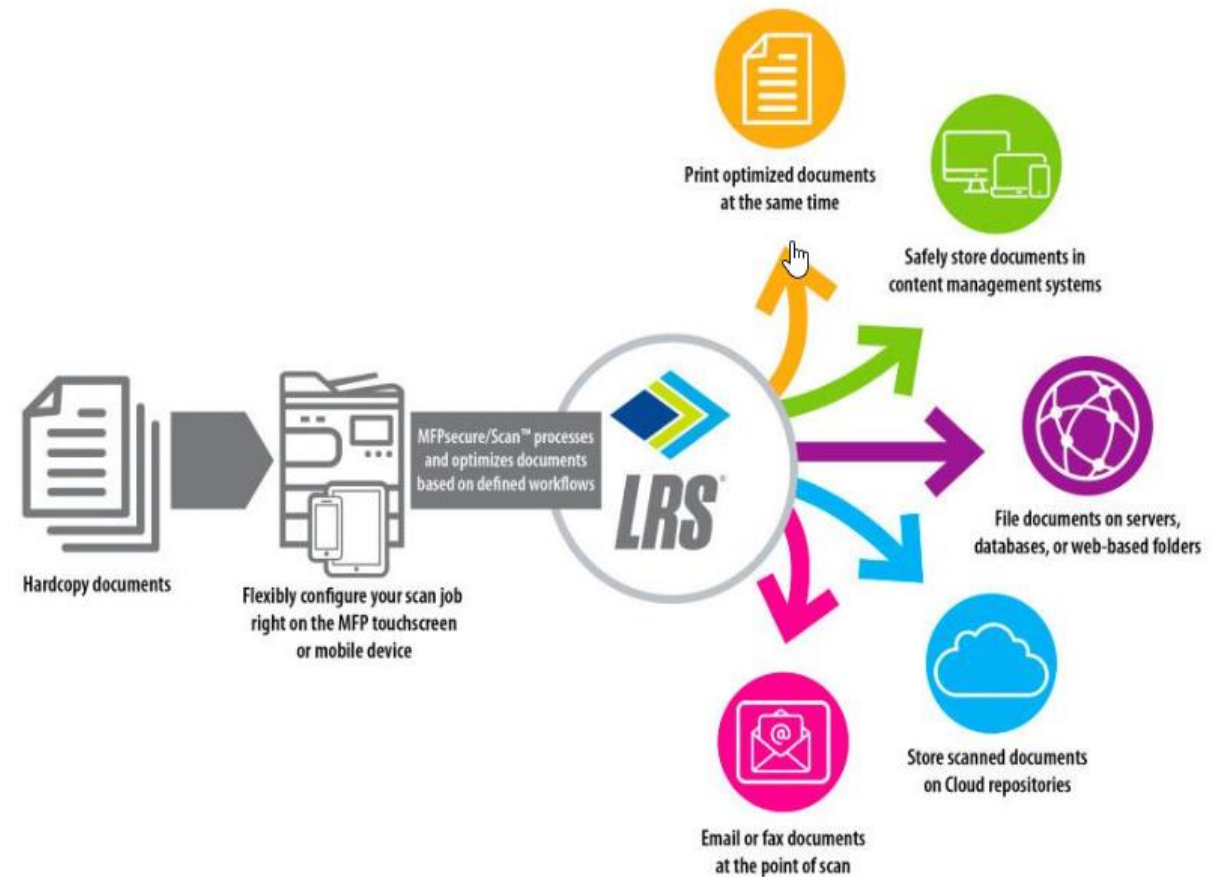
- VPN technology is going away in the enterprise
- Workstations must associate a user ID
- Devices cannot sit and wait. They must be able to phone home.
  - Retail stores
  - Temporary offices

# Internet Pull Print



- Likewise true on Scan technology
- Processes are two way
  - Contracted entities need to update applications
  - This may include scanning of physical documents

## Internet Scan



# Work from home is here to stay

- Even software VPN is undesirable
- Workers enabled for WFH are more likely to stay
- Business applications are not geared for WFH especially in the print and scan arenas



A graphic consisting of three concentric circles in shades of gray, with the words "The End" written in a white, elegant cursive font across the center.

*The End*

## Driver deprecation

- Apple announced end of driver support
  - AirPrint mechanism
- Microsoft announced printer driver support ending
  - Microsoft Universal print compatibility

A 3D maze made of grey concrete blocks, viewed from a low angle. A path is visible, leading from the bottom center towards the right side of the image. The text 'The 'S' word' is placed at the end of this path.

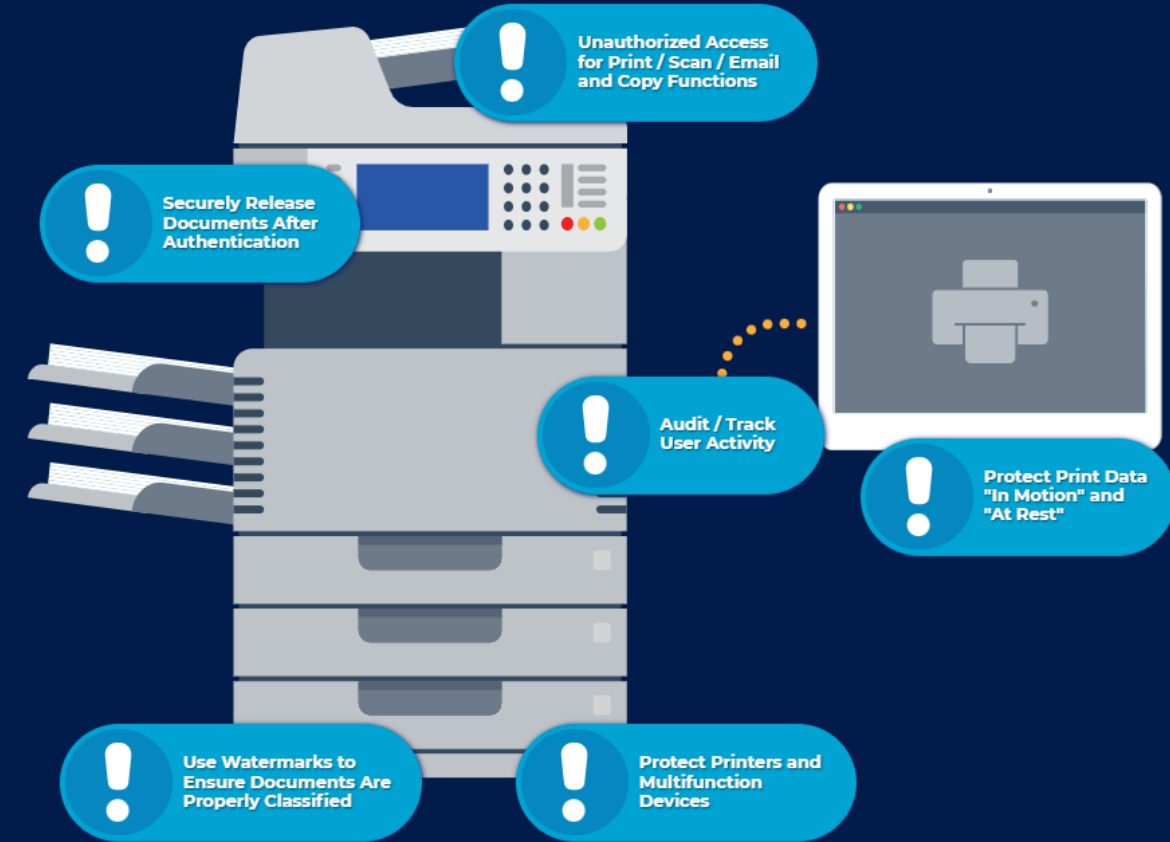
**The 'S' word**

## Examples

- NVIDIA (semiconductors) lost employee credentials and proprietary information
- Costa Rica – Had its economy shutdown \$30 million per day
- CHI Heath – Went back to paper records
- JBS Beef - \$11 million ransom
- Maersk - \$300 million in losses
- UK NHS - £92 million in loss

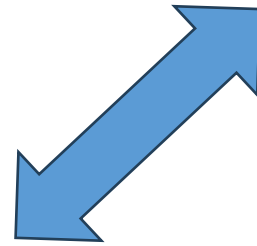
# LRS Security Approach

- CVE prevention
  - Penetration Testing
  - Code scanning
- Encryption
- Hardcopy security (pull printing)
- Windows vulnerabilities
  - How we work around them
- General device security

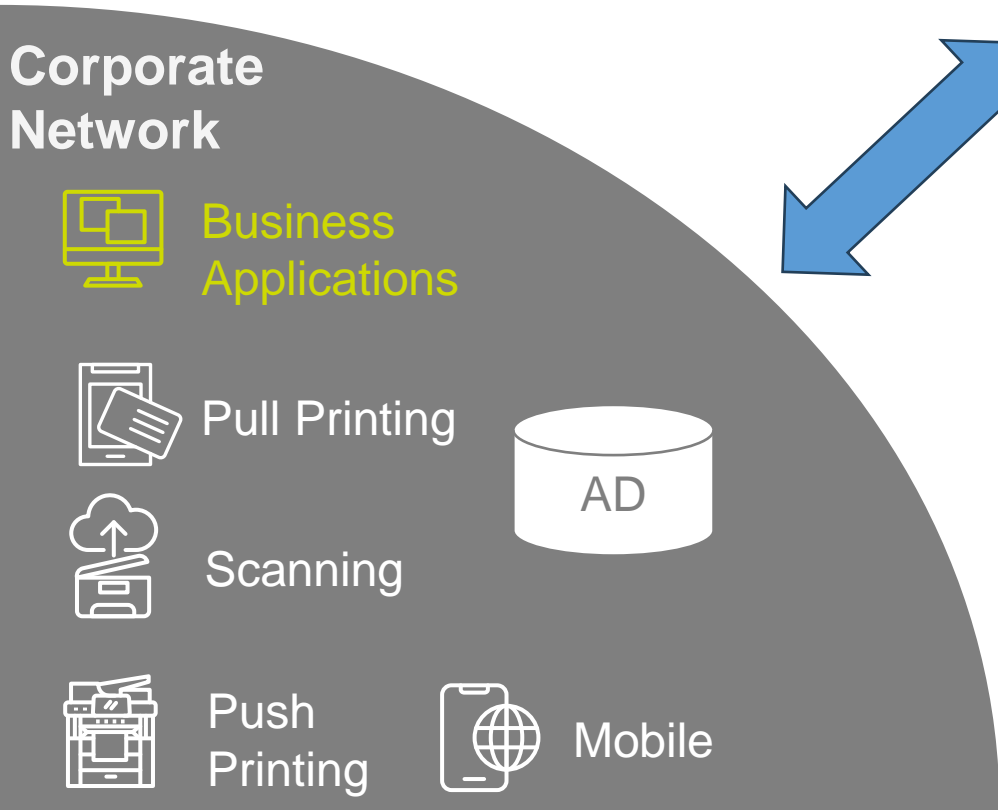




# Hybrid Approach – On Premise



- Common use
- Everything Onsite / Datacenter
- Federated authentication



 Business Applications

 Pull Printing

 Scanning

 Push Printing

 Mobile



# Hybrid Approach – Mixed (typical)



Via Internet  
OR Personal VPN

## Corporate Network



Business Applications



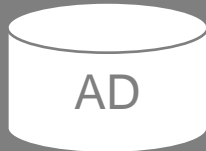
Pull Printing



Scanning



Push Printing



Mobile



Business Applications



Pull Printing



Corporate or Affiliate Printer



Distant Offices / Coworking

# Hybrid Approach – LRS managed / Hosted



Via Internet  
OR Personal VPN

## Corporate Network



Business Applications



Pull Printing



Scanning



Push Printing



Mobile



Business Applications



Pull Printing



Corporate or Affiliate Printer



Distant Offices / Coworking

- On premise
- Private Cloud
- Public Cloud provider
- Local authentication
- Modern authentication
- Mix and match
- We are here to help

