

Dokumenten- Workflow mit SOA & RPD

Nahtloser Dokumenten-Workflow basierend auf
SOA und dem RICOH Process Director

Darmstadt, den 14. April 2016

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- About RDC
- Die Herausforderungen
- Das Data-Processing Workflow System
- Technologien
- Continuous Integration
- IT-Change Management / Deployment Process
- What's next?

About RDC

RICOH Document Center





- Bullet 1. Arial~28pt.
 - Bullet 2. Arial~20pt.
- Bullet 1. Arial~28pt.
 - Bullet 2. Arial~20pt.
- Bullet 1. Arial~28pt.
 - Bullet 2. Arial~20pt.
- Bullet 1. Arial~28pt.
 - Bullet 2. Arial~20pt.

Die Herausforderungen





- **Komplexität**
 - Grosse Anwendungslandschaft: GMC, Compart, SET, OneVision, ABIS, PDFLib, Magic, MS SQL und DB2, Diverse Lösungen In-House
 - Unterschiedliche Hardware Systeme für die Produktion
- **Betriebssysteme**
 - Linux und Windows
- **Daten-Eingang**
 - Hoher Individualisierungsgrad
- **Sicherstellung und Nachvollziehbarkeit der vollständigen Datenverarbeitung**



Die Herausforderungen

- Transaktionssicherheit
- Operating
- Zusammenspiel Insel-Lösungen
- Entwicklung und Erweiterbarkeit
- Flexibilität und Maintenance

Das Data-Processing Workflow System





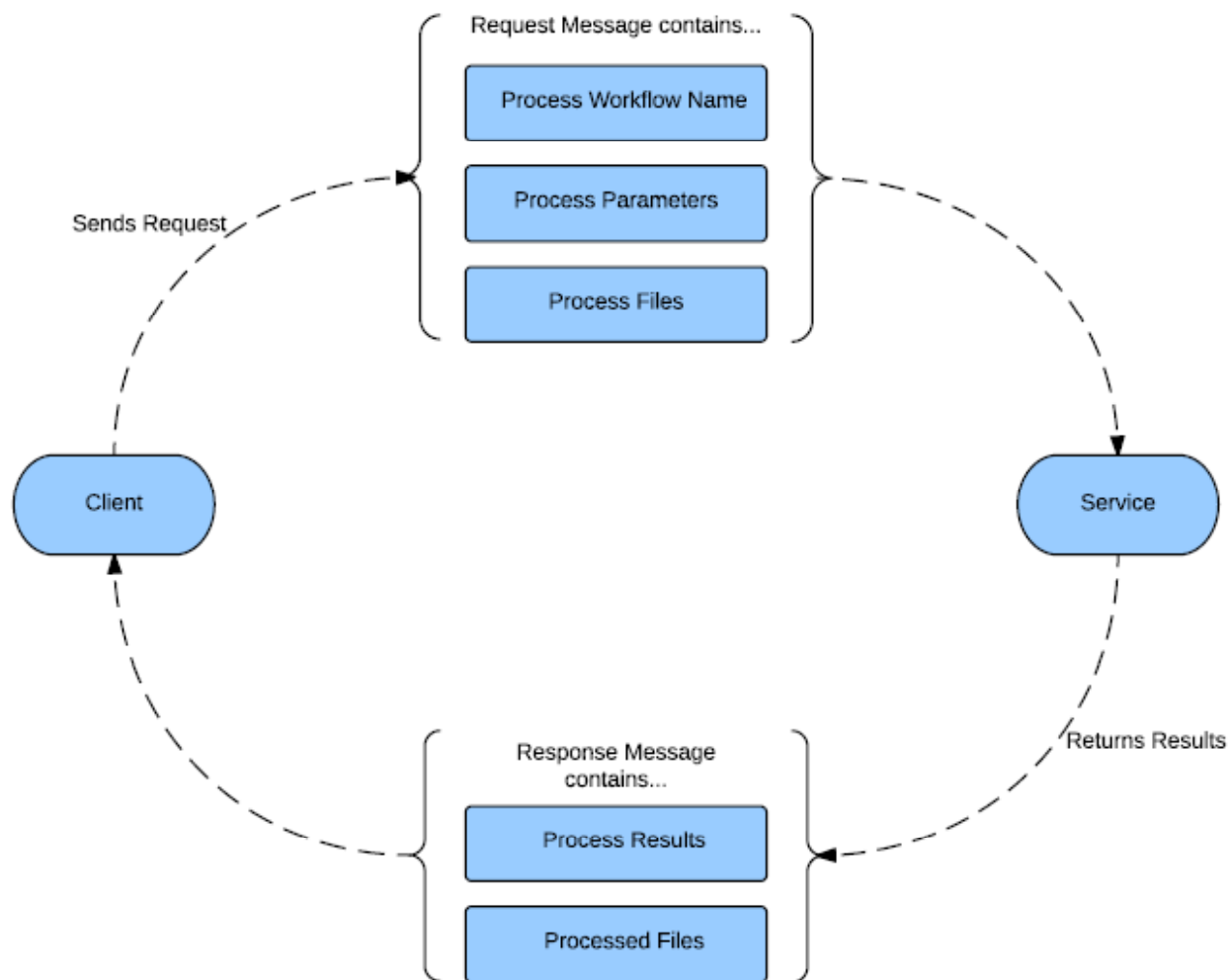
- Prozessbeschreibung
- Eckdaten / Definition
- Ablaufmodel
- Input / Output
- Sonstiges / Schnittstellen
- Definition Funktionalitäten
- Prozessmuster Erkennung



