www.pdfa.org

Choosing a PDF Conversion Server for Schindler Elevators

Sebastian Schütze
Senior Azure / DevOps Consultant, Tuleva AG

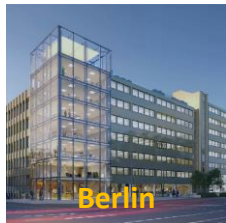Sebastian Schütze,
Senior Azure/DevOps
Consultant

About Me

- Worked as Web / O365 / SharePoint Developer for around 7 years

- Refocused to Azure / DevOps with ALM Methodogies

- Switched from Schindler to Tuleva AG in 2018
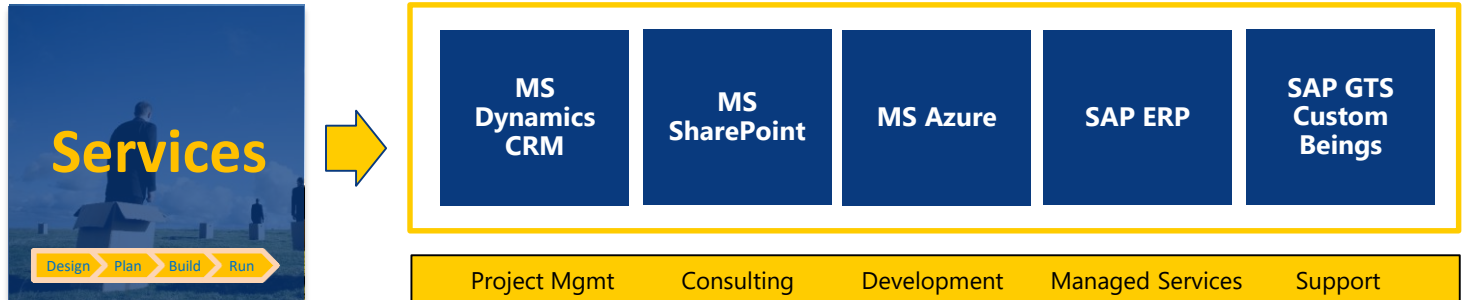
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Tuleva AG - Microsoft and SAP Experts

Hamburg

Berlin

TULEVA
design the future

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Consultant

- Tuleva exists since 10 years (Main branch in Hamburg)

- Branches in Hamburg, Berlin, Hannover (> 40 employees)

- Developing new area: Azure and DevOps Business Development

Services

Design › Plan › Build › Run

MS Dynamics CRM	MS SharePoint	MS Azure	SAP ERP	SAP GTS Custom Beings

Project Mgmt	Consulting	Development	Managed Services	Support

Schindler

Background and Motivation

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Schindler Global

- Founded in 1874, producing Elevators and Execalators

- Employees Global: ~58.000

- IT department is independently outsourced in SDB (Schindler Digital Business)

- Big Change in IOT in Elevators and Smart Buildings

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Motivation

- Standardisation

- Centralization

- Flexibility

- Billable

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Use Case Applications

- Mergers & Acquisitions
  - Digital Transformation Analog ←→ Digital
  - Uses SharePoint, Workflows
  - Needs to convert to PDF that are sustainable

- Digital Service Catalogue
  - Catalogue for Services available / purchasable in Company
  - Generating PDF invoices / inqueries from HTML pages
  - Uses iText already

- Demands of future applications rising (10-15 new migrated Applications)

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Evaluation Approach

Two Phased Evaluation

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Phase 1 - Requirement Matrix

- Analyzed 30 Requirements

- 9 Solutions - Full Solutions & SDK

- From 5 Vendors

  - Foxit

  - ActivePDF

  - pdfforge

  - dox42

  - iText Software

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Phase 2 – Hardware & Software Setup

- Isolated VM in Azure (not classic) and size "Standard DS2 v2" (2 Inter® Xeon® CPU E5-2673 v3 @ 2.40GHz, 7 GB memory).

