

LRS User Konferenz 2022 Zürich



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“Cloud-First”

Strategy

“A business guided by a cloud-first approach should always consider cloud computing solutions before anything else when addressing existing or new processes”

Policy

Government based rules that say roughly the same thing





“We are mandated to do (*n*) in the Cloud”

- Run applications
- Store data
- Authenticate
 - Print
 - Pull print
 - Scan

Cloud Initiatives

- What does it mean for your organization?
 - Are you reducing infrastructure?
 - Reducing administrative costs?
 - Both?
- Do you use a Cloud Provider?
- Are you moving Authentication away from traditional providers?
 - Which have you selected?
 - Are you looking at solutions for federation?

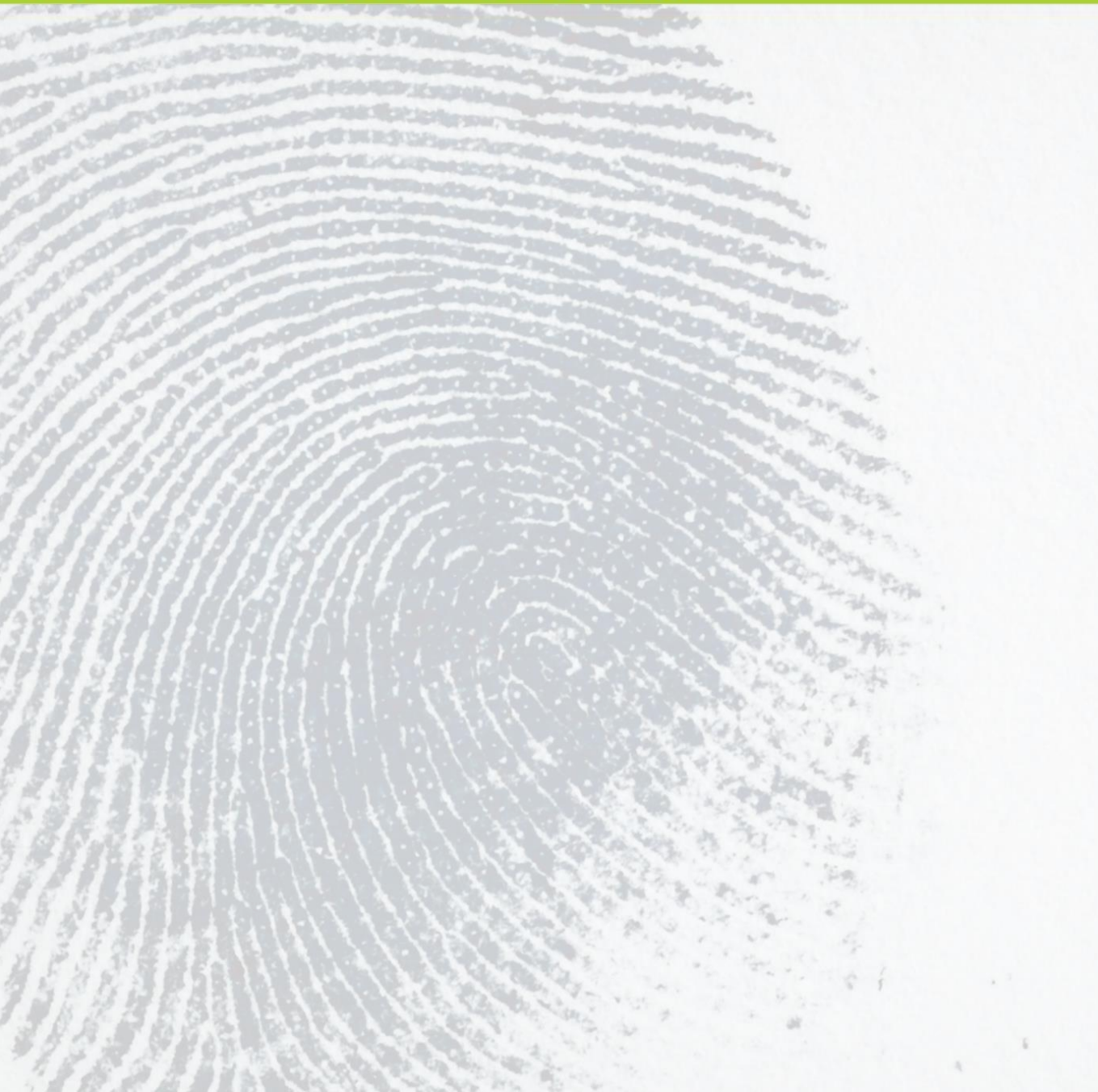
“We are moving to Internet offices”

- Why?
 - Malware distribution prevention
 - Cost of management
 - Failure reduction
- **Hub and spoke network elimination**
- **Castle and Moat Security risk**
- **Decouple Real Estate**



“We’re moving to a Zero Trust strategy”

- BYOD / CYOD
- Intune Endpoint Protection
- Merging with another company or company
 - Security / authentication, network, sharing applications
- Removing requirements for:
 - VPNS
 - Internal Networks
 - Other network infrastructure
- Working with affiliates / partners
- Zero Trust is a concept, not a specification



Authentication

- Be careful to understand what your organization is looking for:
 - Some vendors do not authenticate print at all, they authenticate when logging in to their website, but not at print time
- Every Transaction being both authenticated and encrypted is what Zero Trust really means
- Modern Authentication – Azure AD, Ping, iWelcome, Okta, etc.

“We are implementing a digital workplace”

- Internet and mobile scan are key requirement for many digital workplace projects
- Not just scan to folder or email, but to cloud applications and incorporating scan into corporate workflows
- Many LRS projects in the last year across many verticals (Banking & Insurance, Healthcare, Logistics, Oil & Gas...)





“We want to switch to a SaaS solution”

- Managed and hosted by a third party to allow a customer to focus on core business
- Office 365 apps, CRMs, etc. are widely implemented by corporate customers
- Print and Scan as a service is being requested
- Some point solutions (e.g. Microsoft Universal Print) exist, but with limited function
- Often, the continued flexibility of customized workflows, backend print and planned upgrades is required

LRS Evolution

VPSX V1R1 Released in 2004

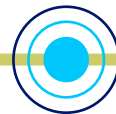
2012

- MFPsecure for HP
- Universal (Mobile) Print Release
- LRS Releases Additional Data Transform Products



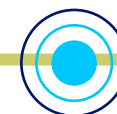
2013

- LRS/AlertX for High Availability
- VPSX Support of Internet Printing Protocol (IPP) over SSL to encrypt data “in motion”
- MFPsecure for Konica-Minolta
- MFPsecure for Sharp
- LRS Acquires Cirrato Technologies AB



2014

- Printer Definition and Deployment Tool (PDDT)
- VPSX Dashboard for Performance Monitoring
- Intelligent Document Bundling (IDB)
- Mobile Printing via iOS App
- PageCenterX/Satellite for Downtime Reporting
- Virtual Session Printer Agent (VSPA) for VDI Printing (XenDesktop)
- MFPsecure for Ricoh
- LRS Releases Additional Data Transform Products



LRS Evolution

VPSX V1R2 Released in 2016

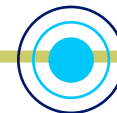
2015

- Direct Secure Release
- VPSX Printer Portal
- Mobile Printing via Android app
- Copy Accounting in Innovate/Audit
- Virtual Printer Session Agent (VSPA) for Virtual Application Printing (XenApp)
- MFPsecure for Canon
- LRS Releases Additional Data Transform Products



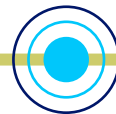
2017

- VPSX Policy (Rules-Based) Printing
- VPSX Support of SNMP V3
- LRS Universal Print Driver (UPD)
- MFPsecure for Samsung
- MFPsecure for Kyocera
- Re-Designed Mobile Printing Apps
- Release V2R1.2 of EOM Mainframe Products



2016

- Mobile Printing via E-mail
- MFPsecure for Lexmark
- MFPsecure for Xerox
- MFPsecure XT
- MFPsecure Card Reader
- LRS Acquires Capella Technologies
- LRS Releases Additional Data Transform Products

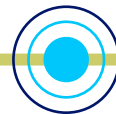


LRS Evolution

VPSX V1R3 Released in 2019

2018

- MFPsecure for Fuji-Xerox
- Support iBeacon technology in VPSX Print Apps and Mobile Connector
- Added analytics capability and improved performance of Innovate/Audit Reporting
- Acquired Drive to add scan workflow solution to product portfolio
- VPSX Windows Migration App
- Device Based Accounting (DBA) for print

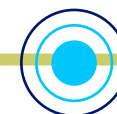


2019

- MFPsecure/Scan and MFPsecure/Scan Pro
- Released VPSX Delegate App
- VPSX V1R3 (new major release for family of products)
- Added support for IPv6 network environments
- Added support for Scan/Fax Device Based Accounting (DBA)"

2020

- Added support for “encryption at rest”
- Expanded support for delegate printing
- Released Apple-Certified Support of AirPrint in Mobile Connector
- Added support for Canon, Fuji-Xerox and Kyocera devices in MFPsecure/Scan and MFPsecure/Scan Pro
- Released new “Affiliate Printing” solution for printing securely over the public internet
- Release new Personal Print Manager (PPM) client for Windows, Mac and Linux desktops
- Added support for Toshiba devices in MFPsecure/Print, MFPsecure/Scan, and MFPsecure/Scan Pro
- Released “MFPsecure/Scan for Mobile”



LRS Internet Printing & Scanning Mission statement 2020:

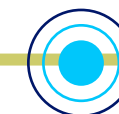
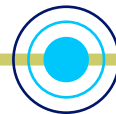


Support every print/scan feature and function that we do today for the on-premise corporate network environment, but enabling the connection between the data center, print devices and users' computing devices to be via the Public Internet.

LRS Evolution

2021

- [Enhanced Affiliate Printing to support USB printers](#)
- Introduced “Guest Printing” solution for Mobile Connector product
- Enhanced pull printing solutions to address additional security requirements using “release restrictions”
- Provide support for non-managed USB/network printers for home office environment with new solution called “PPM Local Delivery”
- [Introduced “Internet Push/Pull Printing and Scanning” solutions to support the evolving workplace](#)
- Extended PPM support of “Direct Secure Release” to macOS & Linux desktops
- Added support for Fujifilm devices in MFPsecure/Print



**LRS
Product
Roadmap**

2022

- [Expanded OIDC authentication to the print device level](#)
- Added support for Fujifilm devices in MFPsecure/Scan
- Expanded auditing in PPM to all supported platforms

Real-world Internet Printing & Scanning Scenarios

Push Printing

Users can quickly find and print from desktop apps.



Pull Printing

Securely print queued documents with a simple badge tap.



Remote Office
Internet Connected Only

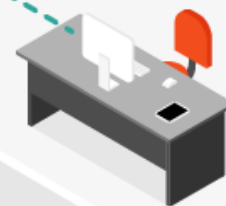
3rd Party Application Printing

Push print from apps running at partners & affiliates.



Business Application Printing

Pull print business documents from a secure output queue.



MFP Scan Workflow

Initiate scan workflows using embedded LRS® software client.



Real-world Internet Printing & Scanning Scenarios

Home Office



Desktop Printing

Extend IT print
audit/compliance to
local user desktops.



Mobile Device Scanning

Scan documents with
any camera-equipped
mobile device.



Business Application Printing

Securely print from
business apps to home
printers via HTTPS.

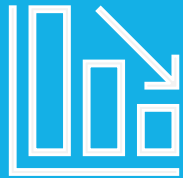
Real-world Internet Printing & Scanning Scenarios

Roaming



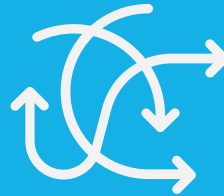
LRS Managed Services

Cost Efficiencies



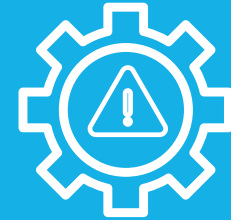
- Staff focused on your core business, not output management
- Predictable subscription-based costs
- Established SLA's promote efficiency & productivity
- Continuous monitoring reduces downtime and service failure costs

LRS Expertise



- IT solutions have become more complex, requiring new skills and proficiencies
- MS Tech's have direct access to LRS product support & development teams
- Established LRS best practices and continuous service improvement plans

