LRS User Konferenz 2023 Zürich

Registrierung, Kaffee &Networking

LRS
OUTPUT MANAGEMENT

Agenda

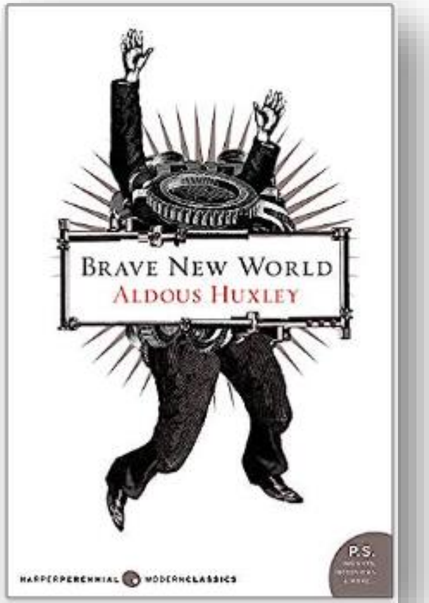
13:00 – 13:20	Registrierung, Kaffee & Networking	
13:20 – 14:20	Industrietrends and Produkt-Updates (in englisch) 1. Hybride Architektur 2. Sicherheit & Zero Trust 3. Microsoft & Apple Driver Ankündigung	Mark Ladd
14:20 – 14:40	Stadt Zürich, Organisation und Informatik (OIZ) (Kundenvortrag)	Michel Hämmerle
14:40 – 15:00	Kaffee & Networking	
15:00 – 15:30	Product-Roadmap	Mark Ladd
15:30 – 16:00	LRS und die neue SAP Welt	Joachim Lang
16:00 – 16:25	State-of-the-art Scan – einschließlich 1. Neues UI und Lizenzierung 2. Mehr als MFP.. 3. Von Mobil zu Scan LRS Services zur Unterstützung von Scan-Implementierungen	Mark Ladd or Joachim Lang
16:25 – 16:45	Kaffee & Networking	
16:45 – 17:15	LRS Support Portal und Knowledgebase	Leo Kaltenhauser, Joachim Lang, Mark Ladd
17:15 – 17:45	Fragen und Zusammenfassung	Leo Kaltenhauser
17:45/18:00	Flying Dinner	

Industry Trends and LRS Product Update

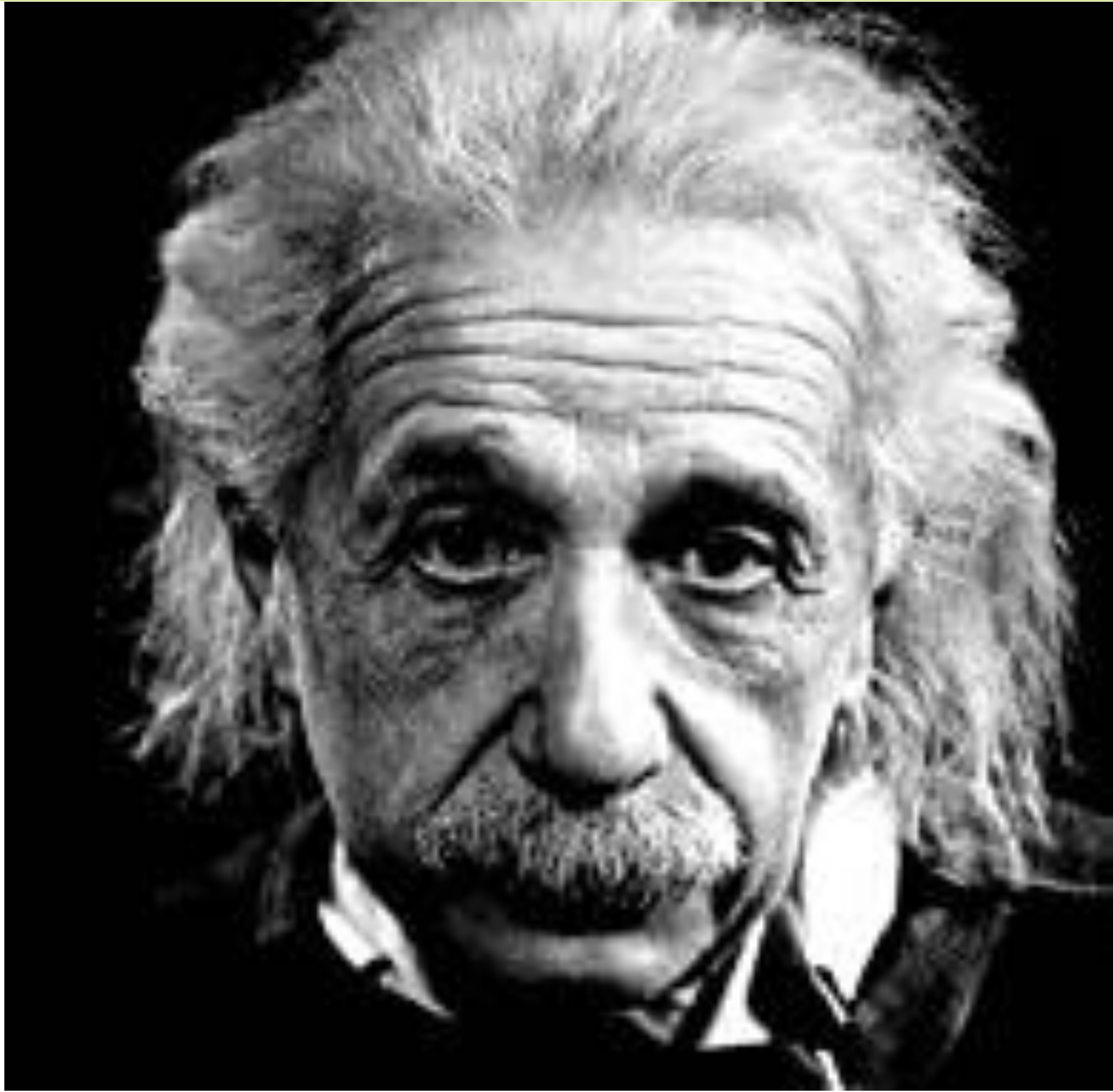
Mark Ladd & Joachim Lang

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

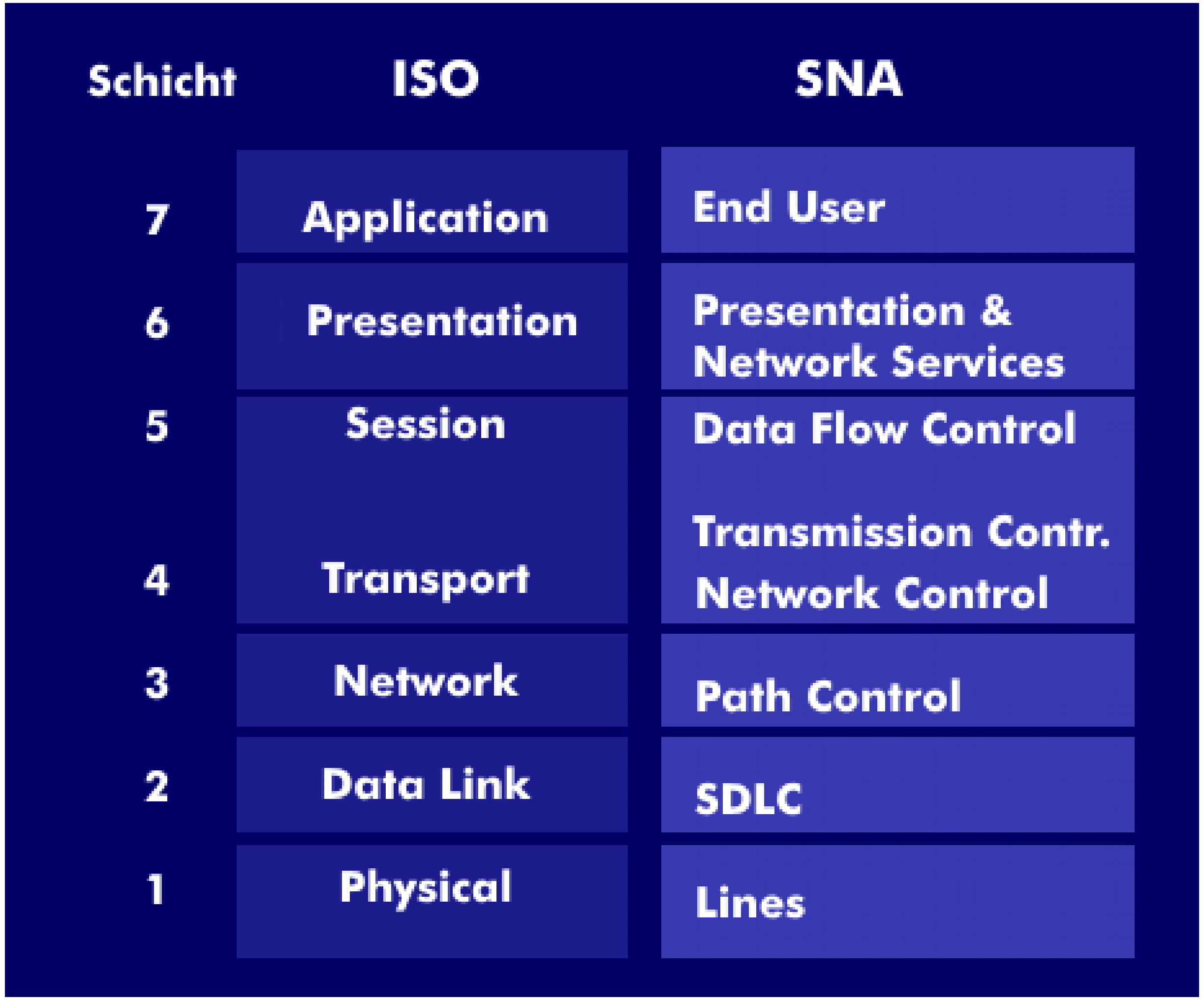

BRAVE NEW WORLD
ALDOUS HUXLEY
HARPERPERENNIAL MODERNCLASSICS
P.S.

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



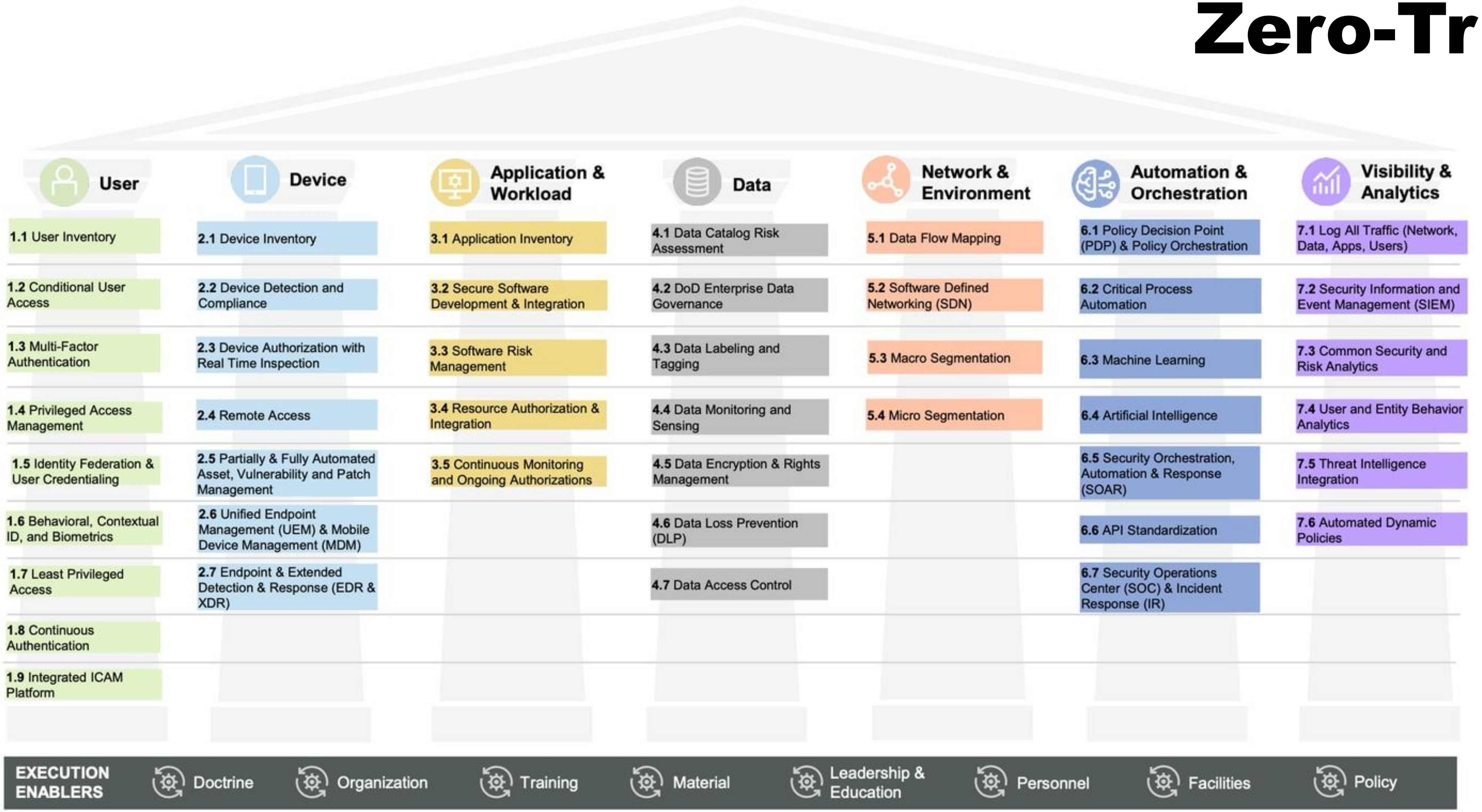
Architecture

- 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

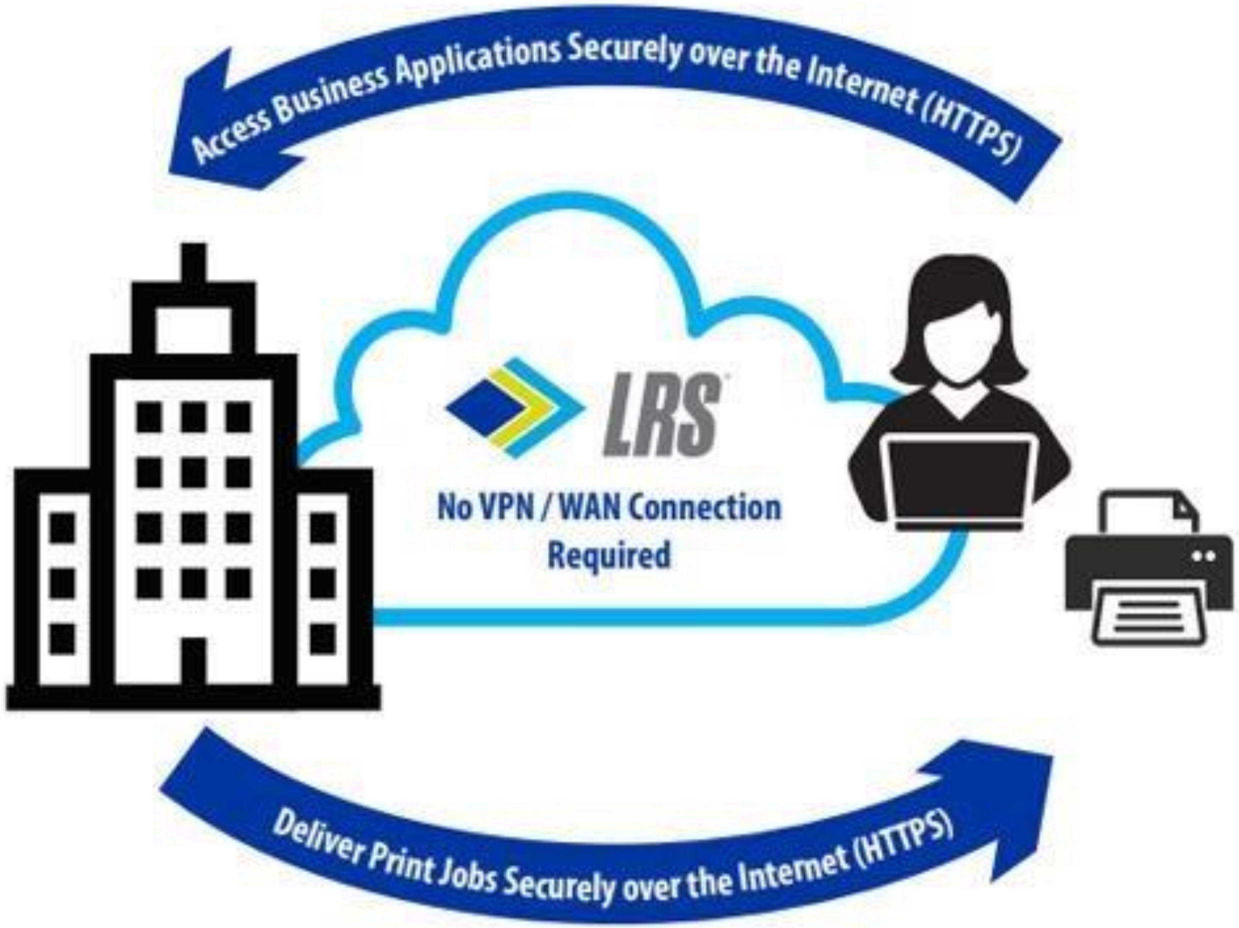
Zero-Trust



User	Device	Application & Workload	Data	Network & Environment	Automation & Orchestration	Visibility & Analytics
1.1 User Inventory	**2.1** Device Inventory	**3.1** Application Inventory	**4.1** Data Catalog Risk Assessment	**5.1** Data Flow Mapping	**6.1** Policy Decision Point (PDP) & Policy Orchestration	**7.1** Log All Traffic (Network, Data, Apps, Users)
1.2 Conditional User Access	**2.2** Device Detection and Compliance	**3.2** Secure Software Development & Integration	**4.2** DoD Enterprise Data Governance	**5.2** Software Defined Networking (SDN)	**6.2** Critical Process Automation	**7.2** Security Information and Event Management (SIEM)
1.3 Multi-Factor Authentication	**2.3** Device Authorization with Real Time Inspection	**3.3** Software Risk Management	**4.3** Data Labeling and Tagging	**5.3** Macro Segmentation	**6.3** Machine Learning	**7.3** Common Security and Risk Analytics
1.4 Privileged Access Management	**2.4** Remote Access	**3.4** Resource Authorization & Integration	**4.4** Data Monitoring and Sensing	**5.4** Micro Segmentation	**6.4** Artificial Intelligence	**7.4** User and Entity Behavior Analytics
1.5 Identity Federation & User Credentialing	**2.5** Partially & Fully Automated Asset, Vulnerability and Patch Management	**3.5** Continuous Monitoring and Ongoing Authorizations	**4.5** Data Encryption & Rights Management		**6.5** Security Orchestration, Automation & Response (SOAR)	**7.5** Threat Intelligence Integration
1.6 Behavioral, Contextual ID, and Biometrics	**2.6** Unified Endpoint Management (UEM) & Mobile Device Management (MDM)		**4.6** Data Loss Prevention (DLP)		**6.6** API Standardization	**7.6** Automated Dynamic Policies
1.7 Least Privileged Access	**2.7** Endpoint & Extended Detection & Response (EDR & XDR)		**4.7** Data Access Control		**6.7** Security Operations Center (SOC) & Incident Response (IR)	
1.8 Continuous Authentication						
1.9 Integrated ICAM Platform						

EXECUTION ENABLERS: Doctrine, Organization, Training, Material, Leadership & Education, Personnel, Facilities, Policy

Pushing Print on the Open Internet

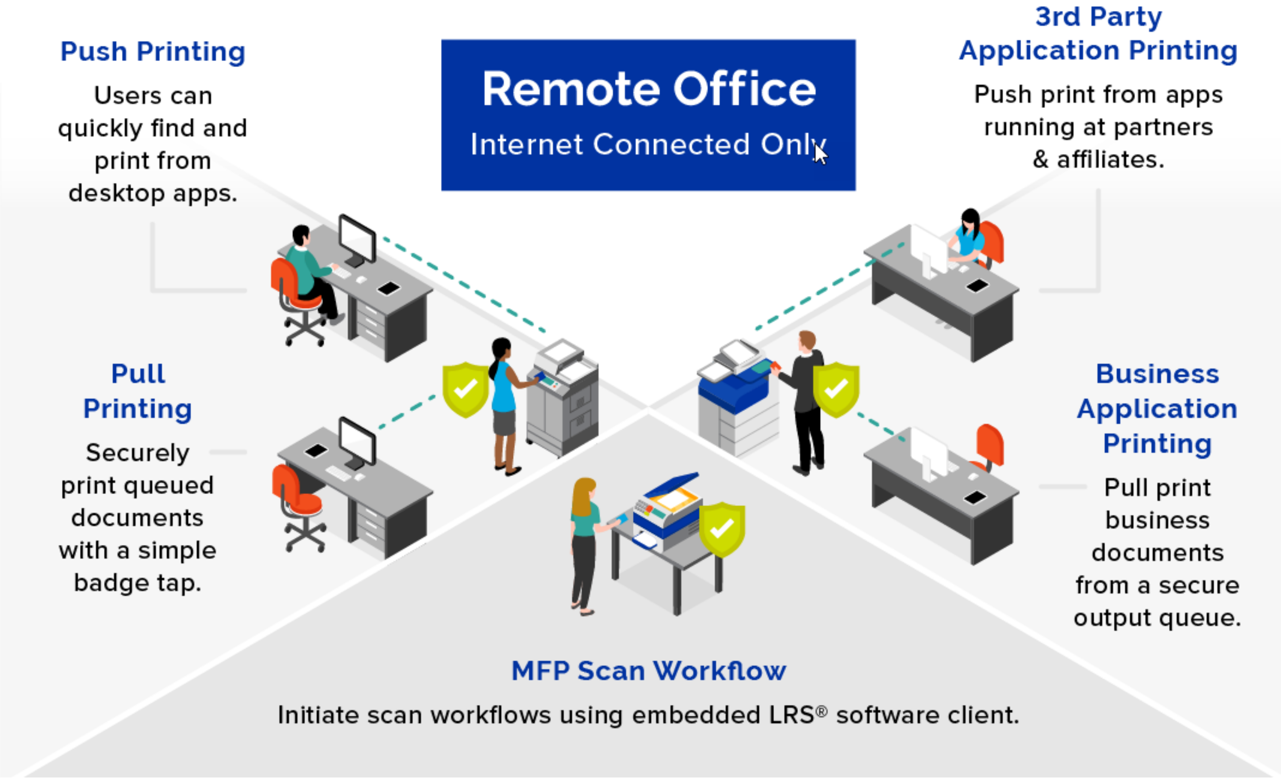

Access Business Applications Securely over the Internet (HTTPS)
LRS
No VPN / WAN Connection Required
Deliver Print Jobs Securely over the Internet (HTTPS)

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

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

Internet Pull Print

- 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



Remote Office

Internet Connected Only

Push Printing

Users can quickly find and print from desktop apps.

3rd Party Application Printing

Push print from apps running at partners & affiliates.

Pull Printing

Securely print queued documents with a simple badge tap.

Business Application Printing

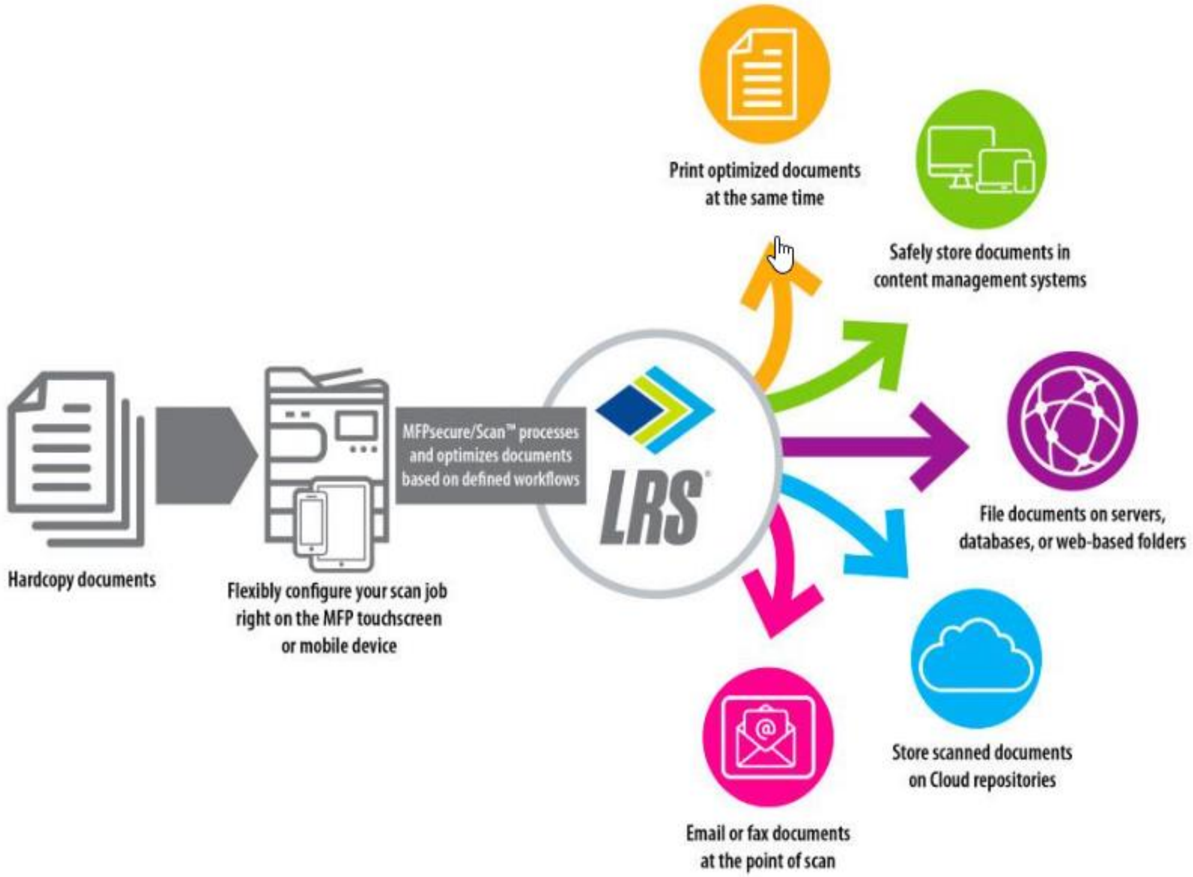
Pull print business documents from a secure output queue.

MFP Scan Workflow

Initiate scan workflows using embedded LRS® software client.

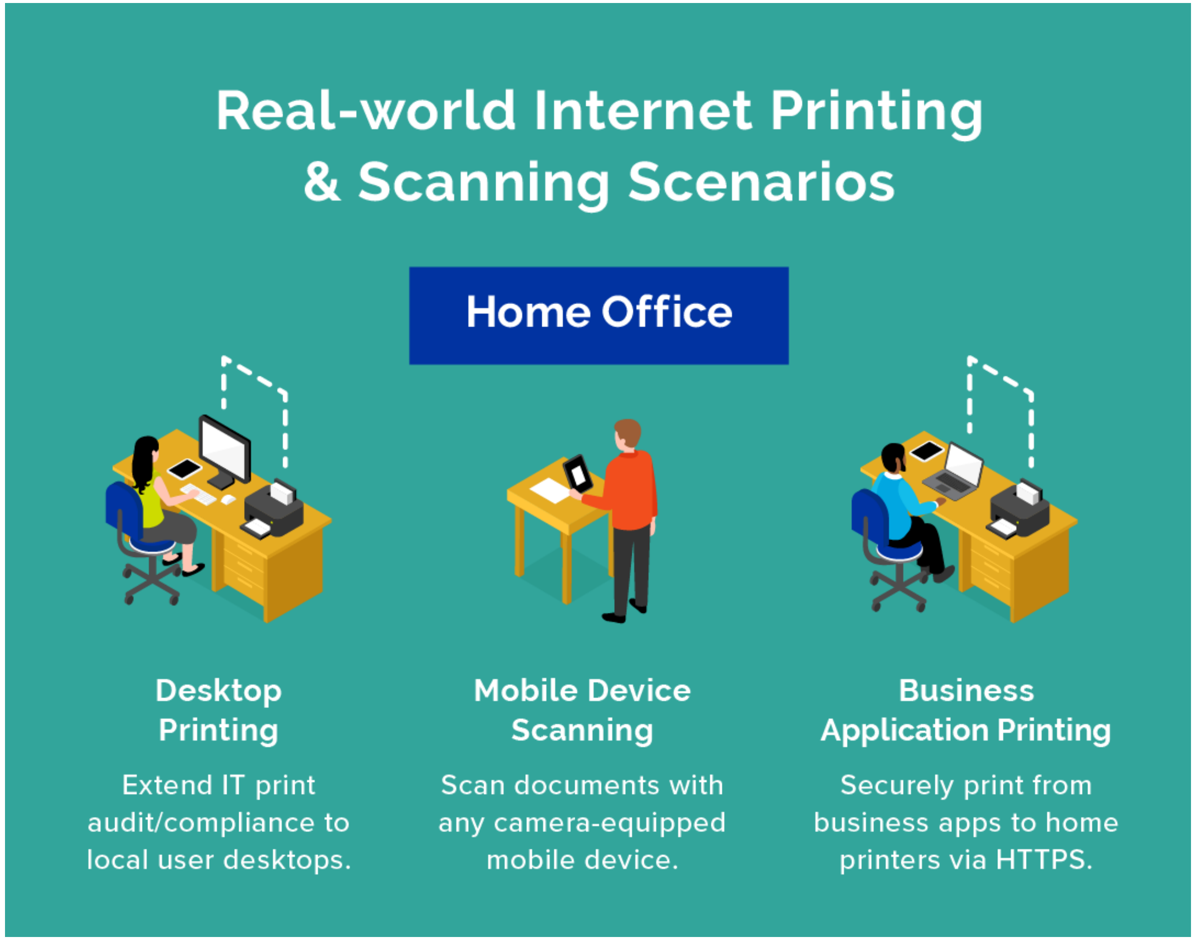
Internet Scan

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


Hardcopy documents
Flexibly configure your scan job right on the MFP touchscreen or mobile device
MFPsecure/Scan™ processes and optimizes documents based on defined workflows
LRS
Print optimized documents at the same time
Safely store documents in content management systems
File documents on servers, databases, or web-based folders
Store scanned documents on Cloud repositories
Email or fax documents at the point of 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



Real-world Internet Printing & Scanning Scenarios

Home Office

Desktop Printing

Extend IT print audit/compliance to local user desktops.