- Windows Server 2016 Datacenter

- Microsoft Office 365 ProPlus

- Microsoft SQL Server DeveloperIIS

- ASP.NET 4.6 / .NET 4.6

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Phase 2 – Tested Solutions

- Foxit Rendition Server
  (1 management Node + 1 worker node)

- dox42 Server Enterprise
  (with Enterprise Feature Set)

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Planned IT Architecture

Hybrid IT in Azure and On Premise for

Development and Production

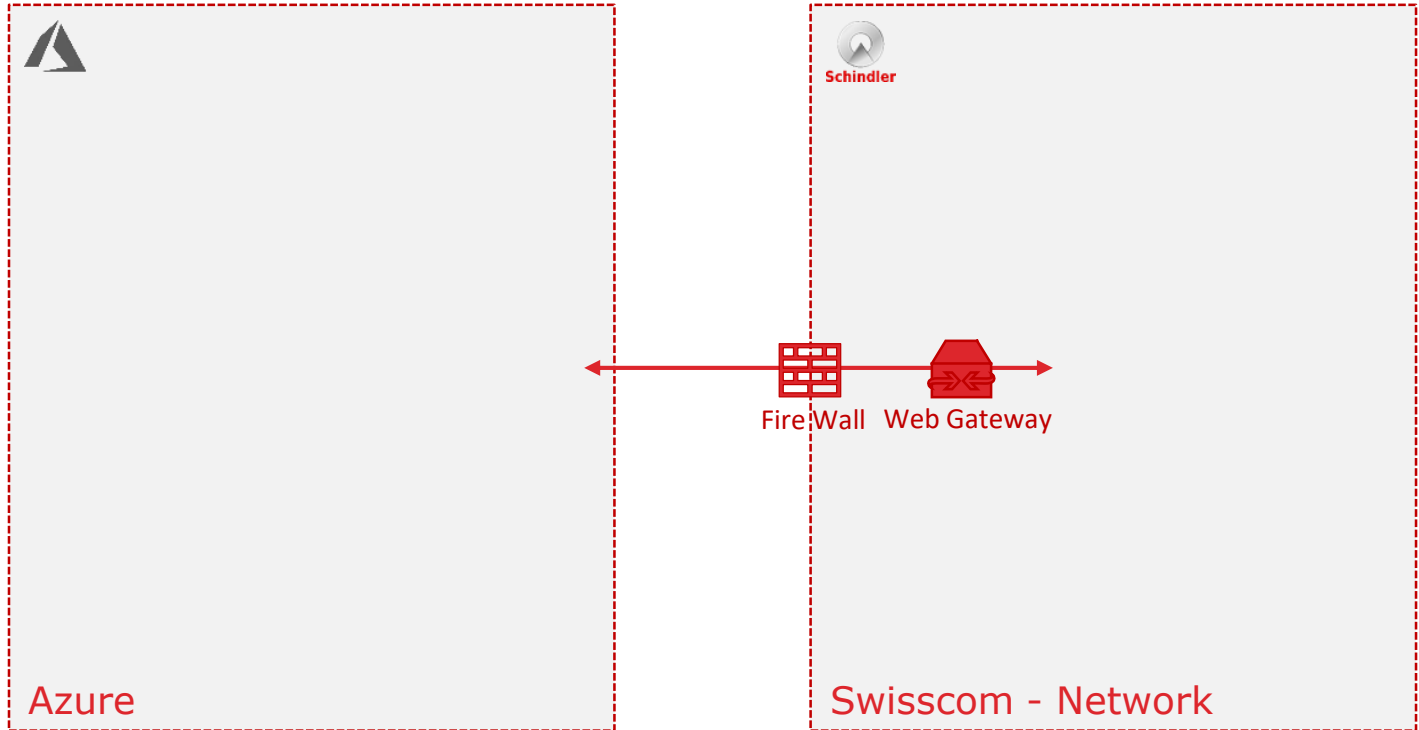Sebastian Schütze,
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Azure