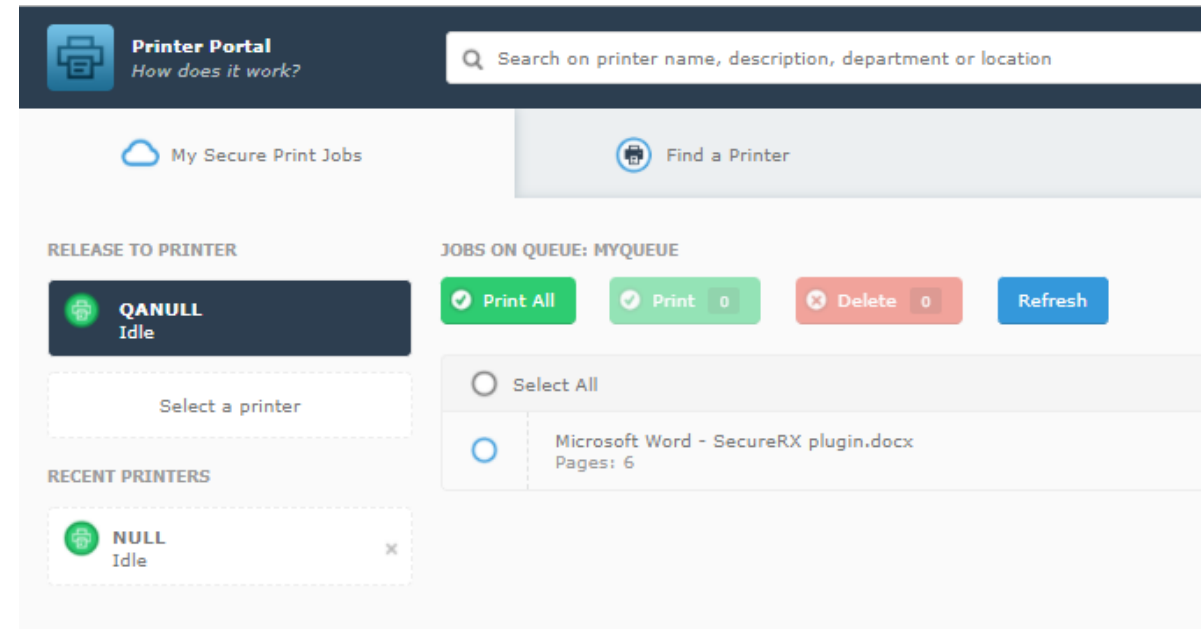
Risk Mitigation



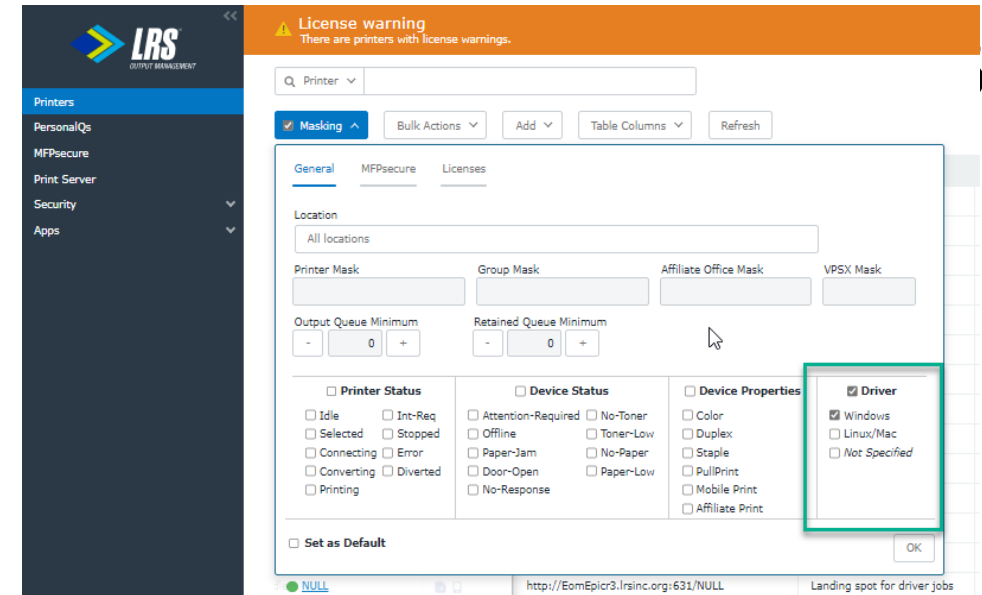
- Continuous monitoring – proactively manage critical business interruptions
- Pre-emptive problem resolution
- Scalable solutions to manage growth and increasing service needs

VPSX R3

- VPSX V1R3 release through Release 28
 - Updates to the Printer Portal
 - Jobs can be selectively released via the Web Portal



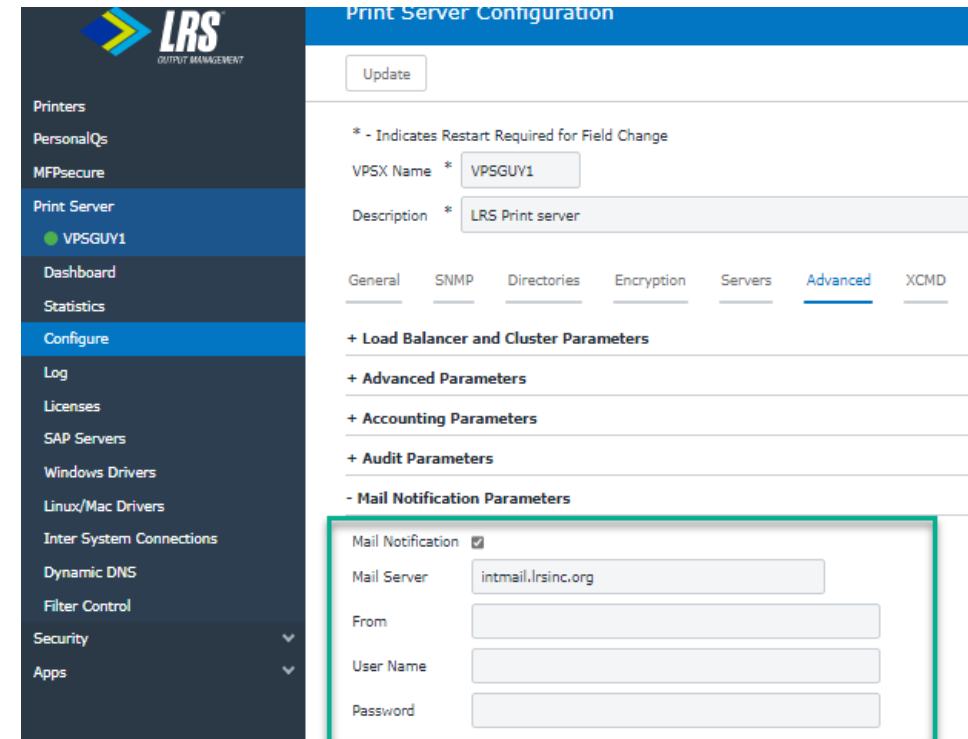
- Updates to the UI
 - Increased masking ability – Drivers
 - This helps admins understand which drivers are assigned to queues.



Printer Information	Properties	Printer URL	Printer Long Name	Queued	Retained	Driver	Printer Driver
336X		http://EomEpic3.lrsinc.org:631/336X	test for dennis & dave	0	0	Windows Driver	Linux/Mac Driver
CANON		http://EomEpic3.lrsinc.org:631/CANON		0	0	HP Universal Printing PCL 5 (v5.9.0) <+> Version (06/17/2014,61.170.01.18326)	
EPIC		http://EomEpic3.lrsinc.org:631/EPIC	Test Epic conversion	1	0	Lexmark Universal v2 <+> Version (01/08/2016,2.15.0.0)	generic.ppd
EPIC-BATCH		http://EomEpic3.lrsinc.org:631/EPIC-BATCH	Landing spot for batch	0	0	LRS Universal Printer Driver (1.1.0.19) <+> Version (01/09/2020,1.1.0.19)	
EPIC2		http://EomEpic3.lrsinc.org:631/EPIC2	Test Epic conversion	1	0	Lexmark Universal v2 <+> Version (01/08/2016,2.15.0.0)	generic.ppd
EPIC3		http://EomEpic3.lrsinc.org:631/EPIC3	Test Epic conversion	1	0	HP LaserJet 5	generic.ppd
EPIC4		http://EomEpic3.lrsinc.org:631/EPIC4	Test Epic conversion	1	0	HP LaserJet 5	generic.ppd
EPICNULL		http://EomEpic3.lrsinc.org:631/EPICNULL	EPICNULL	0	4	Lexmark Universal v2 <+> Version (01/08/2016,2.15.0.0)	generic.ppd

VPSX R3

- More dynamic configuration change requiring less need for restart
- When any of these fields are updated, the VPSX server no longer needs to be restarted



The screenshot displays the LRS Print Server Configuration interface. The left sidebar shows the navigation menu with 'Print Server' selected, and 'VPSGUY1' highlighted. The main content area is titled 'Print Server Configuration' and includes an 'Update' button. A note states: '* - Indicates Restart Required for Field Change'. The configuration fields are as follows:

- VPSX Name: * VPSGUY1
- Description: * LRS Print server

Navigation tabs include General, SNMP, Directories, Encryption, Servers, **Advanced**, and XCMD. The 'Advanced' tab is active, showing several expandable sections: '+ Load Balancer and Cluster Parameters', '+ Advanced Parameters', '+ Accounting Parameters', '+ Audit Parameters', and '- Mail Notification Parameters'. The 'Mail Notification Parameters' section is expanded and highlighted with a green border, showing the following fields:

- Mail Notification:
- Mail Server: intmail.lrsinc.org
- From:
- User Name:
- Password:

- SNMP updates
 - Timeout
 - Community Name

VPSX R3

The screenshot shows the 'Printer Configuration' interface for a Canon printer. The left sidebar contains a navigation menu with 'Print Server' selected. The main content area is titled 'Printer Configuration' and includes an 'Update' button and a 'Cancel' button. Below these are fields for 'Printer Name *' (CANON), 'VPSX ID *' (VPSGUY1), and 'CommType *' (TCP/IP/PJL). At the bottom, there are tabs for 'Basics', 'Licenses', 'SNMP', 'Filters', and 'Advanced'. The 'SNMP' tab is active, showing a checked 'SNMP' checkbox, 'SNMP Version' set to 'Server Default', and 'SNMP timeout' set to '2'. Below this, the 'SNMP v1' section is partially visible.

The screenshot shows the 'Print Server Configuration' interface. The left sidebar contains a navigation menu with 'Print Server' selected. The main content area is titled 'Print Server Configuration' and includes an 'Update' button. Below this are fields for 'VPSX Name *' (VPSGUY1) and 'Description *' (LRS Print server). At the bottom, there are tabs for 'General', 'SNMP', 'Directories', 'Encryption', 'Servers', 'Advanced', 'XCMD', and 'Trace'. The 'SNMP' tab is active, showing a checked 'SNMP Status Monitoring' checkbox and 'SNMP Poll Interval' set to '30 seconds'. Below this, there is a section for 'Select the default SNMP version' with radio buttons for 'SNMP V1' (selected) and 'SNMP V3'. Under 'SNMP v1 Server Defaults', there is a field for 'SNMP Community Name' (masked with dots). Under 'SNMP v3 Server Defaults', there are fields for 'User name' (admin), 'Authentication protocol' (None), 'Authentication type' (Plain text passphrase string), 'Authentication passphrase', 'Privacy protocol' (None), 'Privacy type' (Plain text passphrase string), 'Privacy passphrase', and 'Context Name'.

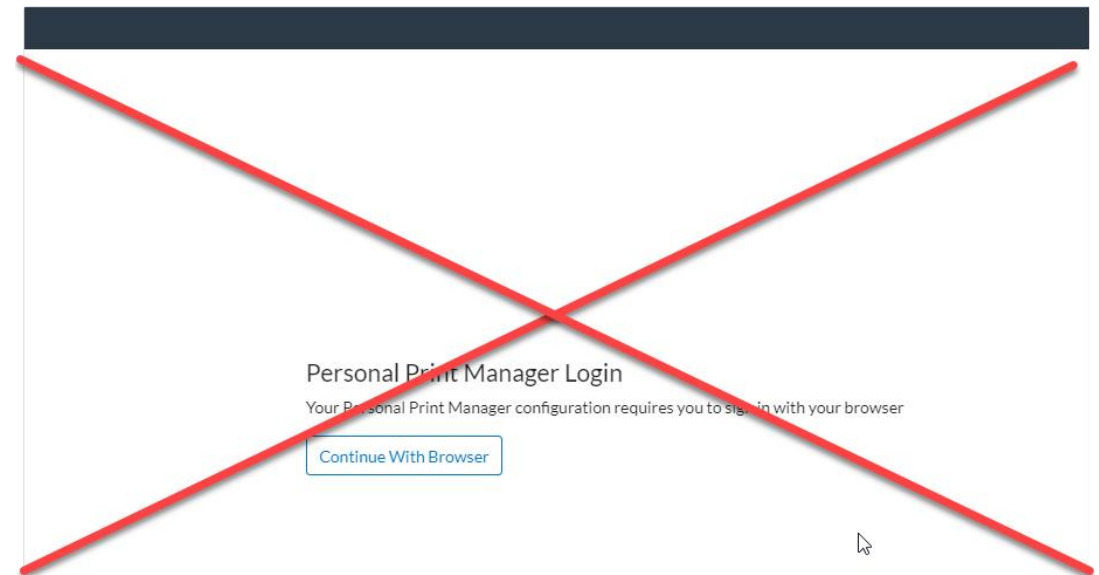
VPSX R3

- Security and Performance Updates
- Update of the OpenSSL level to 1.1.1n
 - OpenSSL is used for several different encryption methods, and keeping it current reduces vulnerabilities, though LRS usage makes these things unlikely
- IPP performance updates
 - This has been a comprehensive theme for several releases as IPP is becoming more the print method of choice throughout the industry