Mobile Device Scanning

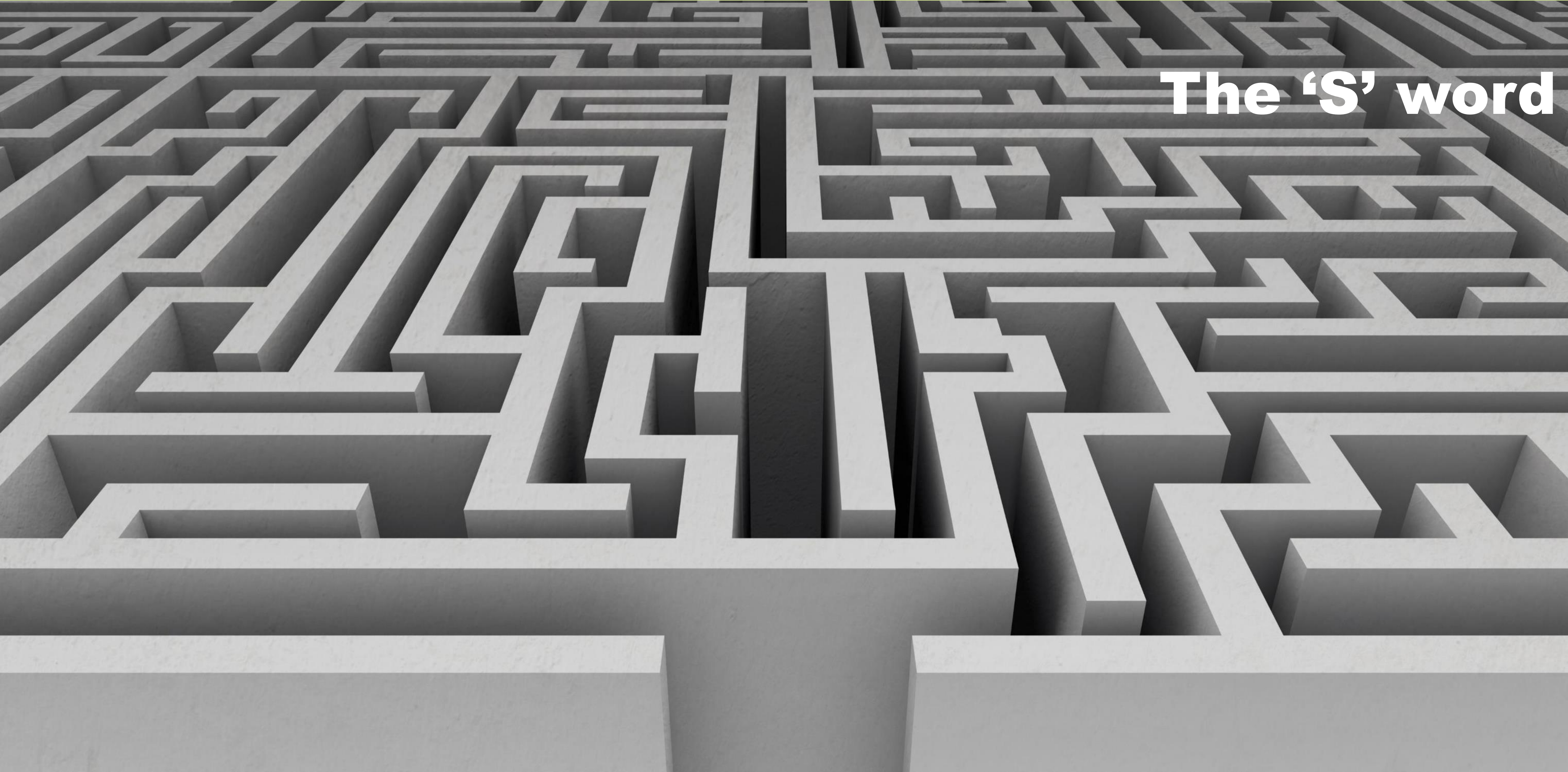
Scan documents with any camera-equipped mobile device.

Business Application Printing

Securely print from business apps to home printers via HTTPS.

Driver deprecation

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



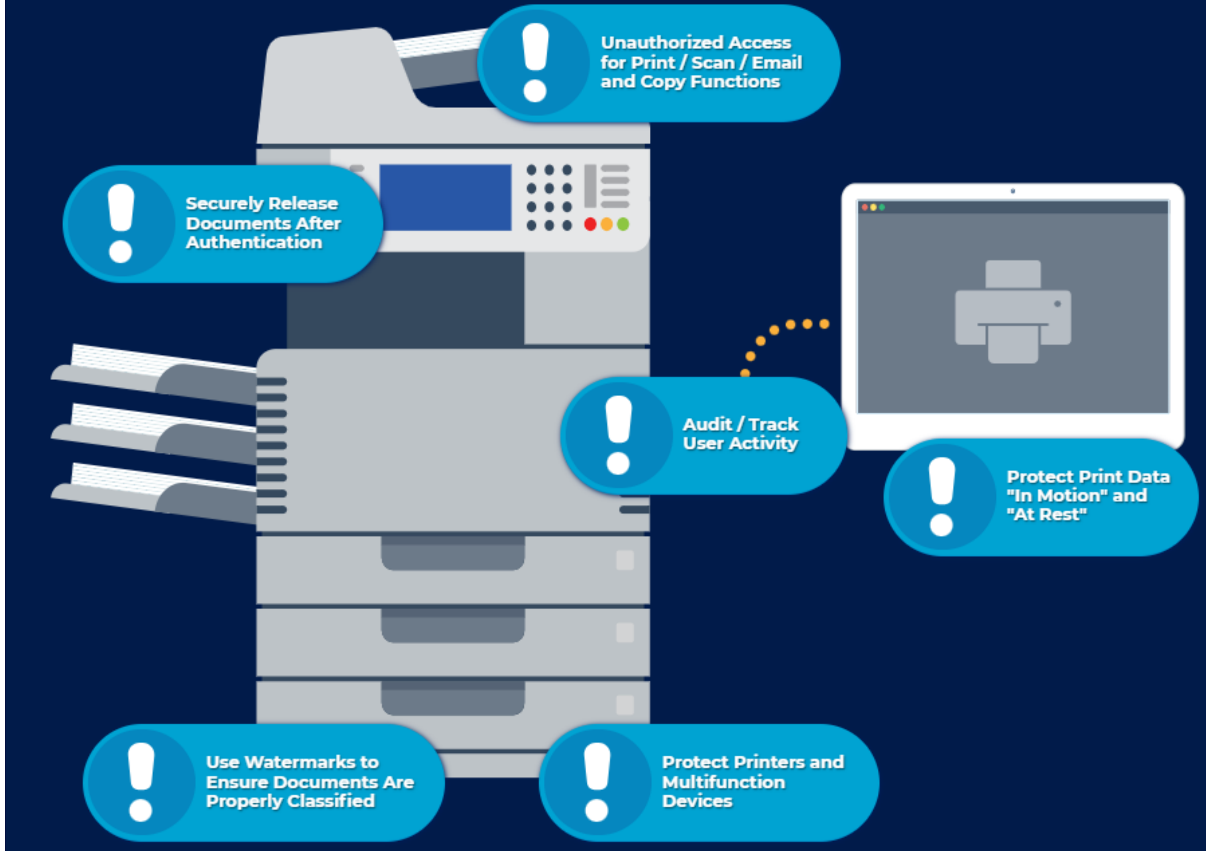
The ‘S’ word

Examples

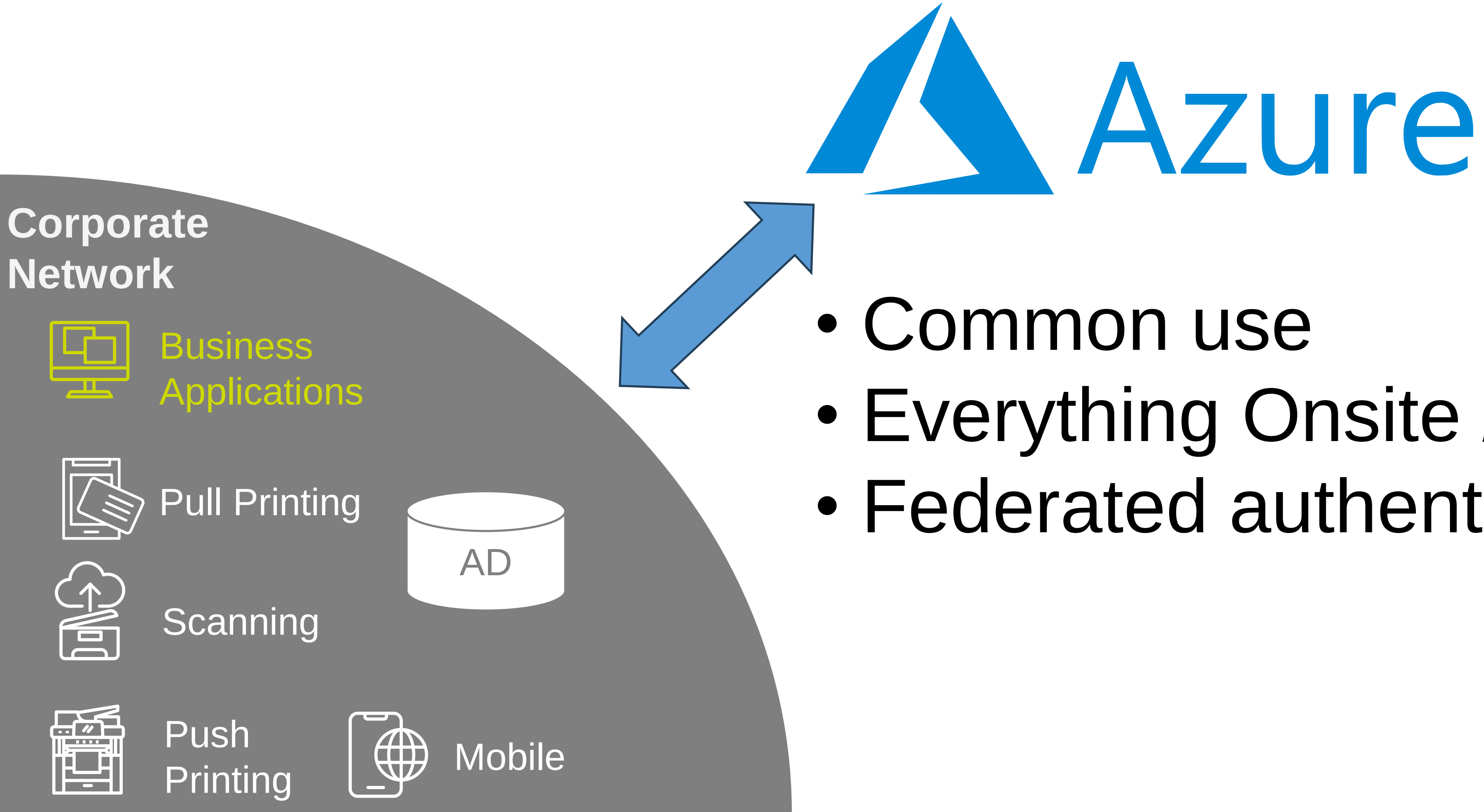
- NVIDIA (semiconductors) lost employee credentials and proprietary information
- Costa Rica – Had its economy shutdown $30 million per day
- CHI Heath – Went back to paper records
- JBS Beef - $11 million ransom
- Maersk - $300 million in losses
- UK NHS - £92 million in loss

LRS Security Approach

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


Unauthorized Access for Print / Scan / Email and Copy Functions
Securely Release Documents After Authentication
Audit / Track User Activity
Protect Print Data "In Motion" and "At Rest"
Use Watermarks to Ensure Documents Are Properly Classified
Protect Printers and Multifunction Devices

Hybrid Approach – On Premise



Azure

Corporate Network

Business Applications

Pull Printing

AD

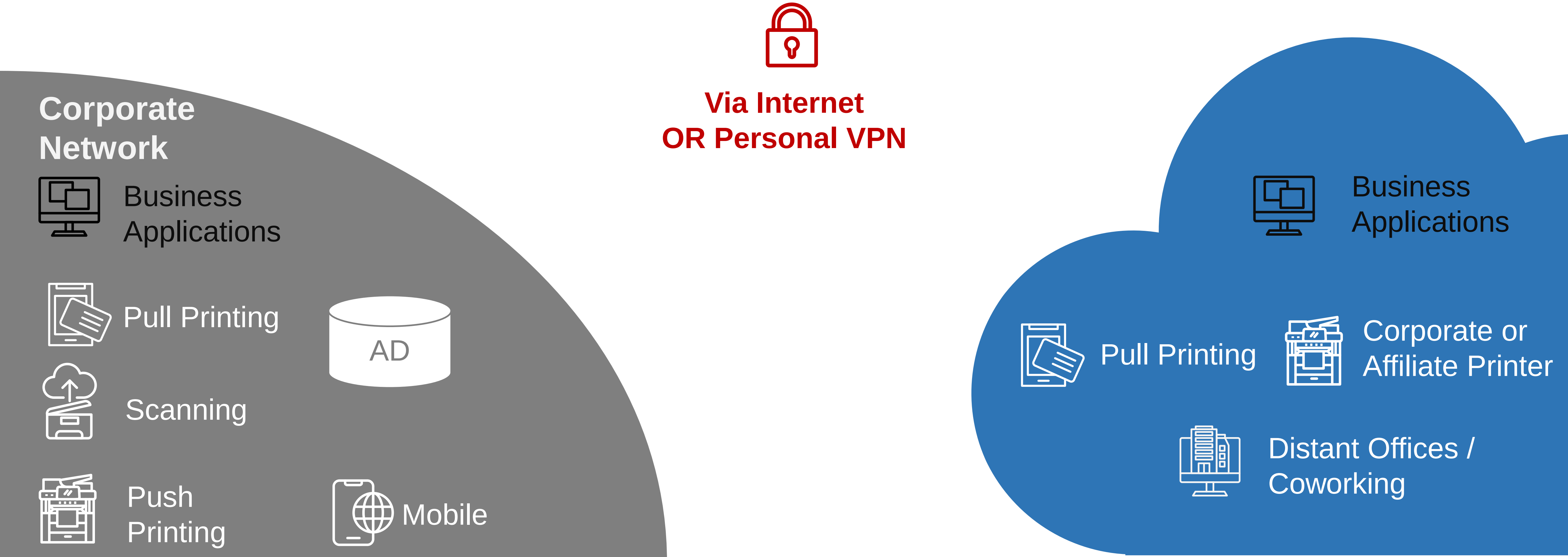
Scanning

Push Printing

Mobile

- Common use
- Everything Onsite / Datacenter
- Federated authentication

Hybrid Approach – Mixed (typical)



Via Internet
OR Personal VPN

Corporate Network

Business Applications

Pull Printing

AD

Scanning

Push Printing

Mobile

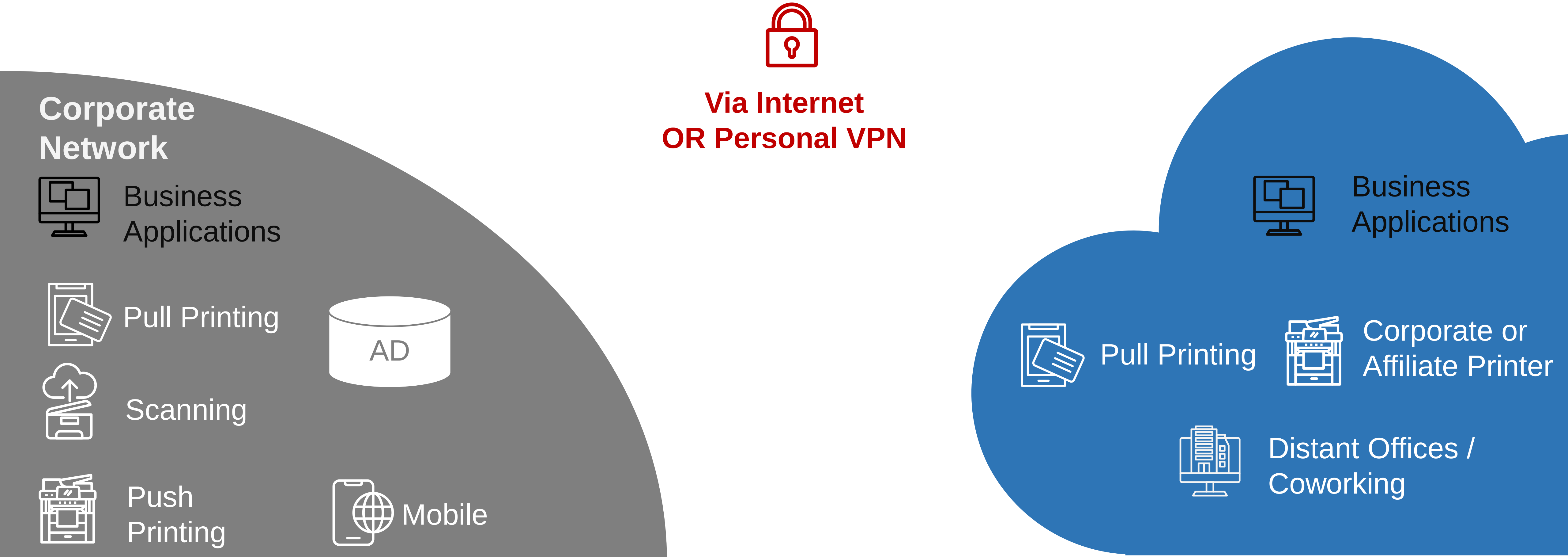
Business Applications

Pull Printing

Corporate or Affiliate Printer

Distant Offices / Coworking

Hybrid Approach – LRS managed / Hosted



Corporate Network

Business Applications

Pull Printing

AD

Scanning

Push Printing

Mobile

Via Internet
OR Personal VPN

Business Applications

Pull Printing

Corporate or Affiliate Printer

Distant Offices / Coworking

Hybrid Approach

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

Implementation Services

Getting your LRS products up and running

Extended Engineering

Adding LRS experts to your technical team

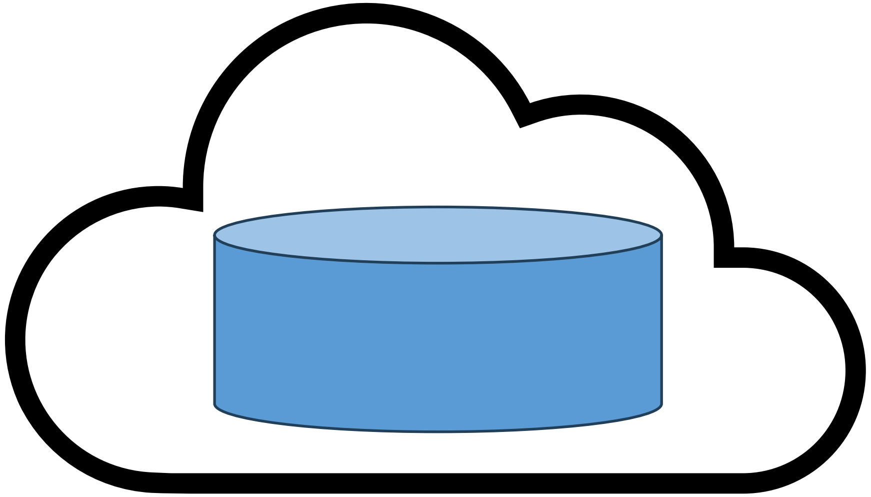
Managed Services

Administering and managing your LRS products for you

Demo System & LRS Mission Control

Futures – Innovate/Audit

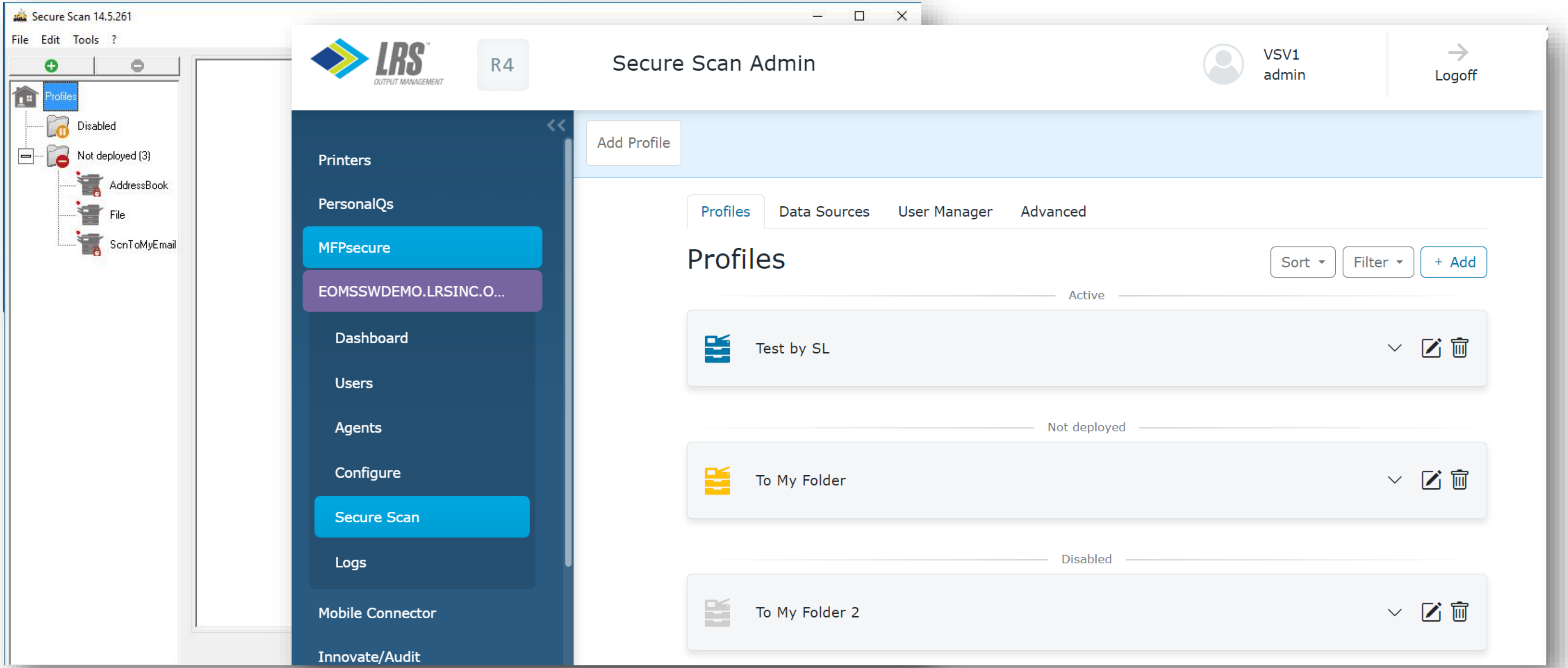
LRS
OUTPUT MANAGEMENT
Mission Control



Futures – Direct Print

LRS
OUTPUT MANAGEMENT
Mission Control

MFPsecure/Scan UI


Secure Scan 14.5.261
File Edit Tools ?
Profiles
Disabled
Not deployed (3)
AddressBook
File
ScnToMyEmail
LRS OUTPUT MANAGEMENT
R4
Secure Scan Admin
VSV1
admin
Logoff
Printers
PersonalQs
MFPsecure
EOMSSWDEMO.LRSINC.O...
Dashboard
Users
Agents
Configure
Secure Scan
Logs
Mobile Connector
Innovate/Audit
Add Profile
Profiles
Data Sources
User Manager
Advanced
Profiles
Sort
Filter
+ Add
Active
Test by SL
Not deployed
To My Folder
Disabled
To My Folder 2

ensing

- The proble
- The future
- What it me

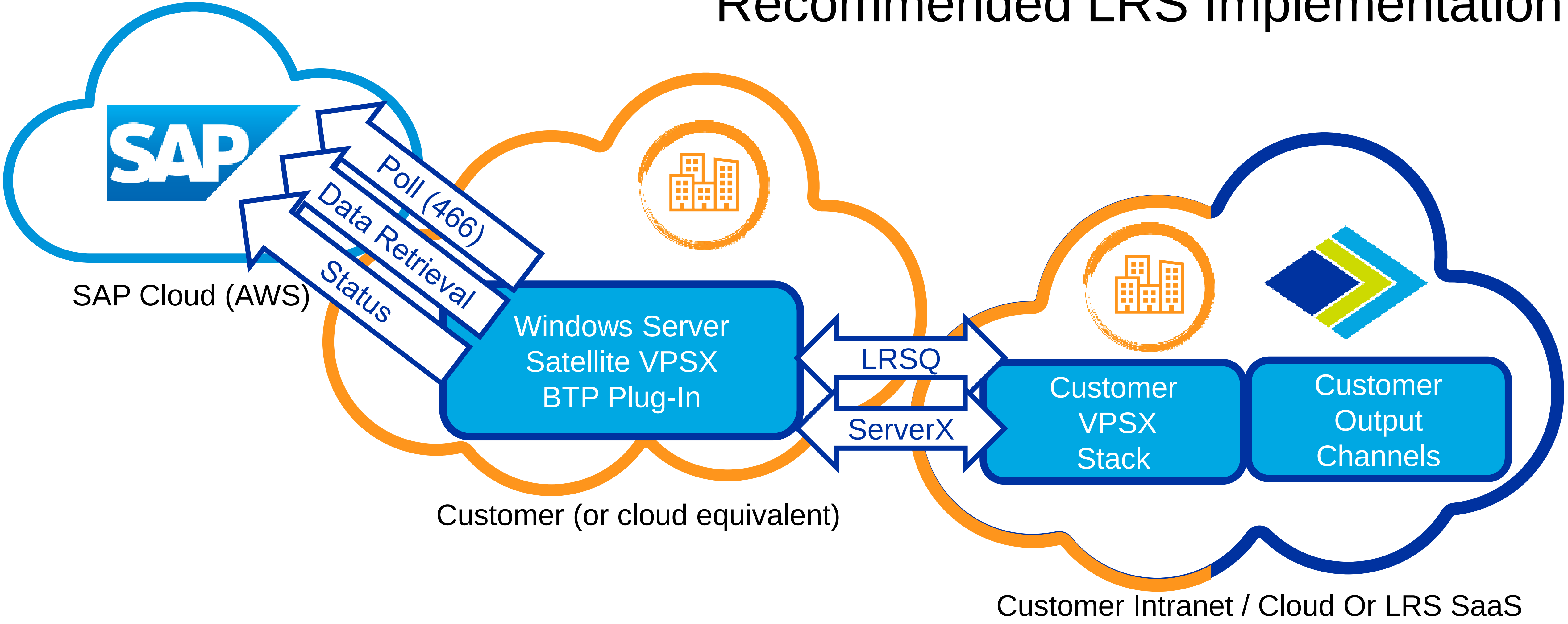
Application/Storage Destinations	MFPsecure/Scan	MFPsecure/Scan Pro
Folder	🟢	🟢
FTP Server	🟢	🟢
Email	🟢	🟢
Lotus Notes	🔴	🟢
Fax	🟡	🟢
Box	🔴	🟢
Dropbox	🔴	🔴
Google Drive	🔴	🟢
Microsoft OneDrive	🔴	🟢
SharePoint	🔴	🟢
Database	🔴	🟢
WebDAV	🔴	🟢
Microsoft Teams	🔴	🟢
Print via VPSX	🟢	🟢

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



SAP Cloud (AWS)

Poll (466)