# Hybrid Approach



# **Future Product Roadmap**

Guy Tucker & Mark Ladd

# Agenda

- R4 update – What's happened in the last year?
  - Language support
  - Ease of use
  - Origin
  - General Security
  - Database
  - VSPA
  - PPM
  - MFPsecure
- Mission Control with Demonstration
- Futures

# Language Support

- Where we were -
  - English
  - French
  - Spanish
  - Italian
  - German
  - Russian

- And now –
  - Catalan
  - Czech
  - Danish
  - Dutch
  - Finnish
  - Greek
  - Hungarian
  - Korean
  - Norwegian
  - Polish
  - Romanian
  - Swedish
  - Turkish
  - Simplified Chinese
  - Traditional Chinese

## Ease of use

- User Interfaces have evolved from basic list screens to modern administrative tools
- Printer dialogs both print and scan have evolved based on customer request
- Personal Print Manager evolution
  - Printer Driver Manager – command line or admin interface
  - PPM – Based on customer design imperatives
  - PPM today – highly functional print management tool with end-user simplicity in mind



The image displays the Personal Print Manager (PPM) application interface. It features a dark blue sidebar on the left with icons for Printers, Print Jobs, Profile, and a Tour button. The main content area is divided into several sections: JOB STATUS (with checkboxes for Queued Jobs, Retained Jobs, and Failed Jobs), JOB TYPES (with a checkbox for Only Delegated Jobs), JOB FILTERING (with radio buttons for All Jobs, Secure Print, and Direct Print), and JOB SORTING (with a dropdown menu set to Newest First). A search bar at the top right allows filtering by filename, printer name, or user. Below the search bar, two print jobs are listed:

- Microsoft Word - LRS Gateway - Configuring Azure AD authentication**  
Printed to MY\_DOCS\_COLOR at 2021/05/12 17:38:42  
Status: Waiting Pages: 19 Copies: 1 Size: 3.1 MB
- Travel declaration (1).pdf**  
Printed to P350 at 2021/05/11 09:11:27  
Status: Printed Pages: 4 Copies: 1 Size: 206.2 KB

The interface also includes a "Tour" button at the bottom left and the LRS logo at the bottom center. The text "END OF LIST" is visible below the job list.

The screenshot displays the LRS Output Management web interface. The main dashboard provides a comprehensive overview of system performance and job status. It features several key metrics represented by gauge charts:

- Jobs/Min In:** 0 jobs
- Jobs/Min Out:** 0 jobs
- Total Jobs:** 2.8 K jobs
- Queued Jobs:** 2.6 K jobs
- Retained Jobs:** 210 jobs
- Memory:** 28.2 MB
- Active Filters:** 0 Filters
- Available Spool Space:** 324.3 GB

On the right side, a table lists the status of various printers:

Printer Name	Count
AUTODEFINE_SAP	27
AUTODEFINE_SEND	748
DBNRZO	10
EXSTREAM_DUMMY	18
IN_BUNDLE	27
IN_PROGRESS	14
LRSUPD_DOCUMENTS	10
MY_DOCS_COLOR	14
ODS_PROCESS	9
OVERLAY_SAVE	16

Below the printer list, a 'Printer Status' section provides a summary of printer states:

- 476 Idle
- 1 Error
- 2 Diverted
- 7 Stopped
- 0 Int-Req
- 0 Printing

The interface also includes a navigation menu on the left with options like Printers, MFPsecure, Print Server, Security, Web, and Apps. The top navigation bar includes 'Print Server List' and 'Dashboard' tabs, along with user information (VSU1 admin) and a 'Logoff' button.

MY\_DOCS\_COLOR/MLV x +

loopback/LRS/nlrswc2.exe/vpsx?stok=DBFD684C591A95D7ABA45CC967C137A0&srvid=VSV1&trid=VXVPJQ8

**LRS**  
OUTPUT MANAGEMENT

Printers

MY\_DOCS\_COLOR

Output Queue (14)

Retained Queue (0)

Configure

MFPsecure

Print Server

Security

Web

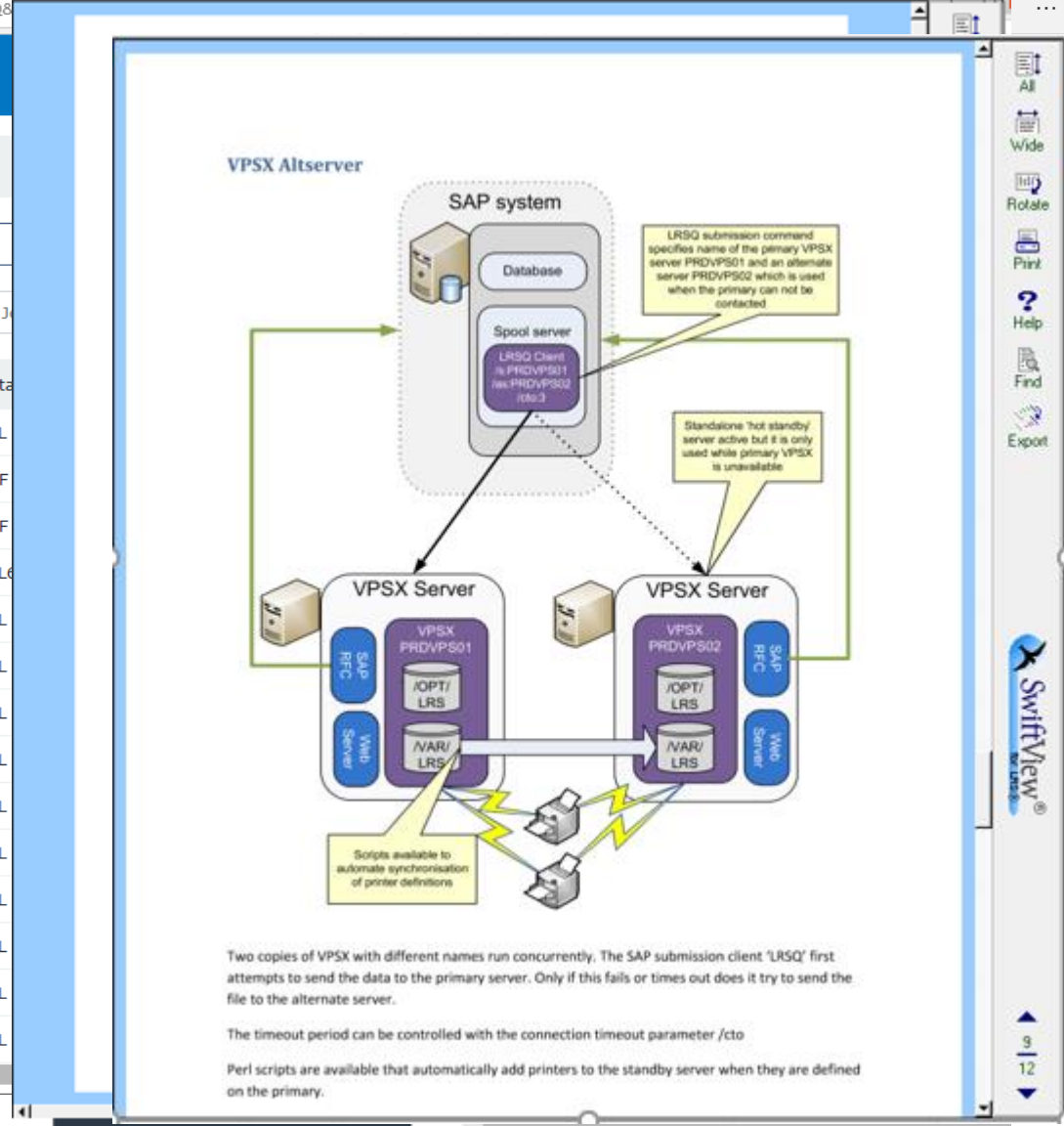
Apps

### Printer Output Queue

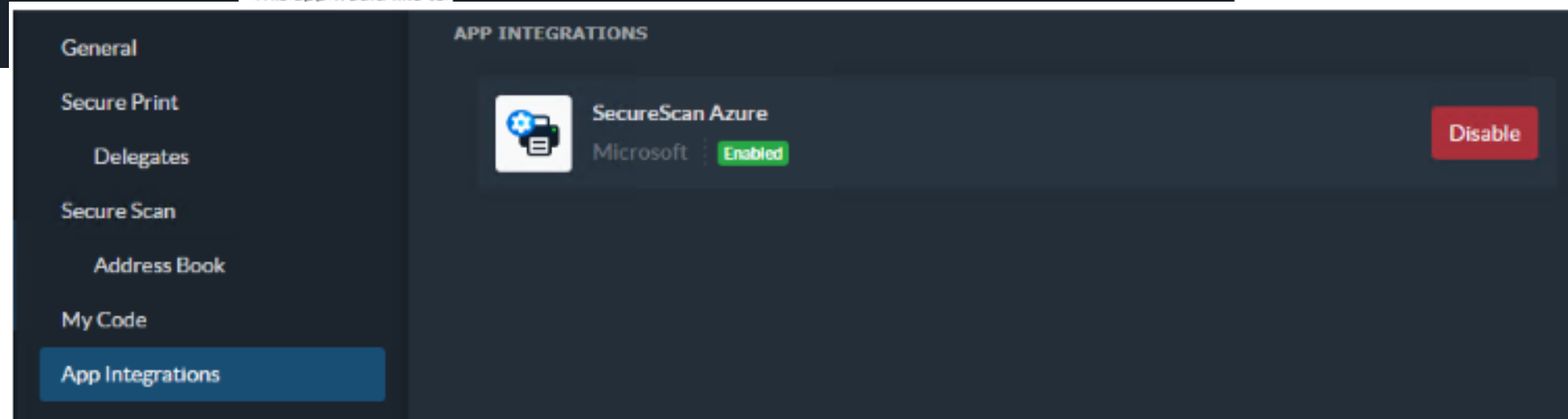
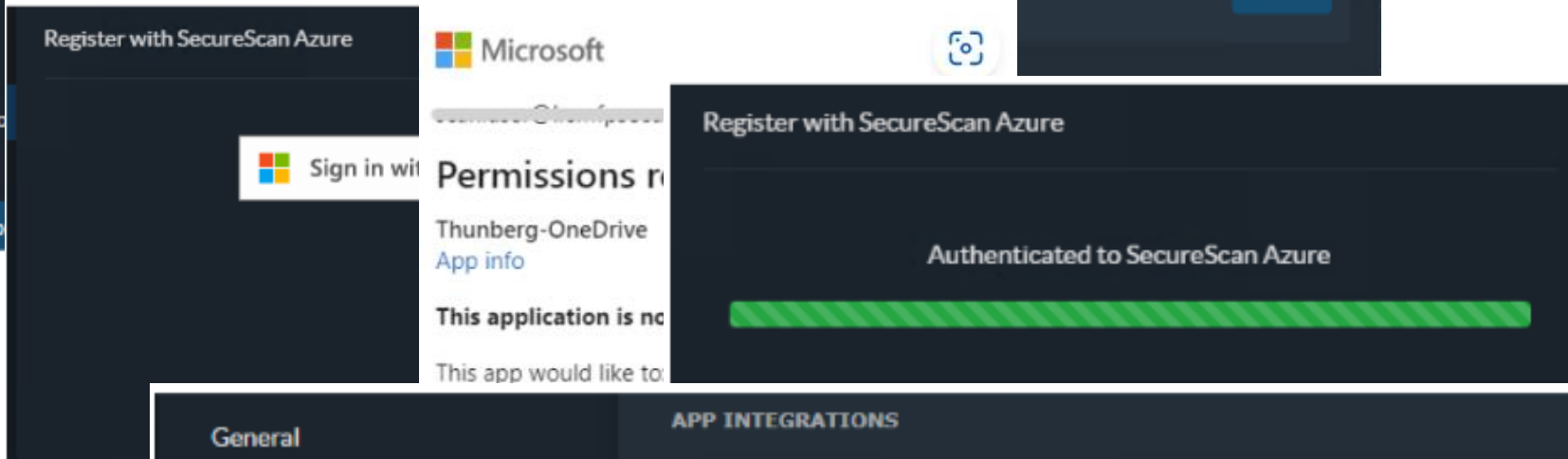
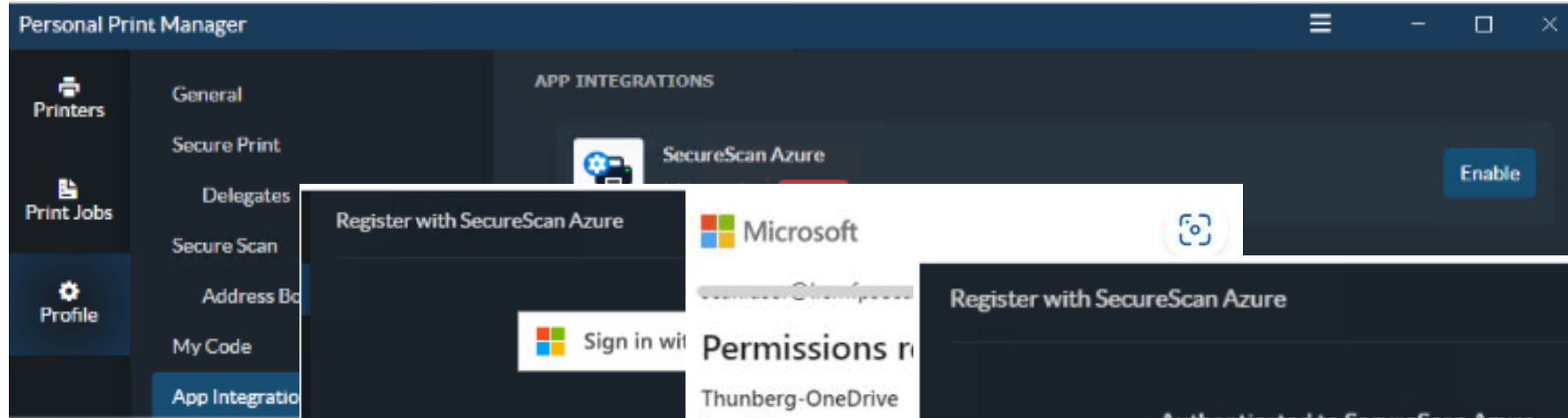
● MY\_DOCS\_COLOR MLVPSX1 - Secure Delivery  
Idle