LRS/Gateway V1R3.012

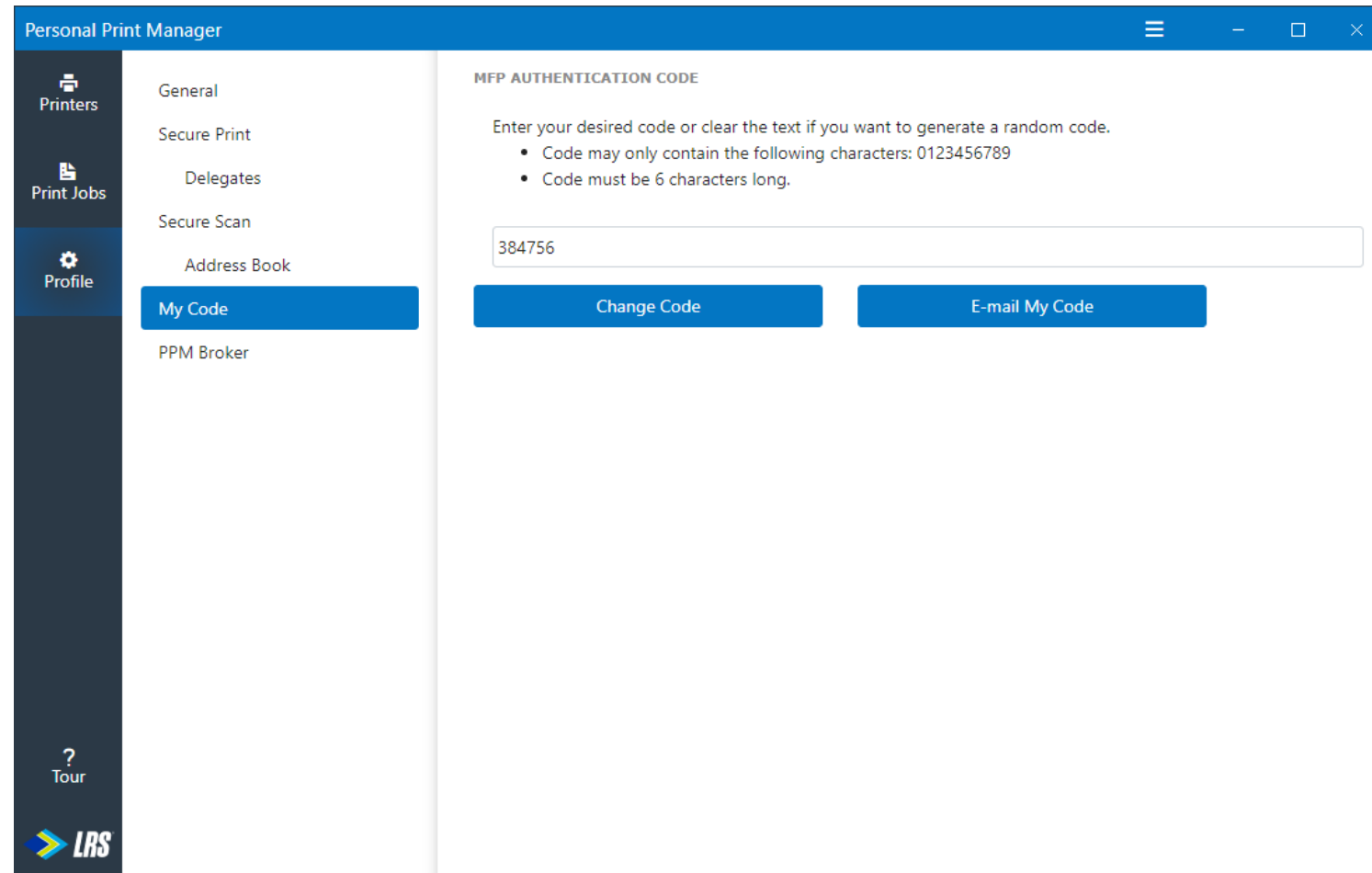
Personal Print Manager V1R3.020

- Better SSO handling for Windows
 - When SSO is in play, no browser window appears
 - Note that this is Windows centric



LRS/Gateway V1R3.012 Personal Print Manager V1R3.020

- Support for MyCode



LRS/Gateway V1R3.012

Personal Print Manager V1R3.020

- Added support for SecureScan agents
 - These agents were normally handled by MFPsecure tasks. As with many internet-only capabilities, this has moved to the LRS/Gateway
- Addition of TLS AD / LDAP support
 - Improved network security when LRS/Gateway is using AD or LDAP as the authentication authority

Upcoming V1R3 Enhancements

- Enhancements for HP Off Printer Agent (OPA) performance
- Guest Printing API functions (delivered with V1R3.029)



Innovate Audit Reporting Simplified Administration

Innovate/Audit

HW09999.LRSINC.ORG

Dashboard

Configure

Audit Processor

Log

Audit Processor

Update

Version 15.00.2000

Database Name innovate2

Server Name HW09999\SQLEXPRESS01

Encrypt Trust Server Certificate

Test connection

Administration

Advanced



Cost Model



Add

Modify

Delete

Cost Model
Paper
Environmental
Redaction

Name	Mono Cost	Color Cost
default	0.015	0.12
HP Universal Printing PCL 5 (v6.1.0)	0.015	0.188
Lemark Universal V2	0.015	0.12
Xerox GPD PS V3.7.469.9.0	0.015	0.12



Innovate Audit Reporting Simplified Administration

Administration

Advanced

- Cost Center Settings

costCenterAttribute

L,department

costCenterCache

7

costCenterDefaultValue

Not Set

costCenterSep

/

costCenterSource

0

costCenterValidation

+ Department Settings

+ Domain Settings

+ Redaction Settings

+ Storage Settings

+ System Settings

+ User Settings



Innovate Audit Reporting **Reduced complexity**

- Remove dependency on SSIS
 - Replaced with LRS native C# service
 - Greatly improved logging
- Remove requirement for SQL Agent Tasks
 - Replaced with Windows Scheduled Task (like Accounting Service)
 - Tells processor service to start audit load and associated processes
- Remove requirement for SQL Standard and SQL Enterprise*
 - Yes, it will work with SQL Express and Azure SQL!
 - * Cube (Standard or Enterprise) required for Excel direct access pivot function



Innovate Audit Reporting Improved Logging

Innovate/Audit Log

Audit Processor Log

```
23 Jun 2022 08:41:00 IAPD0000I <$LOG$
23 Jun 2022 08:41:00 IAPD0000I <$LOG$
23 Jun 2022 08:41:00 IAPD0000I <$LOG$
23 Jun 2022 08:41:00 IAPD0000I <$LOG$
23 Jun 2022 08:41:00 IAPD0000I <$LOG$
23 Jun 2022 08:41:00 IAPD0001I <$CORE$
23 Jun 2022 08:41:00 IADP0003I <$APICORE$
23 Jun 2022 08:41:01 IADP0003I <$APICORE$
23 Jun 2022 08:41:01 IAPD0000I <$MAINS$
23 Jun 2022 08:41:26 IAPD0000I <$MAINS$
23 Jun 2022 08:42:08 IAPD0000I <$MAINS$
23 Jun 2022 08:42:08 IAPD0000I <$MAINS$
23 Jun 2022 08:42:08 IAPD0000I <$MAINS$
23 Jun 2022 08:42:09 IAPD0000I <$MAINS$
23 Jun 2022 08:42:10 IAPD0000I <$MAINS$

> ----- Innovate Audit Processor SYSTEM STATISTICS -----
> PROCESSOR VERSION(0.1.0.1 - (23 Jun 2022 08:41:00)) STARTED(23 Jun 2022 08:40:57)
> SERVER      DNS(HW09999)
> MEMORY     CURRENT(40.42MB) MAX(40.42MB)
> CLIENT     THREADS(29)
> ----- Innovate Audit Processor SYSTEM STATISTICS -----
> Starting Innovate Processor Service 0.1.0.1
> Innovate Processor API 0.9.9.9
> Listening on port 5709
> Developer Mode
> Request from ::1 - /API/Version
> Request from ::1 - /InnovateProcessor/Settings/ConnectionString/Get
> Request from ::1 - /InnovateProcessor/Settings/ConnectionString/Test
> Request from ::1 - /InnovateProcessor/Settings/DBSettings
> Request from ::1 - /InnovateProcessor/CostModel/Models/ReadAll
> Request from ::1 - /InnovateProcessor/Settings/ConnectionString/Get
```




Innovate Audit Reporting Improved Logging

Innovate/Audit Log

Audit Processor Log

```

03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000050 IL0000 368 HP AC Print No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000050 IL0000 370 HP AC Print for XT No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 369 HP AC Scan No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 367 HP Mobile Connector No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 362 HP output Central for EI No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 363 HP output Central for OM No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 364 HP output Central for MI No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000000 IL0000 365 HP VSPA No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 366 HP IDB No
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > SUCCESSFULLY FINISHED PROCESSING PRODUCT LICENSE FILE - C:\LRSROOT\lrsoskey.lic
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > THE FOLLOWING KEYS WERE SELECTED
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Type Expiration Count CustID Key Product Name HostVer Host Name
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > -----
03 Aug 2022 08:38:36 ADX00018I <$MAIN$ > Trapped 05Nov2022 000100 IL0000 191 Innovate/Audit No
03 Aug 2022 08:38:36 ADX00030I <$MAIN$ > KEYADX KEY - CUSTID(IL0000) COPIES(100) EXPIRATION(NOV 05 2022) STATUS(TRAP)
03 Aug 2022 08:38:36 ADX00248I <$MAIN$ > KEYWORD ENCRYPTION - CONFIGURATION (NONE)
03 Aug 2022 08:38:36 ADX00245I <$MAIN$ > INITIALIZED CRYPTOGRAPHIC LIBRARY - OpenSSL 1.1.1d 10 Sep 2019
03 Aug 2022 08:38:36 ADX08282E <$MAIN$ > TLS/SSL SERVER REQUESTED BUT NO SSLCHAINFILE PARAMETER FOR CERTIFICATE
03 Aug 2022 08:38:36 ADX00010I <$MAIN$ > $CDSP$ THREAD ATTACHED TID(000002D8)
03 Aug 2022 08:38:36 ADX00010I <$MAIN$ > $IMP$ THREAD ATTACHED TID(000002EC)
03 Aug 2022 08:38:36 ADX00252I <$CDSP$ > OPENED API PORT - IPV4
03 Aug 2022 08:38:36 ADX00010I <$MAIN$ > $EXPR$ THREAD ATTACHED TID(000002F8)

```



Innovate Audit Reporting Improved Logging

```
16 May 2022 17:28:04 IAPD0001I <$CORE$      > Starting Innovate Processor Service 0.1.0.1
16 May 2022 17:28:05 IAPD0003I <$APICORE$   > Innovate Processor API 0.9.9.9
16 May 2022 17:28:06 IAPD0000I <$MAIN$     > Listening on port 5708
16 May 2022 17:28:23 IAPD0000I <$MAIN$     > Starting Processor
16 May 2022 17:28:23 IAPD0002I <$PROCESSOR$ > Innovate Processor 1.0.0.0
16 May 2022 17:28:23 IAPD0002I <$PROCESSOR$ > Machine Name : HW09399
16 May 2022 17:28:23 IAPD0000D <$MAIN$     > Created Processor 'server=e4263vm07;database=innovate2;integrated security=true;'
16 May 2022 17:28:23 IAPD0002I <$PROCESSOR$ > Starting process
16 May 2022 17:28:23 IAPD0000D <$MAIN$     > RunOnce: StartUpOrderList.json
16 May 2022 17:28:23 IAPD0000D <$MAIN$     > Loaded StartUpOrderList.json containing 16 orders
16 May 2022 17:28:24 IAPD0000D <$MAIN$     > SQL Server Information
16 May 2022 17:28:24 IAPD0000I <$MAIN$     > SQL SRV Name : E4263VM07
16 May 2022 17:28:24 IAPD0000D <$MAIN$     > Product Name : Microsoft SQL Server 2017 (RTM)
16 May 2022 17:28:24 IAPD0000D <$MAIN$     > Edition      : Developer Edition (64-bit)
16 May 2022 17:28:24 IAPD0000D <$MAIN$     > Engine       : ENTERPRISE
16 May 2022 17:28:24 IAPD0000I <$MAIN$     > DB Version   : 14.0.1000.169
16 May 2022 17:28:24 IAPD0000D <$MAIN$     > SQL Version Passed
16 May 2022 17:28:24 IAPD0000I <$MAIN$     > Check Database Schema
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Database configured for SSIS, dbo.dataWareHouseProcess is present
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Check Database Schema Failed
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Error processing StartUpOrderList.json
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Error: SSIS processing is enabled
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Stop on Error
16 May 2022 17:28:24 IAPD0000E <$MAIN$     > Process terminated
```



Innovate Audit Reporting **New data retention options**

- Redact User Name - Username will be set to *****redacted*****
- Redact File Name - Filename will be set to *****redacted*****
- Remove Extended Data -Extended Data, Extended Data 2, Printer uData, Udata, SAP, Mail, & AFP data will be set to defaults
- Remove Records after - Remove entire print record from Fact_Job table
- Remove Orphans Clean up record space to remove items no longer required
If enabled, runs on a defined schedule monthly

Settings are individually configurable: X Days after print create date



Innovate Audit Reporting **Built in data management options**

Customer Requirements - Large Data Sets

- Our database now has half a billion records HELP!
- We don't need records older than 3 years

Remove Records after

- Remove entire print record from Fact_Job table
- Set RemoveRecord to 1095 Days

Remove Orphans

- Clean up record space to remove items no longer required
- Set RemoveOrphans to 1 (resource intensive - runs monthly)



Innovate Audit Reporting **Built in data management options**

Customer Requirements example - Data Protection

compliance reporting but have an internal GDPR requirement to delete them after 90 days

- Only need user level reporting for 180 days
- Require base information for 2 years