Data Retrieval

Status

Windows Server
Satellite VPSX
BTP Plug-In

LRSQ

ServerX

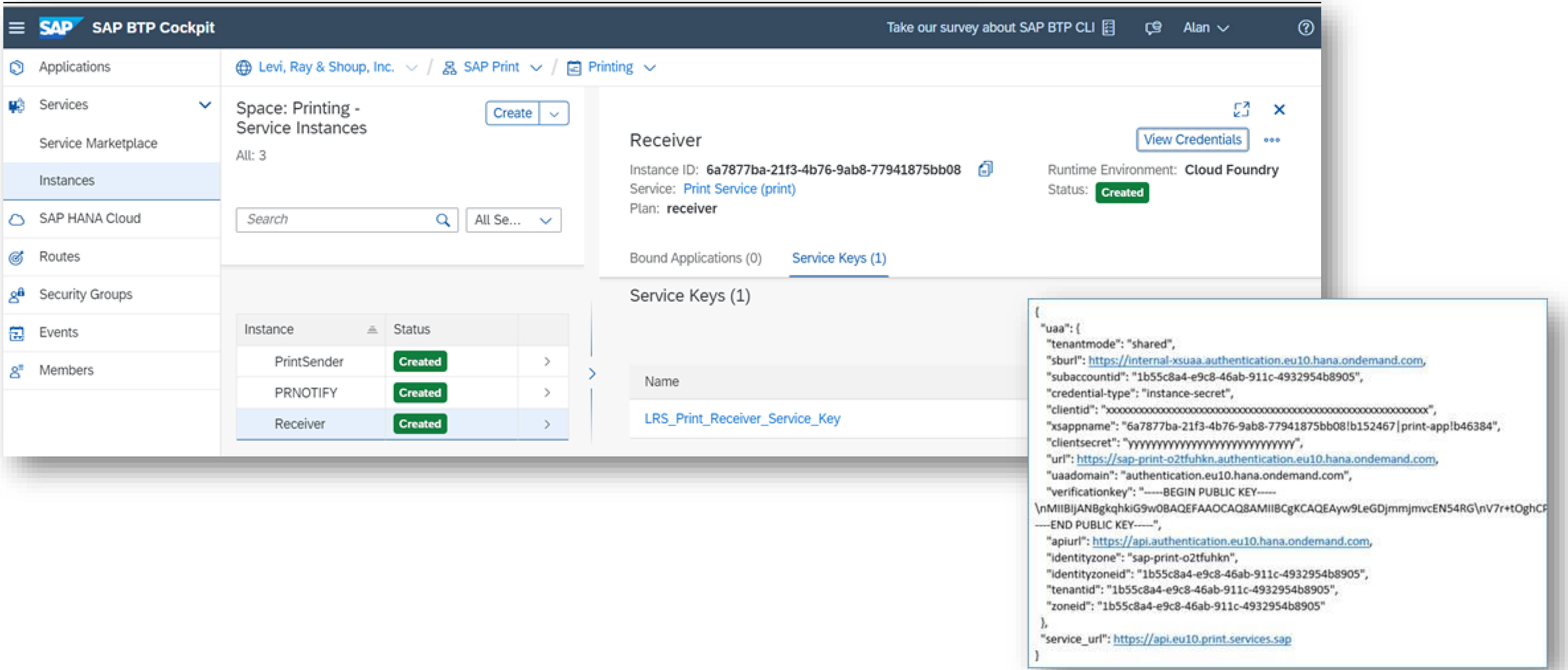
Customer
VPSX
Stack

Customer
Output
Channels

Customer (or cloud equivalent)

Customer Intranet / Cloud Or LRS SaaS

BTP-PRINT-OMS
How to Enable the LRS Solution


SAP BTP Cockpit
Take our survey about SAP BTP CLI
Alan
Applications
Services
Service Marketplace
Instances
SAP HANA Cloud
Routes
Security Groups
Events
Members
Levi, Ray & Shoup, Inc. / SAP Print / Printing
Create
Search
All Se...
View Credentials
Bound Applications (0)
Service Keys (1)

Space: Printing - Service Instances

All: 3

Instance	Status
PrintSender	Created
PRNOTIFY	Created
Receiver	Created

Receiver

Instance ID: 6a7877ba-21f3-4b76-9ab8-77941875bb08

Service: Print Service (print)

Plan: receiver

Runtime Environment: Cloud Foundry

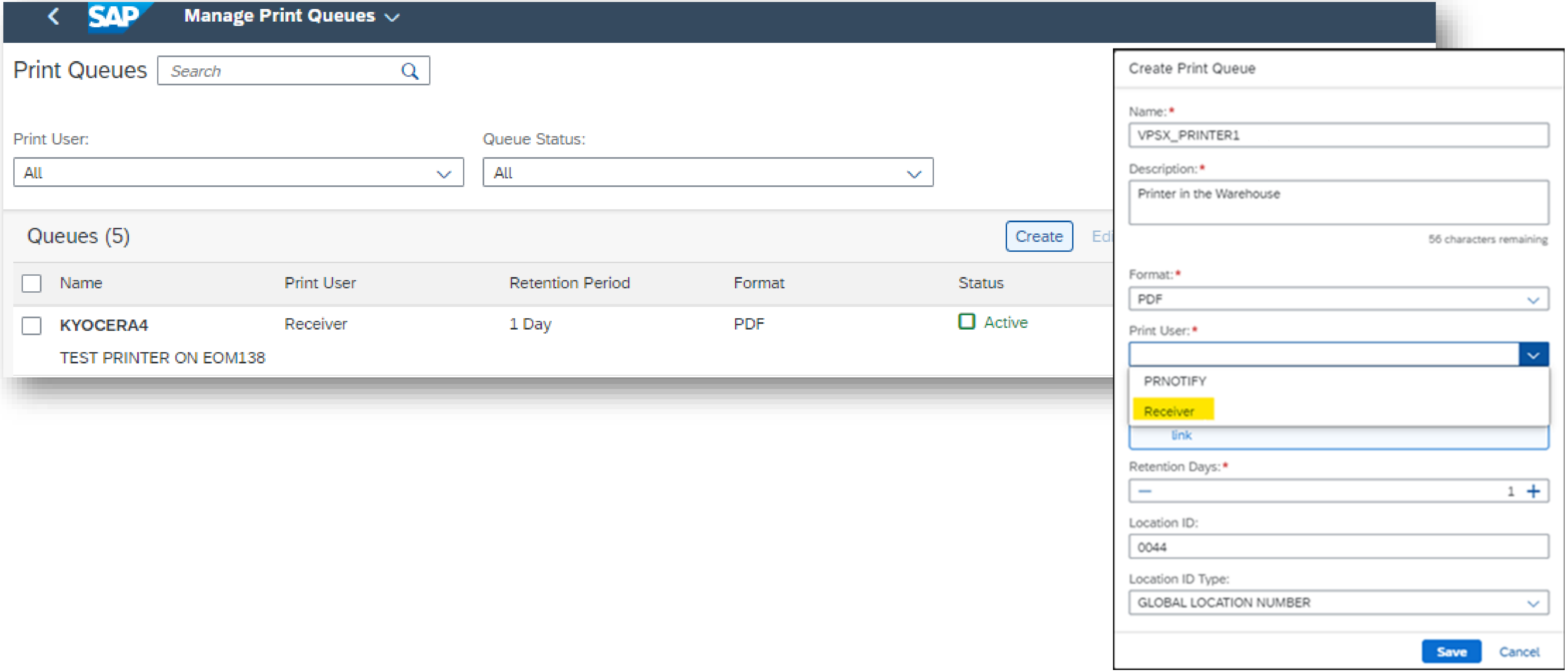
Status: Created

Service Keys (1)

Name
LRS_Print_Receiver_Service_Key

```
{
 "uaa": {
  "tenantmode": "shared",
  "sburl": https://internal-xsuaa.authentication.eu10.hana.ondemand.com,
  "subaccountid": "1b55c8a4-e9c8-46ab-911c-4932954b8905",
  "credential-type": "instance-secret",
  "clientid": "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx",
  "xsappname": "6a7877ba-21f3-4b76-9ab8-77941875bb08!b152467|print-app!b46384",
  "clientsecret": "yyyyyyyyyyyyyyyyyyyyyyyyyyyy",
  "url": https://sap-print-o2tfuhkn.authentication.eu10.hana.ondemand.com,
  "uaadomain": "authentication.eu10.hana.ondemand.com",
  "verificationkey": "-----BEGIN PUBLIC KEY-----
\nMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAyw9LeGDjmmjmvcEN54RG\nV7r+tOghC
-----END PUBLIC KEY-----",
  "apiurl": https://api.authentication.eu10.hana.ondemand.com,
  "identityzone": "sap-print-o2tfuhkn",
  "identityzoneid": "1b55c8a4-e9c8-46ab-911c-4932954b8905",
  "tenantid": "1b55c8a4-e9c8-46ab-911c-4932954b8905",
  "zoneid": "1b55c8a4-e9c8-46ab-911c-4932954b8905"
 },
 "service_url": https://api.eu10.print.services.sap
}
```

BTP-PRINT-OMS
How to Enable the LRS Solution


SAP
Manage Print Queues
Print Queues
Search
Create
Edi
Save
Cancel

Print User: All

Queue Status: All

Queues (5)

☐	Name	Print User	Retention Period	Format	Status
☐	**KYOCERA4** TEST PRINTER ON EOM138	Receiver	1 Day	PDF	🟩 Active

Create Print Queue

Name:* VPSX_PRINTER1

Description:* Printer in the Warehouse

56 characters remaining

Format:* PDF

Print User:*
- PRNOTIFY
- Receiver

link

Retention Days:* 1

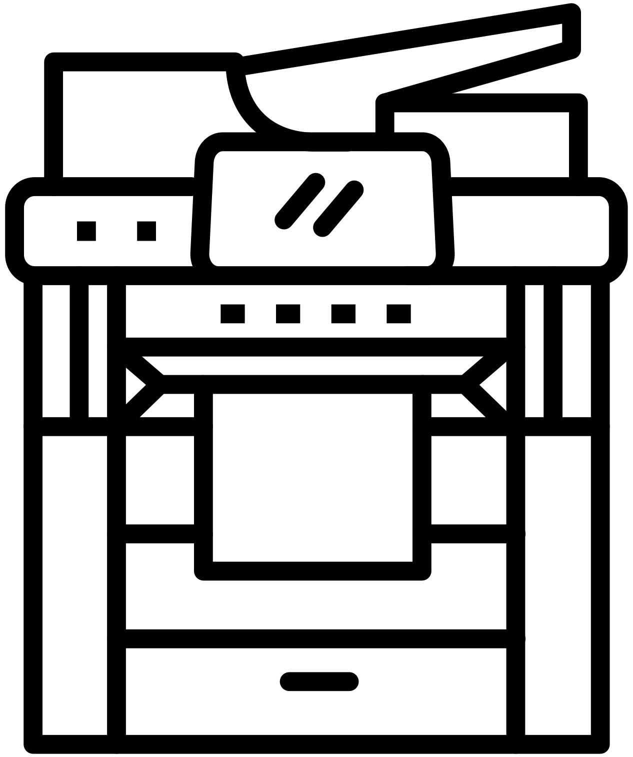
Location ID: 0044

Location ID Type: GLOBAL LOCATION NUMBER

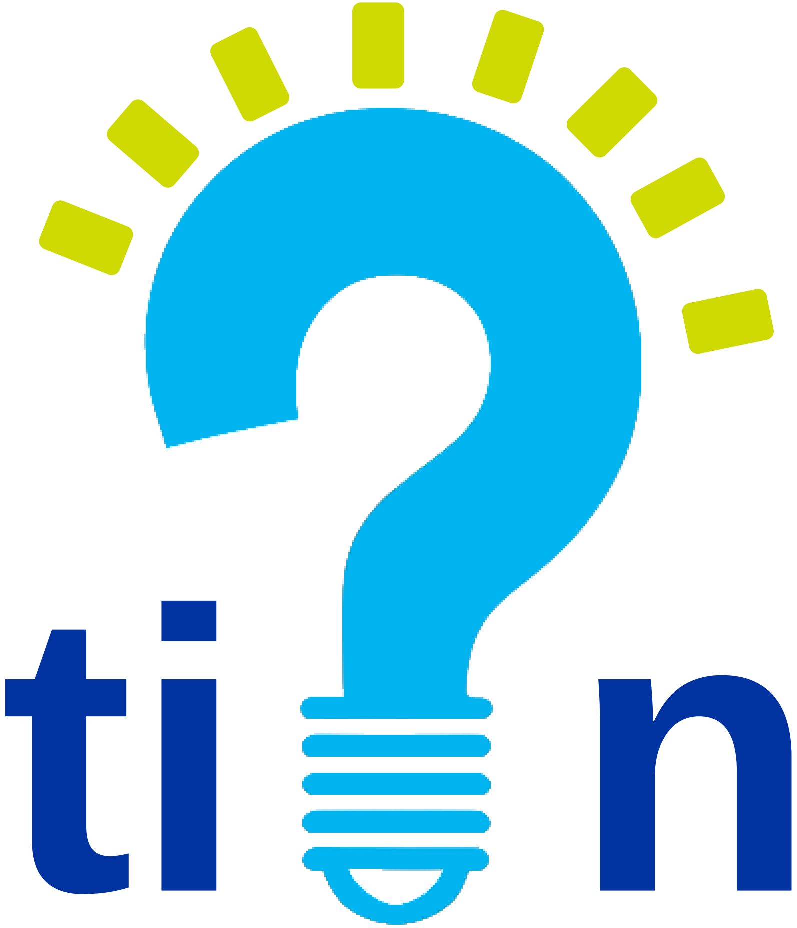
BTP-PRINT-OMS Features

- Plug In, Install free, just unzip into LRSROOT
- Simple Configuration
- Multi-Instance capable
- Runs as windows service
- Same code for both SAP BTP Print, and Public Cloud
- Both communication arrangements possible Poll and Push (466 and 467)
- Separate per printer license
- Highly efficient and fast transfer
- Enabled for attachments
- Enabled for queue meta data for finishing options, tray color and plexing
- Actively being developed
    - Auto Define of BTP Queues in VPSX
    - Push definitions into BTP (change request to SAP pending)
    - Local Status viewer

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



Any Questions

Stadt Zürich
Organisation und Informatik

Organisation und Informatik (OIZ)

Das Kompetenzzentrum für Digitalisierung und Informatik der Stadt Zürich

LRS User Konferenz 2023

Die Stadt Zürich ist mittendrin in der digitalen Transformation.

1110111011001100010
01110000101101011000
0110011000101101011
1011010110001001110
0001011010111010110
1100010011101110110
10111010110000101
11101110110011000
110000101101011
1001100010110
010110001
10101
1

Digitale Services tragen zur hohen Lebensqualität Zürichs bei

Bereits 180 000 Bürger*innen nutzen den städtischen Online-Services-Zugang «Mein Konto». Über 110 Online-Services stehen zur Verfügung. In den Volksschulen sind mehr als 70 Lernsoftware-Programme im Einsatz.

Digitale Prozesse und eine moderne IT-Infrastruktur machen die Arbeit der städtischen Mitarbeitenden effizienter

Über 2100 Applikationen auf 8100 städtischen Servern und 400 Cloud-lösungen unterstützen die 30 000 Mitarbeitenden mobil und an Computer-arbeitsplätzen.

Wir sind das Kompetenzzentrum für Digitalisierung und Informatik der Stadt Zürich

https://youtu.be/hFRn06xriZ0?si=hTM8ATJSbvfoAitu

Wir sind Teil der Stadtverwaltung.

Stadtrat

Präsidialdepartement

Finanzdepartement ▶ **Organisation und Informatik**

430 Mitarbeitende

Sicherheitsdepartement

Gesundheits- und Umweltdepartement

Tiefbau- und Entsorgungsdepartement

Hochbaudepartement

Departement der Industriellen Betriebe

Schul- und Sportdepartement

Sozialdepartement

Stadtkanzlei

Unsere Aufgaben sind so vielfältig wie die Stadt selbst.

Mit unseren digitalen Dienstleistungen bringen wir die gesamte Stadt voran.

Digitalisierungsberatung

Projektleitung & Business Analyse

Applikationsentwicklung/-betrieb

E-Government

Schulinformatik

Arbeitsplatz

RZ-Infrastruktur & Netzwerk

Cloudintegration

Informationssicherheit

Support & Schulung

Digitalisierungsberatung

Unser Ziel: Verwaltungsleistungen werden effizienter und zu einem positiven Erlebnis für Bevölkerung und Mitarbeitende.

Wir beraten die städtischen Abteilungen zur digitalen Transformation. Dabei setzen wir auf agile Arbeitsmethoden wie Design Thinking und Scrum.

Projektleitung & Business Analyse

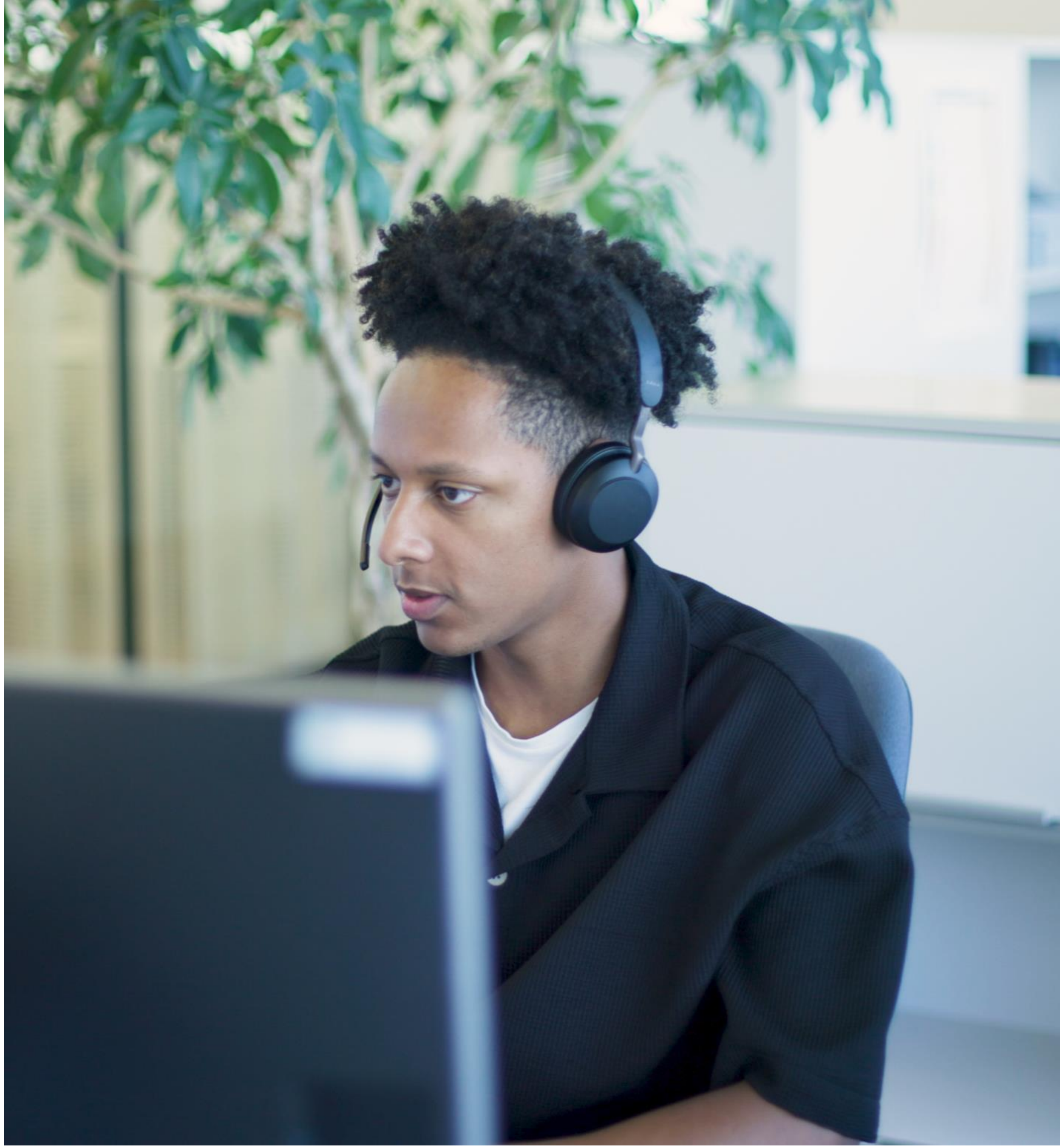
20 Senior-Projektleiter*innen
15 – 20 Mittel- und Grossprojekte im permanenten Portfolio

Wir erbringen Projektmanagement-leistungen für die Stadt Zürich und begleiten unsere Kund*innen von der Strategie über Requirement Engineering, Projektmethodik bis zum Risikomanagement.

Applikationsentwicklung/-betrieb

2100+ Applikationen
120 SAP-Systeme
10 000 SAP-Anwender*innen

Wir betreiben und entwickeln für die Stadt Zürich eine Vielzahl von Anwendungen und Plattformen. Zudem bewirtschaften wir eine grosse SAP-Landschaft, welche wir stetig mit und für die Dienstabteilungen weiterentwickeln.



E-Government

180 000+ «Mein Konto»-Accounts
110+ Online-Services

Für die Bevölkerung entwickelt unser E-Government-Team zusammen mit den städtischen Abteilungen nützliche Online-Services und betreibt den zentralen Online-Zugang «Mein Konto» und die städtischen Web-Services.

Schulinformatik

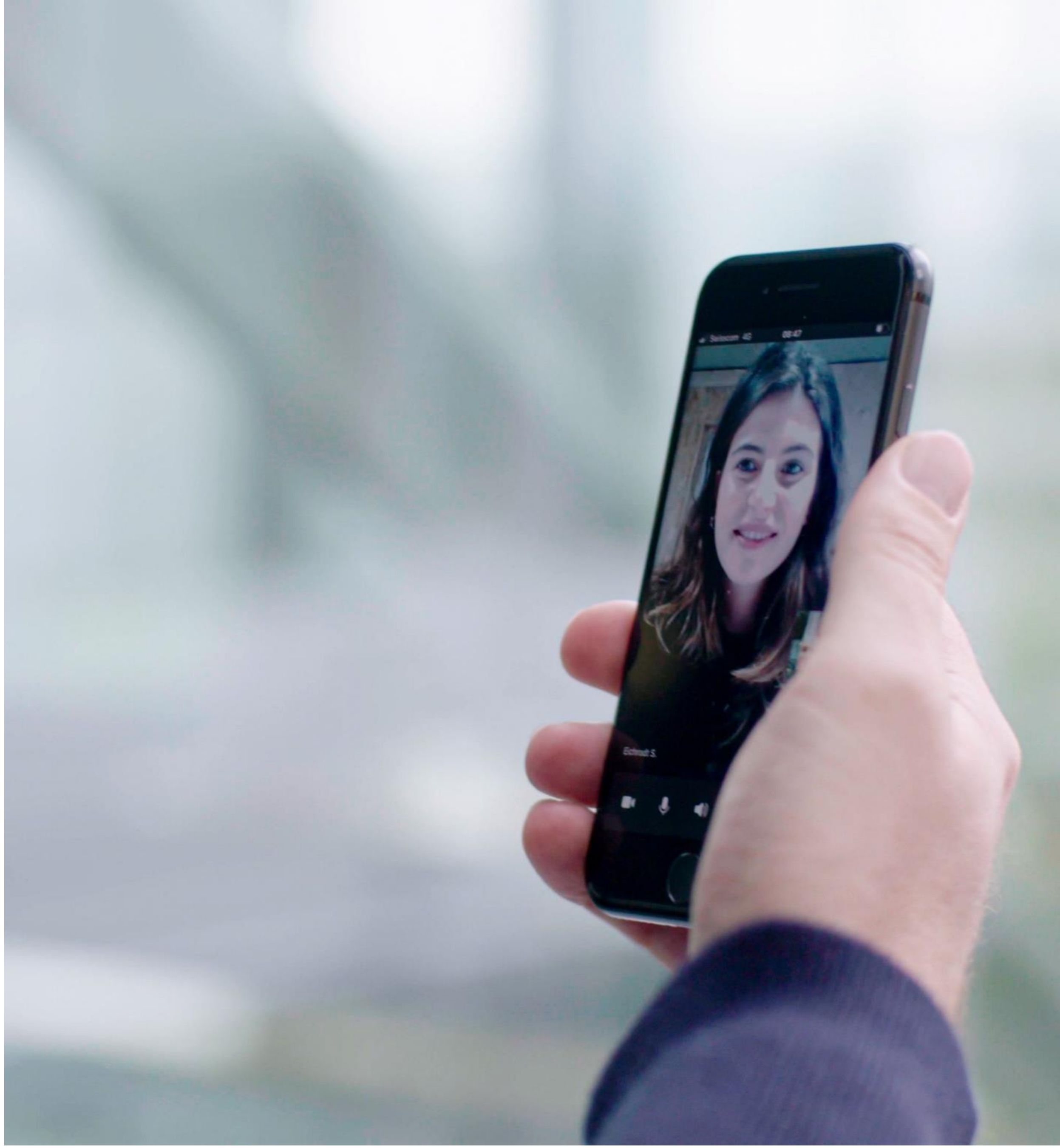
49 000+ Benutzendenaccounts
27 000+ PCs, Tablets, Convertibles
510+ Standorte
4000+ WLAN-Access Points

Wir sind verantwortlich für die Schulinformatik. Unser Team plant, entwickelt, implementiert und betreibt die zentrale IT-Infrastruktur der Volksschulen der Stadt Zürich.

Arbeitsplatz

20 000+ Arbeitsplätze
1000+ Online-Meetings pro Tag
11 000+ Nutzende von mobilen Lösungen

Wir stellen städtischen Mitarbeitenden alle benötigten digitalen Tools zur Verfügung, um ihren Arbeitsalltag flexibel und ortsunabhängig zu gestalten sowie die Zusammenarbeit und Vernetzung untereinander zu vereinfachen.



RZ-Infrastruktur & Netzwerk

2700 m² RZ-Fläche
ca. 8100 Server
ca. 780 Standorte
ca. 3500 km langes Glasfasernetz

In unseren zwei Rechenzentren (RZ) werden ein Grossteil der Daten der Stadt Zürich verwaltet. Die Rechenzentren werden höchsten Anforderungen an Betriebssicherheit, Verfügbarkeit und Energieeffizienz gerecht.

Cloudintegration

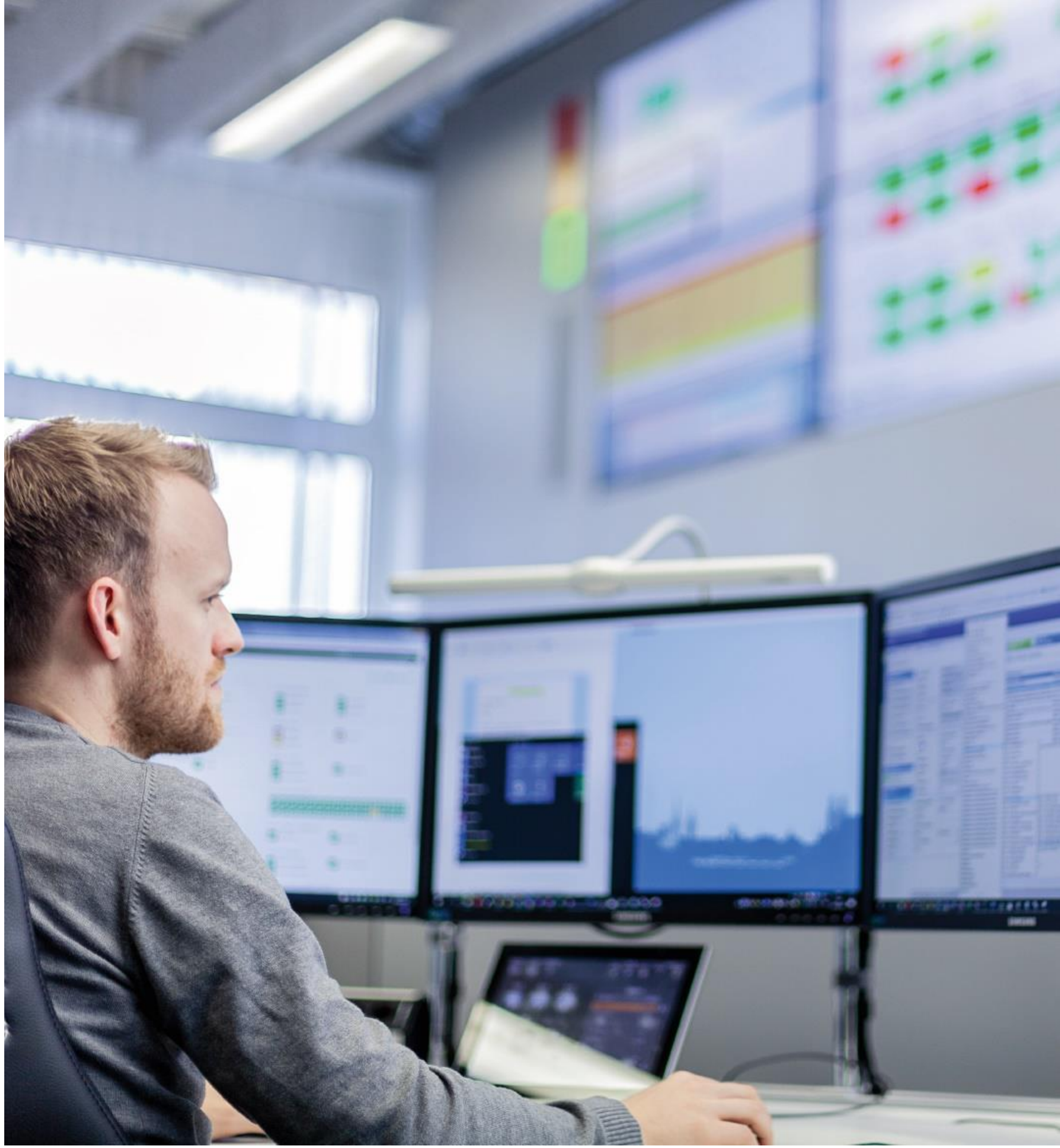
Mit Enterprise Defined Datacenter, Container Management Plattform (beides Private Clouds in unseren RZ on-prem) und ausgewählten Public-Cloud-Providern setzen wir auf eine hybride Multi-Cloud.

Wir ermöglichen den Dienstabteilungen der Stadt Zürich eine wirtschaftliche, sichere und rechtskonforme Nutzung von Cloud-Services.

Informations-sicherheit

Unser Team setzt alles daran, Daten und Informationen der Stadt Zürich zu schützen.

Wir unterstützen und beraten die Stadtverwaltung in allen Belangen der Informationssicherheit und sensibilisieren die städtischen Mitarbeitenden regelmässig.
Unser Security Operation Center ist die Zentrale für alle sicherheits-relevanten Cyber-Ereignisse.