Bulk Actions Queue Command Table Columns

Spool ID	Creation Time	Copies	Pages	Data
<a href="#">00018127</a>	11/06/2018 09:41:50	1	3	PCL
<a href="#">00018490</a>	12/18/2018 11:42:23	1	4	PDF
<a href="#">00018510</a>	12/18/2018 14:36:51	1	39	PDF
<a href="#">00020857</a>	05/14/2019 11:29:11	1	4	PCL
<a href="#">00021355</a>	09/03/2019 11:39:00	1	3	PCL
<a href="#">00018132</a>	11/06/2018 10:15:36	1	8	PCL
<a href="#">00018133</a>	11/06/2018 10:15:42	1	1	PCL
<a href="#">00018237</a>	11/22/2018 17:24:30	1	6	PCL
<a href="#">00018238</a>	11/22/2018 17:41:29	1	6	PCL
<a href="#">00018239</a>	11/22/2018 17:45:04	1	6	PCL
<a href="#">00018240</a>	11/22/2018 17:46:17	1	6	PCL
<a href="#">00018241</a>	11/22/2018 18:07:18	1	6	PCL
<a href="#">00018242</a>	11/22/2018 18:57:24	1	6	PCL
<a href="#">00018245</a>	11/22/2018 18:59:08	1	6	PCL



# Scan to OneDrive – user access token



## Origin field

● MYQUEUE VPSGUY1 - ppq  
Idle Command ▾

🔍 Bulk Actions ▾ Queue Command ▾ 1 → 1 (1) |< < > >|

Table Columns ▾ Job upload Refresh

Spool ID	Size	Newly renamed column	Delegate	Copies	Host	Origin	Creation Time	Error Time
<a href="#">00001773</a>	67.1MB			1	GuysMacBook.local	MAC	2023/04/19 09:25:29	0000/00/00 00:00

# Customize Column Headings

● LOGO\_REALKREDIT\_DANMARK MLVPSX1 - Add Danske bank logo and route to print  
Idle Command ▾

Bulk Actions ▾ Queue Command ▾ Table Columns ▾ Job upload Refresh |< < > >|  
1 → 2 (2)

Spool ID	Filename	Owner	Title	Job Name	Copies	Pages	Creation Time	VPS Printer	ZOS NAME	Reroute Printer
<a href="#">00001633</a>	LINEN15.LINEN15L.JOB09947.D0000101.?	LINEN15	Doc Type A	LINEN15L	1	8	10/11/2023 17:41:15	DBN01A	POULSEN	DBN001
<a href="#">00001634</a>	LINEN15.LINEN15D.JOB09949.D0000101.?	LINEN15	DOC TYPE B	LINEN15D	1	8	10/11/2023 17:41:17	DBN01A		DBN001

# SNMP

- SNMP Property Updates at print time
  - We have long done this for LPD, SOCK, PJP and COT commtypes.
  - This enhancement adds IPP and IPPS commtypes to the list
  - SNMP must be enabled.

# IPPS Status

- Encryption to the device
- Jobs streamed using IPP / IPPS can be configured to track progress of the print job after streaming is complete.

## IPP Options

- |   |  |
|---|--|
| <input type="checkbox"/> Use Content-Length encoding for IPP        | <input type="checkbox"/> Reuse IPP connection when available                                       |
| <input type="checkbox"/> Force IPP printers to autodetect data type | <input type="checkbox"/> Enable IPP clients to change printer status                               |
| <input type="checkbox"/> Limit IPP Get-Jobs response to My-Jobs     | <input checked="" type="checkbox"/> Wait for IPP print job completion                              |
| <input type="checkbox"/> Obscure details in IPP Get-Jobs response   | <input type="checkbox"/> Display media sheets processed while waiting for IPP print job completion |
| <input type="checkbox"/> Return all jobs to IPP Get-Jobs requests   |  |



# Logging of queue and system changes

- A new keyword has been added that allows administrators to specify the amount of detail included in the VPSX log when a VPSX or Printer configuration change has been made.

Admin Audit Logging Detail

Detailed with values ▼

Basic

Detailed

Detailed with values

---

```
03 Oct 2023 14:47:26 VPSX0268I <CREQ0001 > SYSTEM CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED SNMPPAUTHPROT FROM "none" TO "NONE")
03 Oct 2023 14:47:26 VPSX0268I <CREQ0001 > SYSTEM CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED SNMPPRIVPROT FROM "none" TO "NONE")
03 Oct 2023 14:47:26 VPSX0268I <CREQ0001 > SYSTEM CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED ADMAUDITLOGLVL FROM "0" TO "2")
03 Oct 2023 14:48:46 VPSX0268I <CREQ0001 > QANULL CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED FILTER2 FROM "" TO "c:\window\system32\cmd.exe")
03 Oct 2023 14:48:46 VPSX0268I <CREQ0001 > QANULL CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED F2DTYPE FROM "" TO "PDF")
03 Oct 2023 14:48:46 VPSX0268I <CREQ0001 > QANULL CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED F2ARGS FROM "" TO "/ccopy &infile &outfile")
```

# PPQ masking

The screenshot displays a printer management application interface. On the left is a dark blue sidebar with navigation options: Printers, PersonalQs (highlighted), MFPsecure, Mobile Connector, Innovate/Audit, Print Server, Gateway, Security, and Apps. The main area shows a search bar with 'Printer' and a 'Masking' button. Below the search bar are 'Add' and 'Refresh' buttons. A 'PersonalQ' list on the left contains 'MYDIRECT' and 'MYQUEUE'. A modal dialog box is open, titled 'Masking', with the following fields and options:

- Location:** A dropdown menu showing 'All locations'.
- PersonalQ Mask:** An empty text input field.
- Group Mask:** An empty text input field.
- VPSX Mask:** An empty text input field.
- Output Queue Minimum:** A numeric spinner set to 0.
- Retained Queue Minimum:** A numeric spinner set to 0.
- PersonalQ Status:** A section with checkboxes for Selected, Idle, Stopped, Error, and Diverted.
- Device Properties:** A section with checkboxes for Color, Duplex, and Staple.
- Driver:** A section with checkboxes for Windows, Linux/Mac, and Not Specified.
- Set as Default:** A checkbox at the bottom left.
- OK:** A button at the bottom right.

# Security hooks

Security

- Dashboard
- Configure
- Log
- Active Users
- Guest Users
- Users
- Groups
- Mobile Devices

+ MFPsecure Options

+ Mobile Connector Options

+ Innovate/Audit Options

- SSL Options

SSL CA File \* C:\work\hw07068.lrsinc.org.cer

TLS Minimum Version TLS 1.0 Deprecated

+ Proxy Options

## **LRS/Gateway**

- LRS/Gateway
  - Linux support came out with R4
  - Fix Level 2 now includes PostgreSQL support

## **PPM / VSPA**

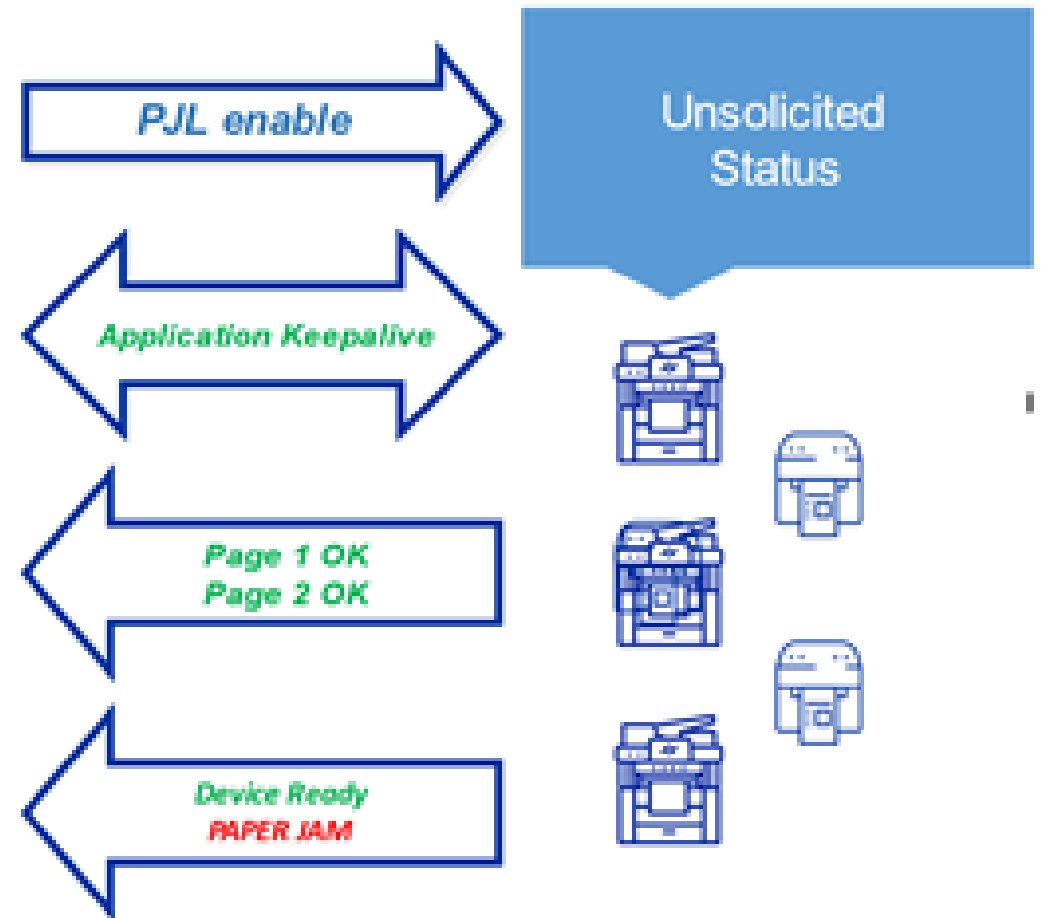
- Color scheme better fits into the VPSX R4 look and feel
- If a default printer is changed in PPM, it gets reported back to Gateway for continuity
- Also, Default Printer can roam bound either to the user or terminal
- And a Direct printer can be a default.