GDPR means we have to

- Filenames required for remove all records older than 4 years

Set RemoveFileName to 90

Set RemoveUser to 180

Set RemoveExtendedData to 730

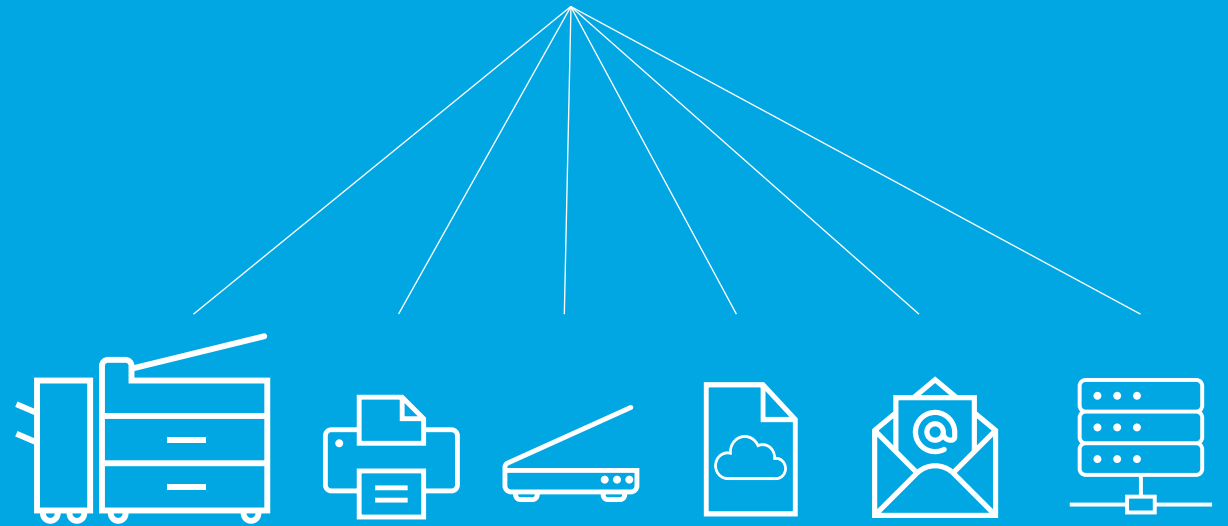
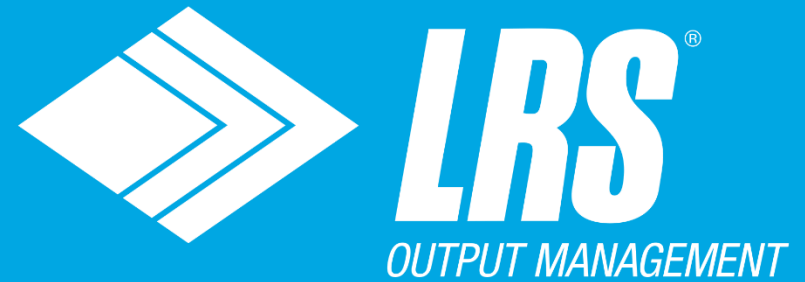
Set RemoveRecord to 1460



Innovate Audit Reporting **Additional data sources**

- Gateway User Information Lookup
 - Use Gateway API for User, Department, and Cost Center Lookups
- Active Directory
 - Directory Services (AD-DS)
 - Application Directory Services (AD-LDS)
- UDATA Department and Cost Center Lookups
 - Use UDATA fields 1-16 for Department and/or Cost Center information

Printing from S/4 HANA Public Cloud



Complete visibility and control over your entire printing environment – any document, any platform, any destination



Recap - VPSX Output Manager

- Is the LRS integration for SAP printing for all SAP ABAP stack and dual stack-based printing
- Interface is fully described in SAP documentation for BC-XOM
- VPSX Output Manager certified by the ICC with SAP S/4HANA
- Only systems with access to SAP ABAP stack can use BC-XOM
- SAP Spool only runs on ABAP stacks



SAP Systems without BC-XOM (No SAP Spool)

- SAP public cloud distribution (S/4HANA (ES) – Essentials)
- SAP DMC (Digital Manufacturing Cloud - Manufacturing Execution System in the Cloud)
- SAP MES (on premise – can ONLY print through a local CUPS system)
- A New interface has been created and is certifiable by SAP ICC
 - **S4HC-ES-PRINT-OMS**, available in two flavors
 - Communications Scenario 0466
 - Communications Scenario 0467
 - **BTP-PRINT-OMS** the new SAP Business Platform (same tech spec as above)



Communications Scenario 0466

Basic Polling from customer server to SAP Cloud

- First call gets an efficient checkpoint URL
- That URL goes invalid if new work arrives
- SAP Definition requires, Communication User, Communication Password, queue name, PDL for Queue



Communications Scenario 0467

Basic Notification service from SAP to customer server

- A notification URL is configured in the SAP cloud system
- A post is made to this URL when new print jobs are available
- SAP Definition requires, Communication User, Communication Password, User and Password for *outgoing* communication, Notification URL, queue name, PDL for Queue
- Network connectivity (typically a reverse proxy) is required between SAP cloud system and LRS component



SAP Cloud – Default Printing Options

SAPCPRINT – SAP Cloud Print

- SAP written software running at the customer site that polls the SAP Cloud systems for new print jobs and downloads those print jobs. In the SAP cloud systems, there are different named queues for output, assigned to and accessible through Communication Users. SAPCPRINT maps those queues to particular windows print queues for each defined Communication User
- AFAWK SAPCPRINT is communication Scenario 0466 only (polling)
- Throughput figures published by SAP ICC show that SAPCPrint is quite slow. An example being 7000 1 page PDF in a single queue, would take 5 hours 40 minutes to transfer (20 pages per minute).



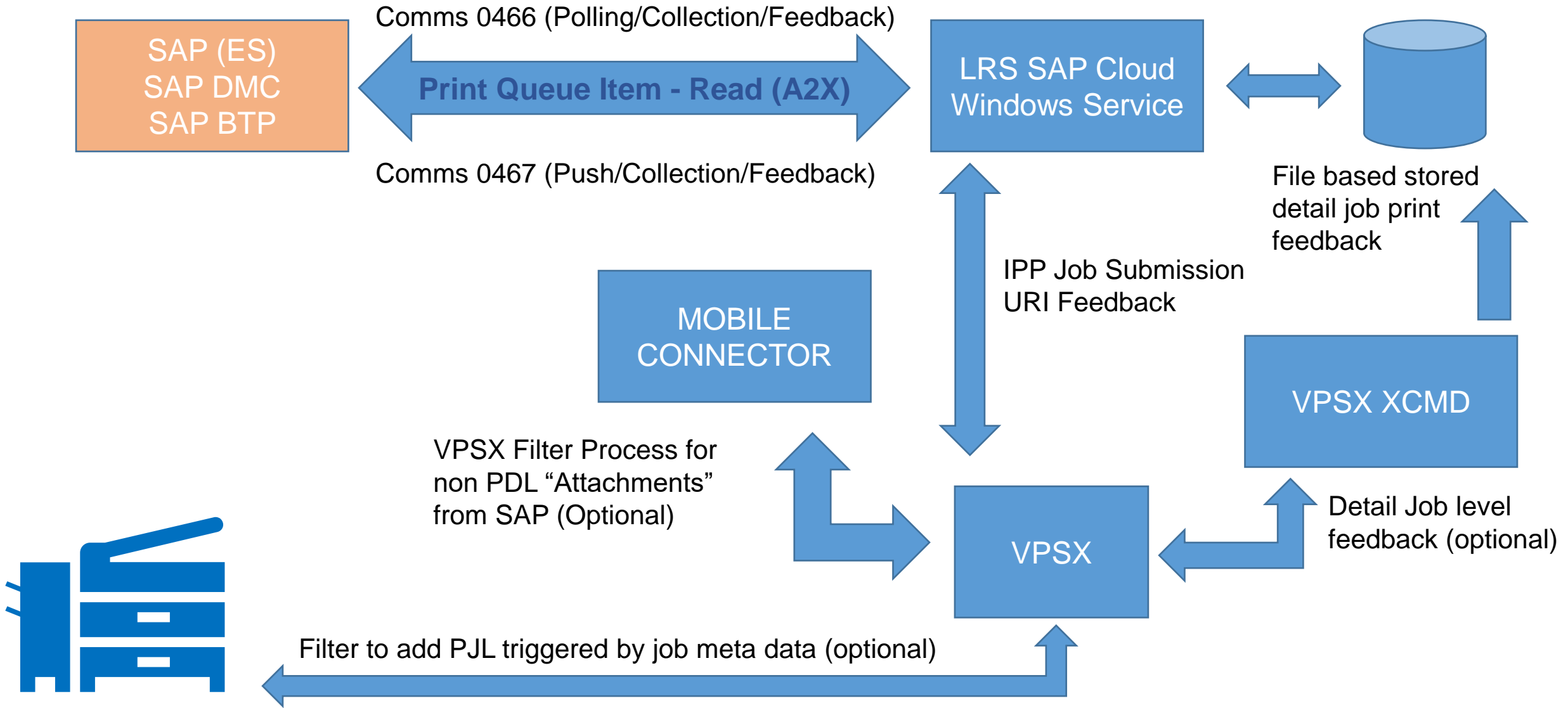
What is printed from the SAP Cloud?

The output is available in a wide variety of PDL's

- PDF (1.6 - Adobe 7.0, **Adobe LifeCycle Designer ES 9.0** – clearly ADS)
- CAB 203 dpi, CAB 300 dpi
- Datamax 203 dpi, Datamax 300 dpi, Datamax 406 dpi, Datamax 600 dpi
- HP LaserJet 4350 PCL 5e, HP LaserJet 4350 PS
- PCL 5c (Color), PCL 5e (Monochrome)
- Intermecc 203 dpi, Intermecc 300 dpi, Intermecc 400 dpi
- Lexmark T644 PCL 5e, Lexmark T644 PS
- PostScript 2, PostScript 3
- Toshiba 203 dpi, Toshiba 305 dpi, Toshiba 600 dpi
- XMLDATA
- Zebra 203 dpi, Zebra 300 dpi, Zebra 600 dpi



Prototype S/4HC-ES-PRINT-OMS





Implementation Details

23 Jul 2022 19:19:28 SCPS0001I <\$CORE\$
23 Jul 2022 19:19:30 SCPS0001I <\$CORE\$
23 Jul 2022 19:19:30 SCPS0002I <\$Cache\$

23 Jul 2022 19:19:32 SCPS0000I <\$MAIN\$
23 Jul 2022 19:19:32 SCPS0000I <Feedback
23 Jul 2022 19:19:33 SCPS0002I <\$Cache\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$
23 Jul 2022 19:19:33 SCPS0040I <\$DLM\$

> Starting SAP 4/HANA Cloud Print Service 1.0.0.0
> Communication Scenario Selected is S466
> Running Worker for IONAS_COMMSUSER001 on
<https://my302346-api.s4hana.ondemand.com>
> IcmCacheResponse Valid
> Feedback Thread Starting
> First Run ignoring 19000101000000
> Queue IONAS_ZEBRA added to download manager
> Queue IONAS_VIEW added to download manager
> Queue IONAS_ATTACHMENT added to download manager
> Queue IONAS_FOLLOW_ME added to download manager
> Queue IONAS_VIEW2 added to download manager
> Queue IONAS_NPI1496AB_MONO added to download manager
> Queue IONAS_XML added to download manager
> Queue IONAS_PS added to download manager
> Queue IONAS_HOLDQ added to download manager
> Queue IONAS_NPI1496AB added to download manager



Implementation Details

Standard_IONAS* ▾

Go Hide Filter Bar Filters (1)

Status: Print User: Failed Items: Queue:

Queues (16) New Change Delete Pause Restart Manage Print Profiles Migrate

<input type="checkbox"/> Queue	Description	Status	Print User	Items	Failed Items	Queue Size	Format	Print Queue Type
<input type="checkbox"/> IONAS_ATTACHMENT	Attachment testing	Resume	IONAS_COMMSUSER001	0	0	0 Byte	PDF	OMS for Pull Integration Queue >
<input type="checkbox"/> IONAS_FOLLOW_ME	Traditional Local Follow Me - Currently Business user is blank use Alias	Resume	IONAS_COMMSUSER001	105	1	6.34 MB	PDF	OMS for Pull Integration Queue >
<input type="checkbox"/> IONAS_HOLDQ	LOGICAL HOLD	Resume	IONAS_COMMSUSER001	127	1	7.66 MB	PDF	OMS for Pull Integration Queue >



Implementation Details

< SAP Print Queue ▾



Standard_IONAS* ▾

Go Hide Filter Bar Filters

Main Document: From: Created On:

IONAS_HOLDQ (LOGICAL HOLD)

7.66 MB
Queue Size

Format: PDF

[Resume](#)

Items: 127

Retention Period: 255 Days

Last Retrieval On: Thu Apr 28 2022 15:36:47 GMT+0200 (Mittleuropäische Sommerzeit)

Items (127)

Delete Reassign Modify Status Create Test Page

<input type="checkbox"/>	Main Document	Number of Copies	From	Status	Item Size	Created On	Attachments
<input type="checkbox"/>	Test Page	1	Ken Ratliff	successful	60.34 KB	Tue Apr 26 2022 15:38:08 GMT+0200 (Mittleuropäische Sommerzeit)	
<input type="checkbox"/>	Test Page	1	Ken Ratliff	failed	60.34 KB	Tue Apr 26 2022 11:56:22 GMT+0200 (Mittleuropäische Sommerzeit)	
<input type="checkbox"/>	Test Page	1	Ken Ratliff	pending	60.34 KB	Wed Apr 27 2022 11:23:51 GMT+0200 (Mittleuropäische Sommerzeit)	



Implementation Details

Items (127) Delete Reassi

<input type="checkbox"/>	Main Document	Number of Copies	From	Status	Item Size	Created On
<input type="checkbox"/>	Test Page	1	Ken Ratliff	successful	60.34 KB	Tue Apr 26 2022 15:38:08 GMT+0200 (Mittleuropäische Sommerzeit)
<input type="checkbox"/>	Test Page	1				22 11:56:22 GMT+0200 (Mittleuropäische Sommerzeit)
<input type="checkbox"/>	Test Page	1	Ken Ratliff	pending	60.34 KB	Wed Apr 27 2022 11:23:51 GMT+0200 (Mittleuropäische Sommerzeit)

Print Manager Status

26-04-2022 22:41:27 Printed or Delete after Print Job.expired.from.retained.queue

The 5 SAP statuses are:

- New - Not yet collected by LRS
- Transmitted - Collected by LRS, but not yet in VPSX
- Pending - Non-permanent status (e.g. QUEUED)
- Failed - Error status (e.g. HOLD-ERROR)
- Successful - Permanent status (e.g. PRINTED, PRINTED AND RETAINED)



Example print with issue

<input type="checkbox"/> Test Page	1	Ken Ratliff	failed		60.34 KB	Mon Aug 01 2022 11:48:50 GMT+0200 (Mittleuropäische Sommerzeit)
				Print Manager Status		
				Printer IONAS_HOLDQ is not defined		