- SOA / ESB / RPD
- Request-Response Pattern
- Anbindung Distributed Applications
- The Contract First

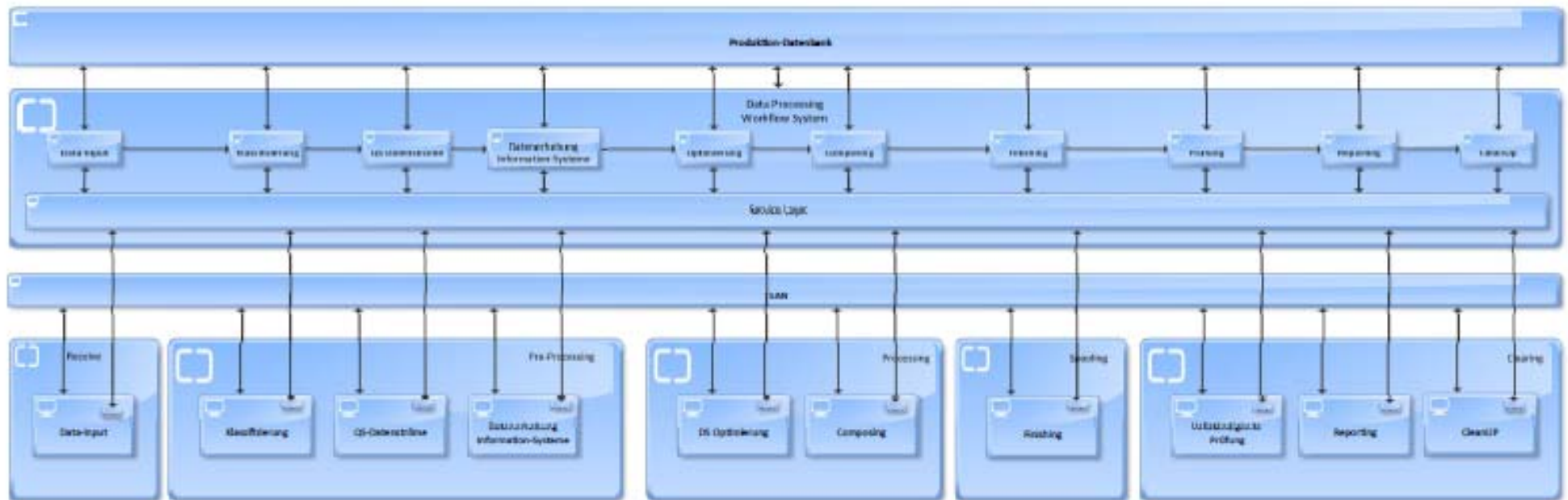


DPWS – Request Response



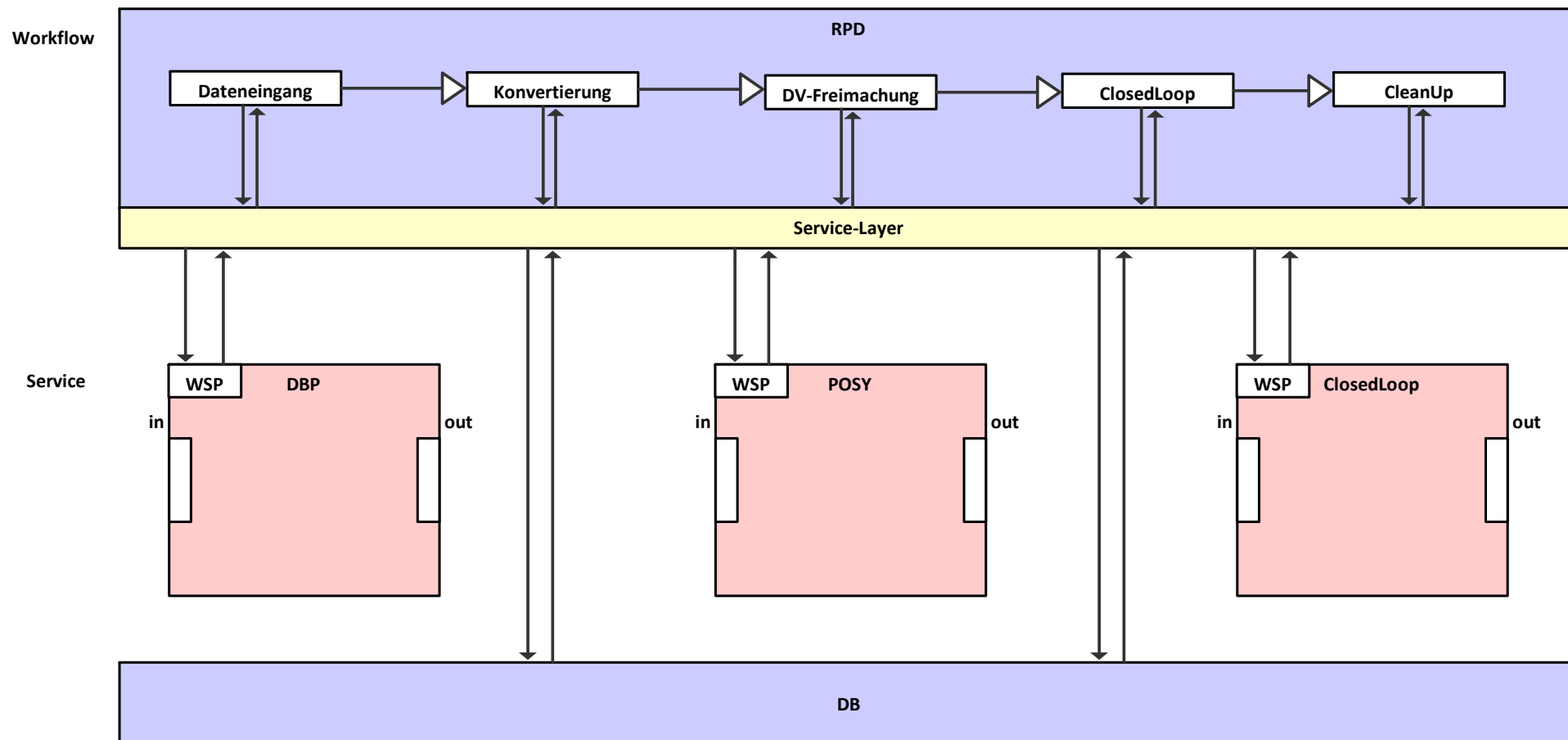