## **PPM / Default printer and Proxy**

- What is a Proxy? (or forward proxy in this case)
- Operating System Environment Variables
- System vs. User context
- Talking to printers
- PDM vs. PPM vs. Broker

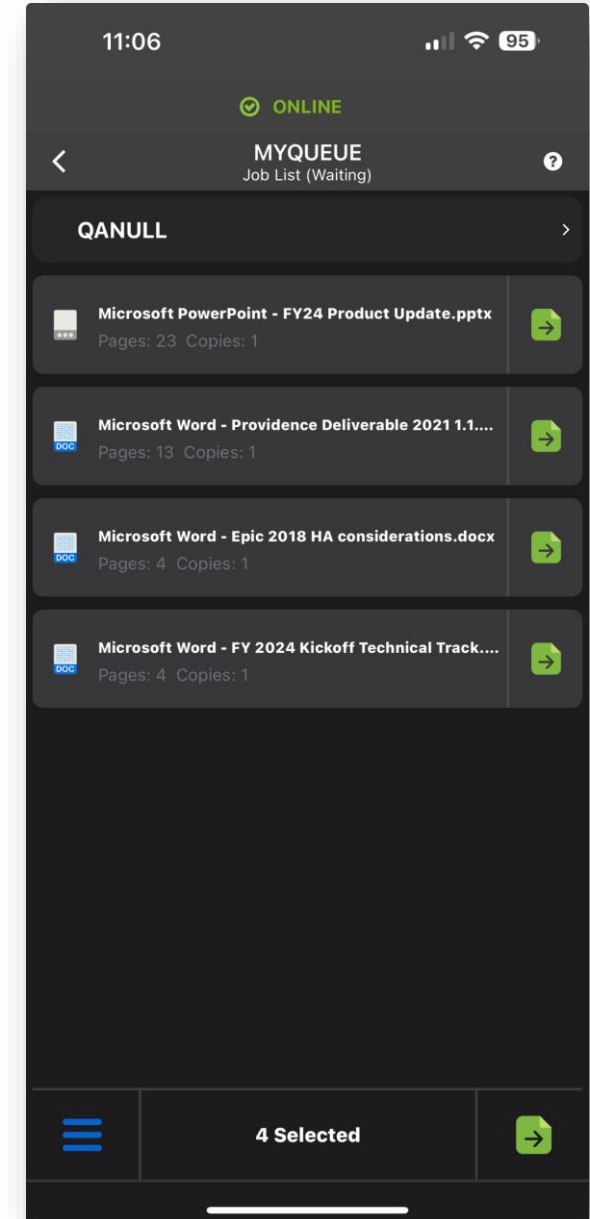
# Assured Delivery LRS PjL Delivery

- Advantage of PjL for page level delivery
- Long standing proven method that LRS products have used
- Now extended to Zebra and SATO label printing



# VPSX Print APP

- Active-Active NLB is getting more common.
- Before, however, the print release app would list only one server's worth of jobs.
- This has been enhanced to show jobs in multiple VPSX instances of the PPQ





# Controlling print behavior from the fleet

The screenshot displays the LRS Benelux user interface. On the left, a navigation menu is visible with the following items: Machine Administrator, Secure Print (with a key icon), Machine Administrator, Secure Print (with a key icon and 'Advanced' label), Black and white, Two-sided (Pri), Mobile Connector, Innovate/Audit, Print Server, Gateway, and Security. The 'Secure Print' menu item is highlighted, and a sub-menu is open showing: Printers, PersonalQs, MFPsecure, HW08284.LRSINC.ORG, Dashboard, Users, Agents, Configure (highlighted in blue), and Logs. The main content area shows the configuration page for 'HW08284.LRSINC.ORG'. At the top of this page is an 'Update' button. Below it are 'Modify' and 'Reset' buttons. The configuration options include: 

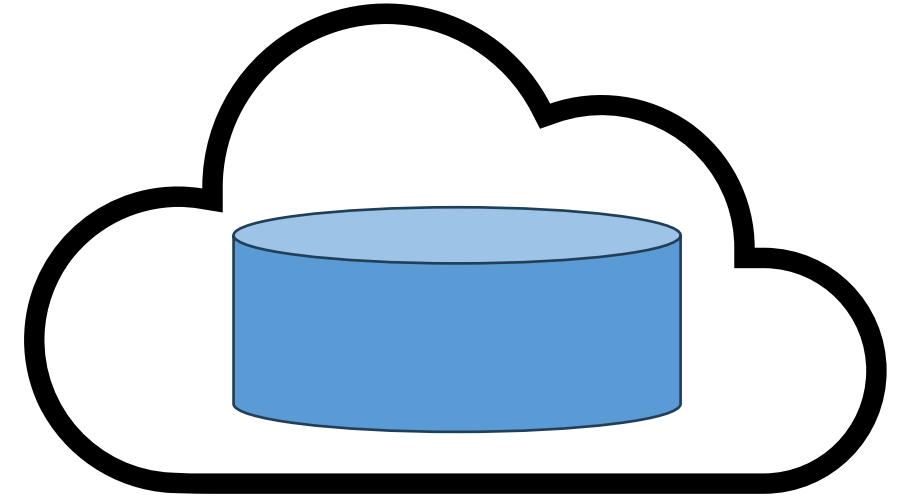
- Automatically close Secure Print application after a successful print or delete. Timeout value: 60 (0-60 seconds)
- Enable Print & Keep
- Enable no-touch release
- Print all queues
- Enable one-touch release
- Override Printer List URL
- Enable advanced print options (highlighted with a green circle)

Below these are several cache settings: 

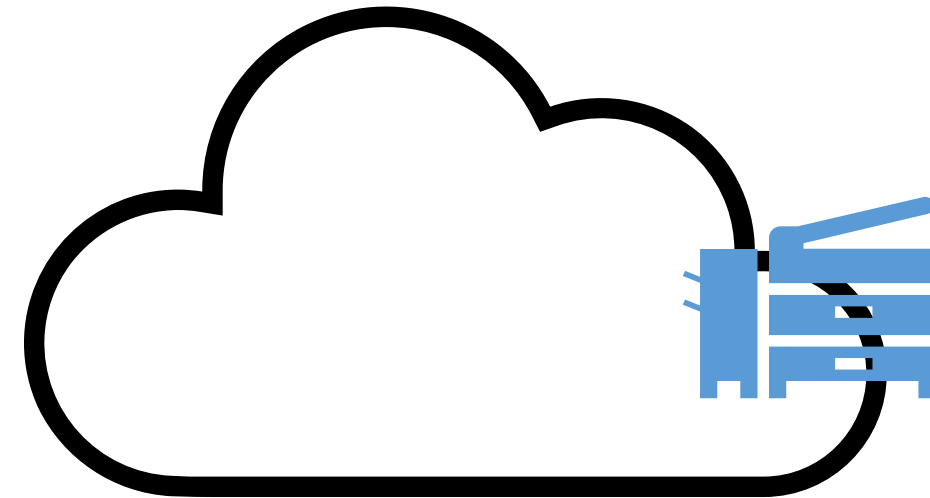
- Cache the printer capabilities from the print server: 168 (0-168 hours) Disable
- Job name format: %JOBNAME% - %DATE% %TIME%
- Sort jobs by: Date ascending
- Cache the user alias: 24 (0-168 hours) Disable
- Cache the user preferences from PPM: 24 (0-168 hours) Disable

# **Demo System & LRS Mission Control**

## Futures – Innovate/Audit



## Futures – Direct Print



# MFPsecure/Scan UI

The screenshot displays the 'Secure Scan Admin' web interface. The top navigation bar includes the LRS logo, the text 'R4', 'Secure Scan Admin', a user profile for 'VSV1 admin', and a 'Logoff' button. A left sidebar contains a navigation menu with items: Printers, PersonalQs, MFPsecure (highlighted), EOMSSWDEMO.LRSINC.O..., Dashboard, Users, Agents, Configure, Secure Scan (highlighted), Logs, Mobile Connector, and Innovate/Audit. The main content area is titled 'Profiles' and features a tabbed interface with 'Profiles', 'Data Sources', 'User Manager', and 'Advanced'. Below the tabs, there are 'Sort', 'Filter', and '+ Add' controls. A list of profiles is shown, categorized by status: Active, Not deployed, and Disabled. Each profile entry includes an LRS icon, the profile name, and action icons for edit and delete.

Status	Profile Name	Action
Active	Test by SL	edit, delete
Not deployed	To My Folder	edit, delete
Disabled	To My Folder 2	edit, delete

- The problem
- The future
- What it means

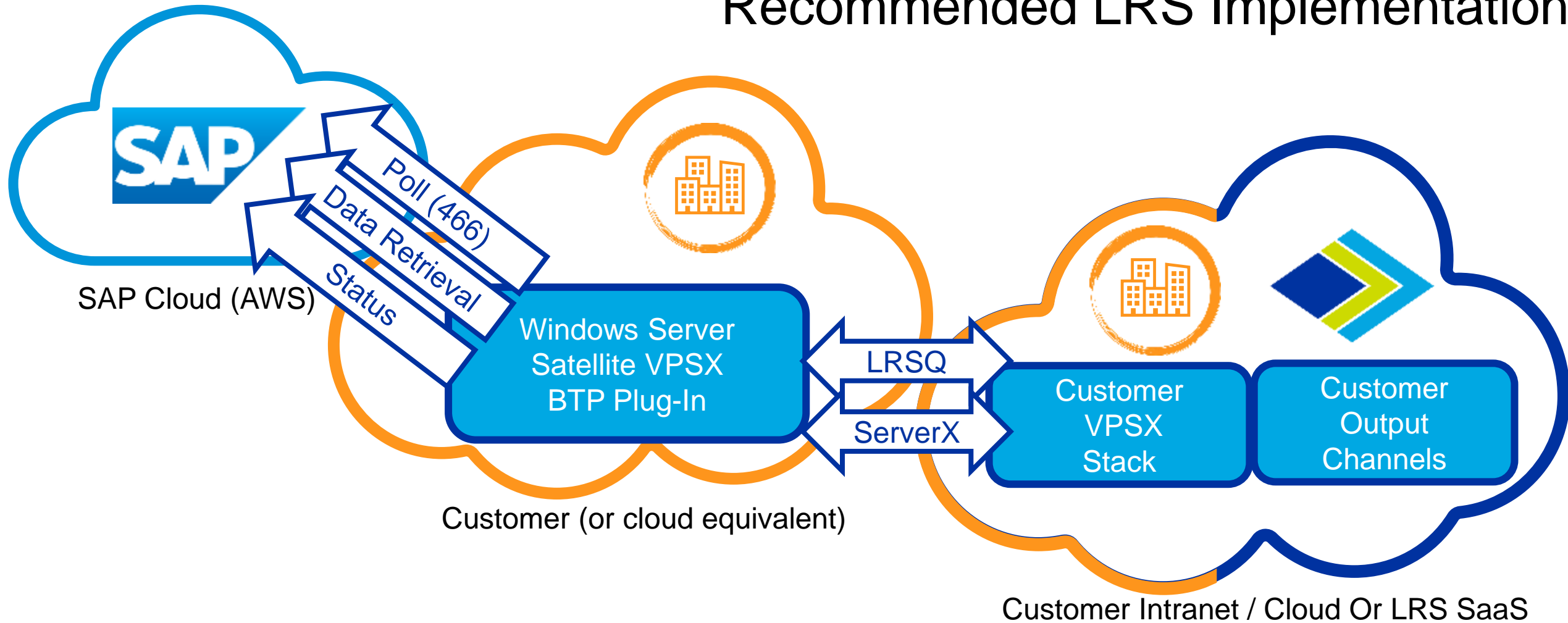
Application/Storage Destinations	MFPsecure/Scan	MFPsecure/Scan Pro
Folder	●	●
FTP Server	●	●
Email	●	●
Lotus Notes	●	●
Fax	●	●
Box	●	●
Dropbox	●	●
Google Drive	●	●
Microsoft OneDrive	●	●
SharePoint	●	●
Database	●	●
WebDAV	●	●
Microsoft Teams	●	●
Print via VPSX	●	●