Corrected:

<input type="checkbox"/> Test Page	1	Ken Ratliff	successful		60.34 KB	Mon Aug 01 2022 11:52:44 GMT+0200 (Mittleuropäische Sommerzeit)
				Print Manager Status		
				JOB_PRINTED_RET_PRINTER(IONAS_HOLDQ)		



Implementation Details

01 Aug 2022 11:48:54 SCPS0002I <\$Cache\$ > Status has changed 20220801094850.58
01 Aug 2022 11:48:54 SCPS0000I <IONAS_HOLDQ > Download started https://my302346-api.s4hana.ondemand.com/
01 Aug 2022 11:48:55 VAPI0001E <IONAS_HOLDQ > 1 - Printer IONAS_HOLDQ is not defined
01 Aug 2022 11:48:55 SCPS0000I <IONAS_HOLDQ > Downloaded 92.16 kb at an average rate of 92.16 kb/s. Nr of jobs in batch - 1
01 Aug 2022 11:48:56 SCPS0000I <IONAS_HOLDQ > S4/HANA updated FA163E13E0D61EED84AFE4A90F884F54 - Printer
IONAS_HOLDQ is not defined
01 Aug 2022 11:48:56 SCPS0000I <IONAS_HOLDQ > Download complete
01 Aug 2022 11:52:47 SCPS0002I <\$Cache\$ > Status has changed 20220801095244.902
01 Aug 2022 11:52:48 SCPS0000I <IONAS_HOLDQ > Download started https://my302346-api.s4hana.ondemand.com/
01 Aug 2022 11:52:48 VAPI0001I <IONAS_HOLDQ > Test Page Bytes(60344) ipp://HW09788:631/IONAS_HOLDQ/21314780
01 Aug 2022 11:52:48 SCPS0000I <IONAS_HOLDQ > Downloaded 92.16 kb at an average rate of ∞ kb/s. Nr of jobs in batch - 1
01 Aug 2022 11:52:49 SCPS0000I <IONAS_HOLDQ > S4/HANA updated FA163E13E0D61EED84AFF622173F9056 -
ipp://HW09788:631/IONAS_HOLDQ/21314780
01 Aug 2022 11:52:49 SCPS0000I <IONAS_HOLDQ > Download complete
01 Aug 2022 11:52:50 SCPS0000I <IONAS_HOLDQ > S4/HANA updated FA163E13E0D61EED84AFF622173F9056 -
JOB_PRINTED_RET_PRINTER(IONAS_HOLDQ)



Implementation Details

21 Jul 2022 14:43:59 SCPS0001I <\$CORE\$ > Starting SAP 4/HANA Cloud Print Service 1.0.0.0
21 Jul 2022 14:44:00 SCPS0001I <\$CORE\$ > Communication Scenario Selected is S467
21 Jul 2022 14:44:00 SCPS0002I <\$W84Notify\$ > Running Worker for IONAS_USERCOMMS002 on <https://my302346-api.s4hana.ondemand.com>
21 Jul 2022 14:44:00 SCPS0000I <Feedback > Feedback Thread Starting
21 Jul 2022 14:44:00 SCPS0002I <\$W84Notify\$ > Listening on https://*:21000/SAPCP/

21 Juli 2022 16:22:36 SCPS0002I <\$W84Notify\$ > Pull Request received from [a808:2123:c105:62a5:d116:6397%22]:60710 Post Data was validated
21 Juli 2022 16:22:38 SCPS0040I <\$DLMS\$ > Queue IONAS_NOTIFICATION_PRINT added to download manager
21 Juli 2022 16:22:38 SCPS0040I <\$DLMS\$ > Queue IONAS_PULLPRINT added to download manager

11 Juli 2022 16:24:00 VAPI0001I <IONAS_PULLPRINT > IONAS_ATTACHMENT#SAP Testpage Printer#000005.pdf Bytes(60344) ipp://HW09788:631/IONAS_PULLPRINT/21314718
11 Juli 2022 16:24:00 VAPI0001I <IONAS_PULLPRINT > IONAS_ATTACHMENT#SAP Certification.pptx Bytes(200788) ipp://HW09788:631/IONAS_PULLPRINT/21314719
11 Juli 2022 16:24:01 SCPS0000I <IONAS_PULLPRINT > S4/HANA updated FA163E13E0D61EECB1A920E7FFDB44D7 - ipp://HW09788:631/IONAS_PULLPRINT/21314719
11 Juli 2022 16:24:01 SCPS0000I <IONAS_PULLPRINT > S4/HANA updated FA163E13E0D61EECB1A920E7FFDB44D7 - ipp://HW09788:631/IONAS_PULLPRINT/21314718
11 Juli 2022 16:24:02 VAPI0001I <IONAS_PULLPRINT > IONAS_ATTACHMENT#Dummy PDF file#000001.pdf Bytes(13264) ipp://HW09788:631/IONAS_PULLPRINT/21314720
11 Juli 2022 16:24:02 VAPI0001I <IONAS_PULLPRINT > IONAS_ATTACHMENT#SAP Certification.ps Bytes(474188) ipp://HW09788:631/IONAS_PULLPRINT/21314721
11 Juli 2022 16:24:02 SCPS0000I <IONAS_PULLPRINT > S4/HANA updated FA163E13E0D61EECB1A923AAB4BE84F6 - ipp://HW09788:631/IONAS_PULLPRINT/21314720
11 Juli 2022 16:24:02 SCPS0000I <IONAS_PULLPRINT > S4/HANA updated FA163E13E0D61EECB1A923AAB4BE84F6 - ipp://HW09788:631/IONAS_PULLPRINT/21314721



LRS Throughput, Scaling, HA

- Internal Tests showing roughly 1000% (10 times) faster than ICC reports on SAPCPrint
 - 230 Jobs per minute per queue (60344 Bytes)
 - 152 Jobs per minute per queue (183055 Bytes)
- Limiting Factor appears to be Internet bandwidth and IO maximum throughput available on an image
- Active / Active should not be configured with the same communication user / queues
 - Possible to scale using different communications user and queues



SAP MetaData

- Print Job meta data is available, contains only number of copies, print in color, start-page and end-page (ALL), at present, this will expand...
- For ownership, no business user ID is available! (Comms user is available)
- VPSX Filters and Transforms can enable pull print/accounting, transforms other device types and set finishing options such as Duplex/Simplex, Color/Mono, Staple, Paper size, etc



Availability

- Prototype is available now for beta testing
- GA
 - LRS will consider adding to VPSX V1R4, with additional license type (different to Output Manager)
- SAP
 - Certification will be completed prior to GA

LRS User Konferenz 2022 Zürich



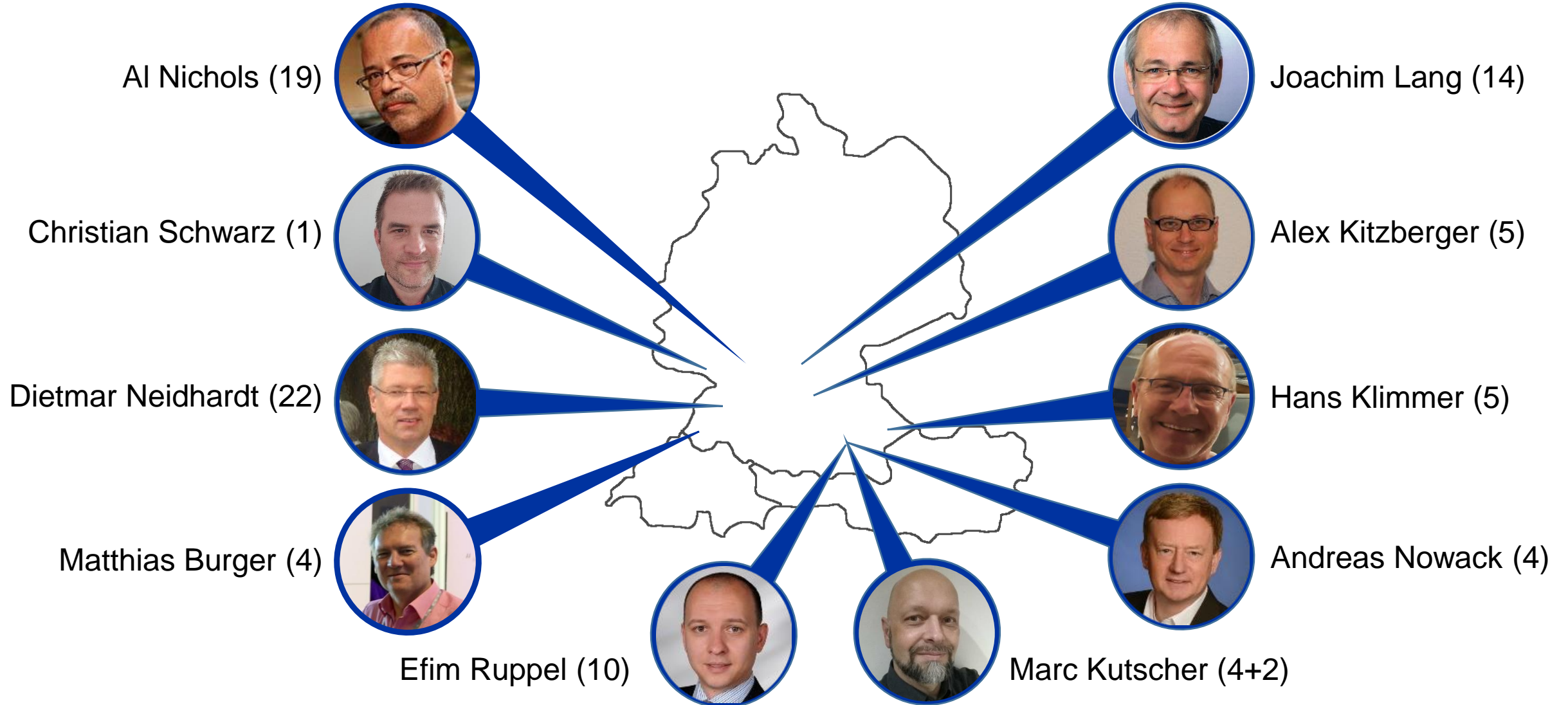


EMEA Central Consulting

Was wir tun

- Pre-Sales Support für LRS Software
 - Kundenpräsentationen, Kundenberatung, Ausschreibungen, PoCs, ...
- Post-Sales Support für LRS Software
 - Produktimplementierungen, Skripterstellung, Schulungen, Extended Engineering, Managed Services Support, ...
- Produktdokumentationen
 - Pre- und Post-Sales z. B. HLD/LLD, Produktpräsentationen, Betriebshandbücher, interne Dokumentationen, ...
- Projektmanagement
 - Pre- und Post-Sales Projektmanagement und -dokumentation

Das EU Central SE/PM Team





Serviceprojekte in DACH

Großes Logistikunternehmen



Anonymes Scannen mit MFPsecure/Scan

- Ein großes Logistikunternehmen wollte an Lagerstandorten (ca. 170), wo die Benutzer keine IT-Kenntnisse und keine Benutzerkonten haben, anonyme (ohne Benutzeranmeldung) Scan-Workflows auf den Multifunktionsgeräten nutzen.
- Jede Logistikregion sollte aus dem Unternehmens-LDAP ihre eigene Auswahlliste der Empfänger Adresse für Scan2E-Mail haben. Die Nutzer sollen nur die für ihre Region passenden Empfänger sehen.
- Wir nutzten das VPSX „Standort“ Feld der VPSX Druckerdefinitionen, um die bestehenden LDAP-Filter zu erweitern, so dass nur ein einziges Scan-Profil für LDAP notwendig war, um an allen Standorten automatisch die jeweils passende Adressliste anzuzeigen.

Secure Scan 10.0.255

File Edit Tools ?

Profiles

- Disabled
- Not deployed (3)
 - eArchive_full
 - Scan2folder
 - Telekom Liefers
- eArchive
- KTA
- Scan2email (custom)
- Scan2email (personal)

Index Fields

Instantly index your scanned documents after defining which index fields are available to the user on the device panel. And use your data for specific tasks depending on the field type. For example, use a folder select field as a destination folder.

Input

Processing

>> Scan2email (personal) << Index Fields

Display	Description	Type	Input is mandatory
LDAP-Search		LDAP Query	No
User A-B		LDAP Query	No
User C-D		LDAP Query	No
User E-F		LDAP Query	No
User G-H		LDAP Query	No
User I-K		LDAP Query	No
User L-N		LDAP Query	No
User O-Q		LDAP Query	No
User R-T		LDAP Query	No
User U-Z		LDAP Query	No

LDAP E-mail Query

Data Source: AD

Filter: &schser.DC=com)(memberOf=CN=OG-MID((CLIENT:DeviceLocation).5.3)-Users,OU=GroupsOG,OU=IDM,OU=MGMT,OU=SERV,DC=

Krankenversicherungen



IMAC/D – Automatisches Installieren, Verschieben, Hinzufügen, Ändern oder Entfernen von Druckern (Install, Move, Add, Change or Decommission)

- Wenn ein neues Multifunktionsgerät bestellt und ins Bestandsverwaltungssystem eingetragen wird, wird automatisch ein Change Request erzeugt.
- Ist dieser abgearbeitet (der Drucker ist physisch vorhanden und angeschlossen und konfiguriert) kann entweder das Change Request oder Bestandsverwaltungssystem eine E-Mail mit dem Namen des Druckers an eine spezielle Verarbeitungswarteschlange in VPSX senden, wo die Informationen von einem Filterprozess ausgewertet werden.
- Das Ergebnis dieser Filter-Verarbeitung ist, dass der Drucker in VPSX angelegt und auch MFPsecure/Print und/oder MFPsecure/Scan inkl. der zugewiesenen Workflows ausgerollt ist.
- Damit wird der Prozess des Ausrollens von Druckern in VPSX, inkl. Anlegen, Verschieben, Hinzufügen, Ändern und Entfernen, vollständig automatisiert.
- Da spezielle Anforderungen an die Gerätesicherheit und die Anordnung der Symbole auf den Gerätedisplays bestanden, haben wir in Zusammenarbeit mit HP den Prozess mit dem HP Web Management Werkzeug „Web Jetadmin“ verbunden. So können wir HPWJ beauftragen, verschiedene Templates auf den Druckern zu installieren, nachdem unsere Komponenten ausgerollt wurden.