DPWS – Request Response



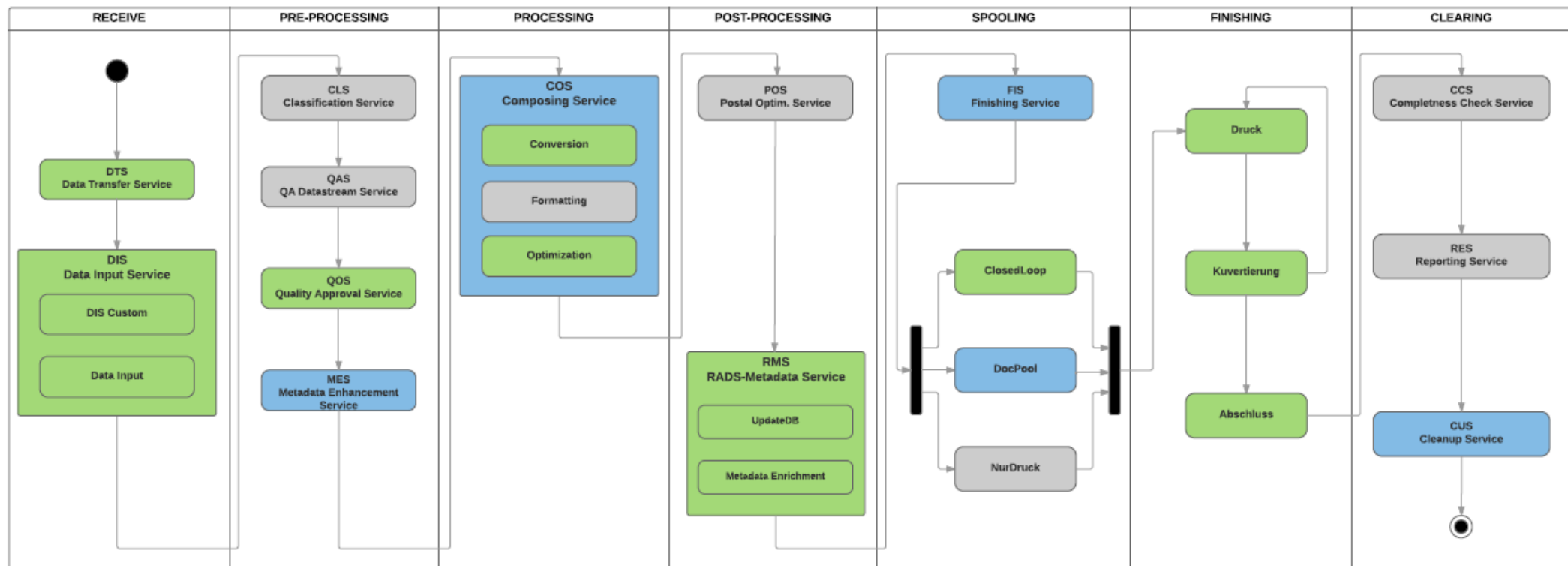


DPWS – Services Architektur



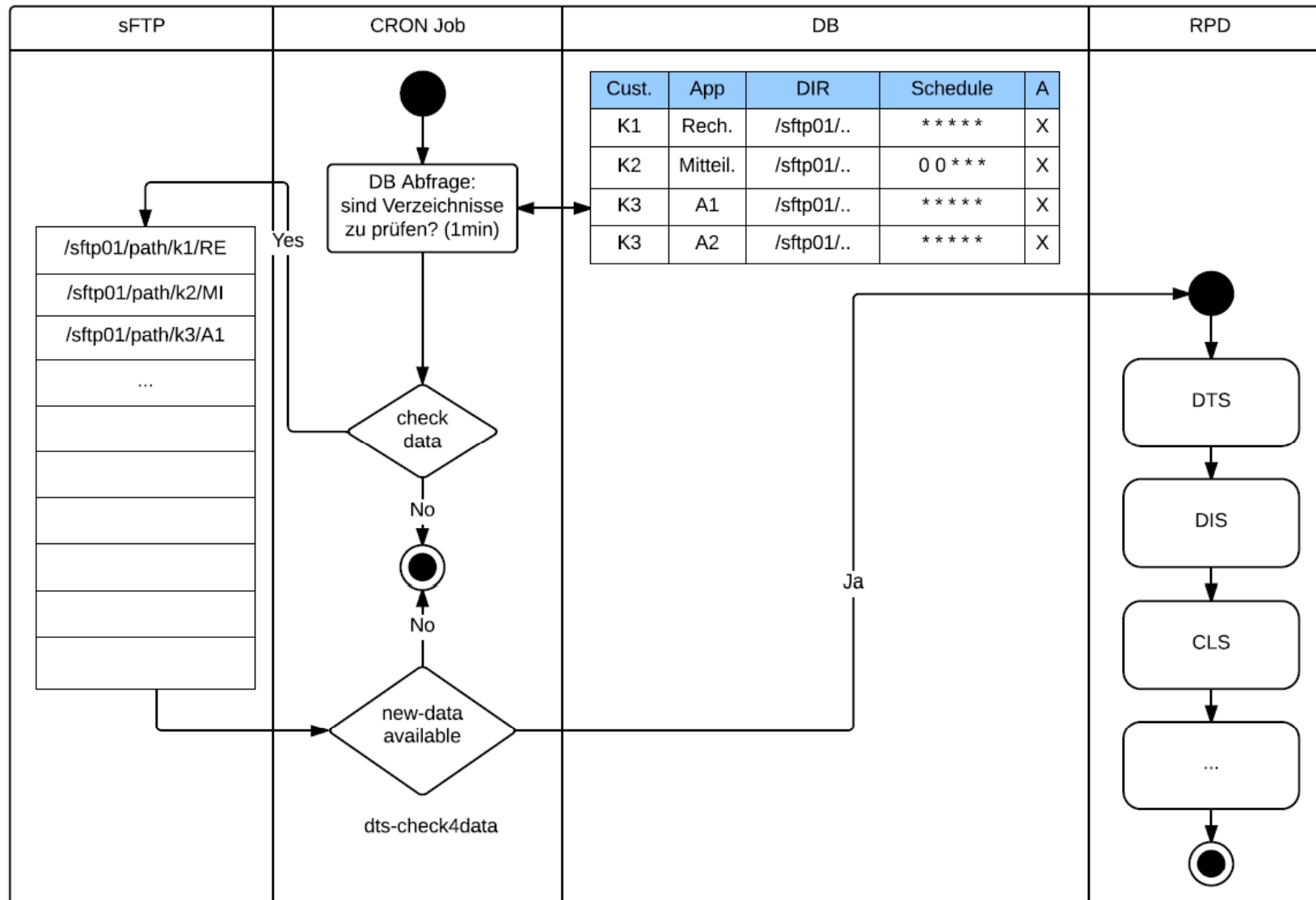


DPWS – Services Definition