# MFPsecure/Scan licensing

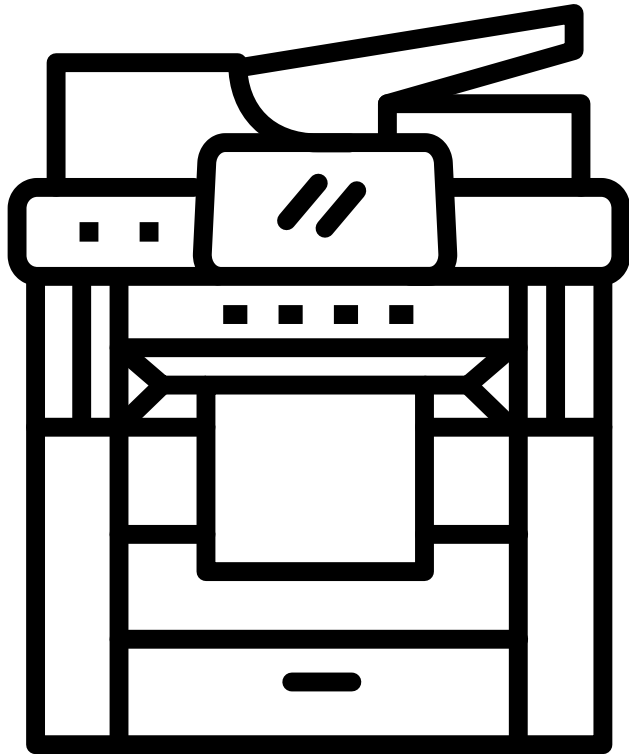
- MFPsecure/Scan and then add-on
  - OneDrive
  - SharePoint
  - Teams
  - Others?
- MFPsecure/Scan has Tesseract OCR engine
- MFPsecure/Scan Pro has IRIS professional scan engine

# S4HC-ES-PRINT-OMS/BTP-PRINT-OMS

## Recommended LRS Implementation







## IPP futures

- IPP is the protocol that Apple and Microsoft are counting on
- The formatted document will be PDF or XPS – so no built in finishing options like duplex, monochrome, Tray, stapling etc
- The LRS direction

# LRS Benelux User Group Coffee Break



# **LRS Support Portal and Knowledgebase**

Demonstration Video



# New LRS Support Site and Knowledgebase

Many benefits, including:

- Online case management
- Option to subscribe to product update notifications
- Streamlined process to request maintenance
- A knowledgebase with FAQs, release notes, tech tips, and other useful information
- A modern look and feel with a powerful search engine
- Improved security with an option for Single Sign-On (SSO)

## LRS Support Site

Find the answers you need when you need them

Search (minimum 3 characters)



### OPEN A SUPPORT CASE

Request Support



### MAINTENANCE REQUEST

Request Maintenance



### KNOWLEDGE BASE

Browse and Search for Articles

### Announcements

Testing the portal announcement



### My Recent Cases

Maintenance Request - 2023-06-05  
CS0073068 • about an hour ago

VPSX case  
CS0073067 • about an hour ago

### Needs Attention

No records found



## Create Case

Submit a case about your asset and our support team will assist you.

\*Account

Contact

Asset

Priority


\*Subject


\*Description


Submit


### VPSX case

Type your message here...  Send

 Kurt Windisch 2m ago Additional comments  
Please provide the error code.

 Kurt Windisch 5m ago Additional comments  
VPSX case description

 Kurt Windisch 5m ago  
CS0073067 Created

 Start

### Actions

Close Case

### Ticket Fields details

<b>Number</b> CS0073067	<b>Assigned to</b> Kurt Windisch
<b>Priority</b> 4 - Low	<b>State</b> Open
<b>Asset</b> VPSX Enterprise	<b>Updated</b> 2m ago

### Attachments

Drop files here





- Manage Cases
- All Cases
- Action Needed
- My Cases**
- Emergency Keys
- Maintenance Requests

Cases <span>New</span> <input type="text" value="Keyword Search"/>							
Number	Short description	Asset	Contact	Account	Priority	State	Updated
CS0073068	Maintenance Request - 2023-06-05		Kurt Windisch	Levi, Ray & Shoup, Inc.	4 - Low	Open	2023-06-05 08:14:20
CS0073067	VPSX case	VPSX Enterprise	Kurt Windisch	Levi, Ray & Shoup, Inc.	4 - Low	Open	2023-06-05 08:09:48

[<](#) [>](#) Rows 1 - 2 of 2

## Maintenance Request for IL0000 - Levi, Ray & Shoup, Inc.

### VPS

- VPS Version 2 Release 1.1
- VPS Version 2 Release 1.2

### DRS

- DRS Version 2 Release 1.1
- DRS Version 2 Release 1.2

### VPSX

- VPSX V1 R3.0
- VPSX V1 R4.0

### PCX

- PageCenterX V1 R2.0
- PageCenterX V1 R3.0

### Transforms

- Conversion Products R3.0
- Conversion Products R4.0

### Anyqueue

- LAN Products V1 R8.0

Create Maintenance

Reset

## LRS Knowledge Base

Find the answers you need when you need them



### Pre Recs & Checklists

More information here.



### FAQs

More information here.



### Release Notes

More information here.



### Best Practices

More information here.



### Product Documentation

Documentation, Training, End of Support, etc.



### Tech Tips

How to make the most from your LRS Software

### Refine results

Category

Filter

Best Practices

Products

- Innovate/Audit
- Intelligent Document Bundling
- MFPsecure/Print
- MFPsecure/Scan
- Mobile Connector
- PageCenterX
- Printer Driver Management (PDM)
- VPS
- VPSX Enterprise

Last Modified

- Past 2 Years
- Past Year
- Past Month
- Past Week
- Past 24 Hours

### 2 results for "vpsx"

Sort by | Relevance Views Newest Alphabetical

Showing All Results

- VPSX and MFPsecure in Traffic Managed/Load Balanced environments**  
Best Practices  
and NetScaler, between LRS components such as **VPSX**, MFPsecure and MFPsecure Agents will cause fatal There is a requirement in a **VPSX** and MFPsecure solution to identify the originating source of a communication issues, a simple...  
KB0010155 • 6d ago • 5 Views
- Capturing Application Output**  
Best Practices  
that can be used to submit, query, and delete print requests to **VPSX**<sup>®</sup> (Output Management), PageCenterX compression and optionally encryption between the client and **VPSX** or PageCenterX. Although the LRSQ command...  
KB0010149 • 6d ago • 1 View

KB0010155

## VPSX and MFPsecure in Traffic Managed/Load Balanced environments

6d ago • 7 Views

### Introduction

Introducing load-balancing and/or traffic management network agents, such as BigIP/F5 and NetScaler, between LRS components such as VPSX, MFPsecure and MFPsecure Agents will cause fatal operational issues if the network agents are not configured appropriately.

Since the network agents are not "just routing", they may not pass the communication packets though untouched - packets may be opened, inspected and re-written and this will lead to issues in the areas of IP source information and HTTPS certification.

LRS are not responsible for the configuration of these network agents, but this document aims to describe the issues that arise and the configuration requirements that may need to be implemented. Example configuration detail of certain network management tools may be available - please contact your LRS Software Consultant or LRS Support.

### Scope

The intended readers of this document are:

- technical network engineers
- technical project managers
- print solution administrators

### Most Useful

TEST

72 Views • 25d ago • 26d ago

**Group Filter** Clear

- Mainframe
- Open Systems

**Product Filter** Clear

- transform/ECDS to PS
- VMCF
- VMCF/Web Access
- VPS
- VPS/LCDS to TIFF
- VPSX**
- VPSX/DBCS Fonts
- VPSX/DPE
- VPSX/EI
- VPSX/Global Fonts
- VPSX/MFI
- VPSX/MICR Font
- VPSX/SI

## Product Documentation



### Open Systems

[VPSX UPD V1 R10](#)[VPSX V1 R30](#)[VPSX V1 R40](#)



### Refine results

Knowledge Bases

Release Notes

Category

> Release Notes

Products

Innovate/Mill  
LRS Transforms  
LRS/MVS Server  
LRS/Spool  
MFPsecure  
PageCenter  
PageCenterX  
VPS  
VPSX

Last Modified

### 5 Results

[Sort by](#) | [Views](#) [Newest](#) [Alphabetical](#)

Applied Filters [Release Notes](#)  [VPSX](#)

- [LRS/NetX V1R3.0.0024 - 7/19/2023 - LRS/NetX](#)  
Release Notes > Open Systems > VPSX  
LRS/NetX V1R3.0.0024 Enhancement: Added new printer configuration keywords to the WSDL API. Pre-requisite(s): LRXAPI LIBRARY V1R1.0.122 WEBSVC LIBRARY V1R1.0.040 [Click here to see the full list of Fixes in the Product...](#)  
KB0010224 • about a month ago • 3 Views
- [LRS/NetX V1R4.0.0004 - 7/12/2023 - LRS/NetX](#)  
Release Notes > Open Systems > VPSX  
LRS/NetX V1R4.0.0004 Enhancement: Added the "Log" option to the printer sidebar menu and display the "Output Queue" and "Retained Queue" options when on the Printer Configuration screen. Pre-requisite(s): LRXAPI LIBRARY...  
KB0010231 • about a month ago • 1 View
- [VPSX V1R3.0.0034 - 7/19/2023 - VPSX](#)  
Release Notes > Open Systems > VPSX  
VPSX V1 R3.0.0034 Enhancement: Updated OpenSSL to 3.1.1. Fix: A server based print job released to a PJJ printer may skip multiple pages if the job fails to print and is retried multiple times. To resolve the issue, printer configuration...  
KB0010223 • about a month ago • 2 Views
- [VPSX V1R4.0.0003 - 6/6/2023 - VPSX](#)  
Release Notes > Open Systems > VPSX  
VPSX V1R4.0.0003 Fixes: Resolve an issue introduced with VPSX V1R4.0.001 where a storage overlay may occur on a...  
KB0010225 • about a month ago • 1 View



## Notification Preferences

### Notification Settings

#### Allow Notifications

Turn off all notifications, We may still send you important notifications about your account and content outside of your preferred notification settings.