Schindler

Swisscom - Network

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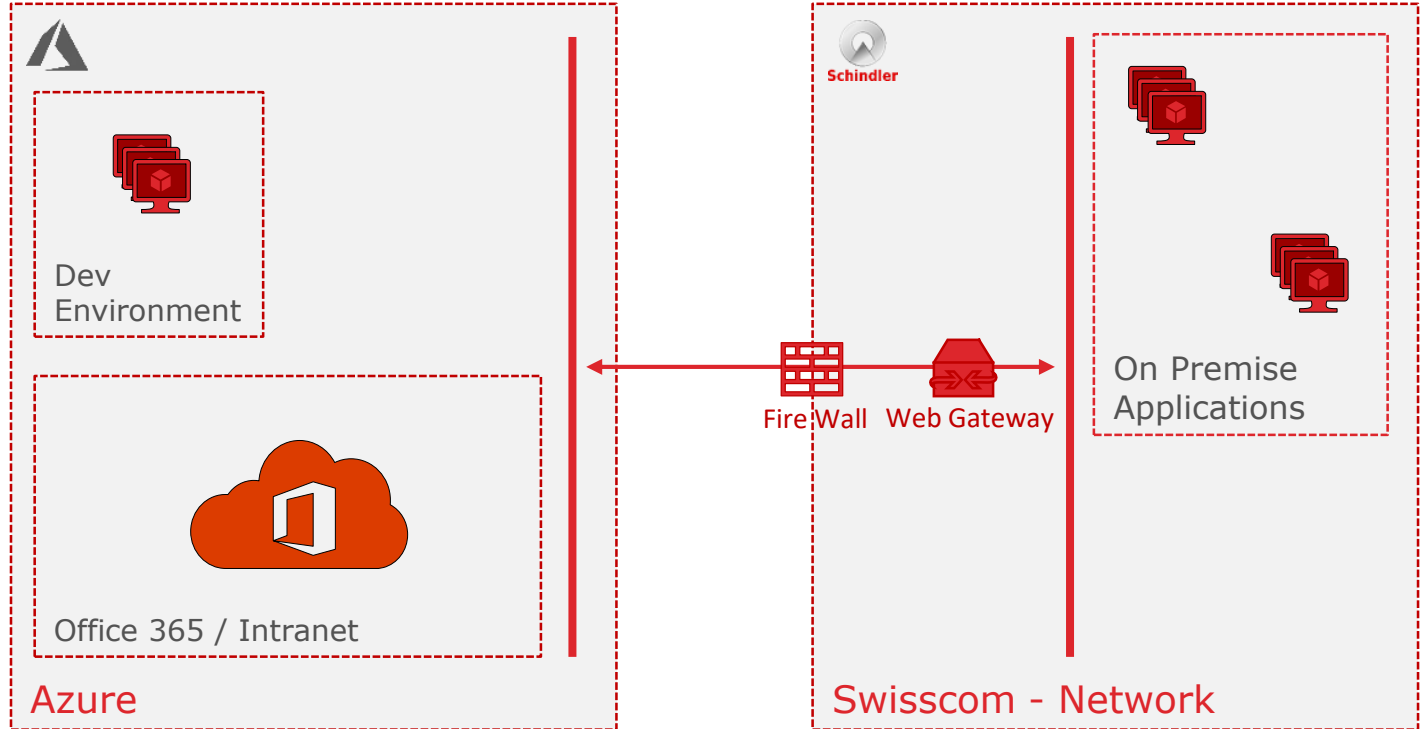Senior Azure/DevOps
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Hybrid