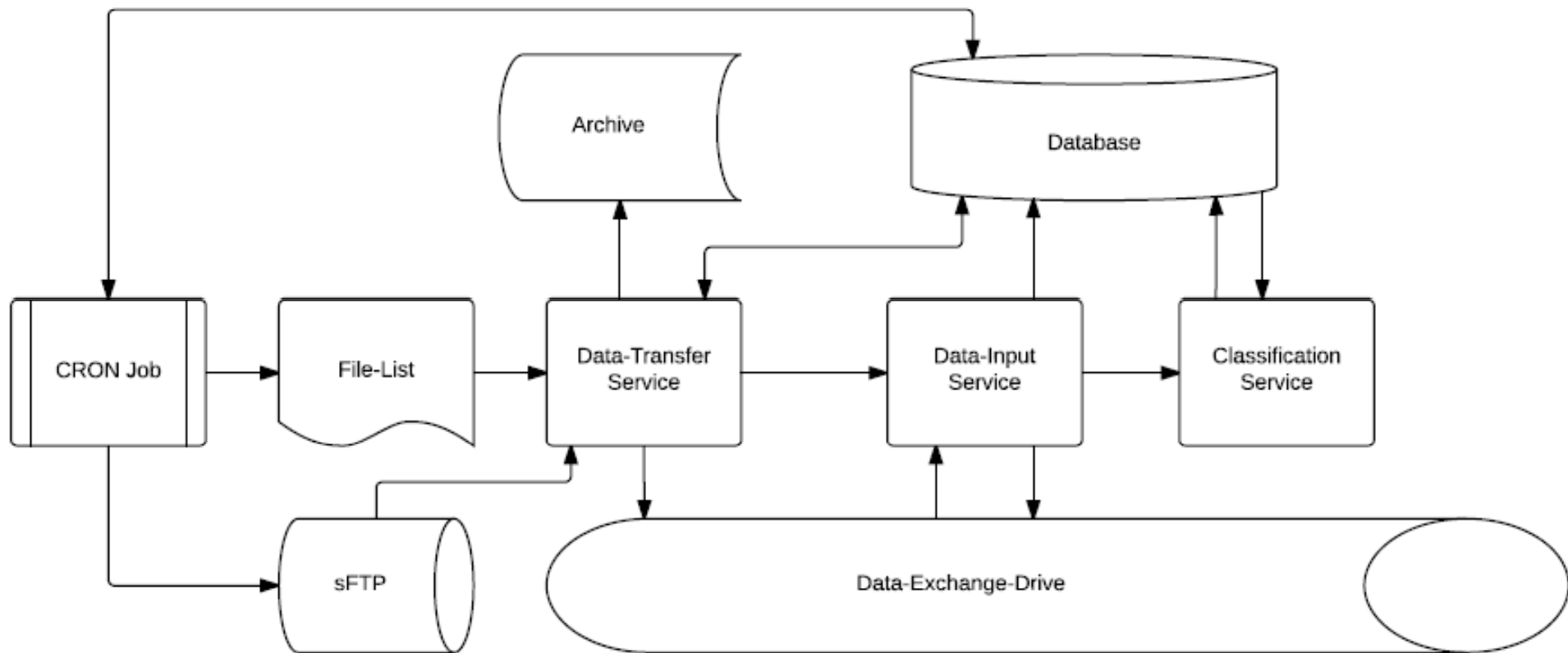


DPWS – Beispiel DTS



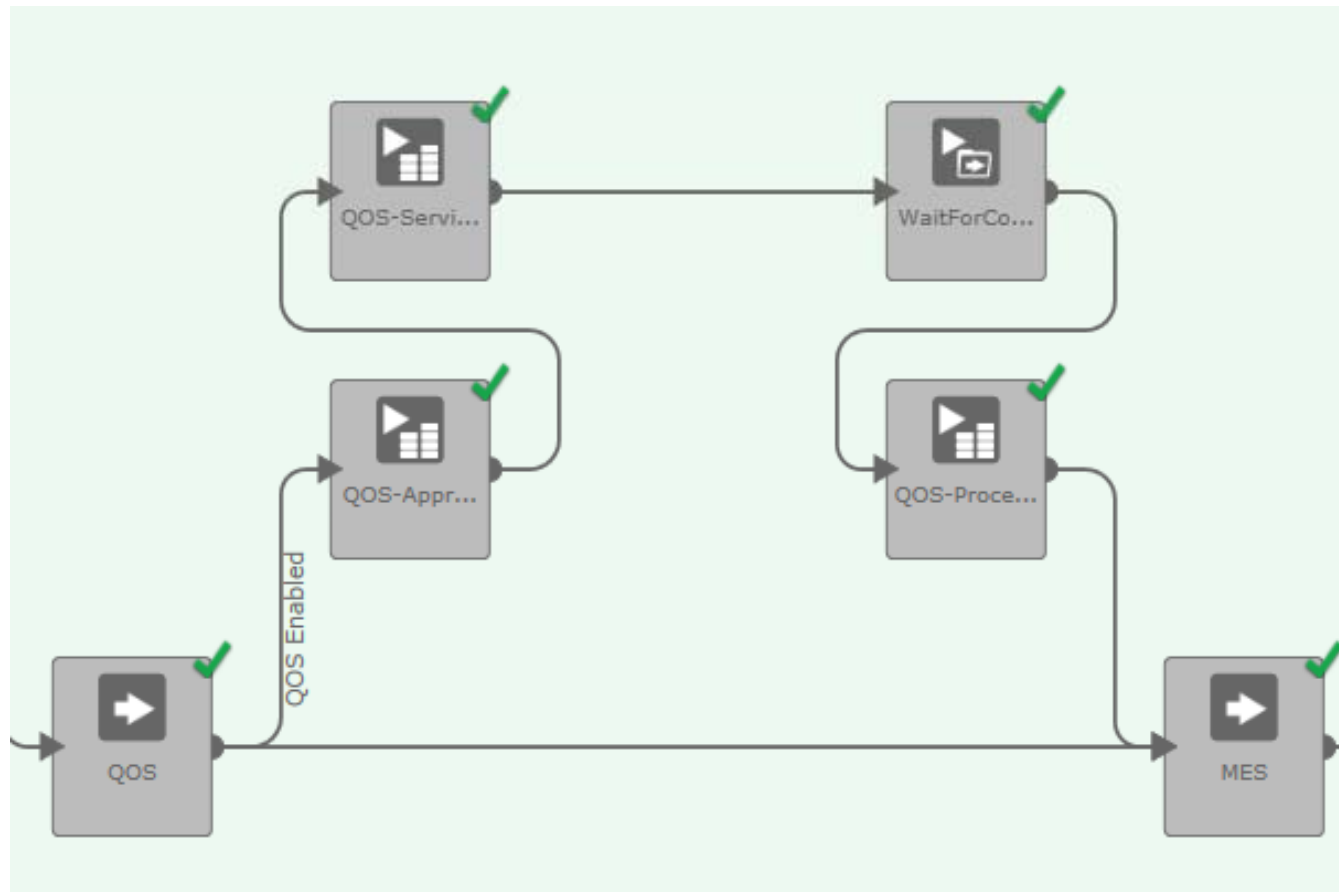


DPWS – Beispiel DTS



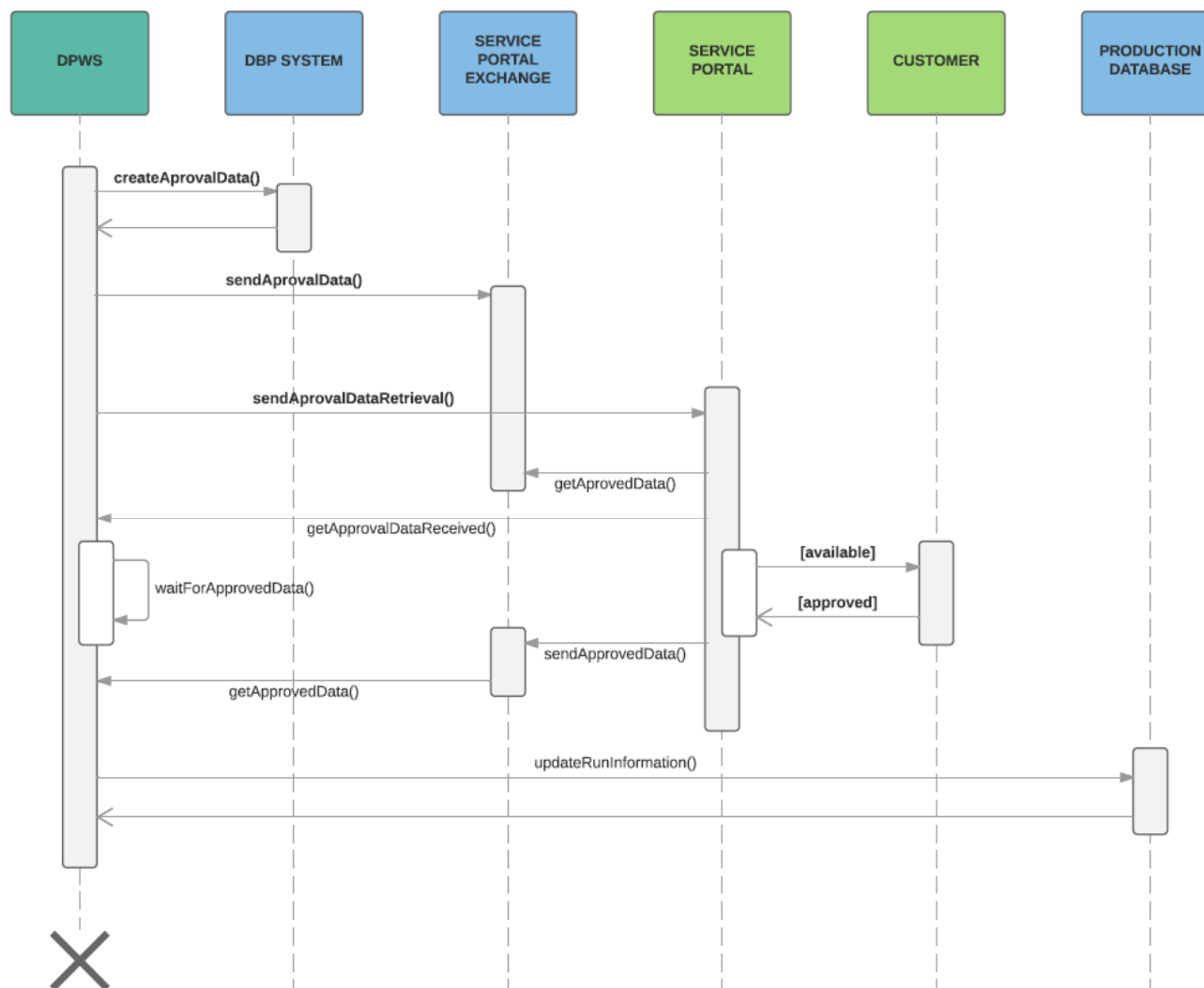


DPWS – Beispiel QOS