Bauunternehmen



Nahtlose Ersetzung von analoger Faxübertragung

- Von den Baustellen müssen Bestellungen per Fax versendet werden und der Sendebereich wird zum rechtskräftigen Nachweis benötigt. Für diesen Prozess war es notwendig, dass die Multifunktionsgeräte mit Fax-Funktion ausgestattet waren und an analoge Telefonleitungen angeschlossen wurden.
- Mit anderen am Markt verfügbaren digitalen Lösungen wäre es notwendig gewesen, dass sich die Benutzer an einem System anmelden, um den Sendebereich per E-Mail zu erhalten. Da die Benutzer keine IT Kenntnisse und keine Benutzerkonten haben, konnte eine solche Lösung nicht implementiert werden.
- Mit der LRS Lösung haben wir MFPsecure/Scan ohne Login und mit der E-Mail Absenderadresse des Geräts implementiert und so ermöglicht, dass der Sendebereich abschließend vom Fax-System per E-Mail über Mobile Connector for VPSX auf dem Multifunktionsgerät gedruckt wird.
- Mit dieser nahtlosen Integration kann der Kunde auf den Baustellen weiterhin seine klassische Arbeitsweise fortsetzen und trotzdem im Backend einen modernen Cloud basierten Fax Dienst nutzen. Außerdem können so weitere Digitalisierungen im Unternehmen durchgeführt werden. Durch den Wegfall der Fax-Karten in den Multifunktionsgeräten und der teuren Festnetzanschlüsse und deren äußerst aufwendigen Administration werden hunderttausende Euro gespart. Zusätzlich ist es so möglich, an den Verwaltungsstandorten mit regulärer Benutzeranmeldung auf den dort vorhandenen Geräten zu arbeiten.

LRS Projektmanagement

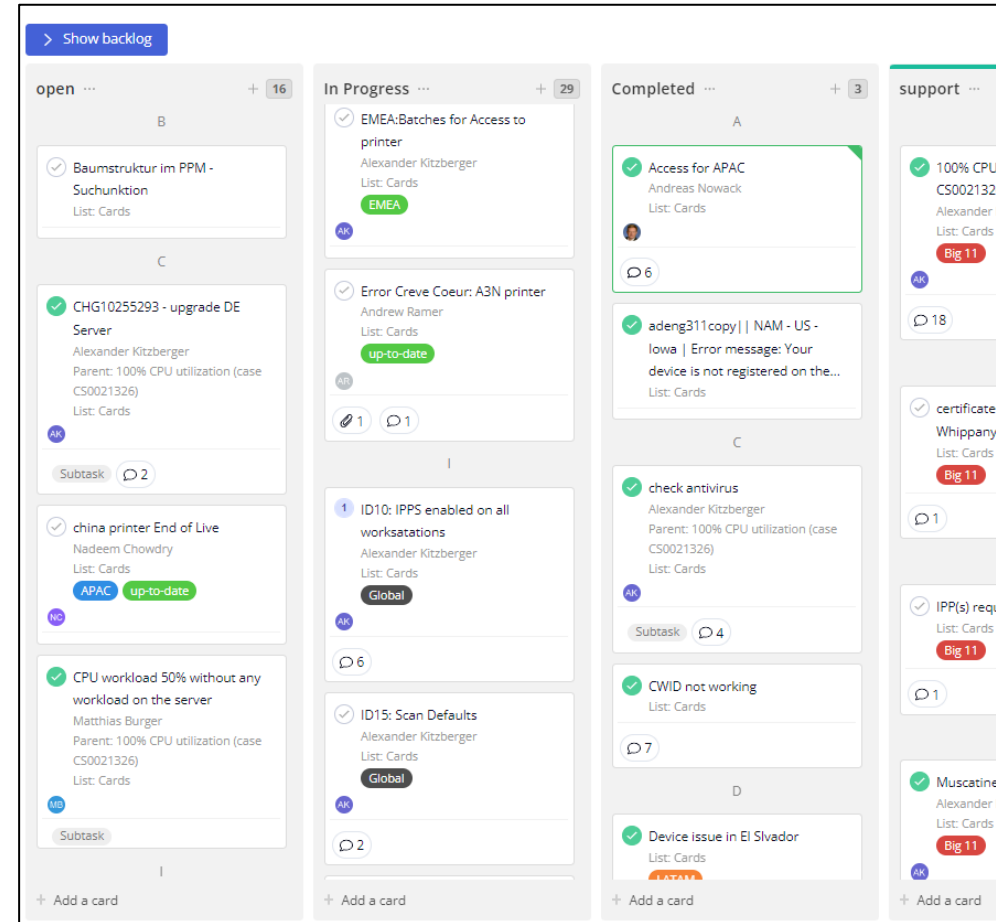
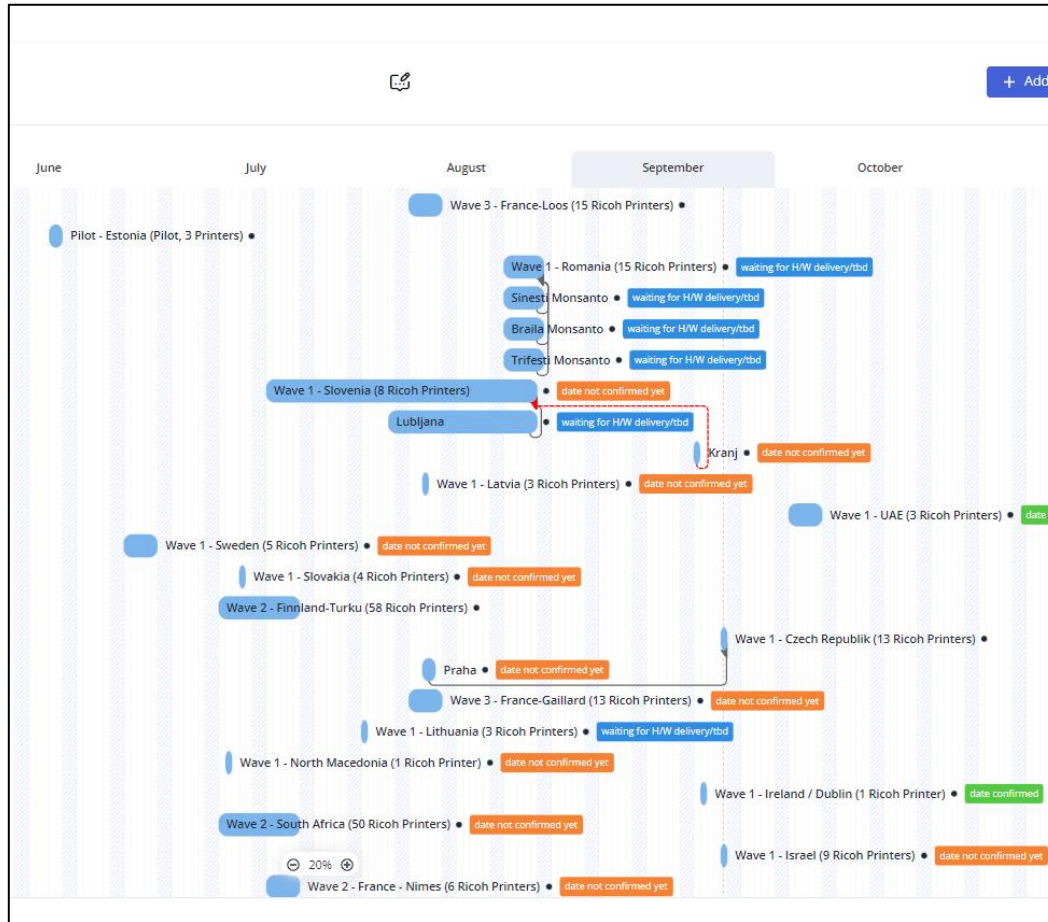
- Projekte im Workplace Environment stellen andere Anforderungen an die Projektumsetzung als bisherige Projekte
- Rollout einer Secure Print / Scan Lösung wird oft kombiniert mit dem Austausch / Aktualisierung der Druckerflotte → enge Abstimmung mit Service Provider erforderlich
- International tätige Kunden erfordern die Fähigkeit, Rollouts über Ländergrenzen und Zeitzonen hinweg zu unterstützen

Ergänzung der bewährten Projektbegleitung durch LRS Experten um gezielte Projektsteuerung / Koordination

LRS Projektmanagement - Vorgehensweise

- Basis:
 - Zertifizierte Prince2 Projektleiter
 - Global aufgestellte Service Organisation
- Auf Erfahrungswerten aufgebaut:
 - Unterstützung bei Planung und Design der Lösung
 - → Stolpersteine rechtzeitig identifizieren und beseitigen
 - Vorbereitung ist die halbe Umsetzung
 - Jede Kundenumgebung ist „einzigartig“
 - Deployment ist mehr als Installation
 - → Tests und Vorbereitung von abgestimmten Konfigurationen (Zertifizierung) vermeiden unliebsame Überraschungen

LRS Projektmanagement - Werkzeuge



LRS Projektmanagement - Werkzeuge

LRS / Customer / MPS / ITO - PROJECT PLANNING & DESIGN (VPSX)							
Project Planning and Infrastructure Design for Customer							
LRS / Customer / MPS / ITO - Initial Project Planning Meeting - xx Month, 20xx - Amended dates xx/xx/20xx (to be scheduled)							
		Task Description	Start Date	Target Date	Finish Date	Responsibility	General Comments
2	EXECUTE SOFTWARE LICENSE AGREEMENT & SOV						
2.1	Software License Agreement fully executed					LRS Sales Team/LRS	Before presenting to MPS or Customer, double check with SE's that all products are included (be it temporary or long term usage).
3	ASSIGN RESOURCES						
3.1	Identify key stakeholder(s) and decision-makers					PMs	Identify all stakeholders by name and job title for ALL parties involved and chart. This is also mentioned in 4.10 but should be done before the project right people into the kick off.
4	PROJECT KICKOFF MEETING (PLS. REF. TO SEC. 5						
4.1	Prepare kickoff agenda and list of questions					PMs	What was learned during pre-sales discussions that needs more discover detail?
5	TOPICS TO BE DISCUSSED IN PROJECT KICKOFF M						
5.1	Location of current data centers					Customer / MPS /	
5.2	Number of regions					Customer / MPS /	
6	IDENTIFY MPS DEVICES (SF / MF)						
6.1	Identify all device models that will be deployed with LRS solution					Customer / MPS / ITO	Identify both SFDs and MFDs. Cross check each device and model against Supported Device list. Unsupported devices will need to be replaced with
11	HIGH LEVEL DESIGN						
11.1	Schedule Architecture Design session(s)					LRS PM	To include all relevant parties (including technical experts of partners/cus
12	LOW LEVEL DESIGN						
12.1	Need to complete the low level design architecture before set up infrastructure for EDM environment					LRS / Customer / MPS / ITO	Description of the "to be" actual server architecture, Detailed server infor requirements, Encryption and security requirements, HA requirements. Typically the LLD should include server addresses, connections, IP ad
13	DEVELOP END USE TEST CASES						
13.1	Identify and create use test scenarios for Pilot and UAT					LRS / Customer / MPS / ITO	

LRS Projektmanagement - Werkzeuge

LRS / Customer / MPS / ITO - LRS ON-BOARDING PROCESS						
LRS On-Boarding Migration RUN-BOOK for Customer						
LRS / Customer / MPS / ITO - Initial Project On-Boarding Run-Book Meeting - xx Month, 201x - Amended dates xx/xx/20xx (to be scheduled)						
1	IDENTIFY TARGET COUNTRY / SITE	Task Description	Start Date	Target Date	Scheduled D	Finish Date/Responsibility (delete as appropriate Cust
1.1	xxxx (Customer BU name)	Target country site location	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
1.2	Printer Device Numbers and Different models to be deployed: xxx / x	Number of devices / models to be deployed	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
1.3	Authentication Card Types to be deployed: x	Card types to be used	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
1.4	Customer site users: xxxxx	Site user	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
2	STAFFING PER COUNTRY / SITE	Task Description	Start Date	Target Date	Scheduled D	Finish Date/Responsibility (delete as appropriate Cust
2.1	On-site presence MPS Provider	Contact data of on-site present person	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
2.2	On-site presence ITO Provider	Contact data of on-site present person	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
2.3	Customer contact person on-site	Contact data of on-site present person	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3	MIGRATION SEQUENCE BATCH PHASES	Task Description	Start Date	Target Date	Scheduled D	Finish Date/Responsibility (delete as appropriate Cust
3.1	Deploy xxxxx printer vendor Devices - Printer Batch 1	Printer vendor device deployment phase 1	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3.2	Deploy xxxxx printer vendor Devices - Printer Batch 2	Printer vendor device deployment phase 2	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3.3	Deploy xxxxx printer vendor Devices - Printer Batch 3	Printer vendor device deployment phase 3	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3.4	Deploy xxxxx printer vendor Devices - Printer Batch 4	Printer vendor device deployment phase 4	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3.5	Deploy xxxxx printer vendor Devices - Printer Batch 5	Printer vendor device deployment phase 5	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
3.6	Close out/acceptance for each batch of devices	Customer site acceptance	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
Note: Steps 3.1 through to 3.6 to be replicated for all printer vendor device deployment phases						
4	STANDARD MIGRATION PROCESS SEQUENCE	Task Description	Start Date	Target Date	Scheduled D	Finish Date/Responsibility (delete as appropriate Cust
4.1	Ensure agreed configuration has been applied to all customer appro	Ref. Tab "Planning&Design"	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.2	Deliver approved manufacture specific device models to Customer c	printer vendor to deploy devices	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.3	Un-pack, setup, connect to network and commission device	printer vendor devices connected to the Custom	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.4	Printer vendor to install the USB card reader and configure for required card types and verify MFD device operation	Configuring/Programming card reader should be done already, printer vendor device available for MPS Provider	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.5	Create VPSX queue and test device status	only applicable if the creation of VPSX print queue was not possible to be done ahead of	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.6	Printer connectivity test / test print	Ensure end-to-end control (E2E)	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.7	Push the MFPsecure embedded agent down onto the device	Deploy MFPsecure agent to device	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.8	Verify printer vendor agent installation	Verify MFPsecure software installation	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.9	Customer user to access the LRS printer portal and select "Pull Print"	Deployment of Pull Print queue	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.10	Pull Print queue definition	The Pull Print queue is defined to the end users c	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.11	Customer to submit a serverless print job to the desktop "Pull Print" q	Customer Pull Print test print submission	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO
4.12	User authenticates and enrolls their card	End user first time Pul Print card enrolment (Or perhaps pre-registration has been done for this site already) above	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx	xx/xx/20xx LRS / Customer / MPS / ITO



Personal Print Manager

Ein Überblick

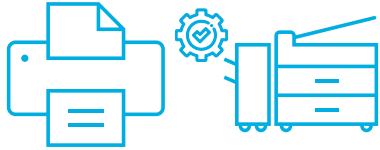


Personal Print Manager

Self-Service Möglichkeiten für Druck- und Scan-Funktionen und Einstellungen



Benutzer



Einfaches Finden, Hinzufügen und Löschen von Druckern auf einem PC



Benutzung grafischer Etagenpläne zur Lokalisierung von Geräten



Steuern der Einstellungen für Sprache, Stellvertreter, Aufbewahrung, etc.