Infrastructure
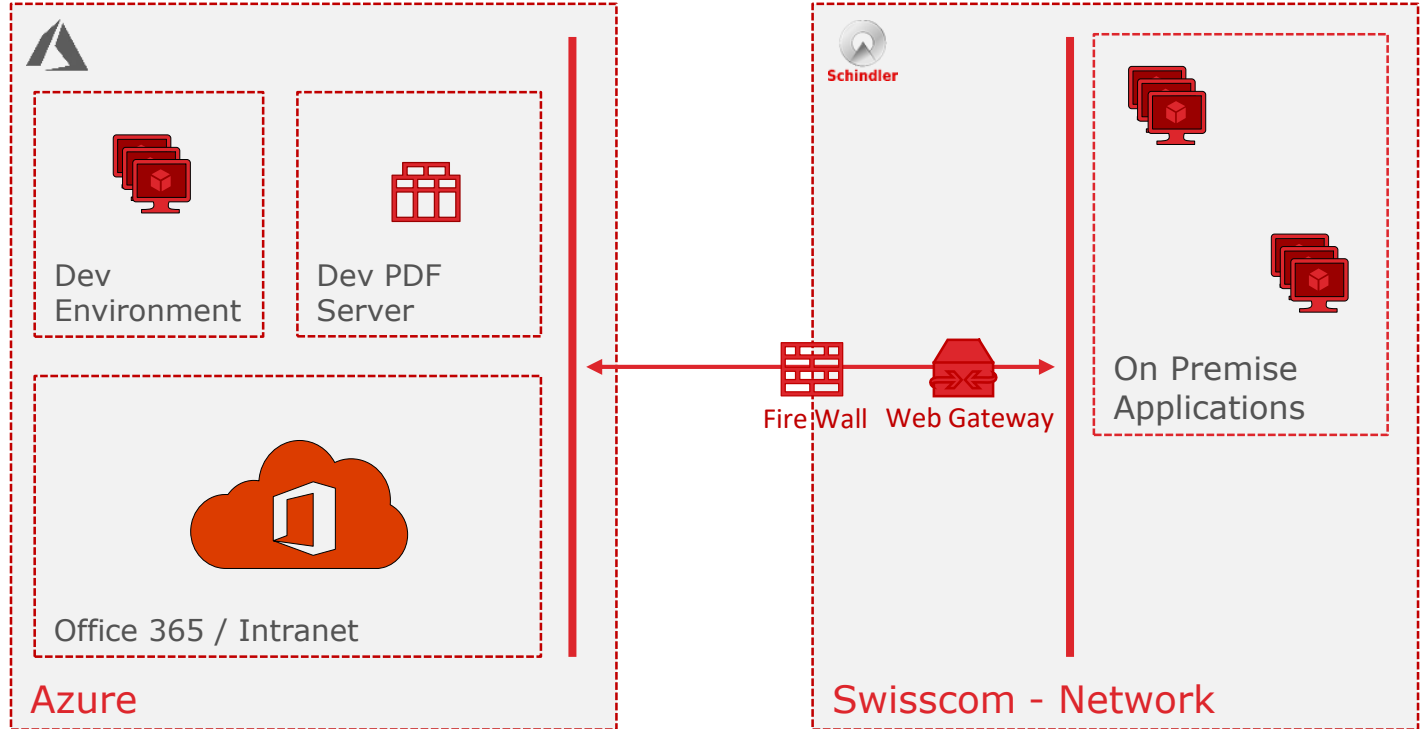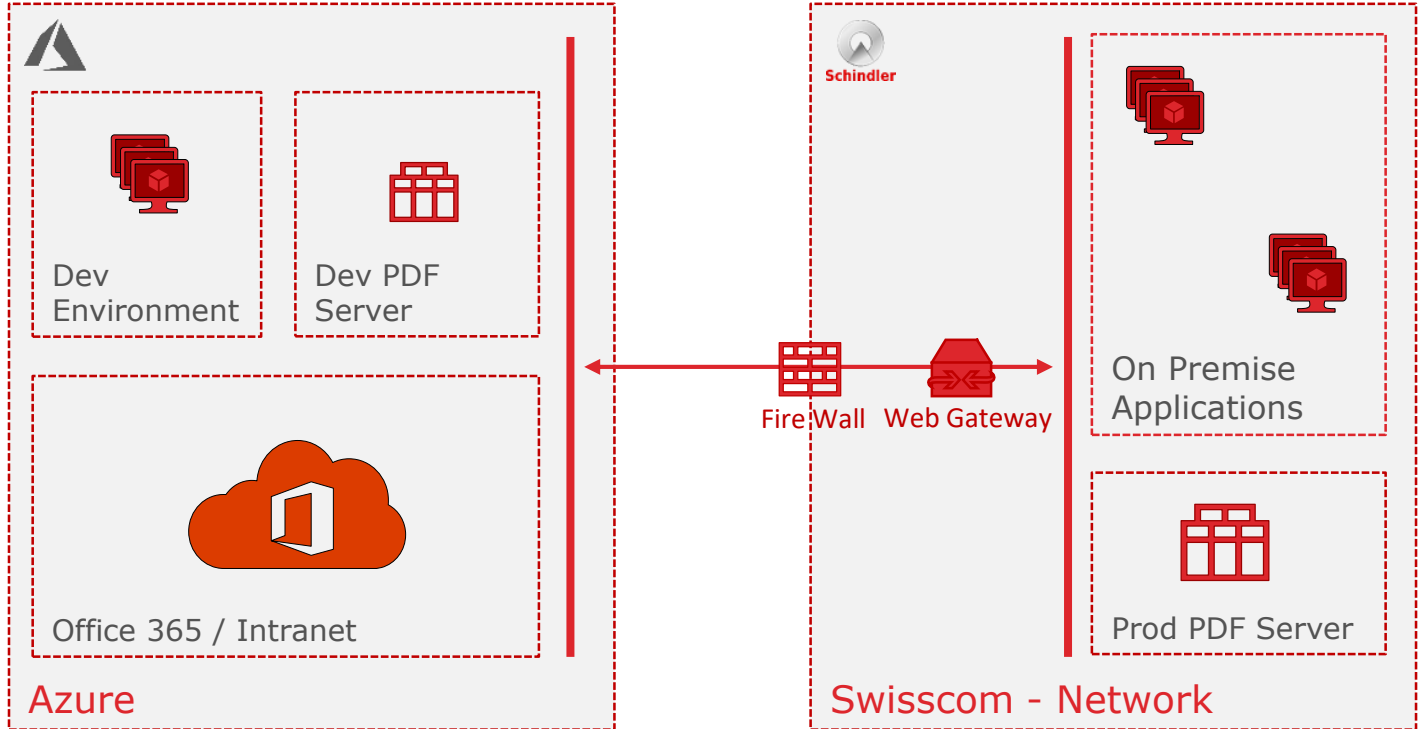
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Azure