On

#### What notification you receive

Customer Service

MFPsecure Release Notes On

PageCenterX Release Notes On

Release Notes: Mainframe

Transform Release Notes On

VPSX Release Notes On

Release Notes: Open Systems



A person in a light blue shirt is using a tablet to interact with a modern office scanner. The scanner is white and grey with a large flatbed and a control panel on the right side. The person is holding the tablet with both hands, and their right hand is touching the screen. The scanner's lid is open, and a sheet of paper is visible on the bed. The background shows an office environment with a red wall and a black chair.

# State of the art Scan

Guy Tucker

# MFPsecure/Scan

- MFPsecure/Scan streamlines digitization and document routing processes
- With advanced, user-friendly, customizable tools for automated document capture, processing, and secure distribution. With MFPsecure/Scan, your scan device becomes a full workflow engine that saves time, eliminates errors, and improves business processes.

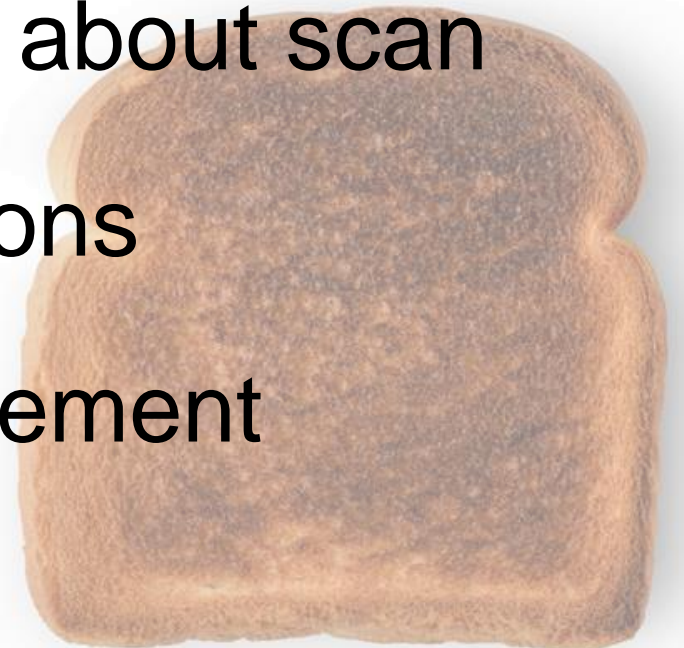
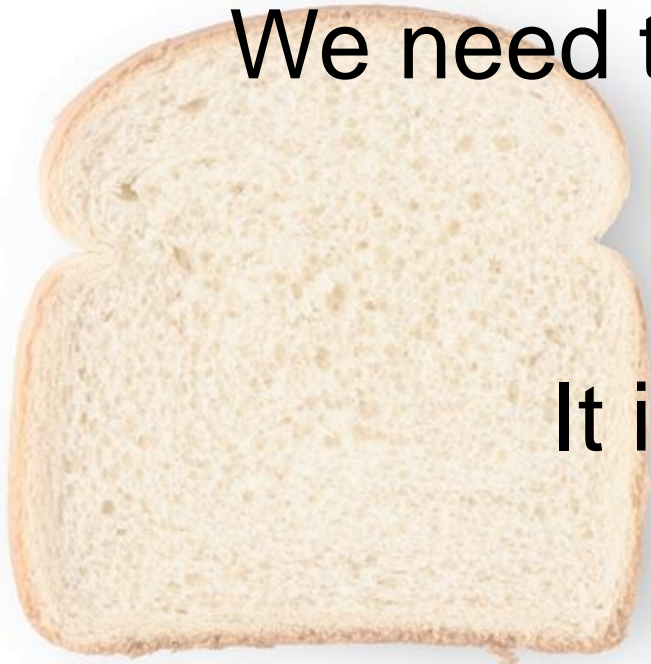


## The way forward

We need to change how we think about scan

It is not about destinations

It is about process improvement



Order: 54018

Country Code: US 1 of 1 220 LB  
100 KG

Ref Number: 50618 Stock code: 30180

**FRAGILE**

TOTAL OPTIONS	\$2,790.00
TOTAL VEHICLE & OPTIONS	\$29,035.00
DESTINATION CHARGE	750.00
<b>TOTAL VEHICLE PRICE*</b>	<b>\$29,785.00</b>

## Changing the paradigm

Reading the document

- Text of course
- Barcodes?
- QR Codes?
- Zone-based information?

## A word on authority

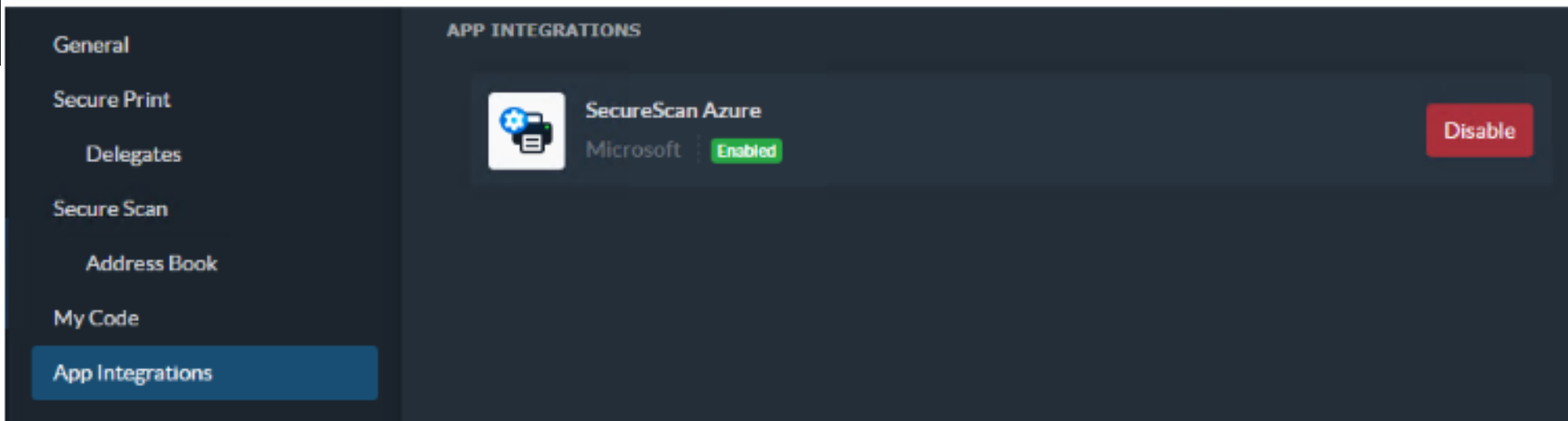
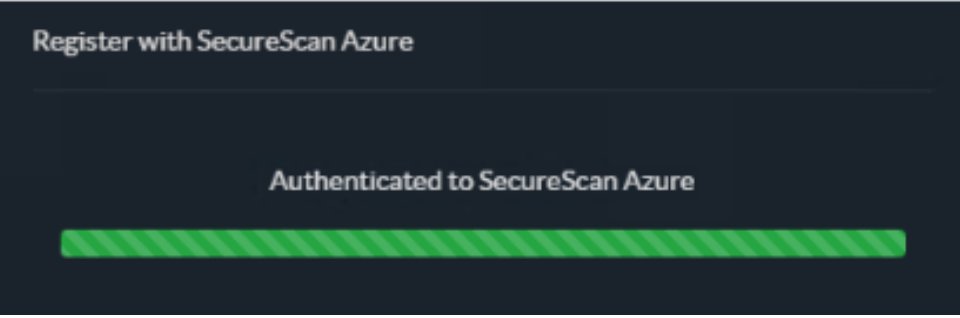
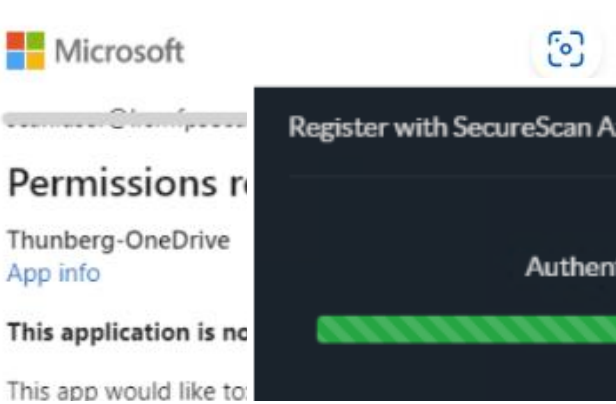
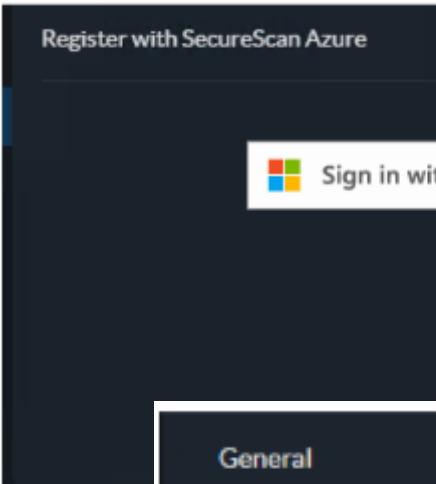
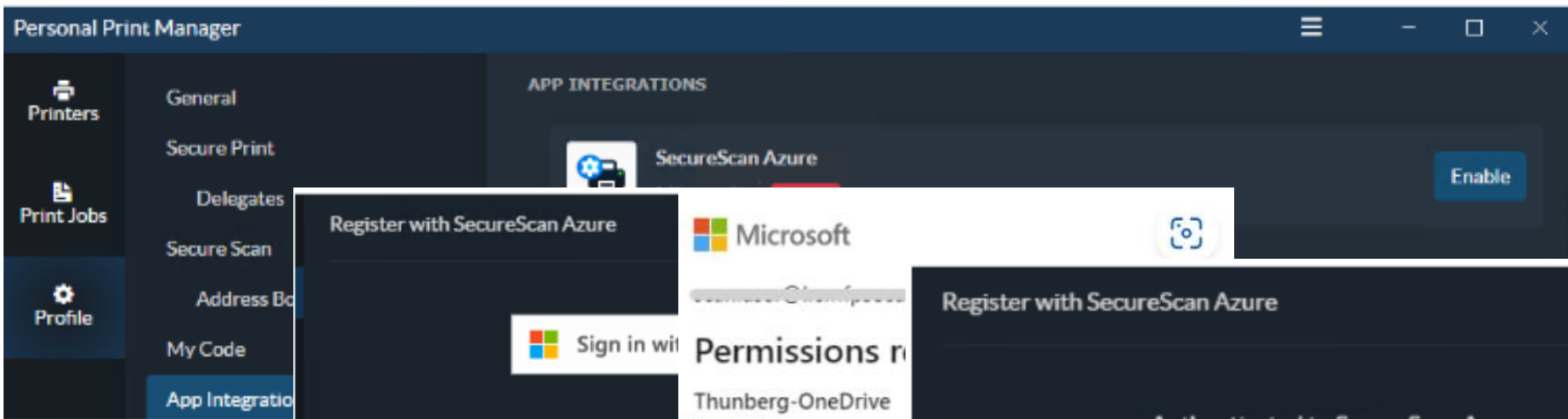
- MFPsecure requires user authentication
- Once the user is known, this is used for later processes
  - Folder access
  - Database updates
  - API user authentication

## More on Authentication

- Security vs. Usability
- Badge taps
- MyCode
- User and Password
- Futures?