Status des Druckauftrags anzeigen und Löschen des Auftrags, wenn gewünscht



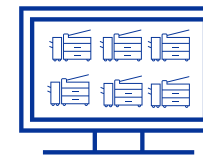
Support Mitarbeiter



Anlegen von unternehmensweiten Druck-Regelwerken, um die Eigenschaften des Drucks zu ändern



Sichere Authentifizierung und Berechtigung der Benutzer mit LDAP, AD und Azure-AD mit SSO



Automatisierte Verwaltung von Druckertreibern



Zentral definierte und verwaltete Geräte und Workflows

**Für Windows, macOS, und zahlreiche
Unterstützte Linux Distributionen**



LRS User Konferenz 2022 Zürich



Personal Print Manager

Drucker

Druckaufträge

Profile

AUFTRAGSTATUS

- Aufträge in Warteschlange
- Aufbewahrte Druckaufträge
- Fehlgeschlagene Druckaufträge

AUFTRAGSTYPEN

- Nur delegierte Druckaufträge

DRUCKAUFTRÄGE FILTERN

- Alle Druckaufträge
- Sicheres Drucken
- Direktdruck

SORTIERUNG DER DRUCKAUFTRÄGE

Neueste zuerst

Suchen Sie nach Dateiname, Druckername oder Benutzer

	Microsoft Word - DACH User Groups - Agenda.docx	
	Gedruckt bis PULLPRINT von 25.09.2022 15:54:19	
	Status: Warten Seiten: 2 Kopien: 1 Größe: 67,42 KB	
	Beispiel1.psb	
	Gedruckt bis MDK_CONVERT1 von 19.05.2022 20:41:38	
	Status: Gedruckt/Fehler Seiten: 1 Kopien: 1 Größe: 178,49 KB	
	Beispiel4.psb	
	Gedruckt bis MDK_CONVERT1 von 19.05.2022 20:32:03	
	Status: Gedruckt/Fehler Seiten: 1 Kopien: 1 Größe: 23,93 KB	
	1457.infile.pdf	
	Gedruckt bis DUMMY von 11.05.2022 10:33:29	
	Status: Gehalten Seiten: 2 Kopien: 1 Größe: 11,64 KB	
	1457.infile.pdf	
	Gedruckt bis MDK_MILL_NOSCRIPPT von 08.05.2022 22:09:02	
	Status: Gedruckt/Fehler Seiten: 1 Kopien: 1 Größe: 5,57 KB	
	Testergebnis_20042022-1.pdf	
	Gedruckt bis PULLPRINT von 03.05.2022 10:49:49	
	Status: Warten Seiten: 3 Kopien: 1 Größe: 458,35 KB	

? Tour



LRS User Konferenz 2022 Zürich



Personal Print Manager

Drucker

Druckaufträge

Profile

Allgemeines

Sicheres Drucken

Bevollmächtigte

Sicheres Scannen

Adressbuch

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?
Tour

LRS

+ Neuen Eintrag hinzufügen

*Hinweis: PPM
Lokale Verteilung
und Roaming
Profile benötigen
LRS/Gateway*

Personal Print Manager

Drucker

Druckaufträge

Profile

AUFTRAGSTATUS

- Aufträge in Warteschlange
- Aufbewahrte Druckaufträge
- Fehlgeschlagene Druckaufträge

AUFTRAGSTYPEN

- Nur delegierte Druckaufträge

DRUCKAUFTRÄGE FILTERN

- Alle Druckaufträge
- Sicheres Drucken
- Direktdruck

SORTIERUNG DER DRUCKAUFTRÄGE

Neueste zuerst

Suchen Sie nach Dateiname, Druckername oder Benutzer

Microsoft Word - DACH User Groups - Agenda.docx

Gedruckt bis PULLPRINT von 25.09.2022 15:54:19

Status: Warten | Seiten: 2 | Kopien: 1 | Größe: 67,42 KB

Herunterladen und auf lokalen Drucker ausgeben

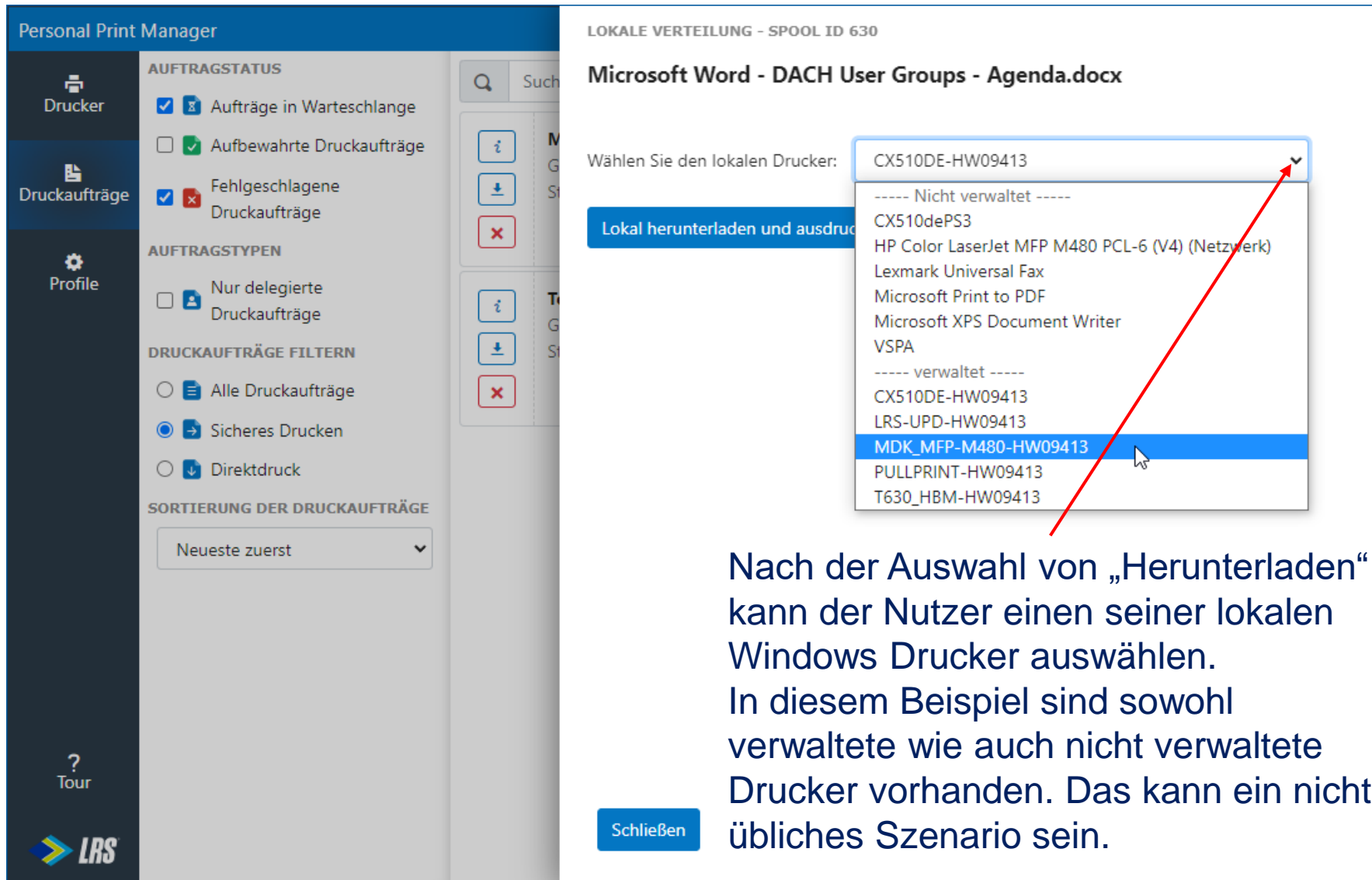
Testergebnis_20042022-1.pdf

Gedruckt bis PULLPRINT von 03.05.2022 10:49:49

Status: Warten | Seiten: 3 | Kopien: 1 | Größe: 458,35 KB

ENDE DER LISTE

?
Tour



The screenshot shows the 'Personal Print Manager' interface. On the left, there is a sidebar with 'Drucker', 'Druckaufträge', and 'Profile'. The main area displays 'AUFTRAGSTATUS' with checkboxes for 'Aufträge in Warteschlange', 'Aufbewahrte Druckaufträge', and 'Fehlgeschlagene Druckaufträge'. Below that, 'AUFTRAGSTYPEN' includes 'Nur delegierte Druckaufträge'. The 'DRUCKAUFTRÄGE FILTERN' section has radio buttons for 'Alle Druckaufträge', 'Sicheres Drucken', and 'Direktdruck'. At the bottom, 'SORTIERUNG DER DRUCKAUFTRÄGE' is set to 'Neueste zuerst'. A search bar and several action buttons (info, download, delete) are visible on the right side of the main area.

The main content area shows a document titled 'Microsoft Word - DACH User Groups - Agenda.docx' with the status 'LOKALE VERTEILUNG - SPOOL ID 630'. A dialog box titled 'Wählen Sie den lokalen Drucker:' is open, displaying a list of printers. The list includes 'CX510DE-HW09413', '---- Nicht verwaltet ----', 'CX510dePS3', 'HP Color LaserJet MFP M480 PCL-6 (V4) (Netzwerk)', 'Lexmark Universal Fax', 'Microsoft Print to PDF', 'Microsoft XPS Document Writer', 'VSPA', '---- verwaltet ----', 'CX510DE-HW09413', 'LRS-UPD-HW09413', 'MDK_MFP-M480-HW09413', 'PULLPRINT-HW09413', and 'T630_HBM-HW09413'. A red arrow points to the 'MDK_MFP-M480-HW09413' printer, which is highlighted in blue. A blue button labeled 'Lokal heruntergeladen und ausgedruckt' is visible to the left of the dialog box.

Nach der Auswahl von „Herunterladen“ kann der Nutzer einen seiner lokalen Windows Drucker auswählen. In diesem Beispiel sind sowohl verwaltete wie auch nicht verwaltete Drucker vorhanden. Das kann ein nicht übliches Szenario sein.

Schließen

The screenshot displays the 'Personal Print Manager' web interface. On the left, a sidebar contains navigation options: 'Drucker', 'Druckaufträge', 'Profile', and 'Tour'. The main area is divided into sections: 'AUFTRAGSTATUS' with checkboxes for 'Aufträge in Warteschlange', 'Aufbewahrte Druckaufträge', and 'Fehlgeschlagene Druckaufträge'; 'AUFTRAGSTYPEN' with a checkbox for 'Nur delegierte Druckaufträge'; 'DRUCKAUFTRÄGE FILTERN' with radio buttons for 'Alle Druckaufträge', 'Sicheres Drucken', and 'Direktdruck'; and 'SORTIERUNG DER DRUCKAUFTRÄGE' with a dropdown menu set to 'Neueste zuerst'. A modal window is open in the foreground, titled 'LOKALE VERTEILUNG - SPOOL ID 630'. It shows the document name 'Microsoft Word - DACH User Groups - Agenda.docx' and a dropdown menu for selecting a local printer, currently set to 'MDK_MFP-M480-HW09413'. Below the printer selection are two buttons: 'Lokal herunterladen und ausdrucken' (highlighted in blue) and 'Abbrechen'. Two green progress bars are shown, both at 100% completion, labeled 'Herunterladen Fortschritt: 100%' and 'Spool-Fortschritt: 100%'. At the bottom of the modal, it states 'Lokale Verteilung abgeschlossen' and includes a 'Schließen' button.