Schindler

Fire Wall   Web Gateway

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Hybrid Infrastructure

Dev Environment

Office 365 / Intranet

Azure

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Fire Wall   Web Gateway

On Premise Applications

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Hybrid Infrastructure

Dev Environment

Dev PDF Server

Office 365 / Intranet

Azure

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Fire Wall   Web Gateway

On Premise Applications

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Azure

Dev
Environment

Dev PDF
Server

Office 365 / Intranet

Schindler

Fire Wall   Web Gateway

On Premise
Applications

Prod PDF Server

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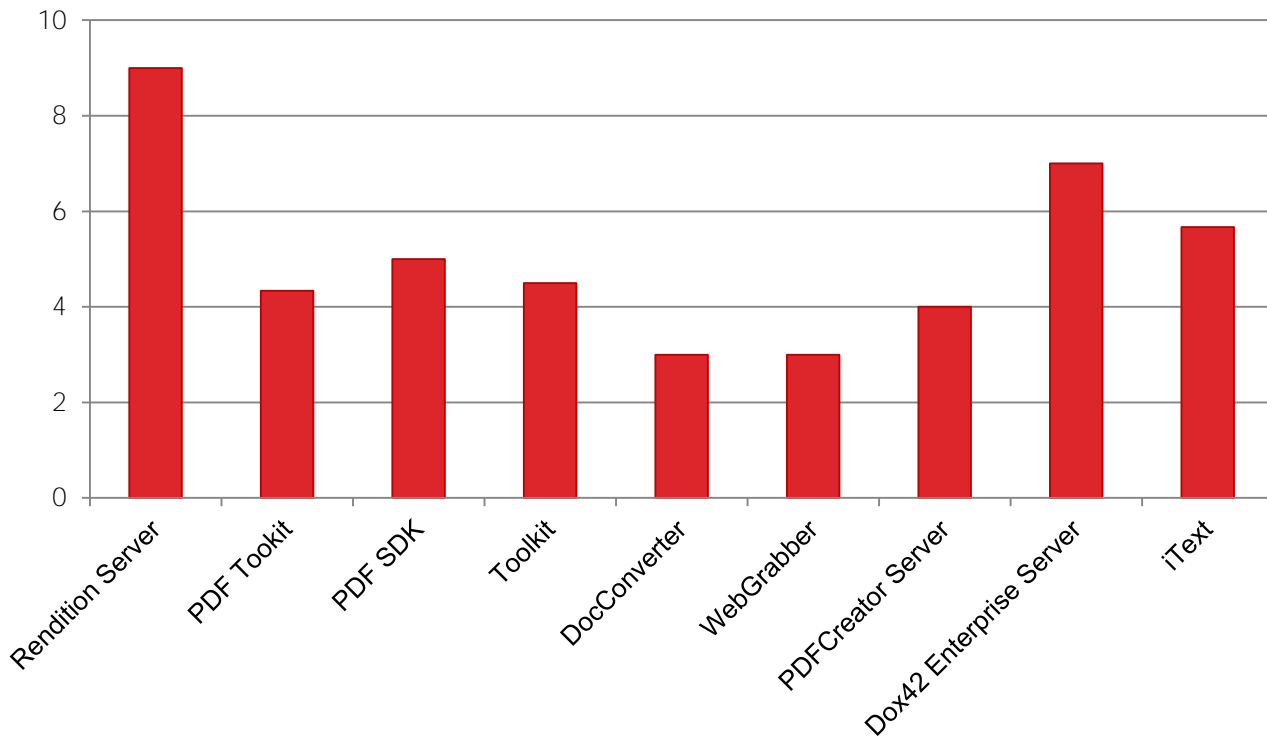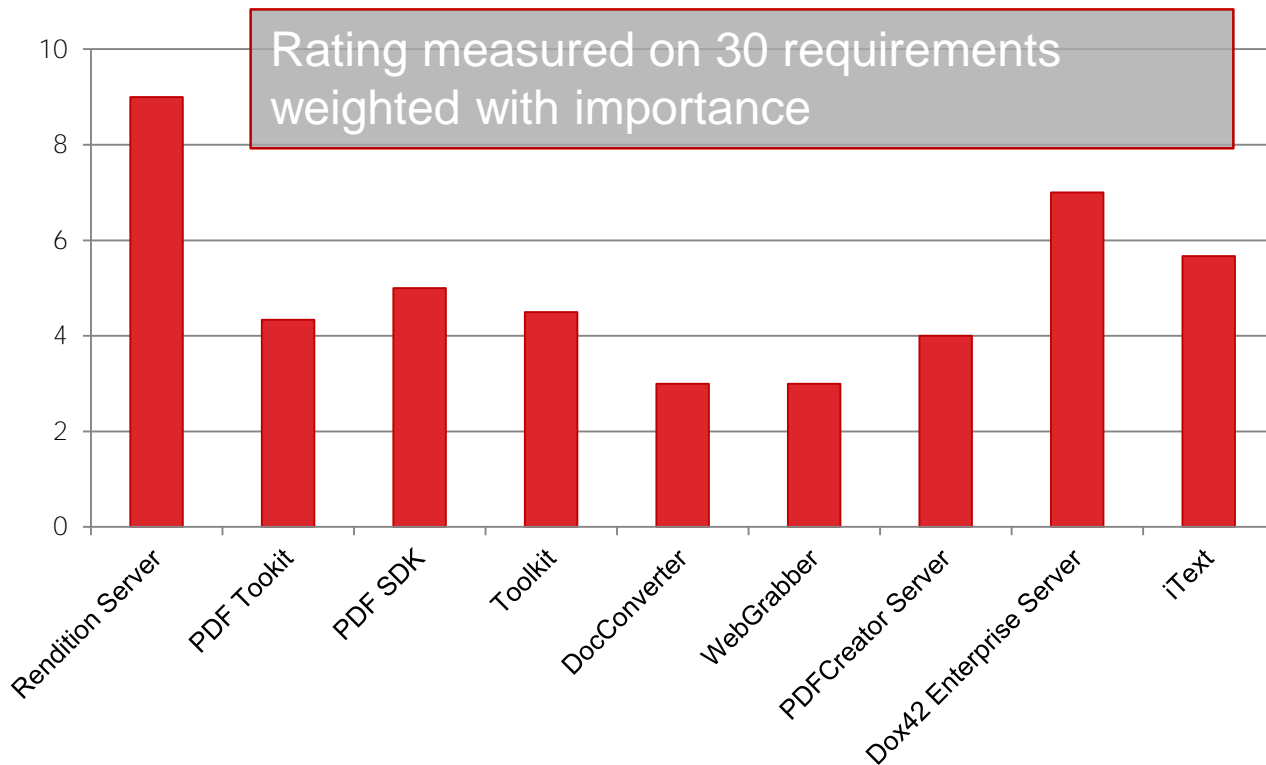
Evaluation Results