# Scan to OneDrive – user access token





## A note on Usability

- Card enrollment
- Set up in advance
- Token creation (Azure)
- Code maintenance



## Set and forget

- All administration done centrally
- Authority and permissions from external sources
- Can be customer-configured
- LRS assistance always available





**USE  
CASE**

## **An energy company**

- A batch of orders is scanned. The orders are separated by covers sheets.
- The Cover sheet has barcodes and text. The scan process resolves the barcodes and looks for text (OCR) on the cover sheet.
  - The values are evaluated for recognition, and to ensure all values are present
- IF all are available, then the document triggers a later application flow
- If not, then the document triggers a human process or, if the document is bad enough an Error workflow, to sort the problem

# Construction company

- Faxing is still a heavily used technology
  - It is secure.
  - It provides a physical proof of delivery to the user
  - It is easy to set up.
  - But it requires another machine.
- Electronic means and orders are nice but
  - They require a network-based computer
  - And knowledge of how an application works
  - And a user that is logged onto the machine.
- These concepts can be difficult to cover in a construction scenario

## **Construction company**

Using LRS Scan technology

- The construction site scans the document providing a fax number in the UI
- The backend scan technology notes the printer's name. The document and number are sent to a web-based fax service.
- Success or failure is returned by the web-based service
- This status is emailed back to the LRS server with the printer name noted
- As such, the success or failure is printed on the device.

## **Construction company**

- NO user had to be logged in.
- The sender got their confirmation
- The MFP needed no fax card or phone line, just connection to the network.

# **LRS and SAP in the New World**

Chris Taylor

## Session Topics

- LRS Old World
- LRS Mid World
- LRS New & Legacy World

## What LRS Provides

- Previous Capabilities
- What LRS added
- What's New



# SAP Printing is **CHANGING**

In the past SAP output was not fully composed, so LRS enabled:

- ✓ Device Independence of the print data-stream
- ✓ No requirement for SIMMS and DIMMS
- ✓ Generic device definitions not specific ones (SAPGOF)
- ✓ Generate Unicode Output on any laser device
- ✓ Generate Barcodes easily on any laser device
- ✓ Fonts to include selectively in the print data because SAP didn't do that and Unix systems are NOT LICENSED for windows fonts.



Assured Print Delivery  
Printer Device Independence  
Generation of Bar Codes & Fonts

## SAP Evolution To Date

- ✓ SAP customers had to use Adobe Document Server (ADS)
  - ✓ Provided fully composed, ready to print documents – so no Unicode or barcode font can
  - ✓ But many customers were still using SAPScript and SmartForms, so documents print ready were
- ✓ Features were added to make it easier for SAP admins (SAP admin) to more easily create printer definitions
- ✓ Easier for admins to synchronise printers across many SAP systems
- ✓ Worked with LRS to create an API to manage printers - The EOS Replicate script was created - SAP printers can be managed directly from VPSX with no manual SAP interaction

### Acronym / Terminology

ADS = Adobe Document Server

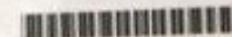
Document Composition Solution for SAP



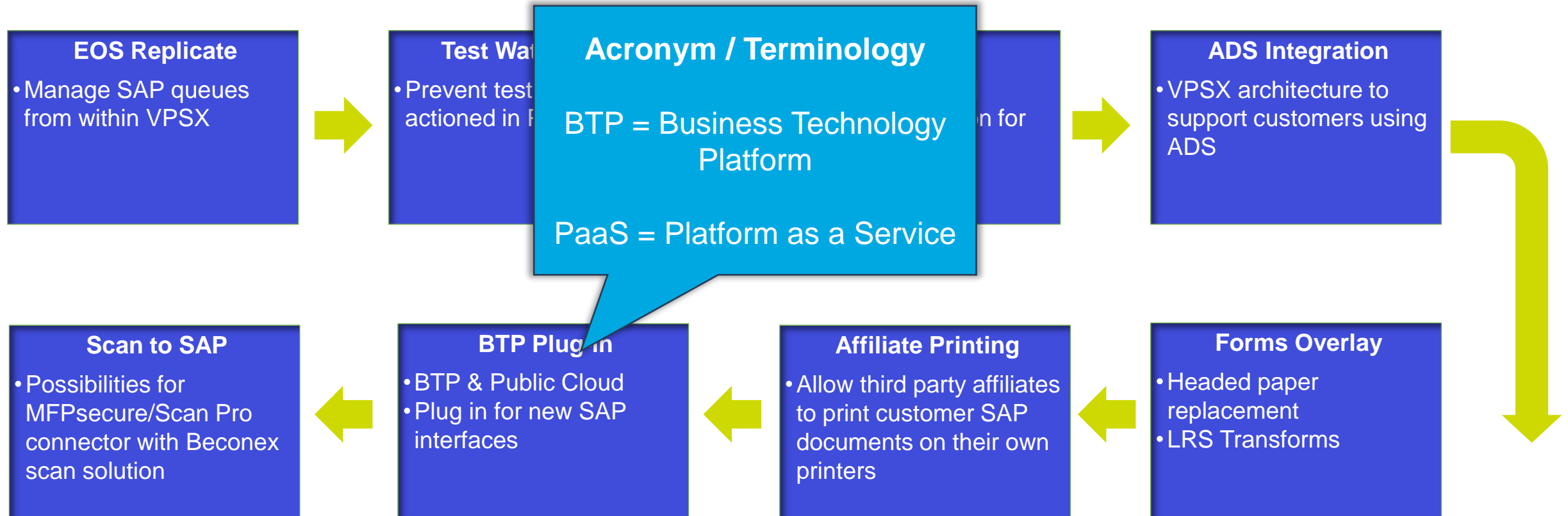
SAP Standardised on ADS  
SAP Creates Fully Composed Documents  
LRS / SAP Created a Printer Synchronisation Function

社外品名 : NALC02350 S11100  
指図番号 : 1001556818  
品目 : 10231326  
ロット : 0002466704  
売日 : 2006/04/18  
計画数量 : 20,000 EA  
プラント : 1107  
指図タイプ : P101  
MRA管理者 : M12  
製造計画担当 : M12

Mie Factory  
プロセス指図 (内部採番)  
Slurry (F)  
Slurry (F)  
歩留数量 : 20,000 EA



## LRS Continually Added Value and Functionality





## EOS Replicate

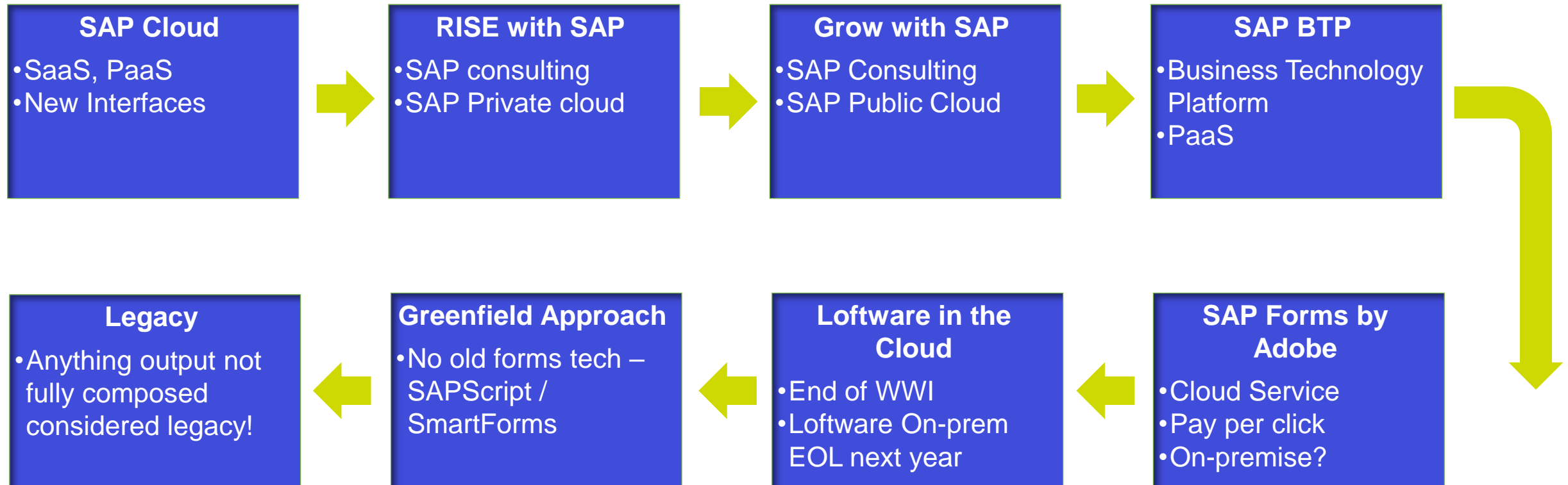
- Automatic SAP printer definitions in all systems
  - No time required from SAP Basis for printer definitions
  - New Printers or changes are available within minutes
  - Can be bound into your internal IMAC/D processes
- Reduction of time of SAP Basis and programming to zero for output issues
  - Projects no longer disrupted by daily troubleshooting of output issues
  - Its like getting 25% more staff.
- Assured Delivery
  - SAP Output no longer goes missing or is duplicated



## Affiliate Printing

- Support for Third Party SAP Printers
  - Business partners access the customer SAP systems
  - Business partners have their own IT print infrastructure
  - Internet only access is available for the partners printers
- SAP Infrastructure Simplification
  - Business partner VPN's are no longer required for every location that requires the function of SAP print
  - No specialist port openings are required
- SAP Delivery Enablement
  - Business partners can print critical SAP customer labels and documents to their own printers (third-party printing)

## But NOW its all about S/4HANA and the Cloud



## ADS and Business Suite 7 Changes



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

- It is pay per use (also preview) click charge
- Customers will have to change to “SAP Forms by Adobe” which is a BTP service
- Will there be an OnPremise possibility?



**SAP standard documents for both Adobe Document Services AND SmartForms/SAPScript will also be out of support.**

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

## And what is with Labels

- SAP are working with Loftware to create a new Cloud based Global Label Management solution (GLM), which may, or may not have a document delivery component.
- The GLM target release date is December, 2024
- This will replace the current SAP Windows Word Integration GLM solution





## SAP S/4HANA Migration Strategy



**Brownfield  
Upgrade ECC 6**

**Without existing  
output  
management  
solution**



**Brownfield  
Upgrade ECC 6**

**With existing  
output  
management  
solution**



**Greenfield SAP  
S/4HANA**

**Evaluate what is  
required to support  
Print and Output**

## SAP S/4HANA Implementation

Where?

**Infrastructure  
running SAP**

- On Premise
- S4/HANA Cloud,  
Private (was HEC)

Who?

**Infrastructure &  
Transition  
managed by**

- Company
- Hosting Partner (IaaS)
- Outsourcer (SaaS)
- SAP (SaaS)

What?