Personal Print Manager

Drucker

Druckaufträge

Profile

Tour

LRS

AUFTRAGSTATUS

- Aufträge in Warteschlange
- Aufbewahrte Druckaufträge
- Fehlgeschlagene Druckaufträge

AUFTRAGSTYPEN

- Nur delegierte Druckaufträge

DRUCKAUFTRÄGE FILTERN

- Alle Druckaufträge
- Sicheres Drucken
- Direktdruck

SORTIERUNG DER DRUCKAUFTRÄGE

Neueste zuerst

LOKALE VERTEILUNG - SPOOL ID 630

Microsoft Word - DACH User Groups - Agenda.docx

Wählen Sie den lokalen Drucker: MDK_MFP-M480-HW09413

Lokal herunterladen und ausdrucken

Abbrechen

Herunterladen Fortschritt: 100%

Spool-Fortschritt: 100%

Lokale Verteilung abgeschlossen

Schließen

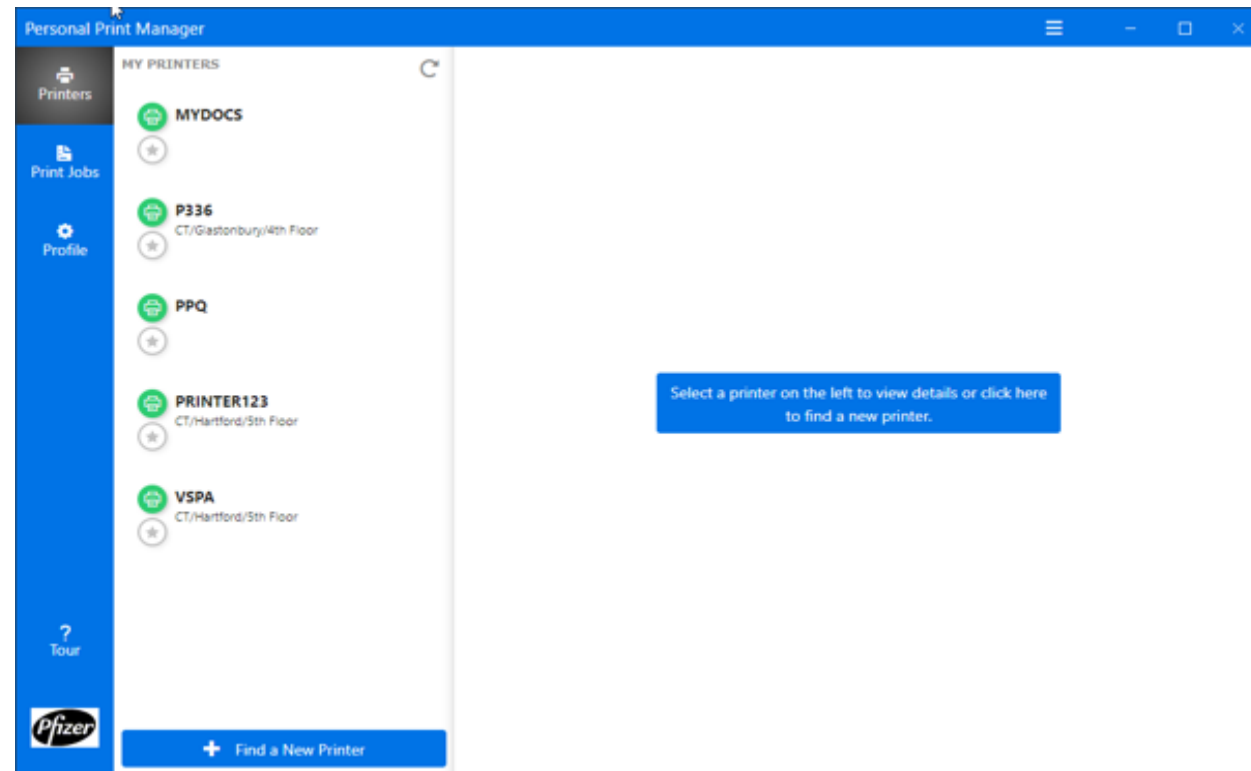
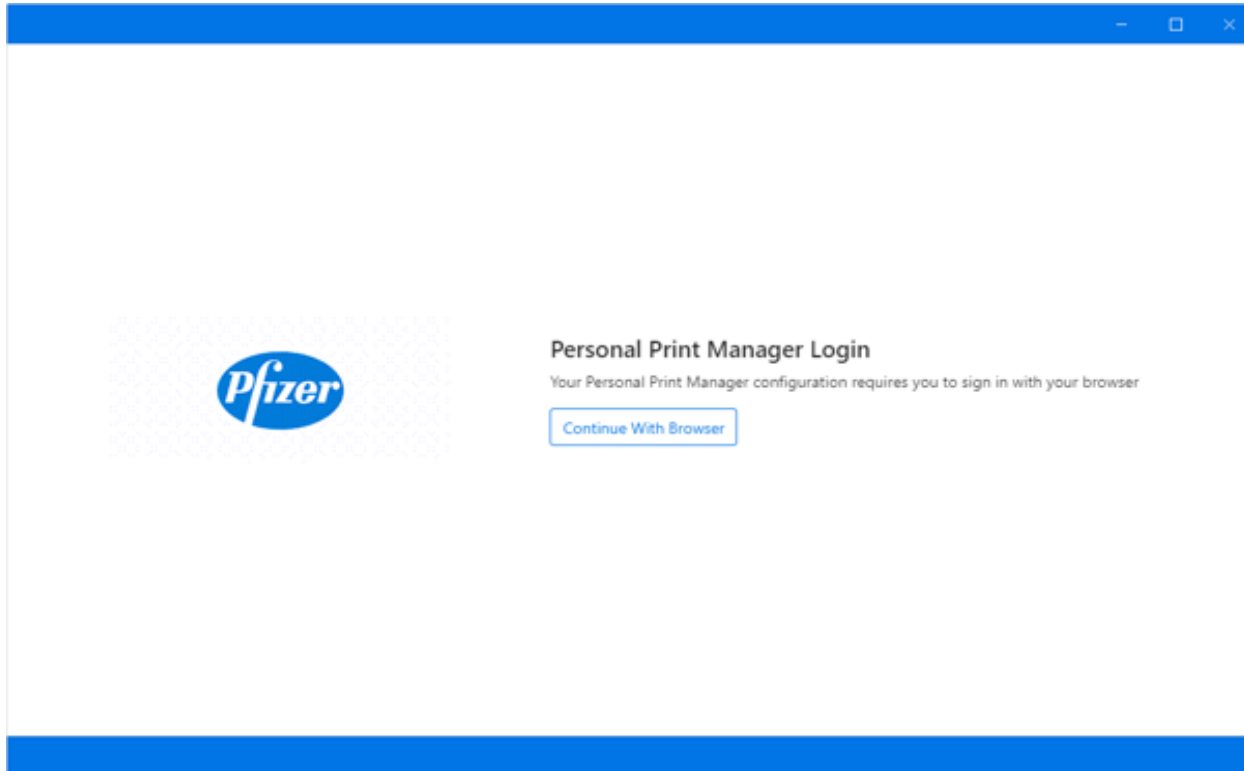
Nachdem der Benutzer den Druckauftrag ausgewählt und die Schaltfläche „Lokal herunterladen und ausdrucken“ geklickt hat, beginnt der Ausdruck auf dem gewählten Drucker und Statusinformationen werden angezeigt.



PPM Branding und Styling



Kundenbeispiel





Kundenbeispiel



Continue With Browser

Personal Print Manager

Printers

Print Jobs

Profile

Tour

MY PRINTERS

- 123JOE
CT/Glastonbury/4th Floor
- EPIC
CT/Glastonbury/4th Floor
- GUYS_ZEBRA
- MYDOCS
- P222
123
CT/Glastonbury/4th Floor
- P336
TEST PRT
CT/Glastonbury/4th Floor
- PPQ

+ Find a New Printer

Select a printer on the left to view details or click here to find a new printer.



Kundenbeispiel

The screenshot shows the login page for the Salfa Personal Print Manager. On the left is the Salfa logo. To the right, the text reads "Personal Print Manager Login" and "Your Personal Print Manager configuration requires you to sign in with your browser". Below this text is a button labeled "Continue With Browser".

The screenshot shows the "Personal Print Manager" interface. On the left is a navigation sidebar with options: Printers, Print Jobs, Profile, and Tour. The main area is divided into "PRINTER FEATURES" and "LOCATION". Under "PRINTER FEATURES", there are checkboxes for Color, Print on both sides, Staple, Secure Print Release, Secure Print Queue, and Mobile Print. Under "LOCATION", there are radio buttons for "All locations", "CT", and "EMEA". The right side of the interface features a search bar and a list of printers. The list includes printer names and their locations, such as "00P336" at "CT/Glastonbury/4th Floor". Each printer entry has a status icon (plus, checkmark, or minus) and a set of action icons. At the bottom right, it says "Displaying 1 to 18 of 18".

Printer Name	Location	Status
00P336	CT/Glastonbury/4th Floor	+
123	CT/Glastonbury/4th Floor	+
123JOE	CT/Glastonbury/4th Floor	✓
123MFPSECURE		+
EPIC	CT/Glastonbury/4th Floor	✓
GUYS_ZEBRA		✓
MYDOCS		✓
NEWPRT	CT/Glastonbury/4th Floor	+



LRS User Konferenz 2022 Zürich



Kundenbeispiel

The screenshot shows the login page for Personal Print Manager. On the left, the Morgan Stanley logo is displayed. The main heading is "Personal Print Manager Login". Below it, a message states: "Your Personal Print Manager configuration requires you to sign in with your browser". A button labeled "Continue With Browser" is positioned below the message. A "Tour" link with a question mark icon is located in the bottom left corner.

The screenshot displays the "Personal Print Manager" interface. On the left, a sidebar contains navigation options: "Printers", "Print Jobs", "Profile", and "Tour". The main area is divided into two panels. The "MY PRINTERS" panel lists four printers: "AMCTGL01002" (SE manager's office), "AMCTGL950402" (Glastonbury Sales Office), "HOMEQ" (Secure pull print with this queue), and "PERSONALQ" (Secure pull print with this queue). The "PERSONALQ" printer is highlighted in blue. The "PRINTER DETAILS" panel for "PERSONALQ-EOMEAST010" shows the following information: Status: Idle, Description: Secure pull print with this queue, Department: LRS EOM, and Contact: Jeff Lecko. Below the details are three buttons: "Print Preferences...", "Set as Default Printer", and "Remove Printer". At the bottom, a "PRINT JOBS" section indicates "NO PRINT JOBS FOUND.". A green button at the bottom center says "+ Find a New Printer".



Kundenbeispiel

South Shore Health

Personal Print Manager Login

Your Personal Print Manager configuration requires you to sign in with your browser

[Continue With Browser](#)

Personal Print Manager

- Printers
- Print Jobs
- Profile
- Tour

MY PRINTERS

- 123JOE
CT/Gastonbury/4th Floor
- MYDOCS
- P222
123
CT/Gastonbury/4th Floor
- P336
CT/Gastonbury/4th Floor
- PPQ
- VSPA
CT/Hartford/5th Floor
- P336R

[+ Find a New Printer](#)

Select a printer on the left to view details or click here to find a new printer.



Kundenbeispiel

StanleyBlack&Decker

Personal Print Manager Login

Your Personal Print Manager configuration requires you to sign in with your browser

[Continue With Browser](#)

Personal Print Manager

- Printers
- Print Jobs
- Profile
- Tour
- Stanley Black & Decker

MY PRINTERS

- 123JOE
CT/Gastonbury/4th Floor
- MYDOCS
- P222
123
CT/Gastonbury/4th Floor
- P336
CT/Gastonbury/4th Floor
- PPQ
- VSPA
CT/Hartford/5th Floor
- P336R

[+ Find a New Printer](#)

Select a printer on the left to view details or click here to find a new printer.



Customer Questions – Zurich

- When will the Secure Scan Tool for creating scan workflows be migrated to the VPSX Admin Web Interface?
- MFPsecure/Scan Pro – central monitoring?
- MFPsecure active list – which devices are licensed?
- Security General – Some security is managed in ServerX security, others in VSPA, external managed AD groups are also used. What is the LRS strategy here?
- VPSX and SAP SNC, what is the roadmap?
- MFPsecure/Print – it would be nice to have a pop-up display when all jobs have printed



Customer Questions – Zurich

- MFPsecure active list – which devices are licensed?

General **MFPsecure** Licenses

Secure Print Mask

Secure Scan Mask

Agent Mask

Device Mask

General **Licenses**

License warning

MFPsecure/Print for HP

MFPsecure/Print for Konica

MFPsecure/Print for Kyocera

MFPsecure/Print for Lexmark

MFPsecure/Print for Ricoh

MFPsecure/Print for Samsung

Transform/IFF to PDF

Transform/IFF to PS

Transform/IFF to ZPL

Transform/Impress

Transform/MMD to AFP

Transform/MMD to PCL

LRS OUTPUT MANAGEMENT

Printers

VSV1 mark.ladd@lrs.com Logoff

Printer

Masking Bulk Actions Add Table Columns Refresh

Printer	Properties	Location	Secure Print MFPsecure	Secure Print	Secure Scan MFPsecure	Secure Scan	Authentication	Agent
p283		United Kingdom/Gloucestershire/Cheltenham/Technical Print Area	HW09762.LRSINC.ORG	DEPLOYED		ERROR	✓	Lexmark Agent 1.3.058.000



Customer Questions – Zurich

VPSX and SAP SNC, what is the roadmap?

SNC = Secure Network Connection

Currently being investigated. Current thinking is we will add a column to our saplogin file for the DEST parm, Y or N.

If Y, call the RFCOPenConnection with **only** the DEST= parameter, which causes SAP NW RFC to read the SAPNWRFC.INI file and try and match the DEST = parm from an entry in that file (The entry should be SAP_SID | ISAP_SystemNumber

This approach would allow use of the SAPNWRFC.INI to use ANY logon method SAP makes available. Current options are SNC (Secure Network), WSHOST (HTTP TLS), AHOST (direct), MSHOST load balance.

This approach is future safe. TLS can also currently be configured at the network component level.