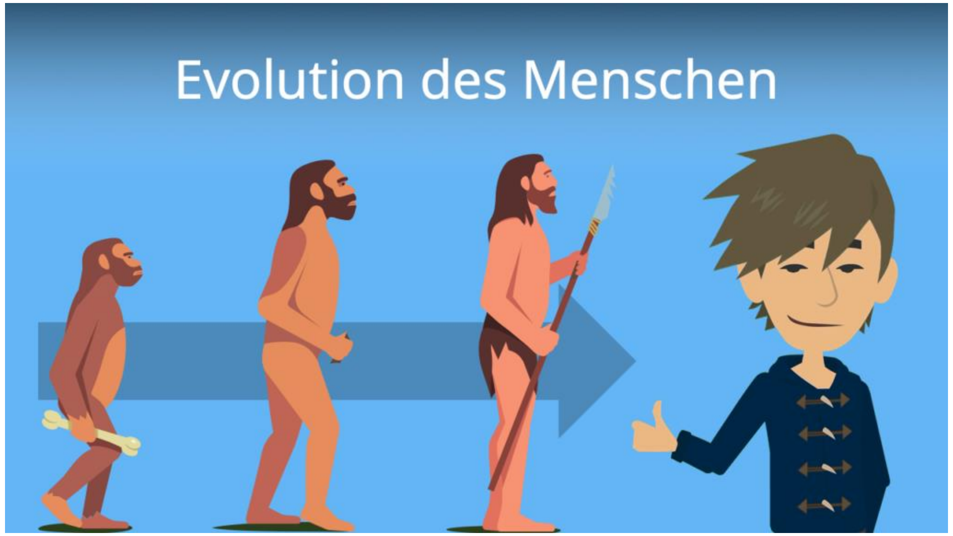


Support & Schulung

147 000 Anrufe pro Jahr
unter 30 Sekunden Reaktionszeit
415 Selbstlernkurse mit 1413 Lernmodulen

Unser Service Desk ist die zentrale Anlaufstelle bezüglich IT-Fragen und -Störungsmeldungen für alle Mitarbeitenden der Stadtverwaltung. Unser Schulungszentrum ist für die IT-Weiterbildung und das E-Learning für die gesamte Stadt verantwortlich.

Stadt Zürich
Print&Scan History



Ein Reise von der Steinzeit ins Goldene Zeitalter…….

Source: https://de.wikipedia.org/wiki/Zeittafel_der_Menschheitsgeschichte

Frühgeschichte: Steinzeit

…. bis 2012

Backendsystem dezentral und von den einzelnen Departementen in eigen Regie Betrieben

Diverse Software Lösungen und unzählige Endgeräte Typen

Know How und Betriebsmaturität sehr unterschiedlich, entsprechend Qualität und Sicherheitsniveau nicht überall optimal

- **5670 Drucker Total**
- **260 verschiedene Printer Model**
- **mehrere Printserver Systemen**
- **Scan Konfiguration auf lokaler Geräte Ebene**
- **Treiber "Nightmare"**

Bronzezeit

Hochkultur: Bronzezeit

2012 bis 2021

Start des "Gross" Projekts ZOOM1*

Konsolidierung der Printer und System Landschaft

Platzierungskonzept mit Umsetzung

Zentralisierte und einheitliche Backend Lösung und standardisierte Endgeräte Flotte

Einführung des KlickPreises

***(Zürich Optimized Output Management)**

- **Reduktion auf**
  9 Printer Modelle (vorher 260)
  3950 Drucker (vorher 5670)
- **Zentralisierung auf 50 (!) Backend Systemen**
- **Einsatz von Safecom, Autostore**
- **Einführung von FollowMe Printing → eine Herausforderung !!**
- **Zusätzlich diverse Label und Plotter etc. Systeme dazugekommen → doch wieder Treiber "Nightmare"**

Frühe Neuzeit: Moderne

2021-2023

Frühe Neuzeit

Start des Projekts ZOOM2*

InSourcing des Know Hows der Backendsysteme und Einführung VPSX R3 als zentrale Print&Scan Plattform

Neuer Endgeräte Partner Ricoh

*(Zürich Optimized Output Management)

- **Reduktion der Backend Systemen auf 10 Server (vorher 50)**
- **Kein Treiber "Nightmare" mehr vorhanden – wirklich ☺**
- **Eine zentrale Print/Scan Lösung für die ganze Stadt**

Key Learnings VPSX:

- **Citrix Integration VPSX nicht einfach**
- **Loadbalancing Komplexität**
- **Secure Scan Maturität noch nicht auf dem erwarteten Niveau → heute 👍**

Goldenes Zeitalter ?

2024 +

Migration auf R4 (Q1/24)

Backendmigration auf Privat Cloud Plattform OIZ

Einbinden der Cloud Welten (M365) und neuen Arbeitsmethoden (HomeOffice, Shared Workplaces)

Bleiben Sie mit uns in Kontakt.

T +41 44 412 90 00
stadt-zuerich.ch/oiz

LRS User Konferenz 2023 Zürich

Kaffee & Networking

LRS OUTPUT MANAGEMENT

Product Update and Roadmap

Mark Ladd & Jo Lang

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

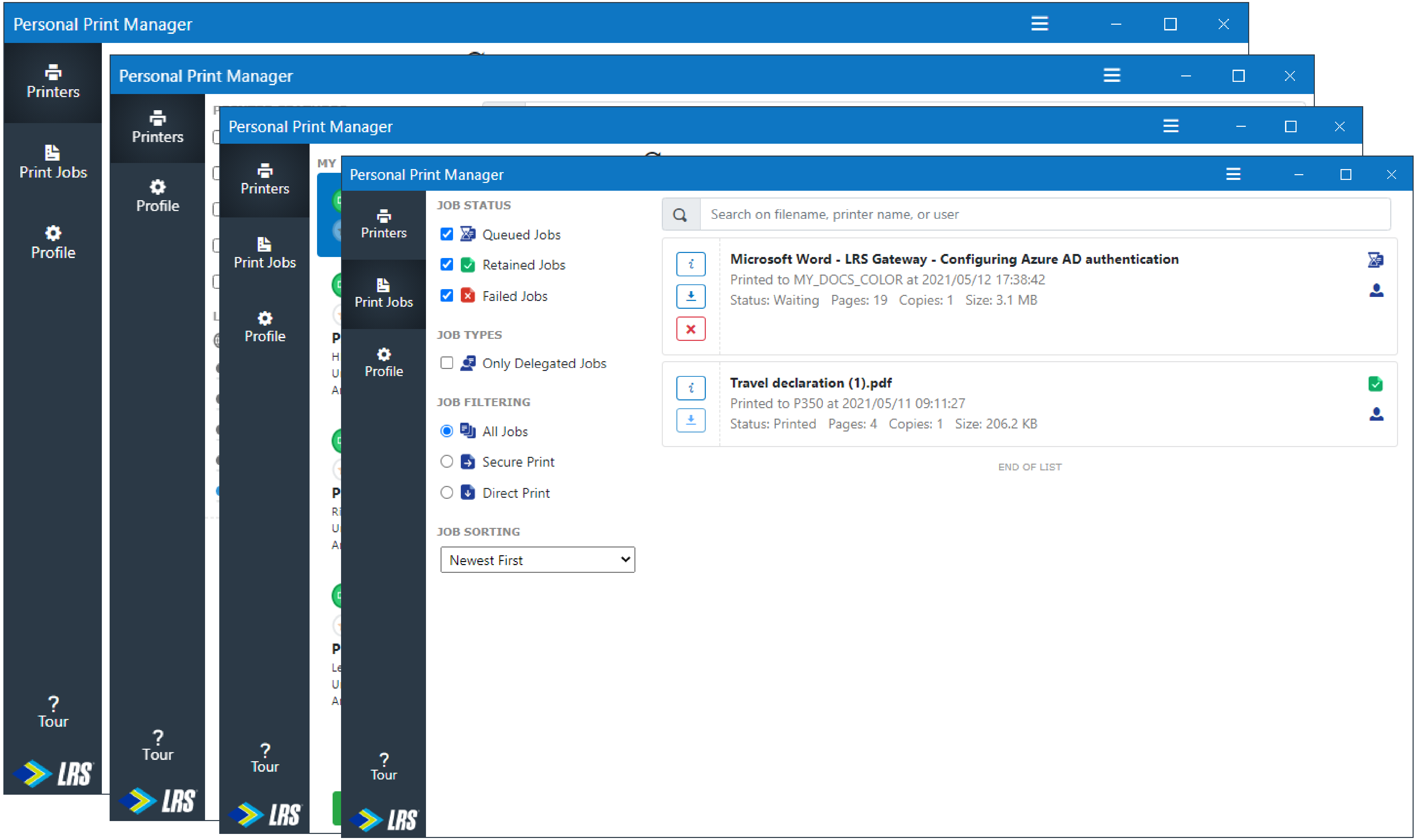
And now –

- 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

Personal Print Manager (PPM)


Personal Print Manager
Printers
Print Jobs
Profile
Tour
LRS

JOB STATUS

- ☑ Queued Jobs
- ☑ Retained Jobs
- ☑ Failed Jobs

JOB TYPES

- ☐ Only Delegated Jobs

JOB FILTERING

- ● All Jobs
- ○ Secure Print
- ○ Direct Print

JOB SORTING

Newest First

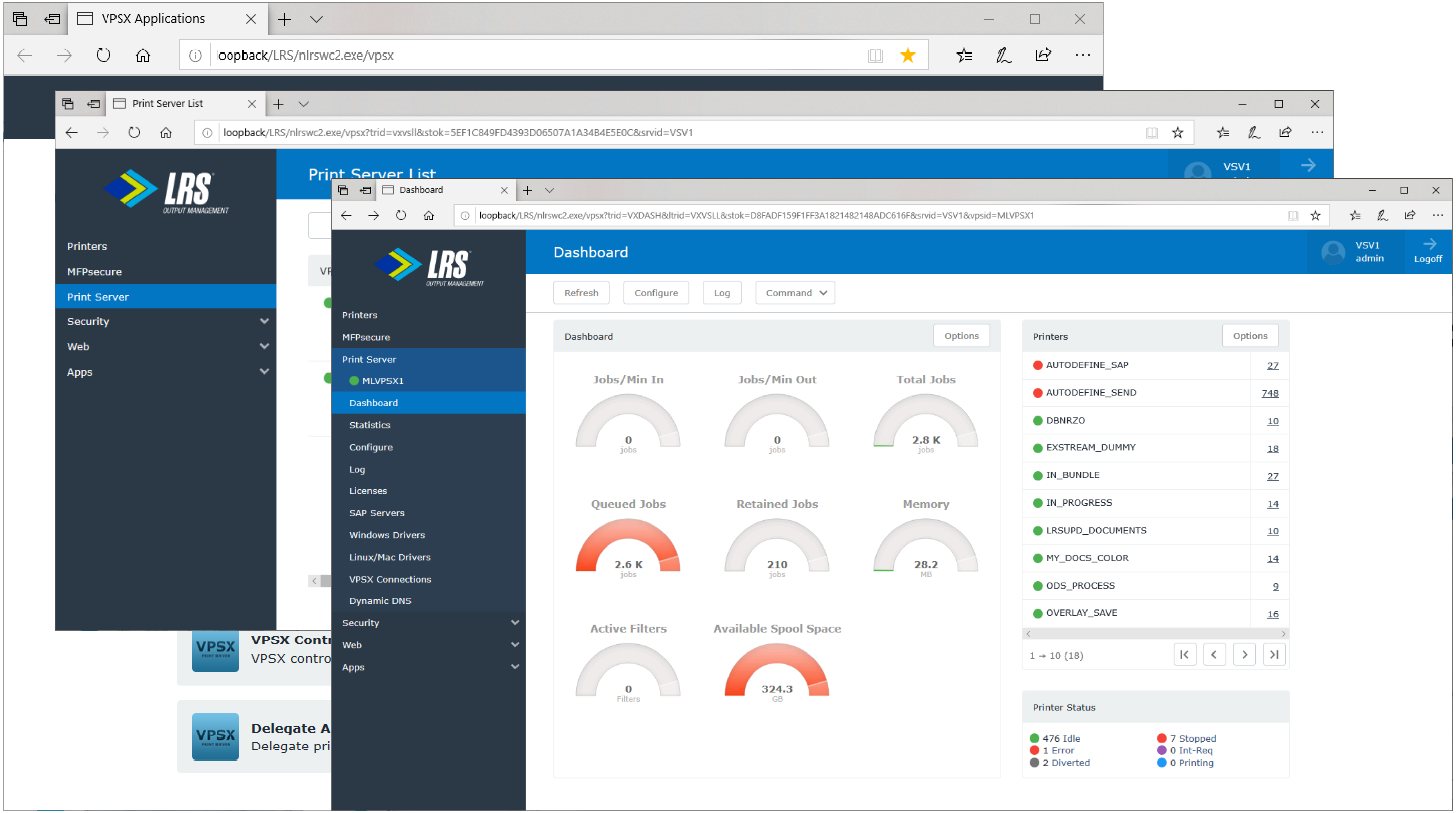
Search on filename, printer name, or user

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

END OF LIST

Monitoring and Control


VPSX Applications
Print Server List
Dashboard
LRS OUTPUT MANAGEMENT
Printers
MFPsecure
Print Server
Security
Web
Apps
Print Server List
VSV1
VPSX Contr
VPSX contro
Delegate A
Delegate pri
VPSX
MLVPSX1
Dashboard
Statistics
Configure
Log
Licenses
SAP Servers
Windows Drivers
Linux/Mac Drivers
VPSX Connections
Dynamic DNS
VSV1
admin
Logoff
Refresh
Configure
Log
Command
Options
Options

loopback/LRS/nlrswc2.exe/vpsx

loopback/LRS/nlrswc2.exe/vpsx?trid=vxvsll&stok=5EF1C849FD4393D06507A1A34B4E5E0C&srvid=VSV1

loopback/LRS/nlrswc2.exe/vpsx?trid=VXDASH&ltrid=VXVSLL&stok=D8FADF159F1FF3A1821482148ADC616F&srvid=VSV1&vpsid=MLVPSX1

Dashboard

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

Printers

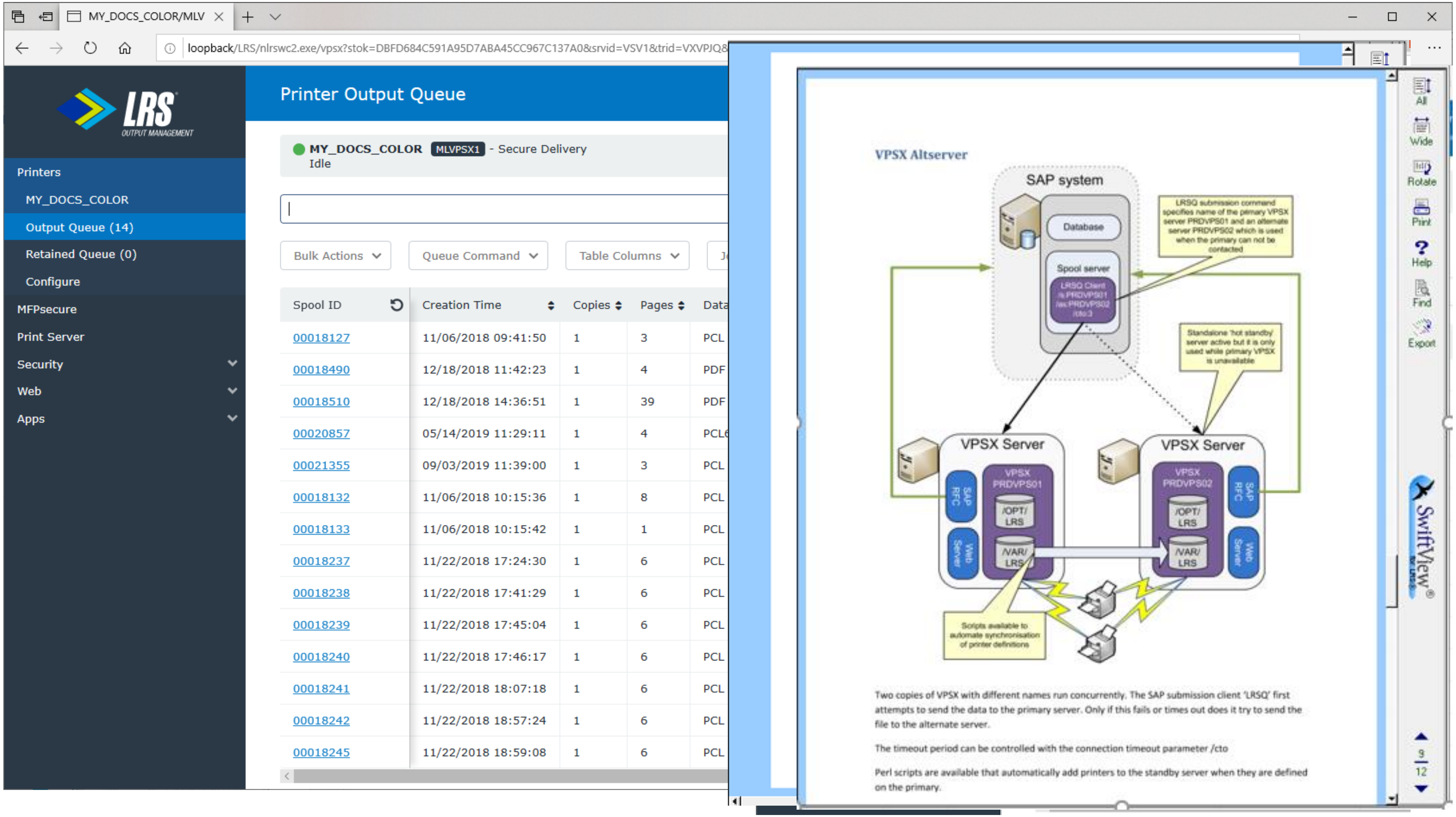
🟥 AUTODEFINE_SAP	27
🟥 AUTODEFINE_SEND	748
🟩 DBNRZO	10
🟩 EXSTREAM_DUMMY	18
🟩 IN_BUNDLE	27
🟩 IN_PROGRESS	14
🟩 LRSUPD_DOCUMENTS	10
🟩 MY_DOCS_COLOR	14
🟩 ODS_PROCESS	9
🟩 OVERLAY_SAVE	16

1 → 10 (18)

Printer Status

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

Monitoring and Control


MY_DOCS_COLOR/MLV
loopback/LRS/nlrswc2.exe/vpsx?stok=DBFD684C591A95D7ABA45CC967C137A0&srvid=VSV1&trid=VXVPJQ&
LRS
OUTPUT MANAGEMENT
Printers
MY_DOCS_COLOR
Output Queue (14)
Retained Queue (0)
Configure
MFPsecure
Print Server
Security
Web
Apps
Bulk Actions
Queue Command
Table Columns
All
Wide
Rotate
Print
Help
Find
Export
SwiftView
9
12
SAP system
Database
Spool server
LRSQ Client
/s:PRDVPS01
/as:PRDVPS02
/cto:3
LRSQ submission command specifies name of the primary VPSX server PRDVPS01 and an alternate server PRDVPS02 which is used when the primary can not be contacted
Standalone 'hot standby' server active but it is only used while primary VPSX is unavailable
VPSX Server
VPSX PRDVPS01
SAP RFC
Web Server
/OPT/ LRS
/VAR/ LRS
VPSX Server
VPSX PRDVPS02
SAP RFC
Web Server
/OPT/ LRS
/VAR/ LRS
Scripts available to automate synchronisation of printer definitions

Printer Output Queue

MY_DOCS_COLOR MLVPSX1 - Secure Delivery
Idle

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

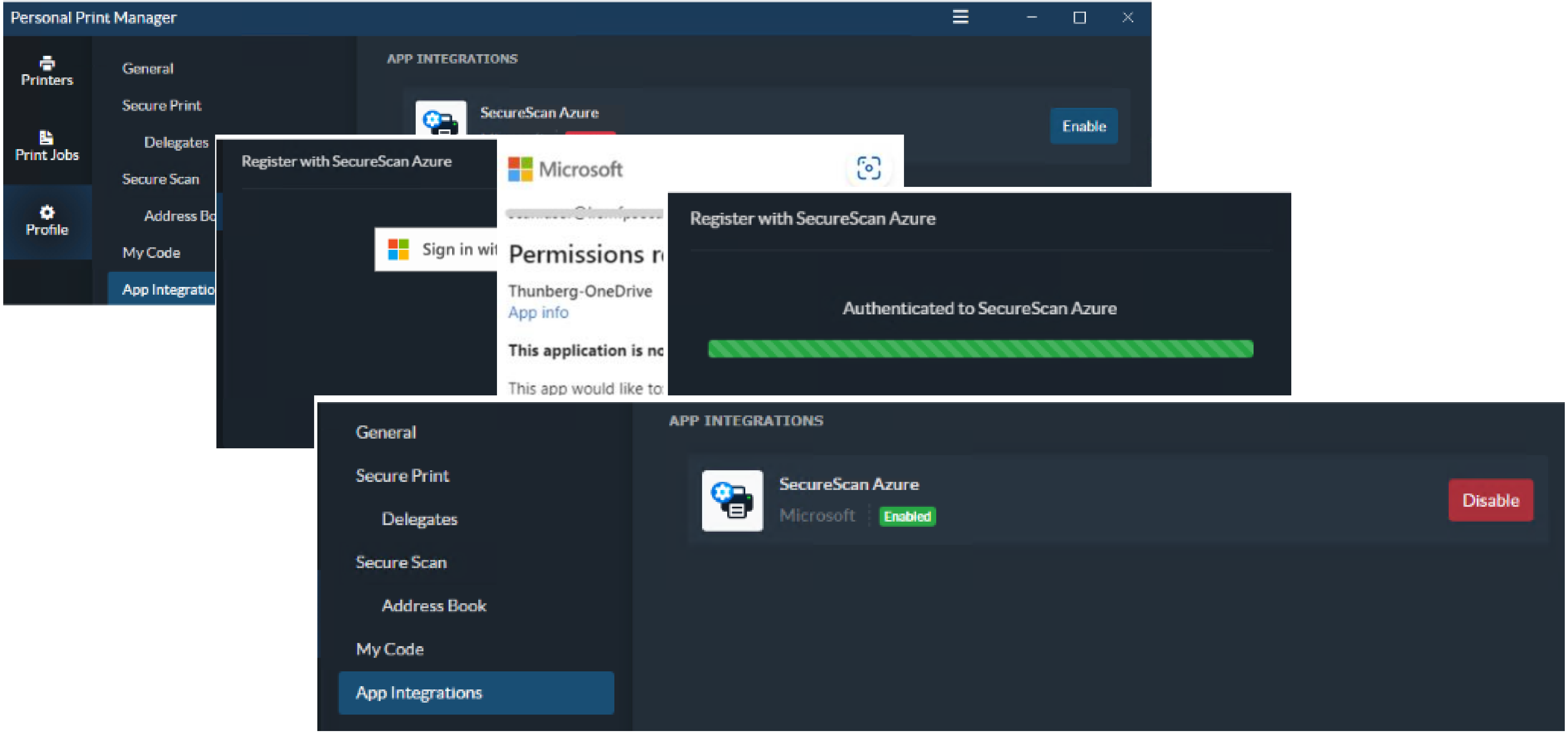
VPSX Altserver

Two copies of VPSX with different names run concurrently. The SAP submission client 'LRSQ' first attempts to send the data to the primary server. Only if this fails or times out does it try to send the file to the alternate server.

The timeout period can be controlled with the connection timeout parameter /cto

Perl scripts are available that automatically add printers to the standby server when they are defined on the primary.

Scan to OneDrive – user access token


Personal Print Manager
Printers
Print Jobs
Profile
General
Secure Print
Delegates
Secure Scan
Address Bo
My Code
App Integratio
APP INTEGRATIONS
SecureScan Azure
Enable
Microsoft
Sign in wit
Thunberg-OneDrive
App info
General
Secure Print
Delegates
Secure Scan
Address Book
My Code
App Integrations
APP INTEGRATIONS
SecureScan Azure
Microsoft
Enabled
Disable

Register with SecureScan Azure

Permissions r

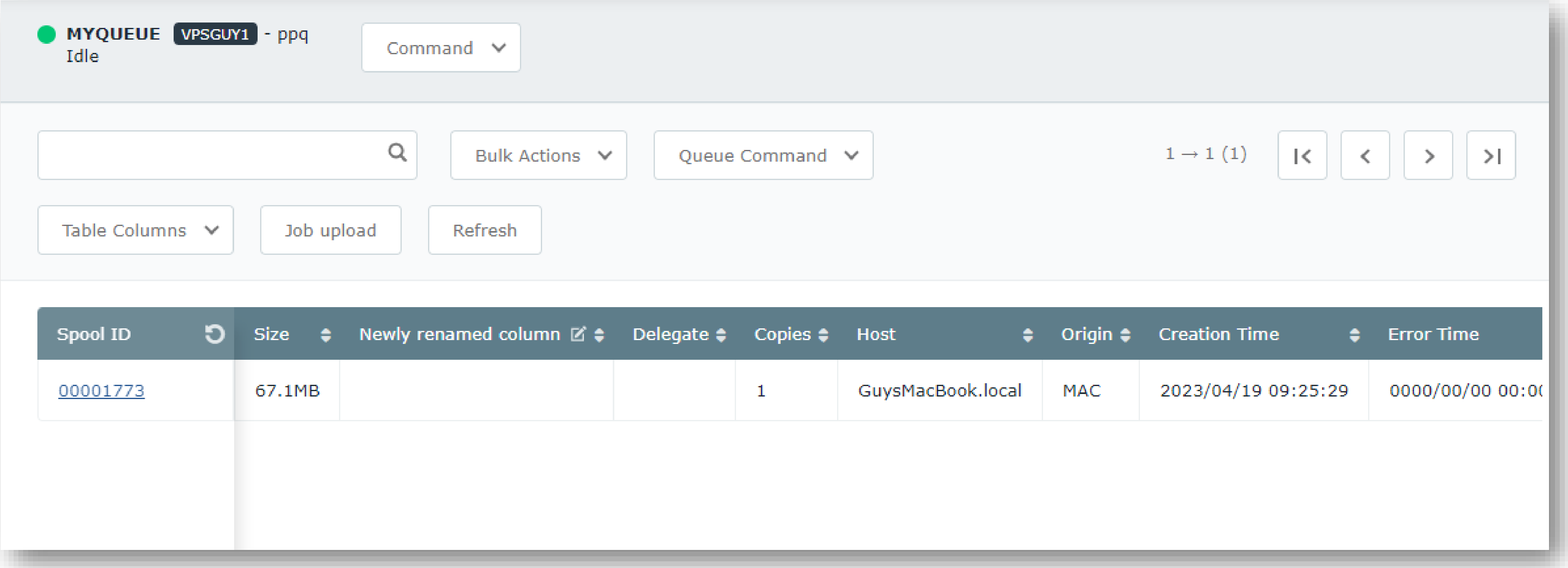
This application is no

This app would like to:

Register with SecureScan Azure

Authenticated to SecureScan Azure

Origin field

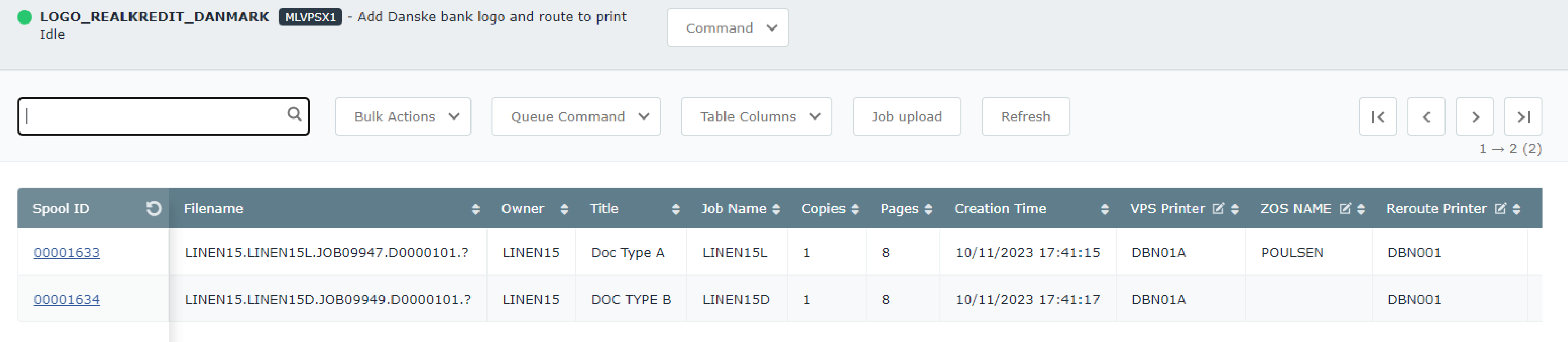

Command
Bulk Actions
Queue Command
Table Columns
Job upload
Refresh

MYQUEUE VPSGUY1 - ppq
Idle

1 → 1 (1)

Spool ID	Size	Newly renamed column	Delegate	Copies	Host	Origin	Creation Time	Error Time
00001773	67.1MB			1	GuysMacBook.local	MAC	2023/04/19 09:25:29	0000/00/00 00:0

Customize Column Headings


Command
Bulk Actions
Queue Command
Table Columns
Job upload
Refresh
1 → 2 (2)

LOGO_REALKREDIT_DANMARK MLVPSX1 - Add Danske bank logo and route to print
Idle

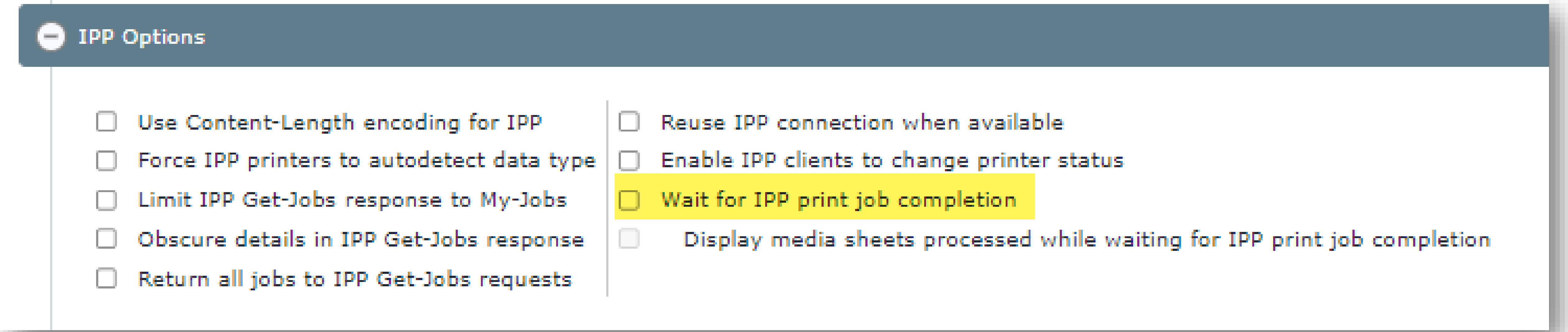
Spool ID	Filename	Owner	Title	Job Name	Copies	Pages	Creation Time	VPS Printer	ZOS NAME	Reroute Printer
00001633	LINEN15.LINEN15L.JOB09947.D0000101.?	LINEN15	Doc Type A	LINEN15L	1	8	10/11/2023 17:41:15	DBN01A	POULSEN	DBN001
00001634	LINEN15.LINEN15D.JOB09949.D0000101.?	LINEN15	DOC TYPE B	LINEN15D	1	8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

SNMP

- SNMP Property Updates at print time
    - We have long done this for LPD, SOCK, PJL 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.