**Print  
Infrastructure  
Running SAP**

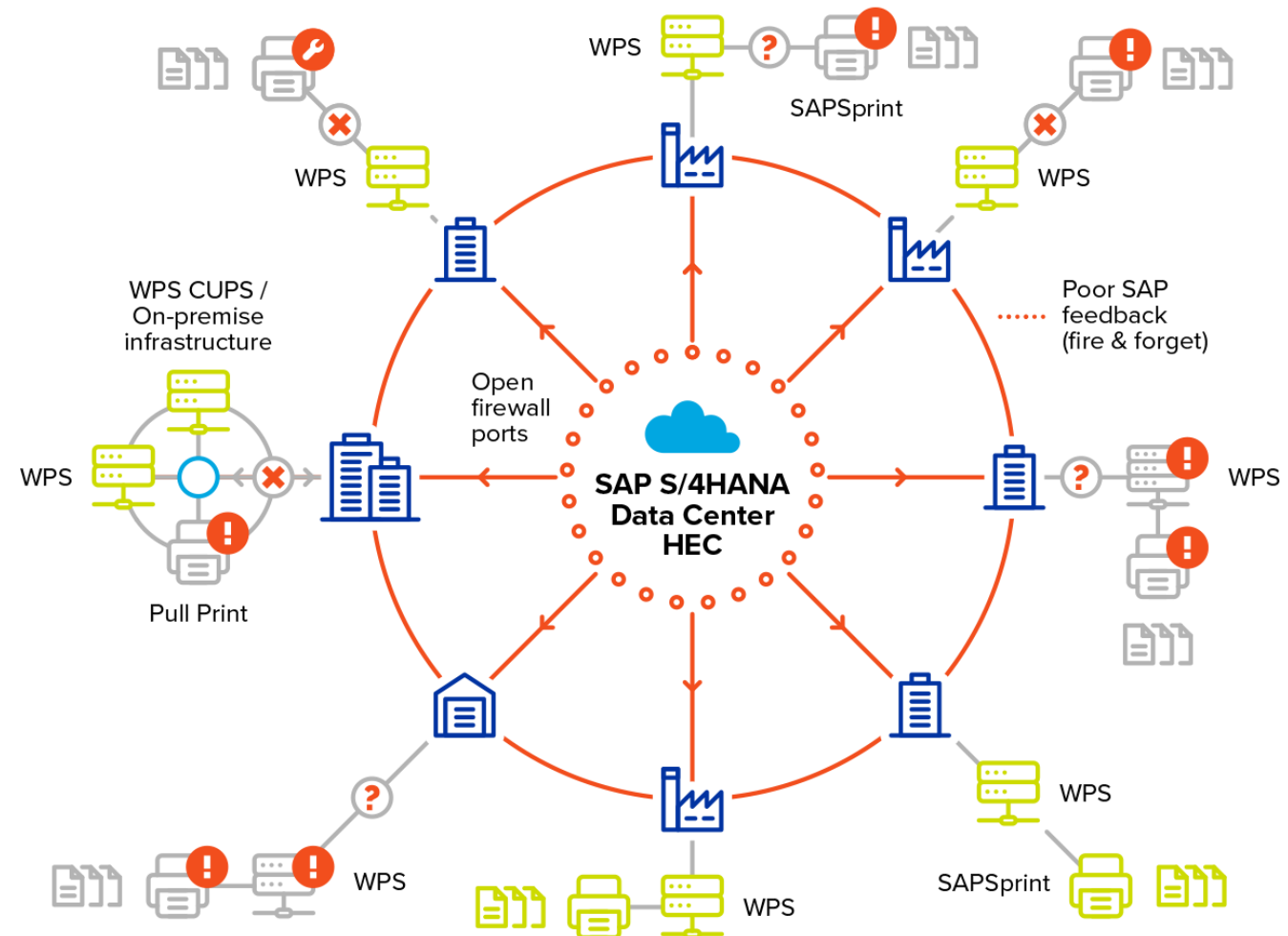
- On Premise
- S4/HANA Cloud,  
Private (was HEC)
- EMS

# Typical SAP Output Environment

## BEFORE

### Typical SAP S/4HANA Cloud for Any-Premise Deployments

- ! Hundreds of firewall port openings
- ! 50+ distributed Windows Print Servers (WPS)
- ! Complex change control (printer add/change/delete)
- ! IT infrastructure / operational complexity
- ! SAP print outages
- ! Increased TCO

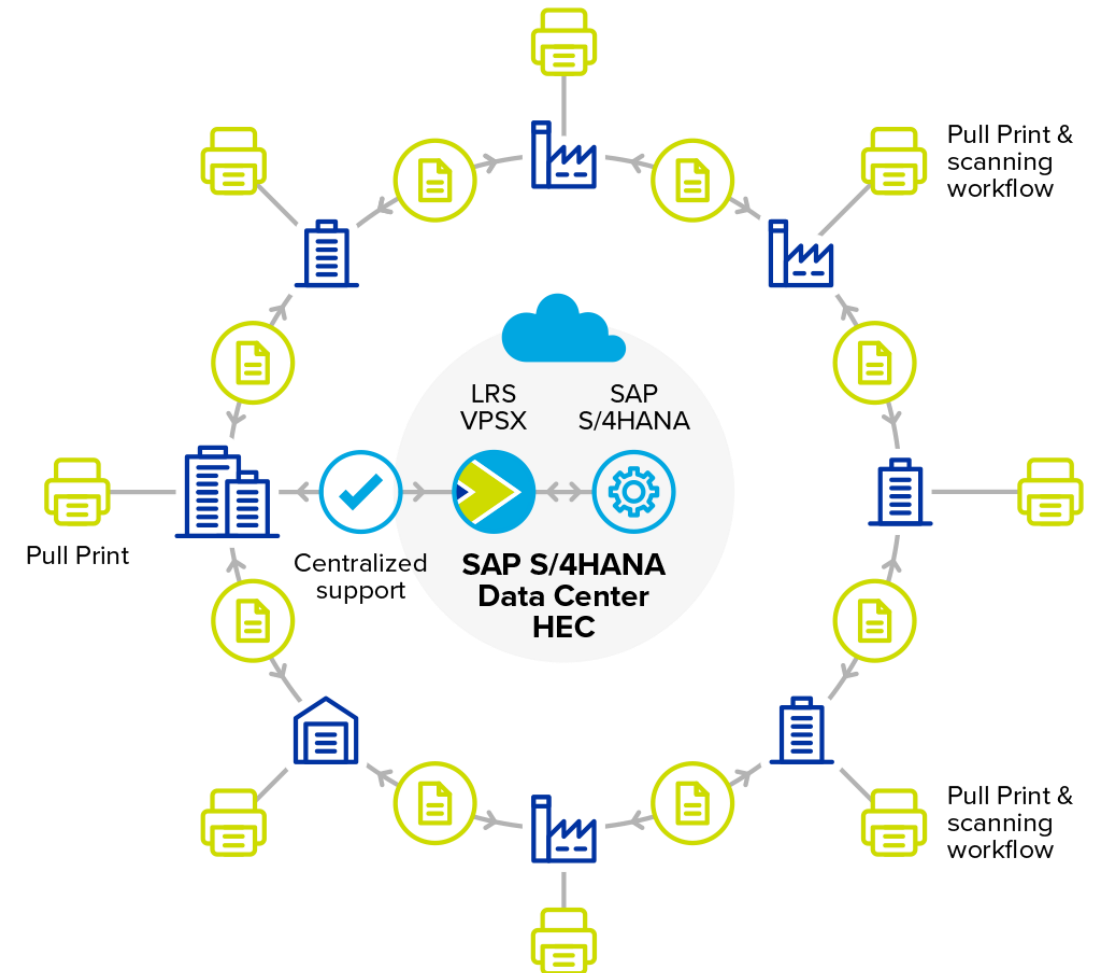


# LRS Output Management for SAP

## AFTER

### LRS Output Management SAP S/4HANA Cloud for On - Premise Deployments

- ✓ Limited firewall port openings
- ✓ Simplified IT infrastructure (no WPS, SAPSprint or CUPS required)
- ✓ 100% SAP print availability
- ✓ Simplified migration
- ✓ SAP print feedback
- ✓ SAP approved
- ✓ Reduced TCO



## What LRS Supports

- ❖ LRS Offers one solution for all locations and SAP offerings (OnPremise, Public Cloud, Private Cloud, and BTP)
- ❖ LRS solutions runs On Premise, in the Cloud or Hybrid and can be run by LRS, the IaaS provider, or the customer

	LRS
SAP	
SAP	
SAP	
SAP Di	
SAP	ing with

The key takeaway here is that no matter what path you wish take with SAP, LRS has a solution for it and an SAP certified integration!

## Key Elements for SAP Greenfield Environments

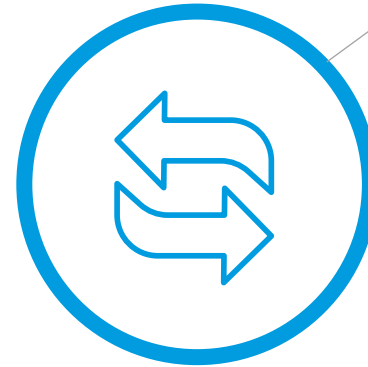
### Barcode & Label Printing (Automation)

- Requires support for devices beyond regular laser printers
- Special barcode formats for Zebra, SATO, Printronix, Toshiba, & others



### Data Transforms

- Offers flexibility in output formats and devices over time
- Enables new document usage without changing base SAP application



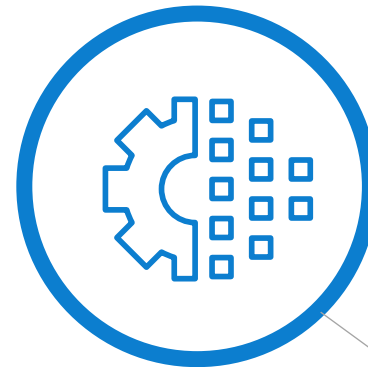
### Forms

- Special formatting to help stakeholders
- Security features (watermarks, etc.)
- New SAP versions will force changes



### Digital Transformation

- Scanning / imaging functions close loop on critical document workflows
- Cloud-ready solution is a key strategic capability



## **So what technical features are related to SAP Legacy Printing - Brownfield?**

- ✓ Critical Production Printing
- ✓ Device Independence of print data
- ✓ Generate Unicode Output on any laser printer
- ✓ Generate Barcodes easily on any laser printer
- ✓ Transform Prescribe (Kyocera Printer Language)
- ✓ Generic device SAPGOFU
- ✓ Replace SIMMS and DIMMS
- ✓ LRS Licensed Fonts because Unix systems are NOT LICENSED for windows fonts

*All Core Capabilities*  
*Assured Print Delivery*  
*Device Independence*  
*LRS Data Transformations*

## Customer Business Values

- ✓ Reduce the Total Cost of Ownership (TCO)
- ✓ Improve the service
- ✓ Prevent document delivery failures impacting business operations
- ✓ Eliminate reliance on costly and virus prone Windows print servers
- ✓ Reduce SAP Basis involvement for Printing





# Reducing the Cost, Improving the Service

One Solution for all SAP editions, offerings and locations

- ✓ BTP Plug in
  - ✓ Internal Development
  - ✓ SAP Offerings like DMC (Digital Manufacturing Cloud)
- ✓ BC-XOM Certification
  - ✓ On Premise
  - ✓ Private Cloud - Works with RISE with SAP
- ✓ Public Cloud plug in
  - ✓ Grow with SAP
- ✓ SAP SuccessFactors ECP (Employee Central Payroll)

*Key Take-away:  
No matter what flavour of SAP,  
LRS has a solution*

## **Reducing the Cost, Improving the Service**

Eliminate reliance on costly and virus prone Windows / CUPS print servers

- ✓ Vertical Scalability, reducing the number of servers required
- ✓ No targeted viruses

LRS Continues to have No requirement for Windows Print Servers or Common Unix Print Systems (CUPS)

## **Reducing the Cost, Improving the Service**

Zero involvement of SAP Basis in daily printing issues and printer definition maintenance

- ✓ Automated management of printer definitions in multiple SAP instances
- ✓ Empowerment of the Help Desk
- ✓ Streamline Forms design (Tray mapping and Finishing Options)
- ✓ According to LRS studies, this will result in a 25% reduction in SAP Basis resources

*Off-load SAP Basis team activities relating to Print*

## **Reducing the Cost, Improving the Service**

Prevent document collection and delivery failures impacting business operations

- ✓ Assured delivery of critical SAP documents
- ✓ Provide On Demand Collection of Print Jobs
- ✓ Provide Integration in Warehouse and Production Line systems

*And Finally,*  
**ENSURING PRINT PROBLEMS DO NOT BECOME BUSINESS PROBLEMS**

Any  
Questions



# LRS Benelux User Group Q&A



# LRS Benelux User Group Lunch