Background and Motivation

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Importance Rating
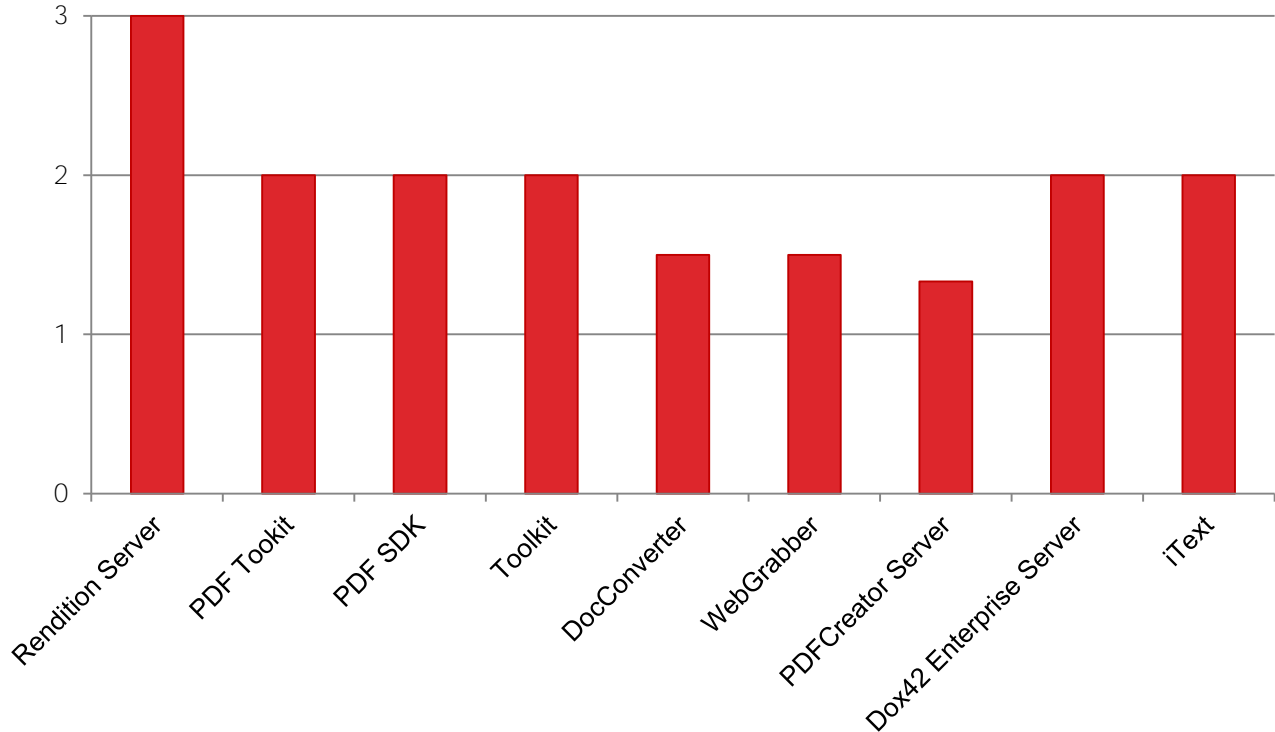