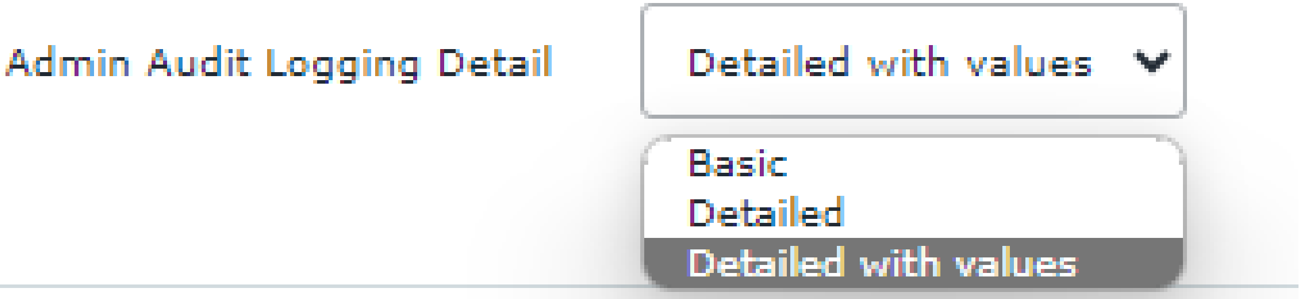
IPP Options

☐ Use Content-Length encoding for IPP
☐ Force IPP printers to autodetect data type
☐ Limit IPP Get-Jobs response to My-Jobs
☐ Obscure details in IPP Get-Jobs response
☐ Return all jobs to IPP Get-Jobs requests

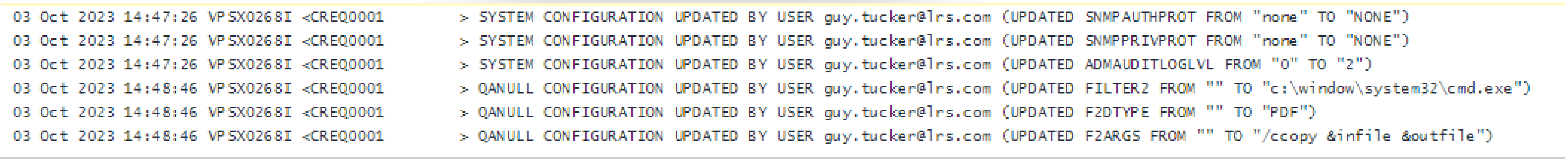
☐ Reuse IPP connection when available
☐ Enable IPP clients to change printer status
☐ Wait for IPP print job completion
☐ Display media sheets processed while waiting for IPP print job completion

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.