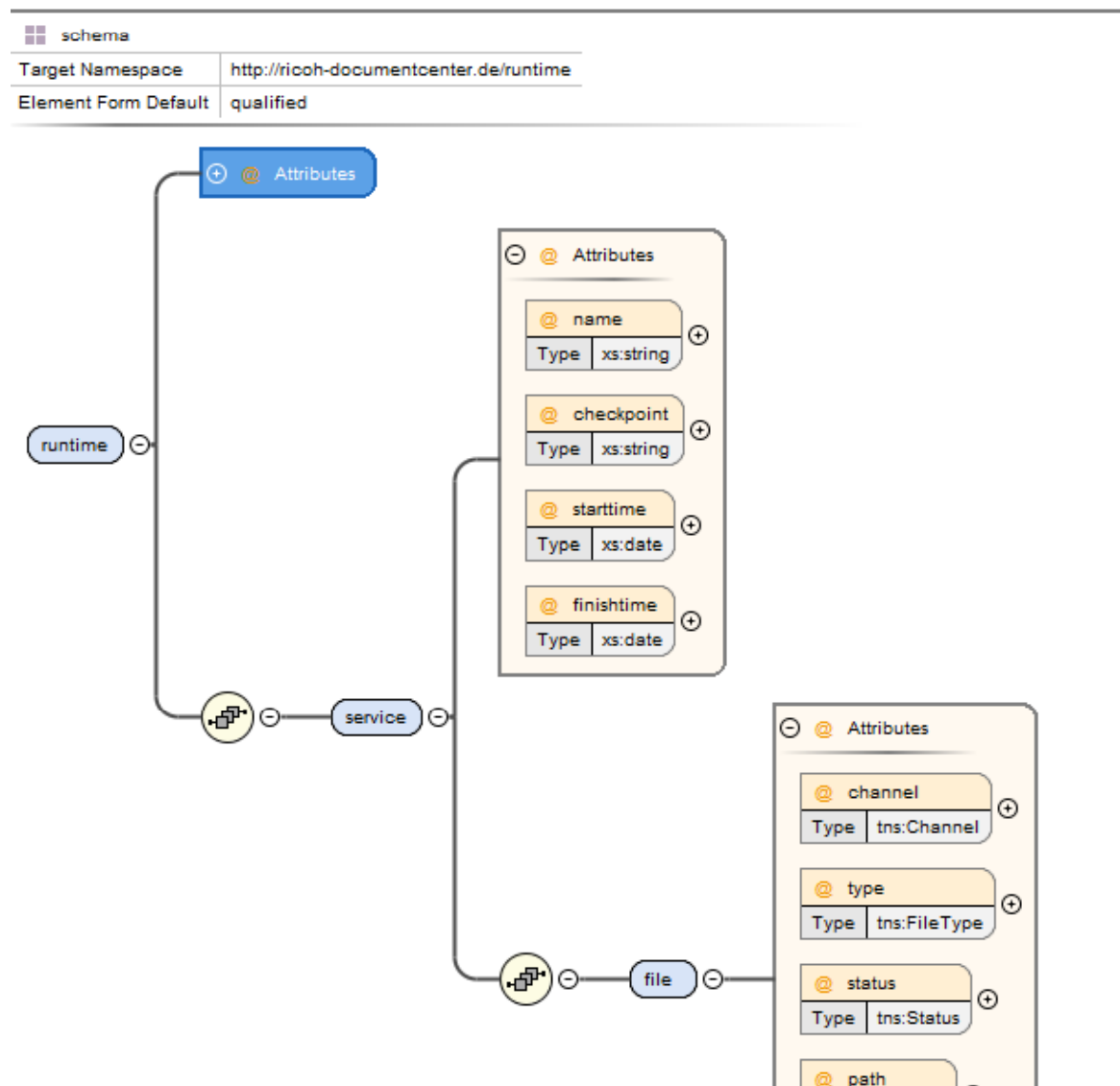


DPWS – Beispiel QOS





DPWS – Beispiel Runtime





DPWS – Beispiel Runtime

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1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <runtime appkey="postageonly-FW" jobid="90005887" runid="1317" runname="APPSAMPLE_DP-20160407-0001" orderno="" jobdir="/aiw/aiw1/spool/default"
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4 <service name="DTS" checkpoint="0000-DTS" starttime="2016-04-07T17:37:12" finishtime="2016-04-07T17:37:14">
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```