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# Importance Rating

Rating measured on 30 requirements weighted with importance

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Personal Rating

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Personal Rating

Rating measured on subjective impression of testers (3 developers, 1 architect)

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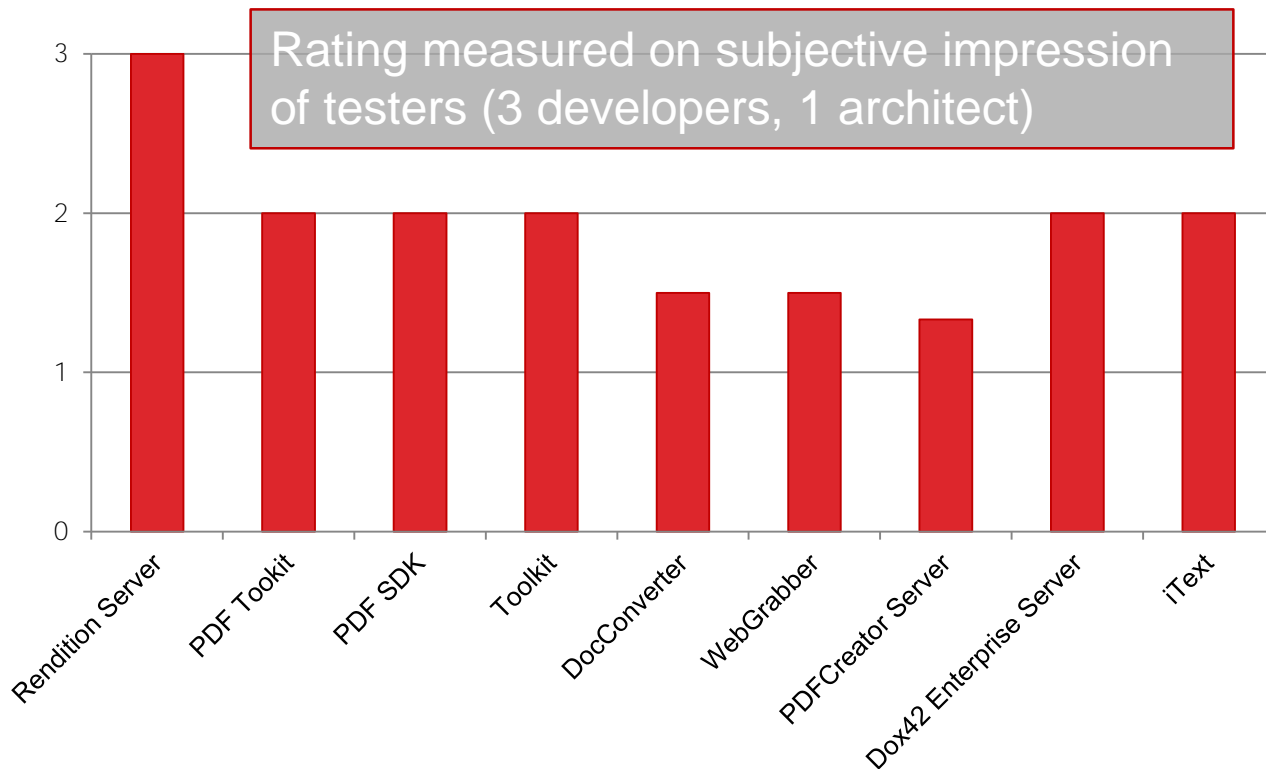
Risk Evaluation Matrix

- Matrix consisting 5 level propabilities (rare,unlikely,possible,likely,certain)

- Assessing what happens, when solution partially or fully (with SDKs) is self-developed

- Risks derived mainly from the motivations mentioned in previous slides

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Thank you! Any questions?

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