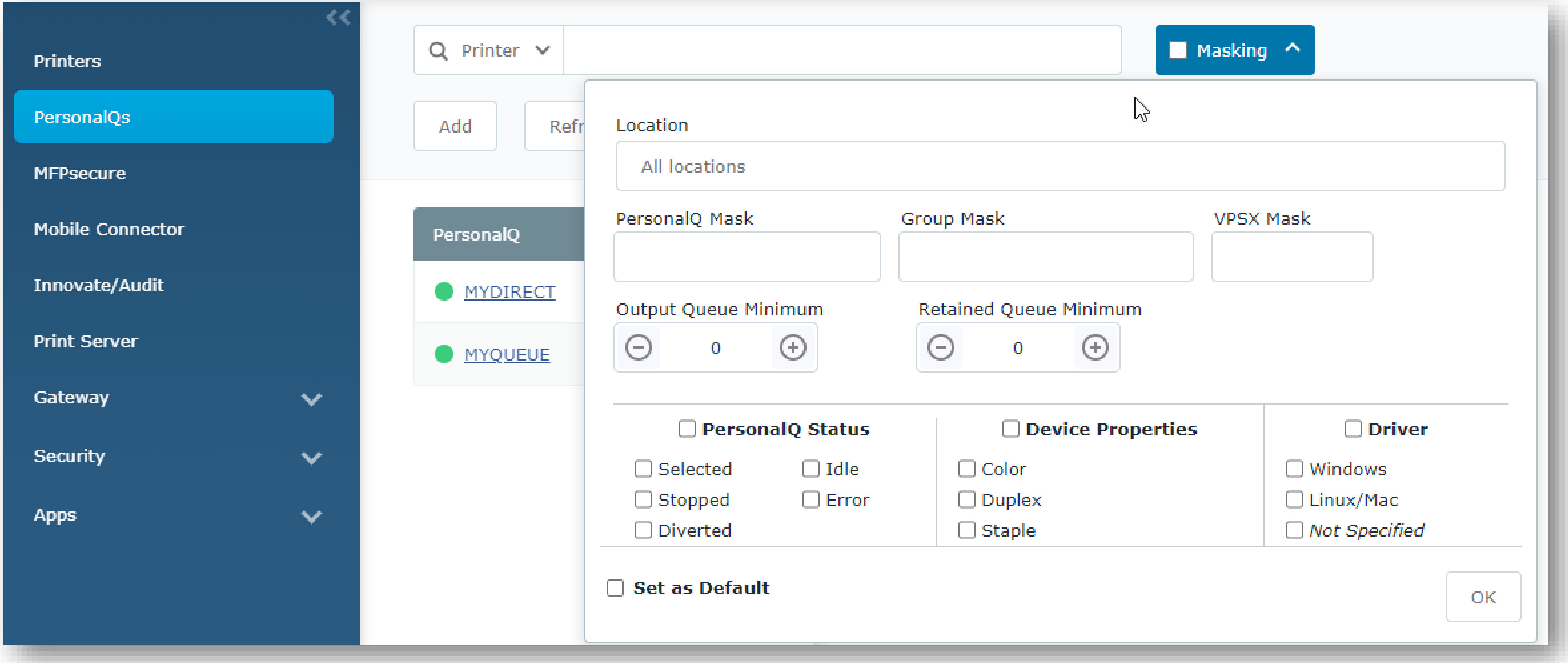


Admin Audit Logging Detail: Detailed with values

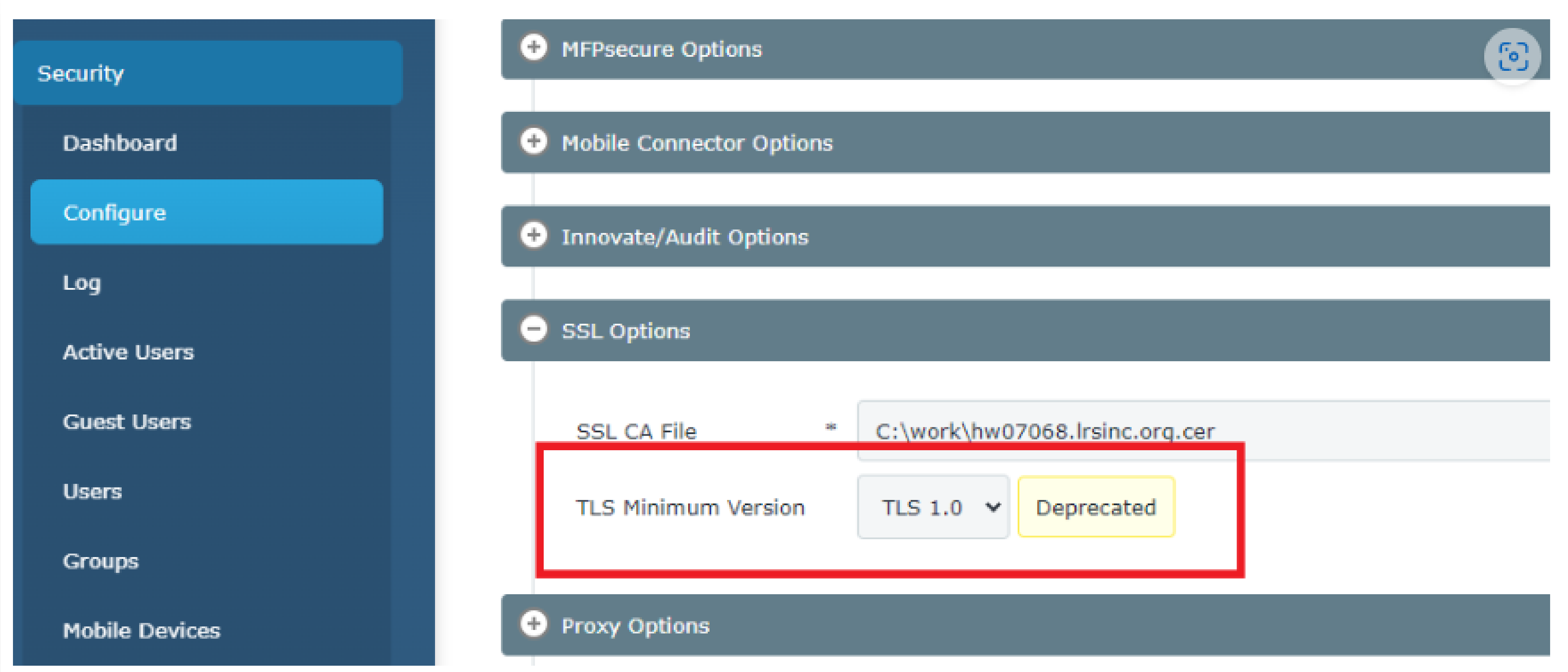


```
03 Oct 2023 14:47:26 VPSX0268I <CREQ0001          > SYSTEM CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED SNMPAUTHPROT FROM "none" TO "NONE")
03 Oct 2023 14:47:26 VPSX0268I <CREQ0001          > SYSTEM CONFIGURATION UPDATED BY USER guy.tucker@lrs.com (UPDATED SNMPPRIVPROT FROM "none" TO "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


Printers
PersonalQs
MFPsecure
Mobile Connector
Innovate/Audit
Print Server
Gateway
Security
Apps
Printer
Add
Refr
PersonalQ
MYDIRECT
MYQUEUE
☐ Masking
Location
All locations
PersonalQ Mask
Group Mask
VPSX Mask
Output Queue Minimum
0
Retained Queue Minimum
0
☐ PersonalQ Status
☐ Selected
☐ Idle
☐ Stopped
☐ Error
☐ Diverted
☐ Device Properties
☐ Color
☐ Duplex
☐ Staple
☐ Driver
☐ Windows
☐ Linux/Mac
☐ Not Specified
☐ Set as Default
OK

Security hooks


Security
Dashboard
Configure
Log
Active Users
Guest Users
Users
Groups
Mobile Devices
MFPsecure Options
Mobile Connector Options
Innovate/Audit Options
SSL Options
Proxy Options

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

TLS Minimum Version TLS 1.0 Deprecated

LRS/Gateway

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

PPM / VSPA

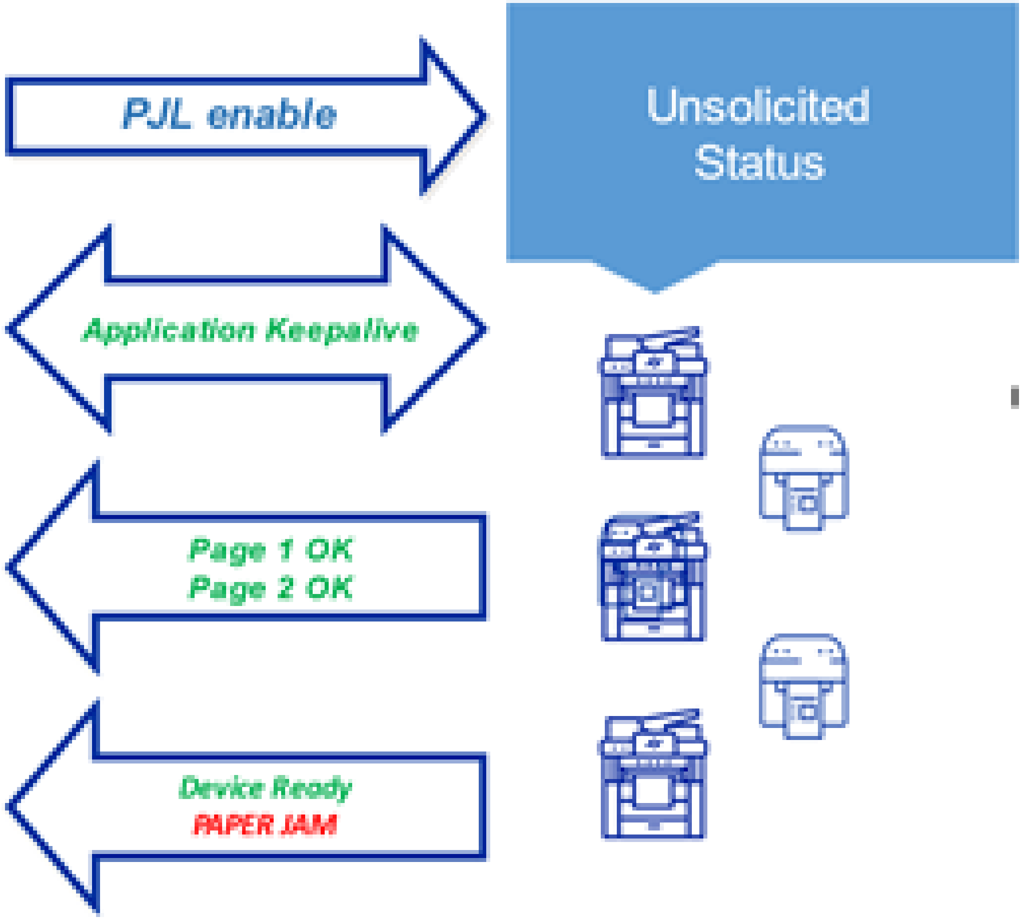
- Color scheme better fits into the VPSX R4 look and feel
- If a default printer is changed in PPM, it gets reported back to Gateway for continuity
- Also, Default Printer can roam bound either to the user of terminal
- And a Direct printer can be a default.

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 pr
- Now extended to Zebra and SATO label p



PJL enable

Unsolicited Status

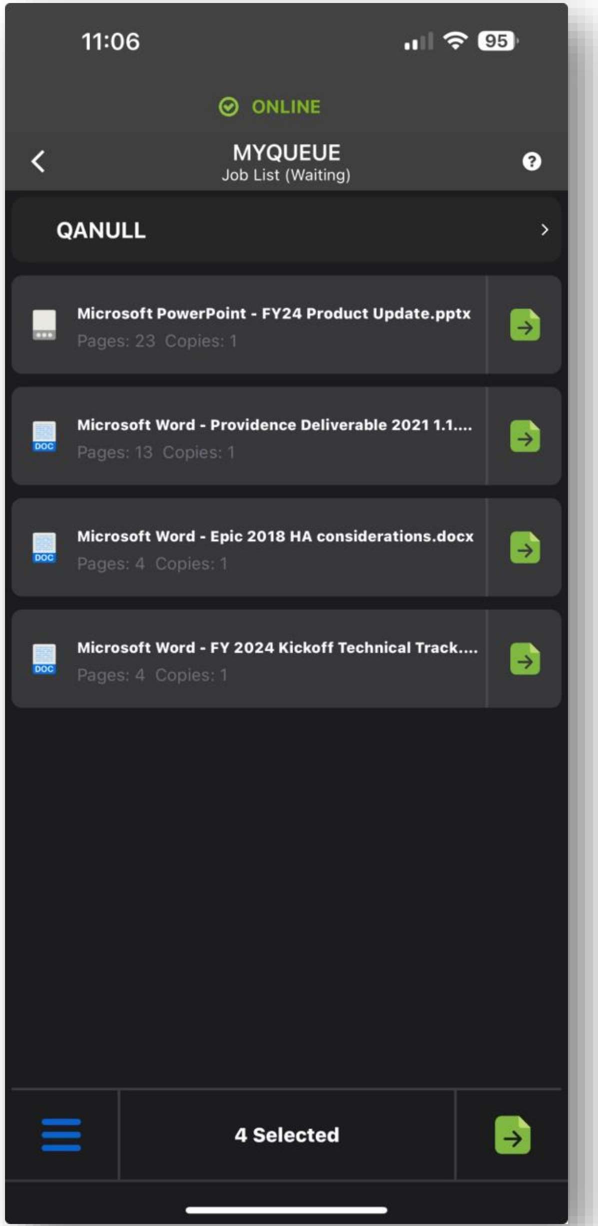
Application Keepalive

Page 1 OK
Page 2 OK

Device Ready
PAPER JAM

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


11:06
95
ONLINE
MYQUEUE
Job List (Waiting)
QANULL
4 Selected

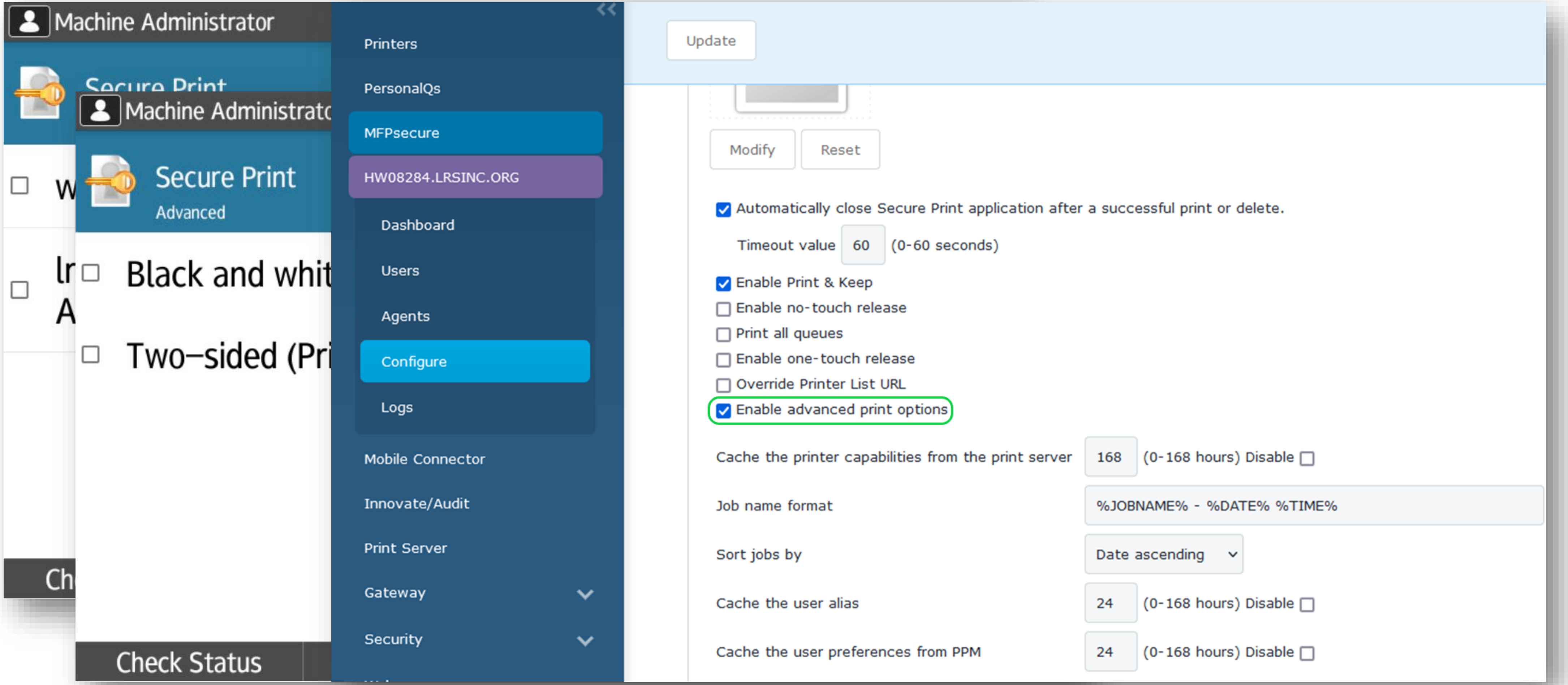
Microsoft PowerPoint - FY24 Product Update.pptx
Pages: 23 Copies: 1

Microsoft Word - Providence Deliverable 2021 1.1....
Pages: 13 Copies: 1

Microsoft Word - Epic 2018 HA considerations.docx
Pages: 4 Copies: 1

Microsoft Word - FY 2024 Kickoff Technical Track....
Pages: 4 Copies: 1

Controlling print behavior from the fleet


Machine Administrator
Secure Print
Machine Administrato
Secure Print
Advanced
Black and whit
Two-sided (Pri
Check Status
Printers
PersonalQs
MFPsecure
HW08284.LRSINC.ORG
Dashboard
Users
Agents
Configure
Logs
Mobile Connector
Innovate/Audit
Print Server
Gateway
Security
Update
Modify
Reset

☑ 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

Cache the printer capabilities from the print server 168 (0-168 hours) Disable ☐

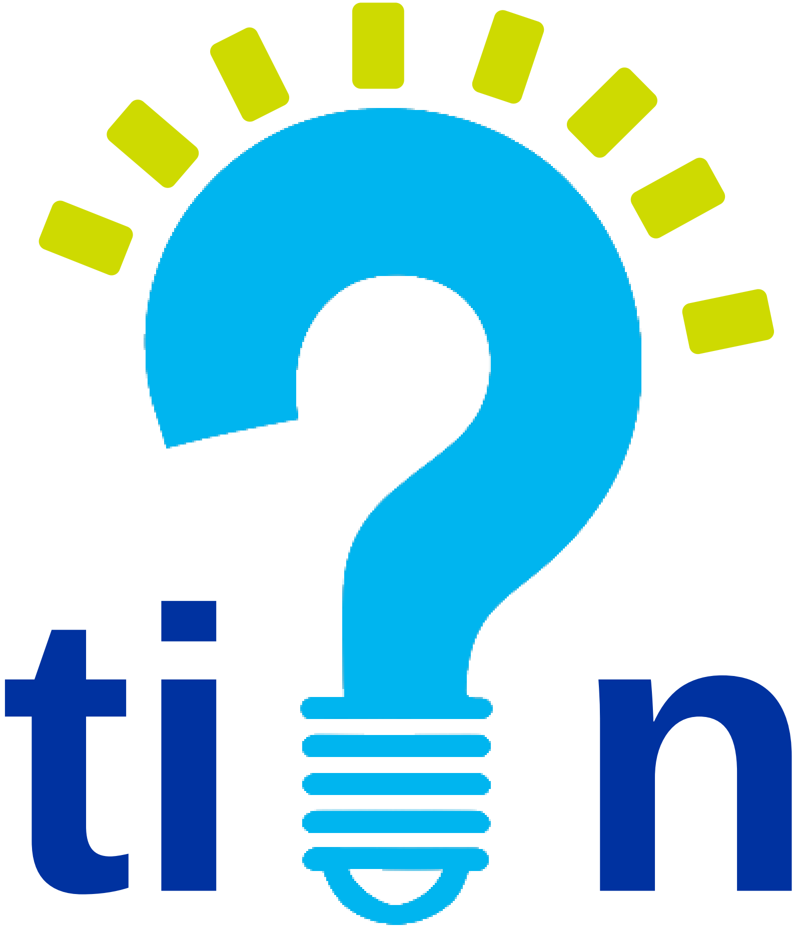
Job name format %JOBNAME% - %DATE% %TIME%

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 ☐

Any

Questins

LRS User Konferenz 2023 München

LRS und SAP in der neuen Welt

Joachim Lang

Themen

- LRS – alte Welt
- LRS - Zwischendrin
- LRS - Neue & alte Welt

Was bietet LRS

- Von Anbeginn
- Was kam dazu
- Neue Features

SAP Druck ändert sich

Früher war SAP Output nicht “Fully composed”. Durch LRS:

- ✓Geräte-unabhängiger Druckdatenstrom
- ✓Keine Abhängigkeit von SIMMS und DIMMS
- ✓Generische Gerätetypen (SAPGOFU and ZPL)
- ✓Unicode Ausgabe auf allen Laserdruckern
- ✓Barcodes Ausgabe auf allen Laserdruckern
- ✓Schriften werden selektiv in die Druckdaten eingemischt weil SAP das nicht macht und Unix Systeme Windows Fonts nicht lizensiert haben.

Gesicherte Druckausgabe

Geräteunabhängigkeit

Generierung von Barcodes & Druckerschriften

SAP Evolution bis heute

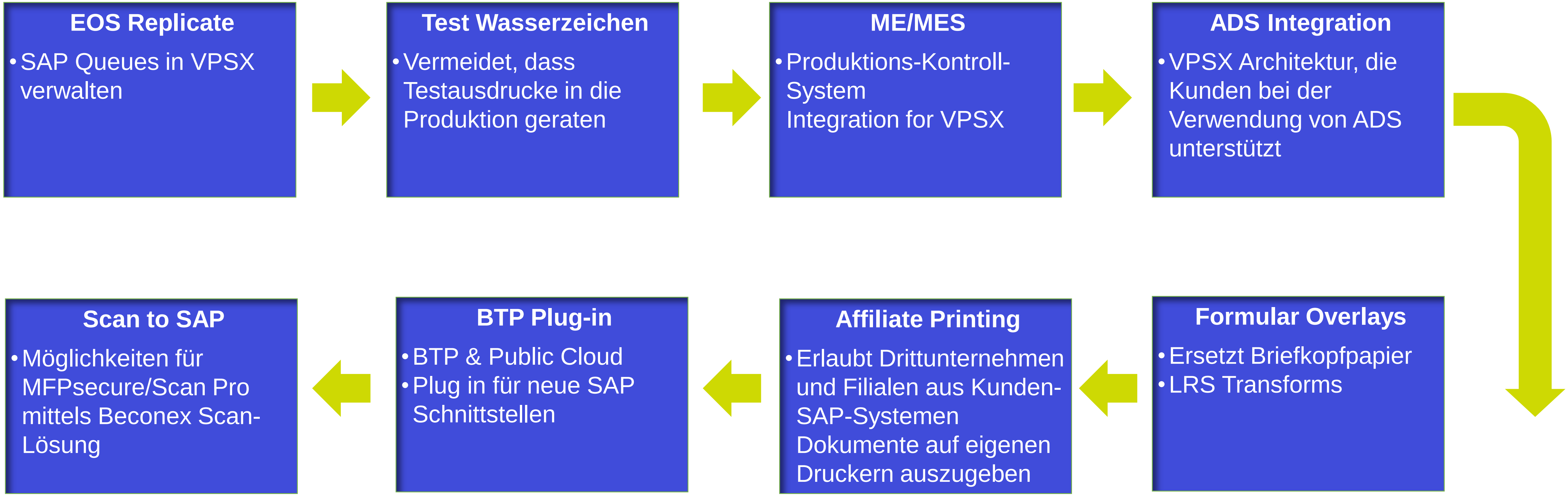
- ✓ SAP Kunden mussten Adobe Document Server (ADS) nutzen.
  - ✓ Bietet umfangreich gestaltete Dokumente, bereit zum Druck – Keine Font- oder Barcode Module werden im Drucker benötigt.
  - ✓ Viele Kunden nutzen aber nach wie vor alte Formate wie SAPScript and SmartForms. LRS Transforms werden also immer noch in vielen Fällen benötigt.
- ✓ Funktionen kamen hinzu, die es den SAP Basis Admins Leichter gemacht haben, Druckerdefinitionen zu verwalten.
- ✓ Es wurde Leichter, Druckerdefinitionen über SAP Systeme zu verteilen.
- ✓ SAP erstellte mit Unterstützung durch LRS eine API zur Verwaltung von Druckern. Das EOS Replicate Skript entstand und SAP Drucker können direkt aus VPSX ohne SAP Interaktion verwaltet werden.

SAP wechselt zu ADS

SAP erstellt druckfertige Dokumente

LRS / SAP entwickeln eine Drucker Synchronisierungsfunktion

LRS liefert anhaltend Mehrwert und neue Funktionen



EOS Replicate

- SAP Queues in VPSX verwalten

Test Wasserzeichen

- Vermeidet, dass Testausdrucke in die Produktion geraten

ME/MES

- Produktions-Kontroll-System Integration for VPSX

ADS Integration

- VPSX Architektur, die Kunden bei der Verwendung von ADS unterstützt

Formular Overlays

- Ersetzt Briefkopfpapier
- LRS Transforms

Affiliate Printing

- Erlaubt Drittunternehmen und Filialen aus Kunden-SAP-Systemen Dokumente auf eigenen Druckern auszugeben

BTP Plug-in

- BTP & Public Cloud
- Plug in für neue SAP Schnittstellen

Scan to SAP

- Möglichkeiten für MFPsecure/Scan Pro mittels Beconex Scan-Lösung

ME: Manufacturing Execution | BTP: Business Technology Platform

EOS Replicate

- Automatische SAP Drucker Definitionen in allen Systemen
  - Kein Zeitaufwand für SAP Basis für Druckerverwaltung
  - Neue Drucker und Änderungen in Minuten
  - Kann mit einem IMAC/D Prozess verknüpft werden
- Zeitbedarf für Druckprobleme sinkt für SAP Basis und Programmierung auf Null
  - Projekte werden nicht mehr durch tägliche Supportaufgaben und Druckproblemen unterbrochen
  - Fühlt sich an wie 25% mehr Personal
- Sichere Zustellung
  - SAP Output geht nicht mehr verloren oder wird doppelt produziert

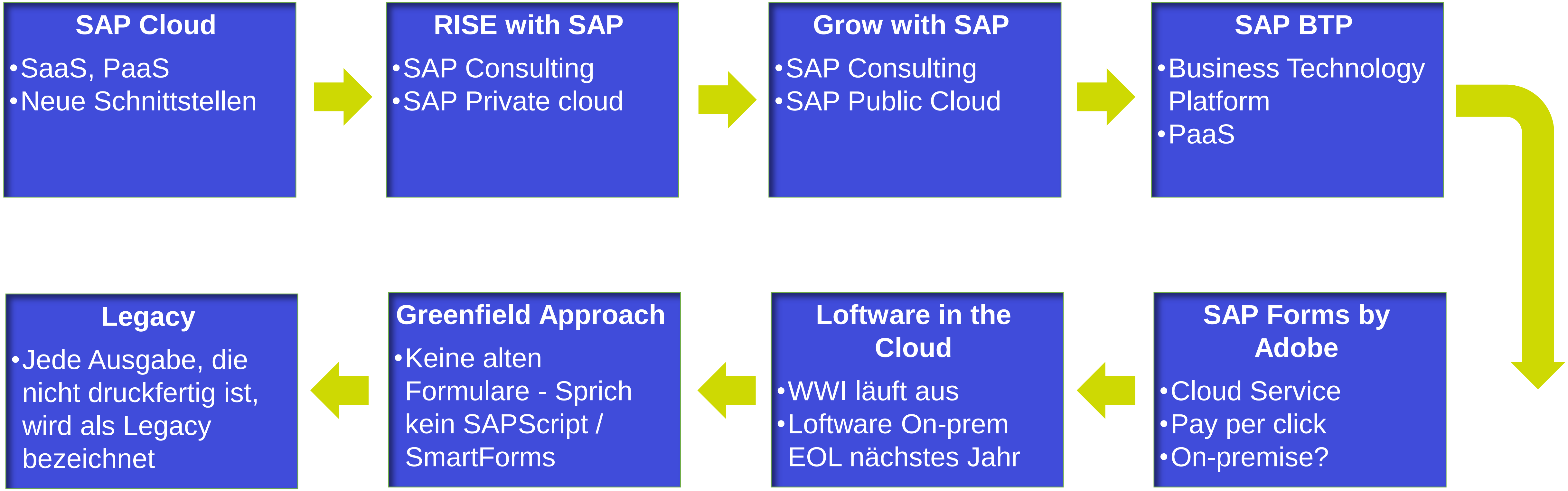
Affiliate Printing

- Unterstützt SAP Drucker für Drittunternehmen
  - Business Partner haben Zugriff auf Kunden-SAP-System
  - Business Partner haben eigene Druck-Infrastruktur
  - Internet Only Zugriff für Partner

- SAP Infrastruktur Vereinfachung
  - Business Partner VPN’s werden nicht mehr für SAP Druck benötigt
  - Keine speziellen Portöffnungen nötig

- SAP Lieferkette wird unterstützt
  - Business Partner drucken kritische SAP Labels und Dokumente auf eigenen Druckern

… aber jetzt geht es nur noch um S4/HANA und die Cloud



SAP Cloud

- SaaS, PaaS
- Neue Schnittstellen

RISE with SAP

- SAP Consulting
- SAP Private cloud

Grow with SAP

- SAP Consulting
- SAP Public Cloud

SAP BTP

- Business Technology Platform
- PaaS

SAP Forms by Adobe

- Cloud Service
- Pay per click
- On-premise?

Loftware in the Cloud

- WWI läuft aus
- Loftware On-prem EOL nächstes Jahr

Greenfield Approach

- Keine alten Formulare - Sprich kein SAPScript / SmartForms

Legacy

- Jede Ausgabe, die nicht druckfertig ist, wird als Legacy bezeichnet

PaaS: Platform as a Service | SaaS: Software as a Service | WWI: Windows Wordprocessing Integration

Wo soll es laufen?

Geht es um...	… und um SAP Software…	LRS Komponenten	LRS Software Standort	Wer hostet/verwaltet die LRS Software?	Unterstützt LRS das?
S/4HANA on-premise	Onsite	VPSX Output Manager	Onsite oder Cloud	LRS, 3rd party oder Kunde	Yes
S/4HANA on-premise	Cloud / IaaS	VPSX Output Manager	Onsite oder Cloud	LRS, 3rd party oder Kunde	Yes