DPWS – Beispiel Metadaten

```

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<> TLE RicohData.RADS.DocCenterKey: RDC-Bra
<> TLE RicohData.RADS.InterfaceKey: I-piPA
<> TLE RicohData.RADS.Source: RDC-Bra
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BAG
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```

Technologien



- API's
 - Metadaten (Erhebung, Anreicherung)
 - Runtime-Engine (Runtime-XML)
 - AFP Object Container
 - Kalender, Freigabe-Portal
 - Direkte Anbindung an Drittsysteme
- Plattform
 - Unix, Windows
- Apache Commons, Spring WebServices, JDBC, AFP-Lib, PDF-Lib, Maven, Eclipse

Continuous Integration





Continuous Integration - GIT



Repository Verwaltung

[Sort Group](#)

[Neues Repository erstellen](#)

DPWS/1.0

Name	Beschreibung
dis-service	DIS: Data Input Service
dpws-modules	deliver modules for dpws
dts-check4data	This is the check4data module for DTS.
dts-service	This is the implementation of DTS module
fis-submit	FIS: Submitter
mes-service	MES: Metadata Enhancement Service
pos-distrib	POS: distribute files
proddb-api	API: Production Database
qos-approval	QOS: qos-approval module
qos-approval-api	QOS: qos-approval api



Continuous Integration - Nexus

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admin ▼
Sonatype Nexus™ 2.11.4-01

Sonatype™

Nexus

Artifact Search

Advanced Search

Views/Repositories

Repositories

Repository Targets

Routing

System Feeds

Security

Administration

Help

Welcome

Repositories

Refresh

Add...

Delete

Trash...

User Managed Repositories

Repository ▲	Type	Health Check	Format	Policy	Repository Status	Repository Path
Public Repositories						
3rd party	hosted	ANALYZE	maven2			http://debra01-27...
afplib (sonatype)	proxy	ANALYZE	maven2	Snapshot	In Service	http://debra01-27...
Apache Snapshots	proxy	ANALYZE	maven2	Snapshot	In Service	http://debra01-27...
Central	proxy	23 75	maven2	Release	In Service	http://debra01-27...
Central M1 shadow	virtual	ANALYZE	maven1	Release	In Service	http://debra01-27...
Codehaus Snapshots	proxy	ANALYZE	maven2	Snapshot	In Service - Remote Auto...	http://debra01-27...
Releases						
Snapshots	hosted	ANALYZE	maven2	Snapshot	In Service	http://debra01-27...
spring - external	proxy	0 0	maven2	Release	In Service	http://debra01-27...
spring - milestone	proxy	0 0	maven2	Release	In Service	http://debra01-27...
spring - release	proxy	0 0	maven2	Release	In Service	http://debra01-27...

Releases

Browse Index

Browse Storage

Configuration

Routing

Summary

Artifact Upload

Refresh

Path Lookup:

Releases



Continuous Integration - Build

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**Jenkins**

Suchen 

Jenkins > DPWS > [AUTO-AKTUALISIERUNG EINSCHALTEN](#)

 Element anlegen

 Benutzer

 Build-Verlauf

 Ansicht bearbeiten

 Ansicht löschen

 Projektbeziehungen

 Fingerabdruck überprüfen

 Jenkins verwalten

 Zugangsdaten

Build Warteschlange 

Keine Builds geplant

Build-Prozessor-Status 

1 Ruhend

All DPWS +

S	W	Name ↓	Letzter Erfolg	Letzter Fehlschlag	Letzte Dauer	
		cos-optimize	5 Tage 4 Stunden - #36	Unbekannt	8,7 Sekunden	
		cos-updatedb	1 Monat 16 Tage - #44	2 Monate 14 Tage - #32	17 Sekunden	
		cos-updmeta	1 Monat 16 Tage - #31	3 Monate 25 Tage - #1	20 Sekunden	
		cus-service	5 Tage 4 Stunden - #81	3 Monate 22 Tage - #15	8,9 Sekunden	
		dis-arlite	5 Tage 4 Stunden - #34	1 Monat 11 Tage - #2	8,5 Sekunden	
		dis-formware	4 Tage 22 Stunden - #47	1 Monat 8 Tage - #13	8,1 Sekunden	
		dis-service	5 Tage 4 Stunden - #87	1 Monat 9 Tage - #47	8,7 Sekunden	
		dpws-modules	4 Tage 23 Stunden - #98	1 Monat 17 Tage - #53	17 Sekunden	
		dts-check4data	3 Tage 2 Stunden - #46	1 Monat 15 Tage - #18	10 Sekunden	
		dts-service	3 Tage 1 Stunde - #121	1 Monat 9 Tage - #75	10 Sekunden	

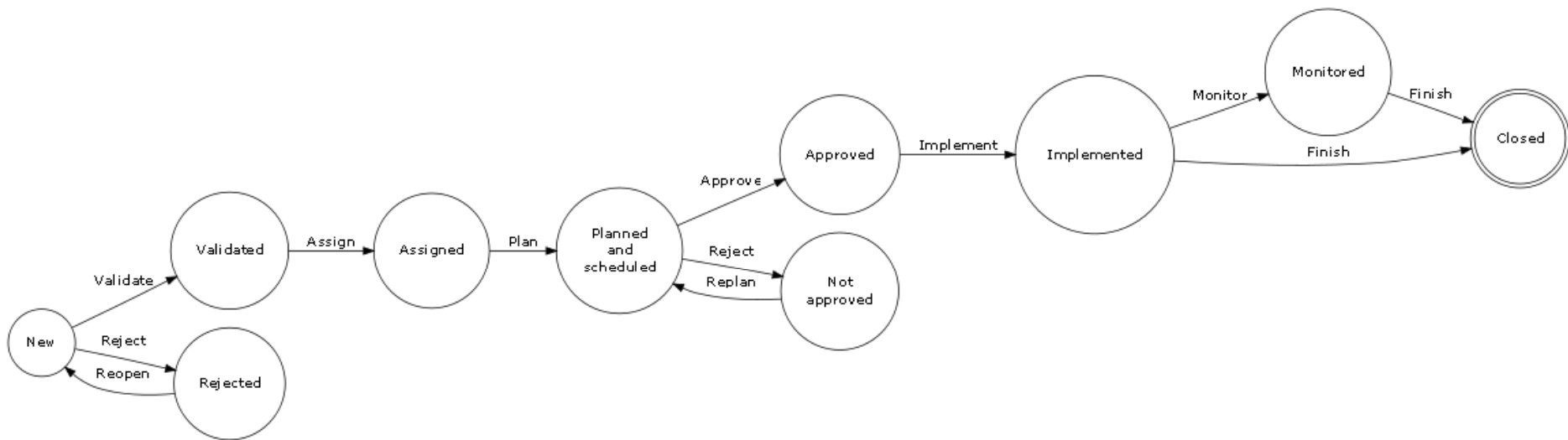
 Beschreibung hinzufügen

IT-Change Management / Deployment Process





IT-Change Management



-
- Automatisiertes Deployment
 - Workflows
 - Konfiguration
 - Möglichkeit für Fallback Szenario
 - Sicherstellung der Vollständigkeit durch mehrere System-Umgebungen

What's next?



What's next?

- Weiterentwicklung und Aufschaltung neuer Services / Funktionalitäten
- RPD Standard Step zur Konfiguration der Anbindung und Steuerung Anwendungssysteme
- Erweiterung DTS zur Abholung von sFTP-Server
- Automatisierte Rückmeldung
- Alle weitere Anwendungen Aufschalten
- Anbindung von Mailing-Anwendungen

Fragen?



Vielen Dank!



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