S/4HANA Cloud, Private edition	Cloud / SAP	VPSX Output Manager	Onsite oder Cloud	LRS, 3rd party oder Kunde	Yes

SAP Editionen & Schnittstellen

SAP Lösung		Technische LRS Schnittstelle
SAP S/4HANA OnPremise		S/4-BC-XOM
SAP S/4HANA Cloud, private edition	RISE with SAP	S/4-BC-XOM
SAP S/4HANA Cloud, public edition	GROW with SAP	S/4HC-PUB-PRINT-OMS
SAP BTP Business Technology Platform	RISE with SAP	BTP-PRINT-OMS
	GROW with SAP	
	OnPremise	

SAP Angebote

SAP Solution	Technische LRS Schnittstelle
SAP Manufacturing Execution (ME)	IPPS (durch die Bindung an einen Standard Print Provider)
SAP Digital Manufacturing Cloud (ersetztz ME)	BTP-PRINT-OMS
SAP Employee Central Payroll (ECP) (SuccessFactors)	Berkley (mangels anderer Schnittstellen)

ADS und Änderungen mit Business Suite 7

Adobe Document Services out of support in 2027 – verlängerte Wartung bis Ende 2030 verfügbar

- Es wird ein “Pay per use” (auch Preview) Click Charge Modell
- Kunden müssen zu “SAP Forms by Adobe” wechseln, der ein BTP Service ist
- Wird OnPremise möglich sein?

SAP Standarddokumente for Adobe Document Services UND SmartForms/SAPScript werden ebenso nicht mehr unterstützt.

- Business Dokumente werden NUR in der neuen Business Technology Platform (BTP) unterstützt und gewartet.

… und was ist mit Etiketten?

- SAP arbeitet mit Loftware an einer neuen Cloud-basierten “Global Label Management”-Lösung (GLM), die eine Druckmanagement Komponente enthalten könnte, oder auch nicht.
- Das geplante Erscheinungsdatum für GLM ist Dezember 2024
- Das ersetzt die jetzige SAP Windows Word Integration GLM Lösung

CN 22
Important! See instructions on the back
CUSTOMS DECLARATION
Designated operator
May be opened officially
Gift
Documents
Sale of goods
Commercial sample
Other (please specify):
Tick one or more boxes
Quantity and detailed description of contents (1)
Value and currency (2)
HS tariff number (3)
Country of origin (4)
Total value (5)

SAP S/4HANA Migrations Strategie

Bestands-Upgrade ECC 6

Ohne existierender Output Management Lösung

Bestands-Upgrade ECC 6

Mit existierender Output Management Lösung

Greenfield SAP S/4HANA

Bedarfsermittlung für Druck- und Outputaufgaben

*

SAP S/4HANA Implementierung

Wo?

SAP Infrastruktur

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

Wer?

Infrastruktur & Übergang verwaltet von

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

Was?

SAP Druck-Infrastruktur

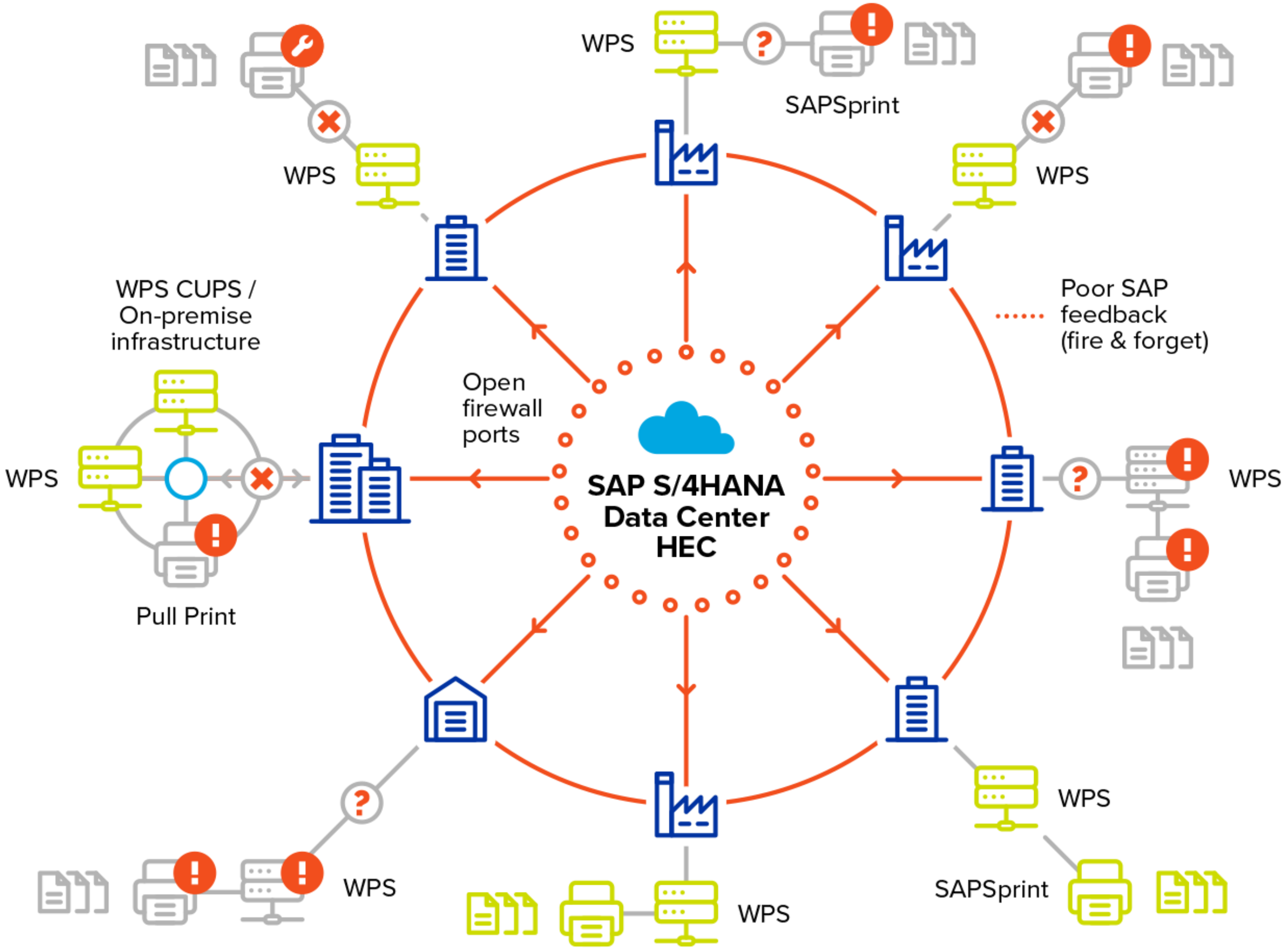
- On Premise
- S4/HANA Cloud, Private (was HEC)
- EMS

Typische SAP Output Umgebung

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

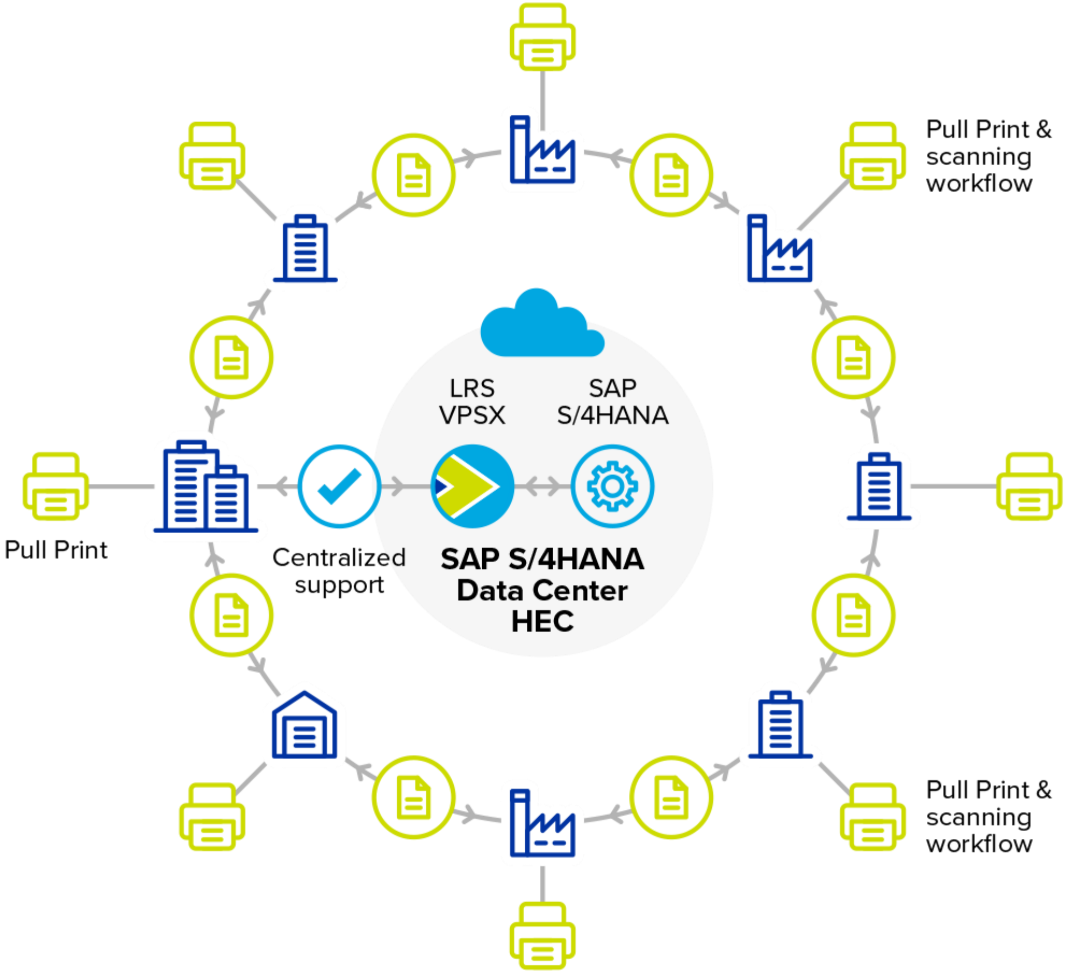

WPS
SAPSprint
WPS
WPS
WPS CUPS / On-premise infrastructure
Poor SAP feedback (fire & forget)
Open firewall ports
WPS
SAP S/4HANA Data Center HEC
WPS
Pull Print
WPS
WPS
SAPSprint
WPS

LRS Output Management für 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


Pull Print &
scanning
workflow
LRS
VPSX
SAP
S/4HANA
Pull Print
Centralized
support
SAP S/4HANA
Data Center
HEC
Pull Print &
scanning
workflow

Was LRS unterstützt

- LRS bietet eine Lösung für alle Standorte und SAP Angebote (OnPremise, Public Cloud, Private Cloud und BTP)
- Die LRS Lösung läuft On Premise, in der Cloud oder Hybrid und kann von LRS, einem IaaS Provider oder dem Kunden betrieben werden.

SAP Solution	Technical Interface Used by LRS
SAP S/4HANA OnPremise	S/4-BC-XOM
SAP S/4HANA Cloud (private edition)	S/4-BC-XOM
SAP S/4HANA Cloud (public edition)	S4HC-PUBLIC-OMS
SAP BTP Business Technology Platform	BTP-PRINT-OMS
SAP Digital Manufacturing Cloud (replaces ME)	BTP-PRINT-OMS
SAP Employee Central Payroll (ECP) (SuccessFactors)	Berkley (network addressability, working with SAP on a way forward)

Schlüsselelemente für SAP Greenfield-Umgebungen

Barcode & Label Druck (Automation)

- Braucht Geräteunterstützung über Laseerdrucker hinaus
- Spezielle Barcodeformate für Zebra, SATO, Printronix, Toshiba, & others

Datenkonvertierung

- Bietet Flexibilität in Ausgabeformaten und -geräten
- Erweitert die Möglichkeiten der Verwendung ohne die SAP Basisanwendung zu ändern

SAP®

Formulare

- Spezielle Formatierung unterstützt Geschäftsanwendungen
- Sicherheitsmerkmale wie Wasserzeichen
- Neue SAP Versionen werden Änderugen erfordern

Digitale Transformation

- Scan / Imaging Funktionen schließen die Kette in kritischen Dokumentenabläufen
- Cloud - Ready ist ein wesentlicher strategischer Vorteil

Welche technischen Funktionen sind mit dem SAP Bestands-Druck verbunden?

- ✓ Kritischer Produktionsdruck
- ✓ Geräteunabhängige Druckdaten
- ✓ Unicode auf jedem Laserdrucker
- ✓ Barcodes auf jedem Laserdrucker
- ✓ Konvertierung von Prescribe (Kyocera) in Standard PDLs
- ✓ Generischer Gerätetyp SAPGOFU
- ✓ SIMMS und DIMMS ersetzen
- ✓ LRS lizensierte Fonts, weil Windows Schriften auf Unix Systemen NICHT LIZENSIERT sind

All Kernfunktionen

Gesicherter Ausdruck
Geräteunabhängigkeit
LRS Datenkonvertierung

“Business Benefits”

Business Values

- ✓ Reduzierung der Total Cost of Ownership (TCO)
- ✓ Verbesserung des Service
- ✓ Dokumentausgabefehler vermeiden, die einen Einfluss auf den Geschäftsablauf haben
- ✓ Beseitigung der Abhängigkeit von teuren und unsicheren Windows Druckservern
- ✓ Reduzierung der Beteiligung des SAP Basis Teams in Druckangelegenheiten

Die drei K:

(weniger) KOSTEN
(mehr) KONTROLLE
(weniger) KOMPLEXITÄT

Kosten reduzieren, Service verbessern

Eine Lösung für alle SAP Editionen, Angebote, Architekturen und Standorte

- ✓ BTP Plug-In
  - ✓ Eigene Entwicklung
  - ✓ SAP Angebote wie DMC (Digital Manufacturing Cloud)
- ✓ BC-XOM Zertifizierung
  - ✓ On Premise
  - ✓ Private Cloud - Works with RISE with SAP
- ✓ Public Cloud Plug-In
  - ✓ Grow with SAP
- ✓ SAP SuccessFactors ECP (Employee Central Payroll)

Wesentlich:

Welche Ausprägung von SAP auch immer, LRS hat eine Lösung

Kosten reduzieren, Service verbessern

- ✓ Beseitigung der Abhängigkeit von teuren und unsicheren Windows/CUPS Druckservern
- ✓ Vertikale Skalierbarkeit, dadurch weniger Server
- ✓ Keine gezielten Viren auf LRS Dienste

LRS benötigt weiterhin keine Windows oder CUPS Druckserver

“Business Benefits”

Kosten reduzieren, Service verbessern

Keine Beteiligung des SAP Basis Teams an täglichen Druckproblemen und Wartung des Druckspoolers

- ✓ Automatisierte Verwaltung der Druckerdefinitionen über viele SAP Instanzen
- ✓ Befähigung des Help Desk für SAP Themen
- ✓ Vereinfachtes Formulardesign (Schachtzuordnung und Finishing Optionen)
- ✓ Nach LRS Studien reduziert dies den Aufwand für SAP Basis Ressourcen um 25%

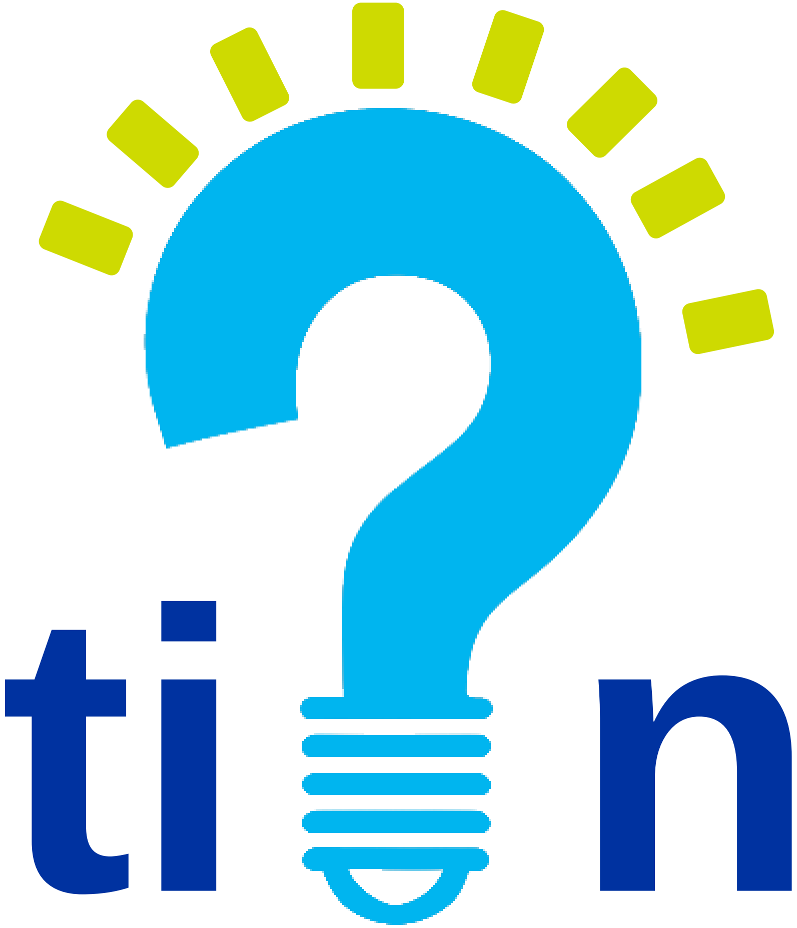
Entlastung der SAP Basis Team Aktivitäten in Bezug auf das Drucken

Kosten reduzieren, Service verbessern

Vermeidung von Dokumenterstellungs und –zustellungsproblemen mit Einfluss auf den Geschäftsprozess

- ✓ Gesicherte Zustellung kritischer SAP Dokumente
- ✓ Bietet die Zusammenstellung von Druckjobs auf Bedarf
- ✓ Bietet die Integration in Lager- und Produktionssysteme

**Und schließlich:
Stellt sicher, dass Druckprobleme nicht zu Business Problemen werden.**



Any

Questions

State of the art Scan

Joachim Lang

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.

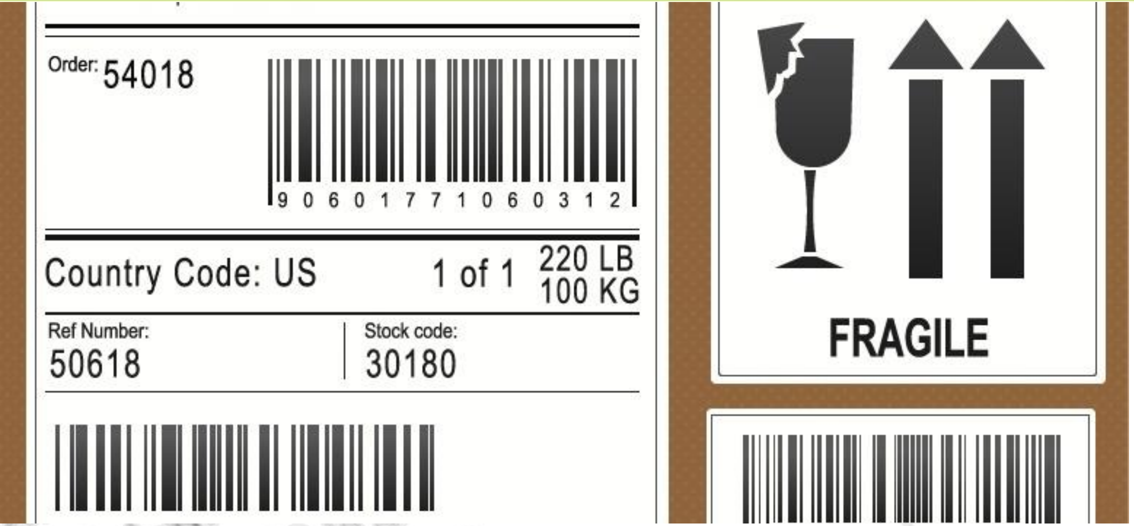
The way forward

We need to change how we think about scan

It is not about destinations

It is about process improvement

Changing the paradigm



Order: 54018

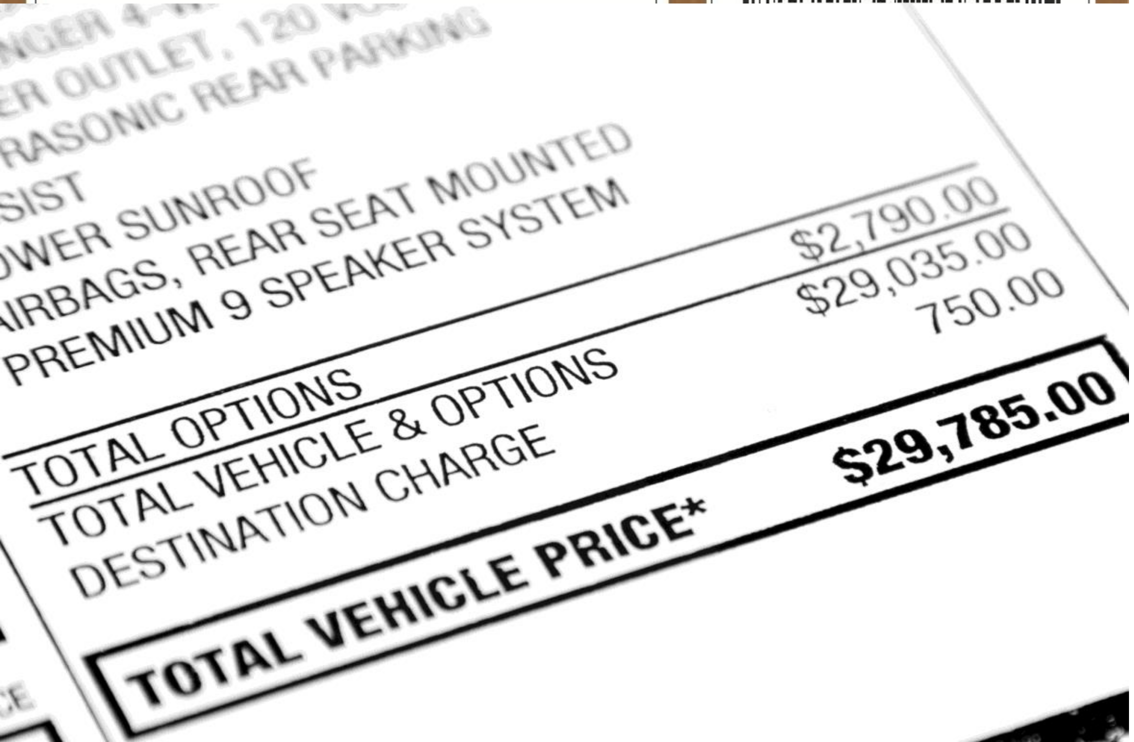
9 0 6 0 1 7 7 1 0 6 0 3 1 2

Country Code: US 1 of 1 220 LB 100 KG

Ref Number: 50618

Stock code: 30180

FRAGILE



ER OUTLET, 120 VOL

RASONIC REAR PARKING

SIST

OWER SUNROOF

IRBAGS, REAR SEAT MOUNTED

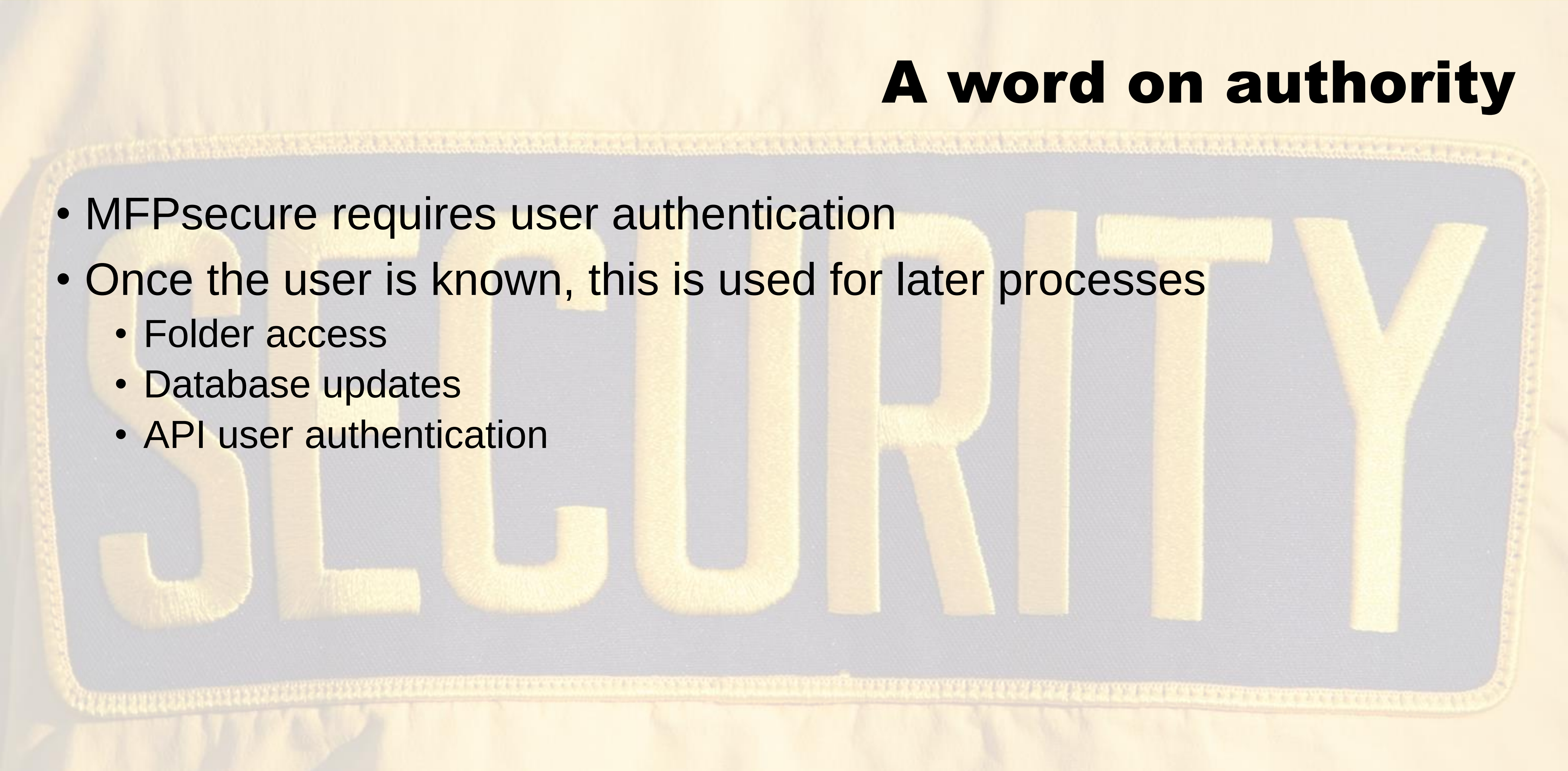
PREMIUM 9 SPEAKER SYSTEM

TOTAL OPTIONS	$2,790.00
TOTAL VEHICLE & OPTIONS	$29,035.00
DESTINATION CHARGE	750.00
TOTAL VEHICLE PRICE*	$29,785.00

Reading the document

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

A word on authority

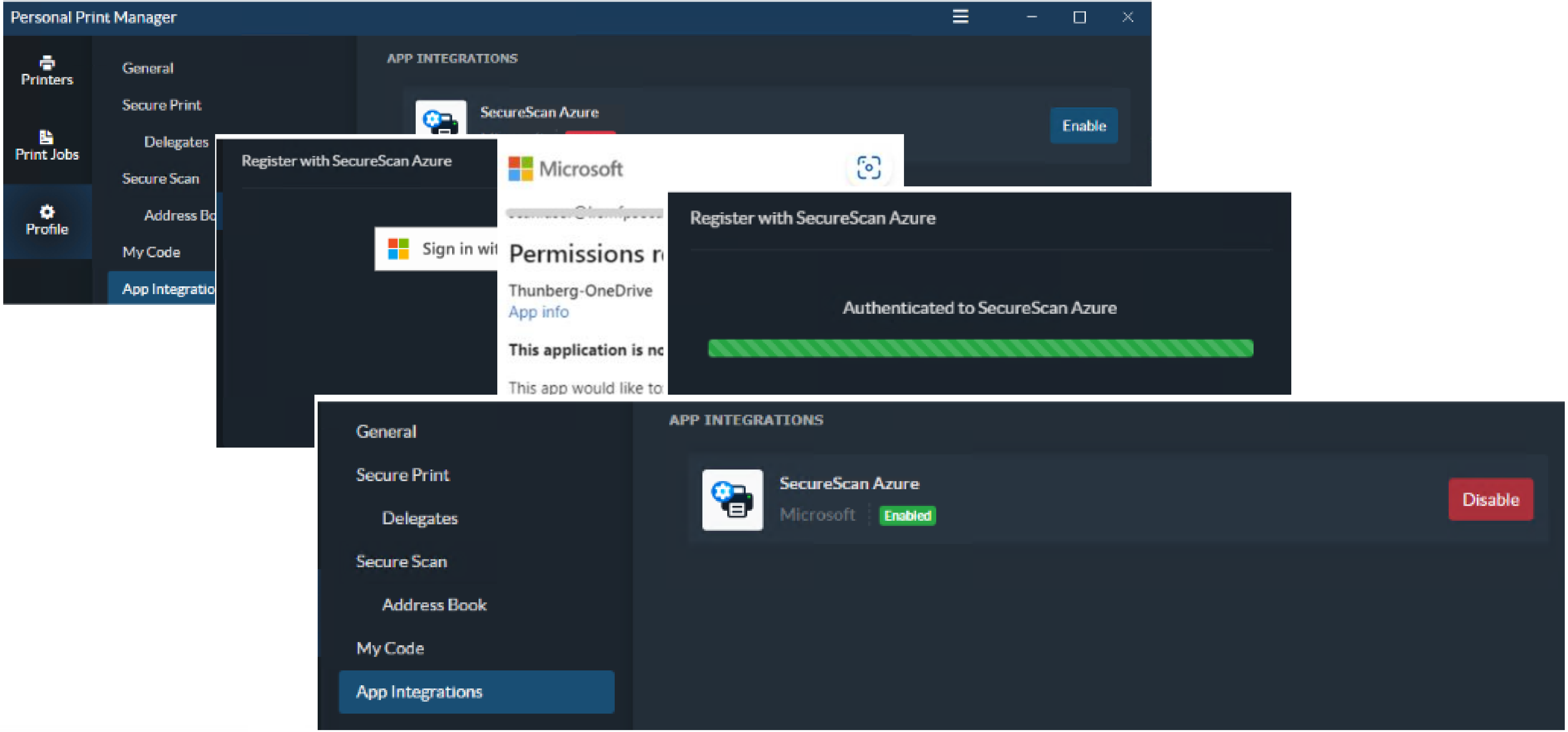


- MFPsecure requires user authentication
- Once the user is known, this is used for later processes
  - Folder access
  - Database updates
  - API user authentication

More on Authentication

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

Scan to OneDrive – user access token


Personal Print Manager
Printers
Print Jobs
Profile
General
Secure Print
Delegates
Secure Scan
Address Bo
My Code
App Integratio
APP INTEGRATIONS
SecureScan Azure
Enable
Register with SecureScan Azure
Sign in wit
Microsoft
Permissions r
Thunberg-OneDrive
App info
General
Secure Print
Delegates
Secure Scan
Address Book
My Code
App Integrations
APP INTEGRATIONS
SecureScan Azure
Microsoft
Enabled
Disable

[redacted]

This application is nc

This app would like to

Register with SecureScan Azure

Authenticated to SecureScan Azure

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

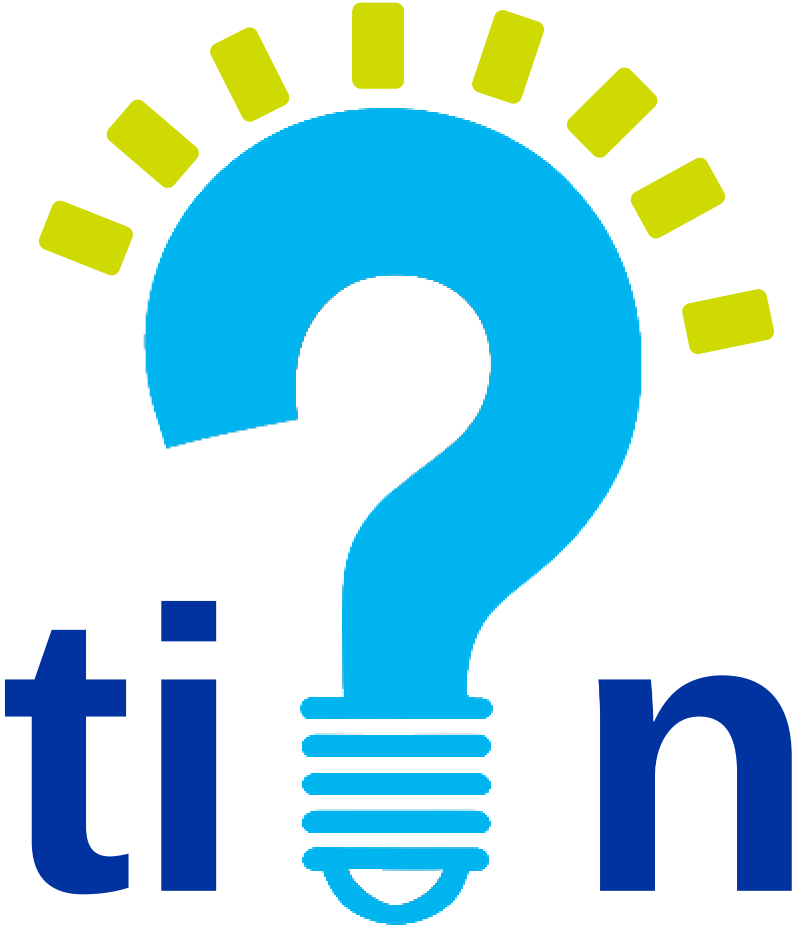
Using LRS Scan technology

- 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.

Any

Questins

LRS User Konferenz 2023 Zürich

Kaffee & Networking

LRS Support Portal and Knowledgebase

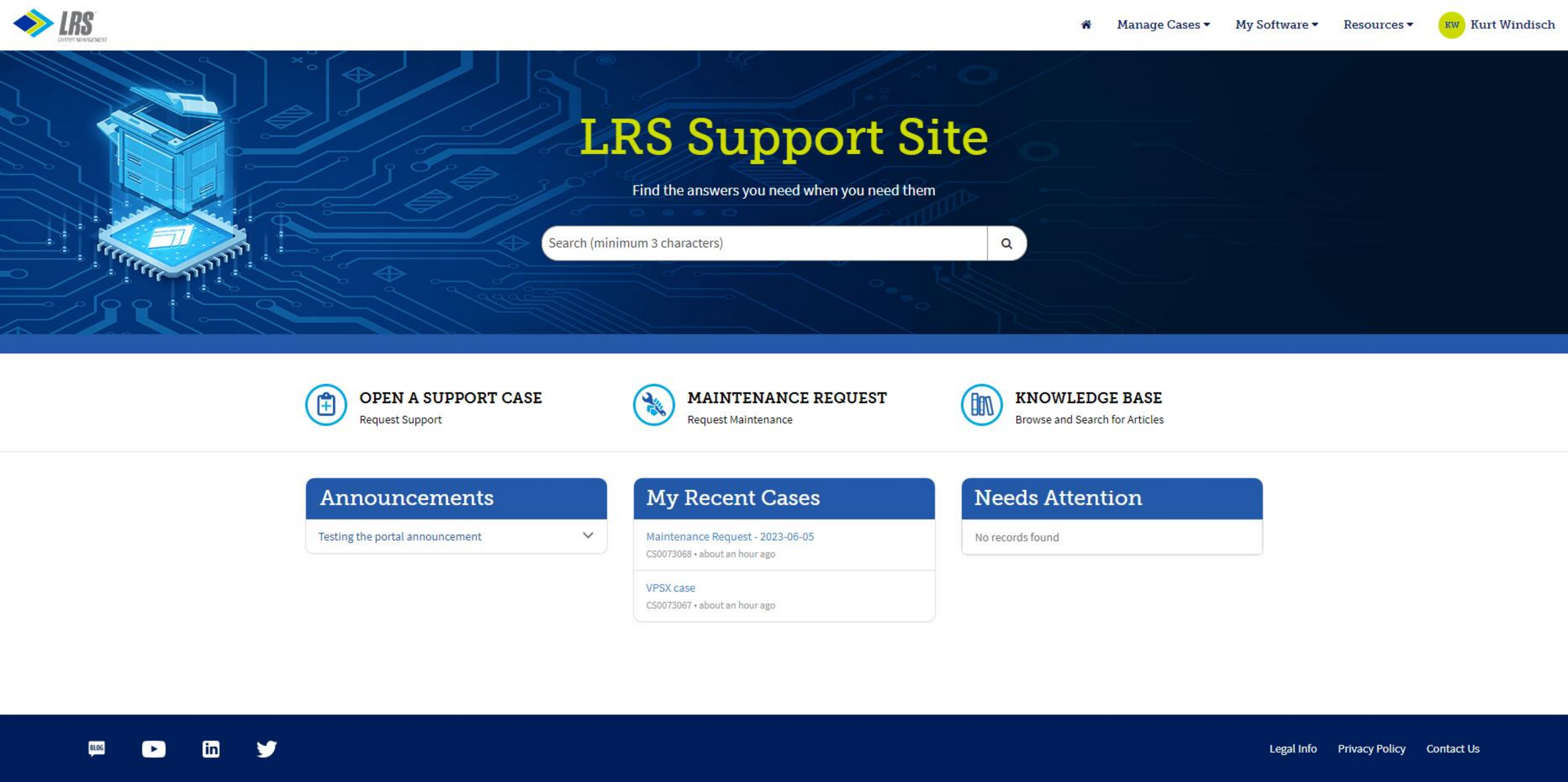
Demonstration Video

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 User Konferenz 2023 Zürich



Manage Cases ▾
My Software ▾
Resources ▾
KW
Kurt Windisch

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

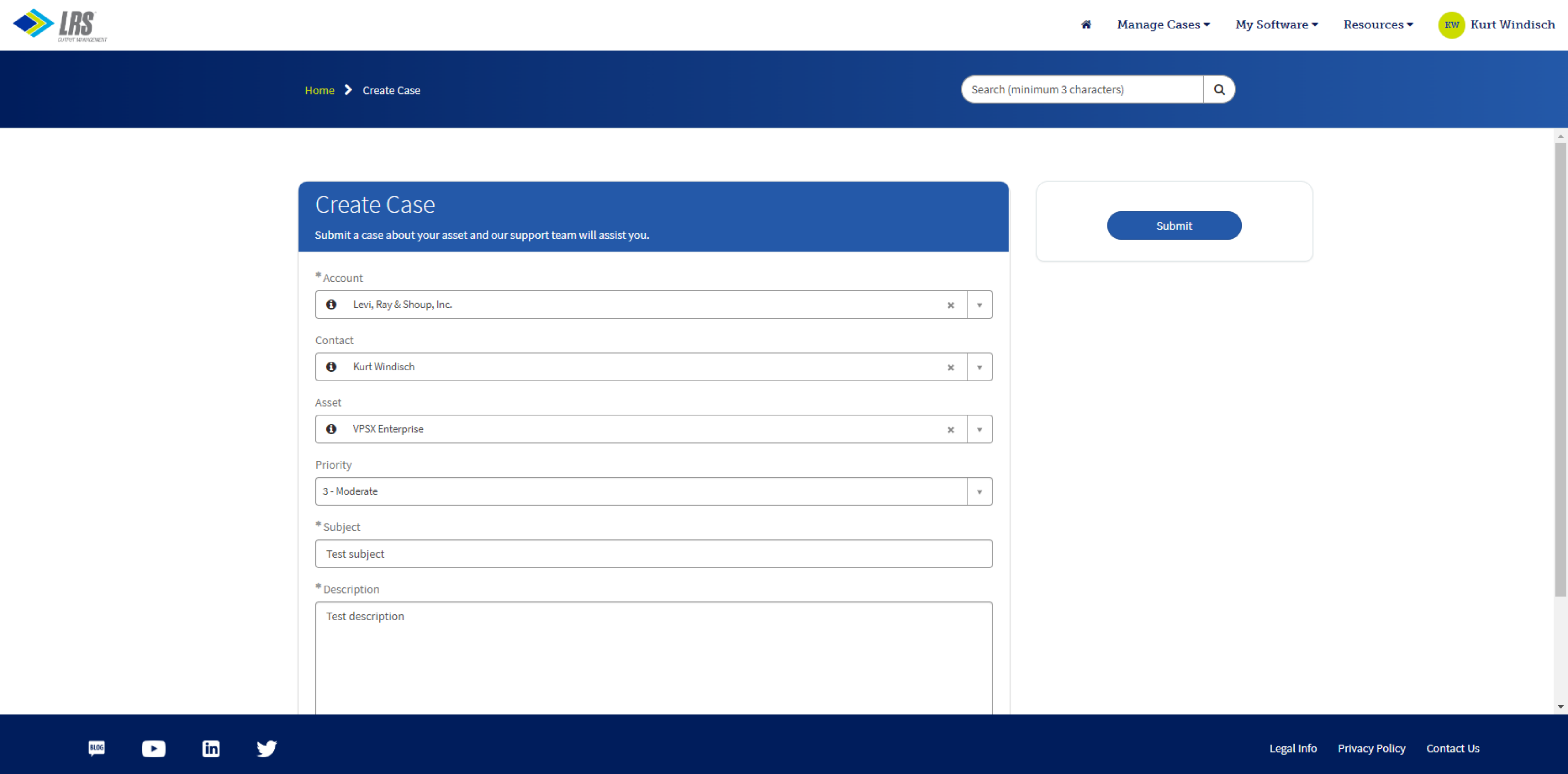
VPSX case
CS0073067 • about an hour ago

Needs Attention

No records found

BLOG
Legal Info
Privacy Policy
Contact Us

LRS User Konferenz 2023 Zürich


LRS OUTPUT MANAGEMENT
Manage Cases
My Software
Resources
KW
Kurt Windisch
Home
Create Case
Search (minimum 3 characters)
Submit
Legal Info
Privacy Policy
Contact Us
BLOG

Create Case

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

* Account: Levi, Ray & Shoup, Inc.

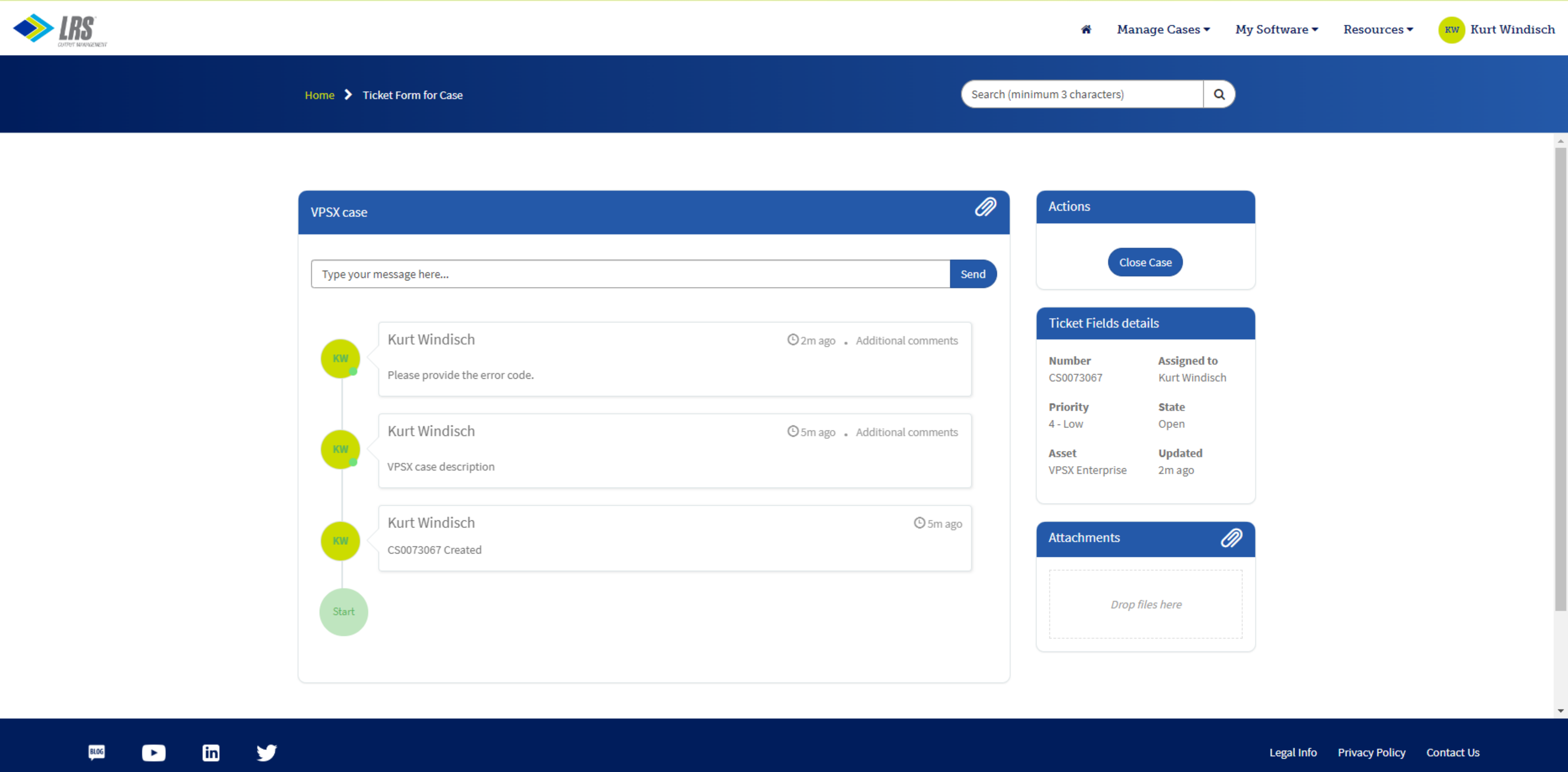
Contact: Kurt Windisch

Asset: VPSX Enterprise

Priority: 3 - Moderate

* Subject: Test subject

* Description: Test description


LRS
Manage Cases
My Software
Resources
KW
Kurt Windisch
Home
Ticket Form for Case
Search (minimum 3 characters)
Type your message here...
Send
Actions
Close Case
Attachments
Drop files here
Start
Legal Info
Privacy Policy
Contact Us

VPSX case

Kurt Windisch 2m ago • Additional comments

Please provide the error code.

Kurt Windisch 5m ago • Additional comments

VPSX case description

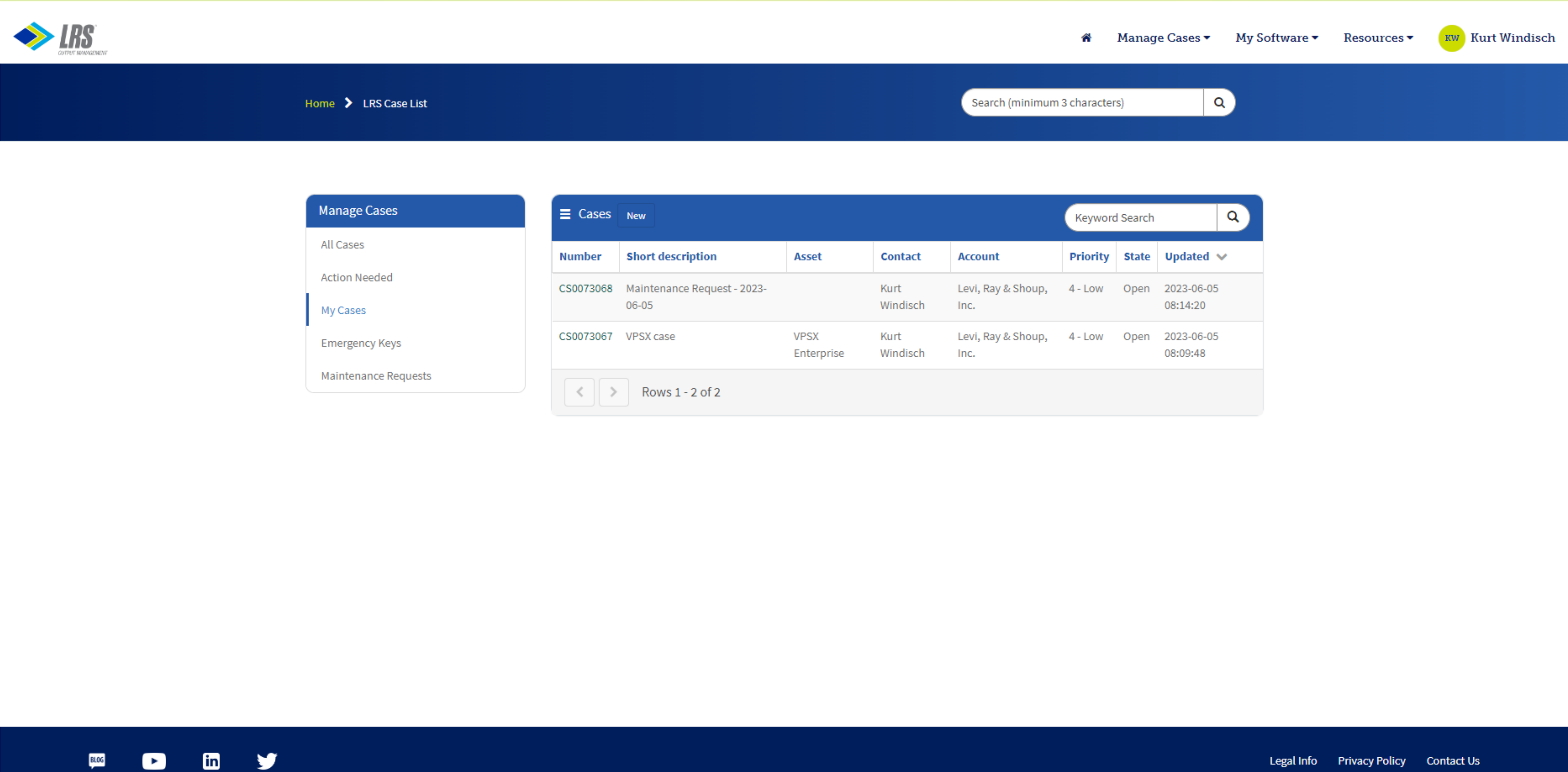
Kurt Windisch 5m ago

CS0073067 Created

Ticket Fields details

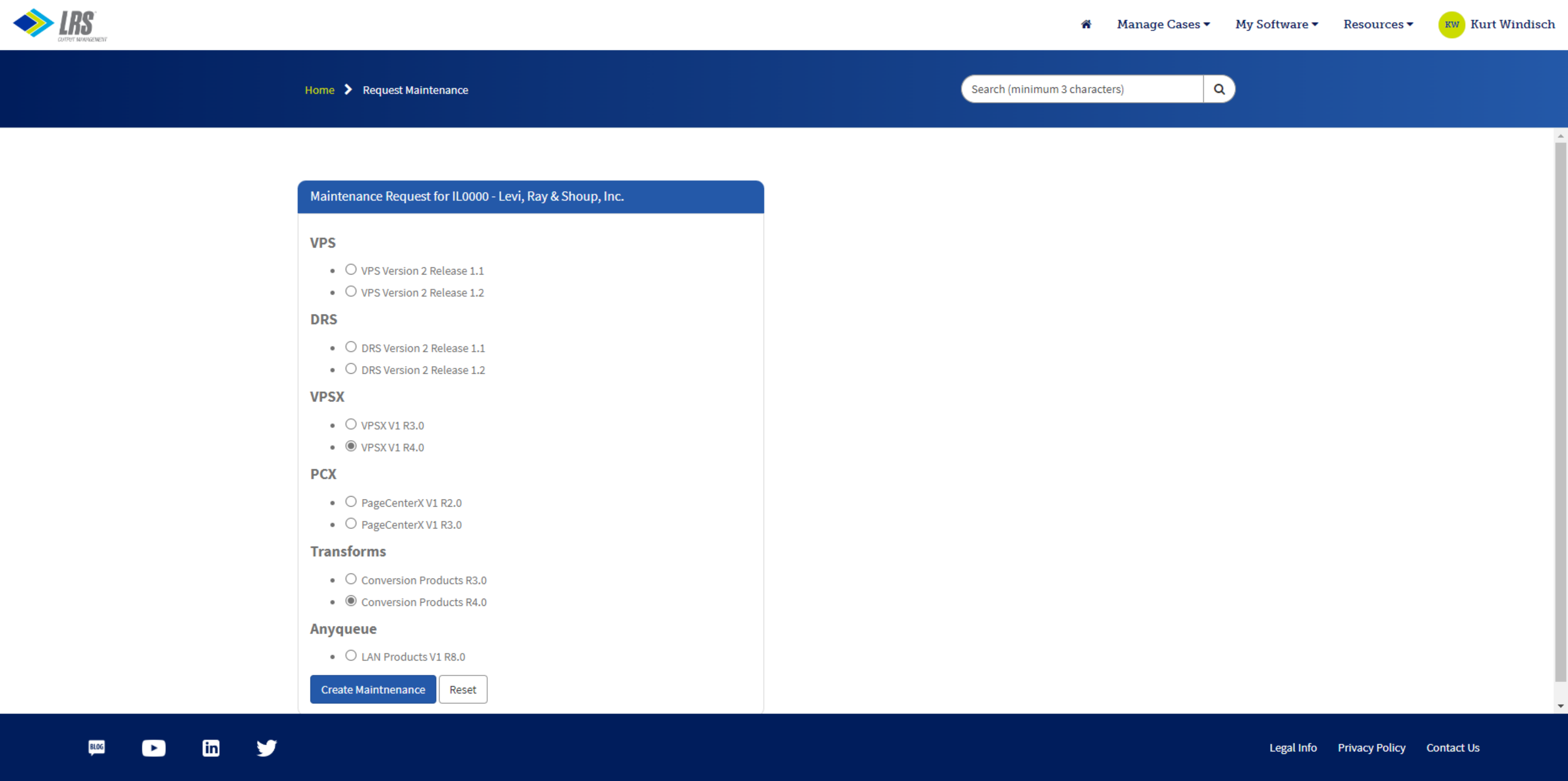
Number CS0073067	**Assigned to** Kurt Windisch
Priority 4 - Low	**State** Open
Asset VPSX Enterprise	**Updated** 2m ago

LRS User Konferenz 2023 Zürich


LRS OUTPUT MANAGEMENT
Manage Cases
My Software
Resources
KW
Kurt Windisch
Home
LRS Case List
Search (minimum 3 characters)
Manage Cases
All Cases
Action Needed
My Cases
Emergency Keys
Maintenance Requests
Cases
New
Keyword Search
BLOG
Legal Info
Privacy Policy
Contact Us

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


Manage Cases
My Software
Resources
KW Kurt Windisch
Home > Request Maintenance
Search (minimum 3 characters)

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

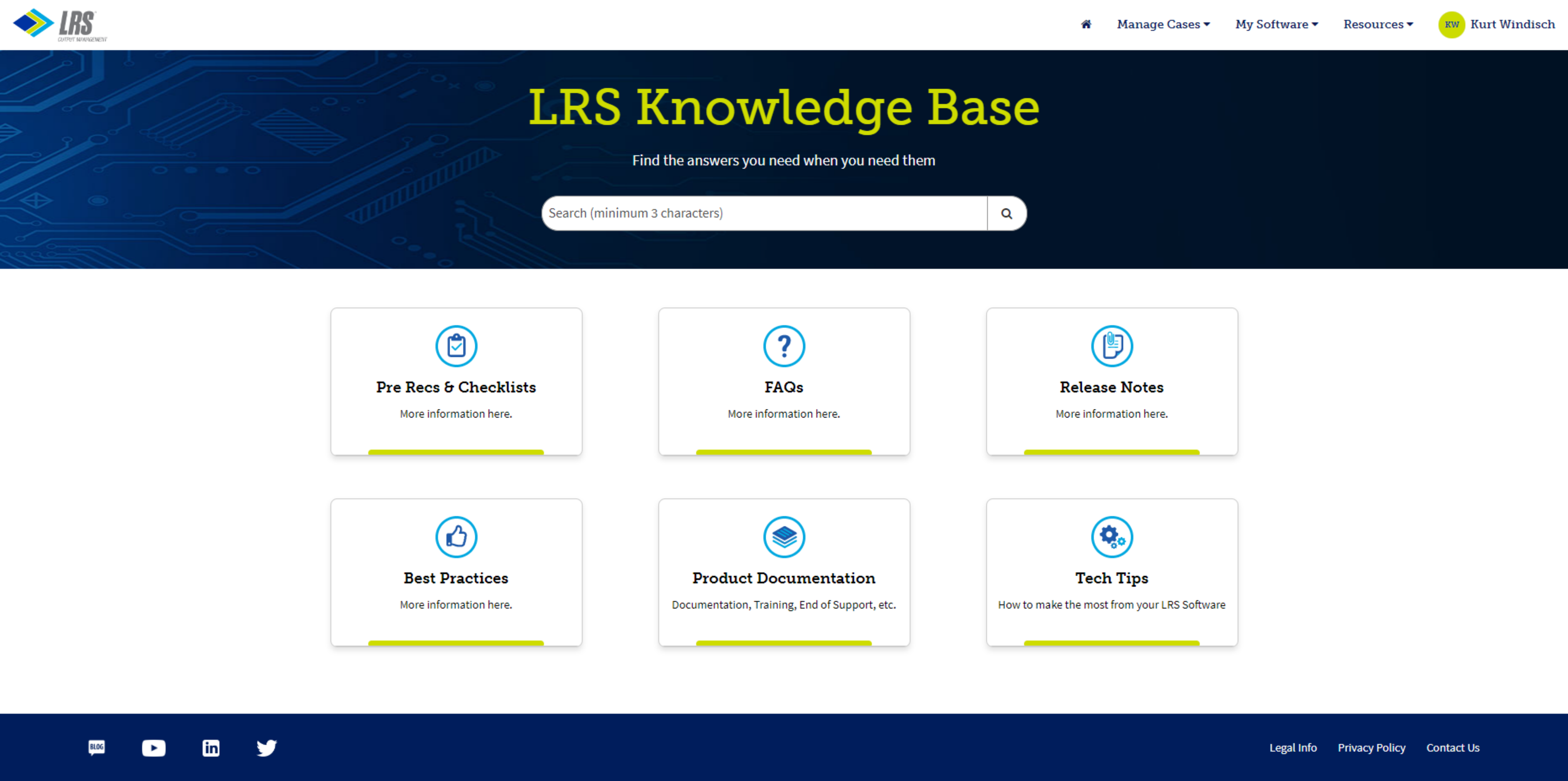
- ○ Conversion Products R3.0
- ● Conversion Products R4.0

Anyqueue

- ○ LAN Products V1 R8.0

Create Maintnenance
Reset
Legal Info
Privacy Policy
Contact Us

LRS User Konferenz 2023 Zürich


LRS
OUTPUT MANAGEMENT
Manage Cases
My Software
Resources
KW
Kurt Windisch
Search (minimum 3 characters)
BLOG
Legal Info
Privacy Policy
Contact Us

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.

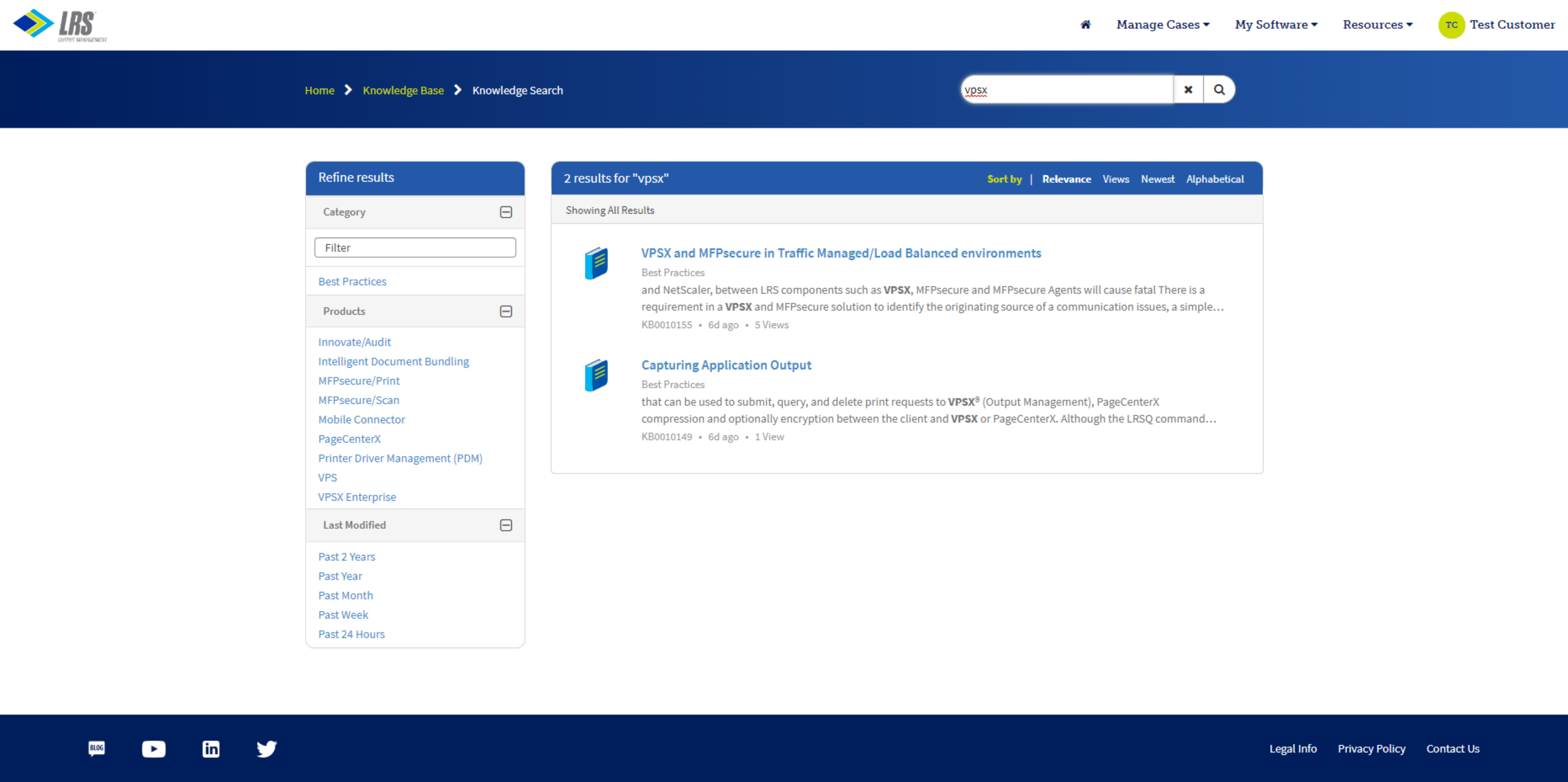
Product Documentation

Documentation, Training, End of Support, etc.

Tech Tips

How to make the most from your LRS Software

LRS User Konferenz 2023 Zürich


LRS
OUTPUT MANAGEMENT
Manage Cases
My Software
Resources
TC
Test Customer
Home
Knowledge Base
Knowledge Search
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
Sort by
Relevance
Views
Newest
Alphabetical
BLOG
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Search: vpsx

2 results for "vpsx"

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…

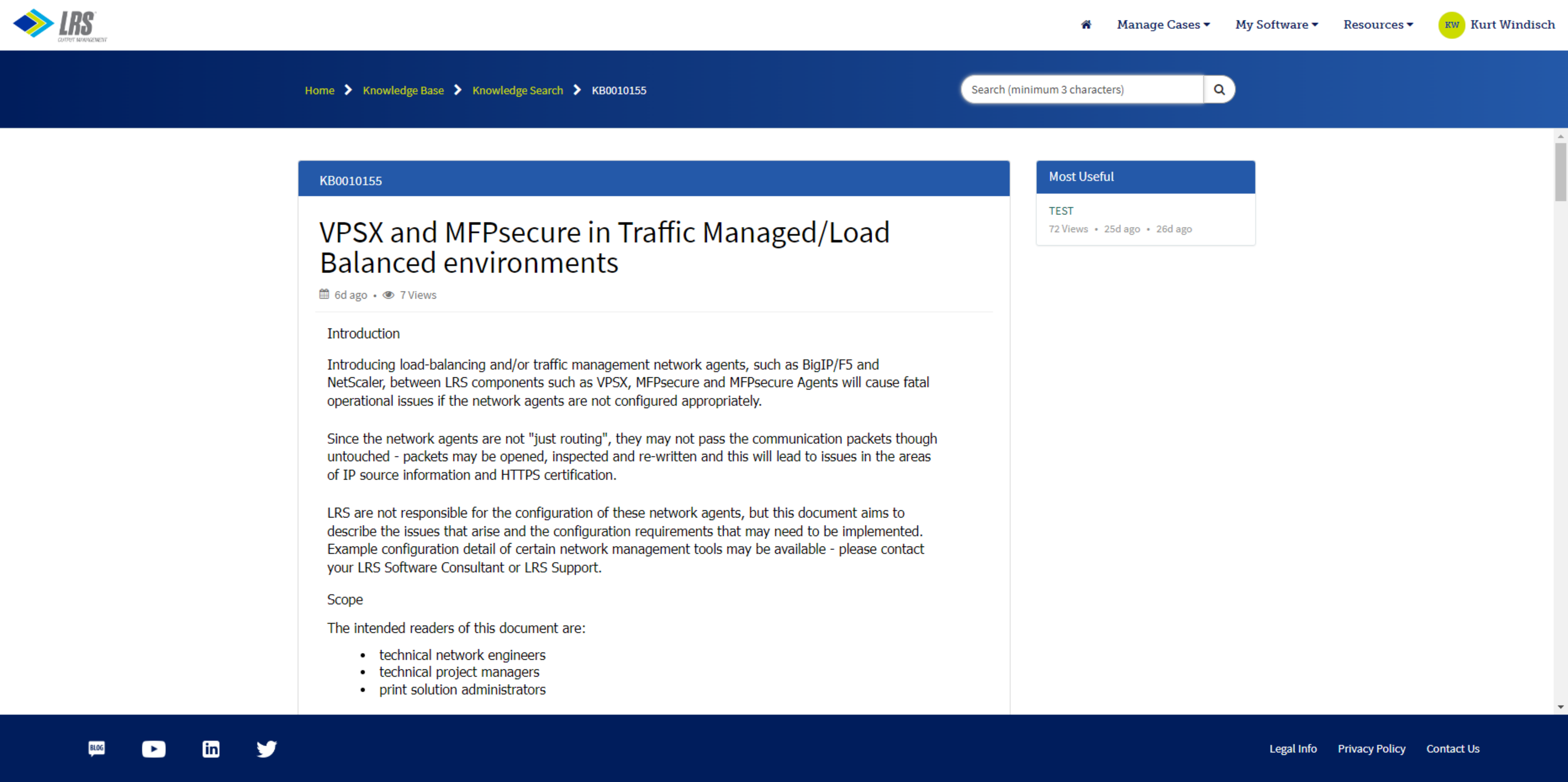
KB0010155 • 6d ago • 5 Views

Capturing Application Output

Best Practices

that can be used to submit, query, and delete print requests to **VPSX**® (Output Management), PageCenterX compression and optionally encryption between the client and **VPSX** or PageCenterX. Although the LRSQ command…

KB0010149 • 6d ago • 1 View


Manage Cases
My Software
Resources
KW
Kurt Windisch
Home
Knowledge Base
Knowledge Search
KB0010155
Search (minimum 3 characters)
Most Useful
TEST
72 Views • 25d ago • 26d ago
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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.

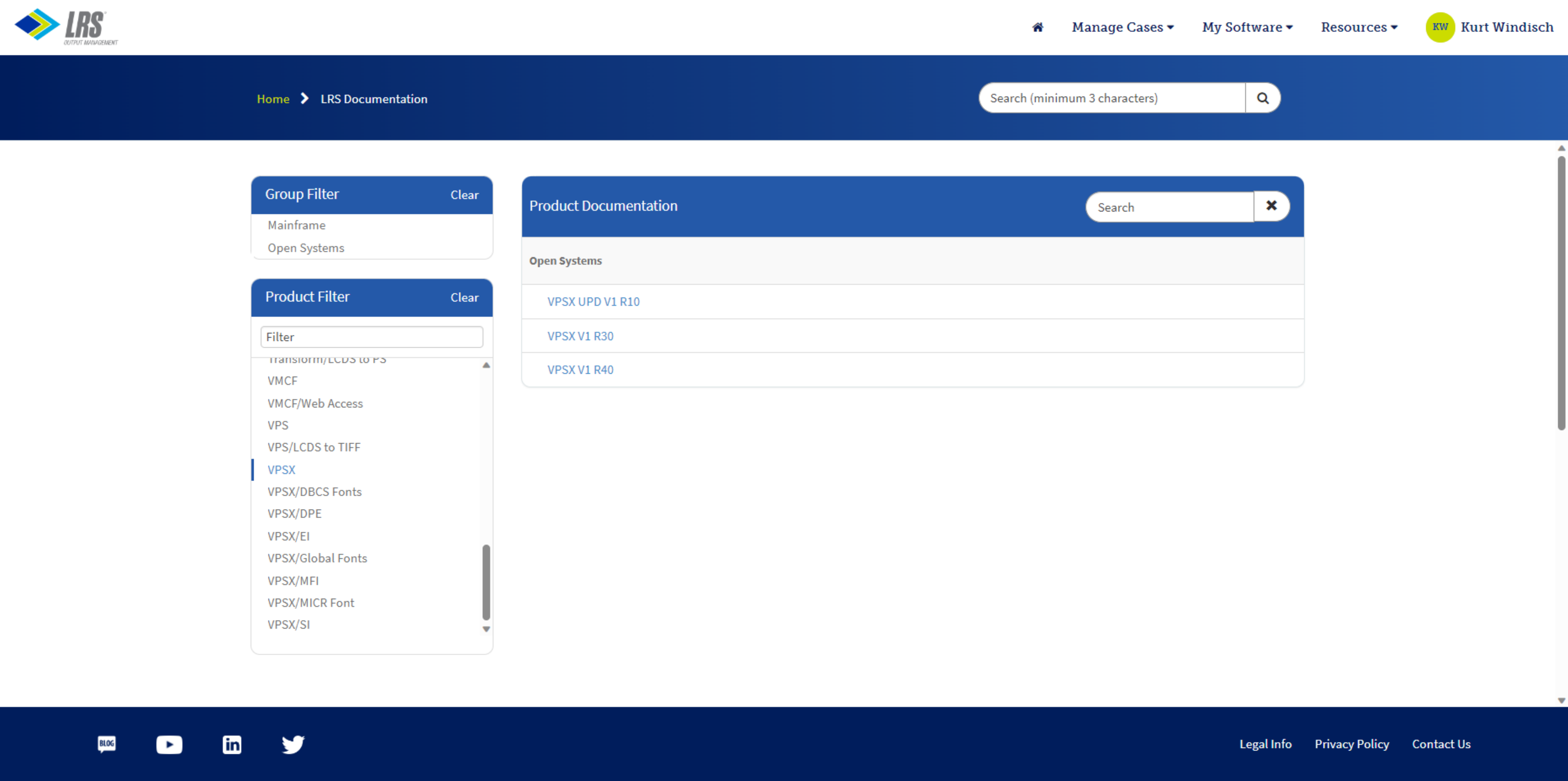
Since the network agents are not "just routing", they may not pass the communication packets though untouched - packets may be opened, inspected and re-written and this will lead to issues in the areas of IP source information and HTTPS certification.

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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Manage Cases
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Resources
KW
Kurt Windisch
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Group Filter Clear

- Mainframe
- Open Systems

Product Filter Clear

- Transform/LCDS 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

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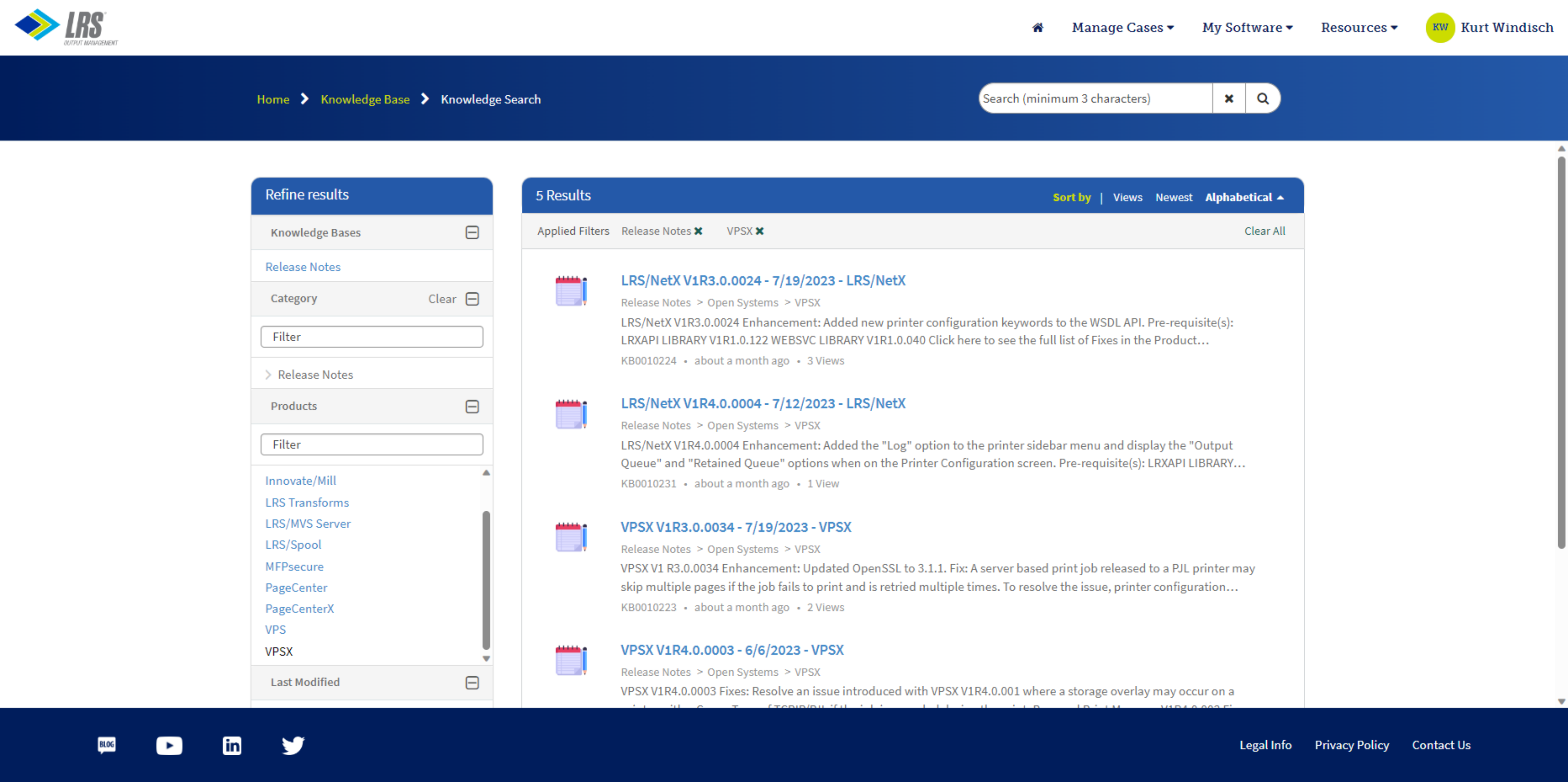
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Knowledge Search
Search (minimum 3 characters)
Refine results
Knowledge Bases
Release Notes
Category
Clear
Filter
Release Notes
Products
Filter
Innovate/Mill
LRS Transforms
LRS/MVS Server
LRS/Spool
MFPsecure
PageCenter
PageCenterX
VPS
VPSX
Last Modified
Sort by
Views
Newest
Alphabetical
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5 Results

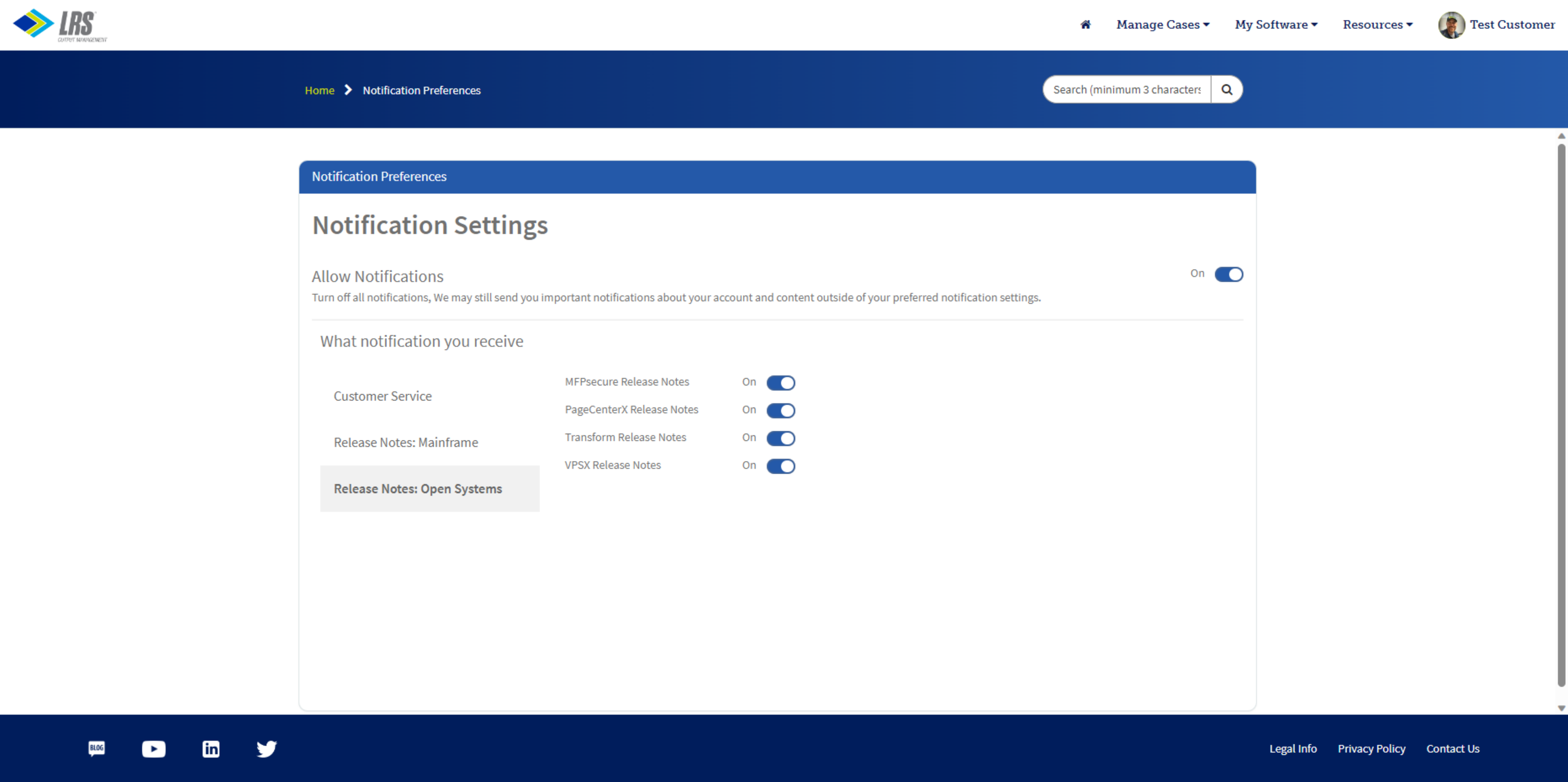
Applied Filters: Release Notes ✖ VPSX ✖

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 PJL 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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Notification Preferences

Notification Settings

Allow Notifications — On

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

What notification you receive

- Customer Service
- Release Notes: Mainframe
- **Release Notes: Open Systems**

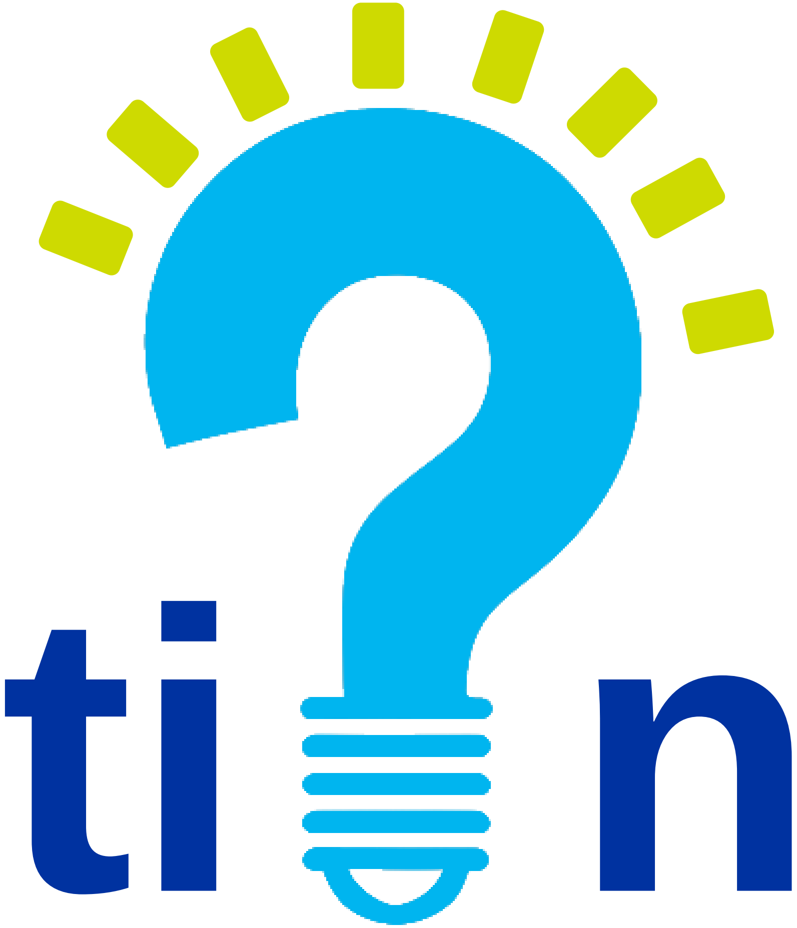
MFPsecure Release Notes — On

PageCenterX Release Notes — On

Transform Release Notes — On

VPSX Release Notes — On

Any

Questins

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FRAGEN UND ZUSAMMENFASSUNG

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