

3DEXPERIENCE CONFERENCE

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Cloud-Cloud-Coupling by using SCHWINDT's vierS.Cloud

Dr. Ralf Seidler

CEO
SCHWINDT DIGITAL GmbH



SCHWINDT

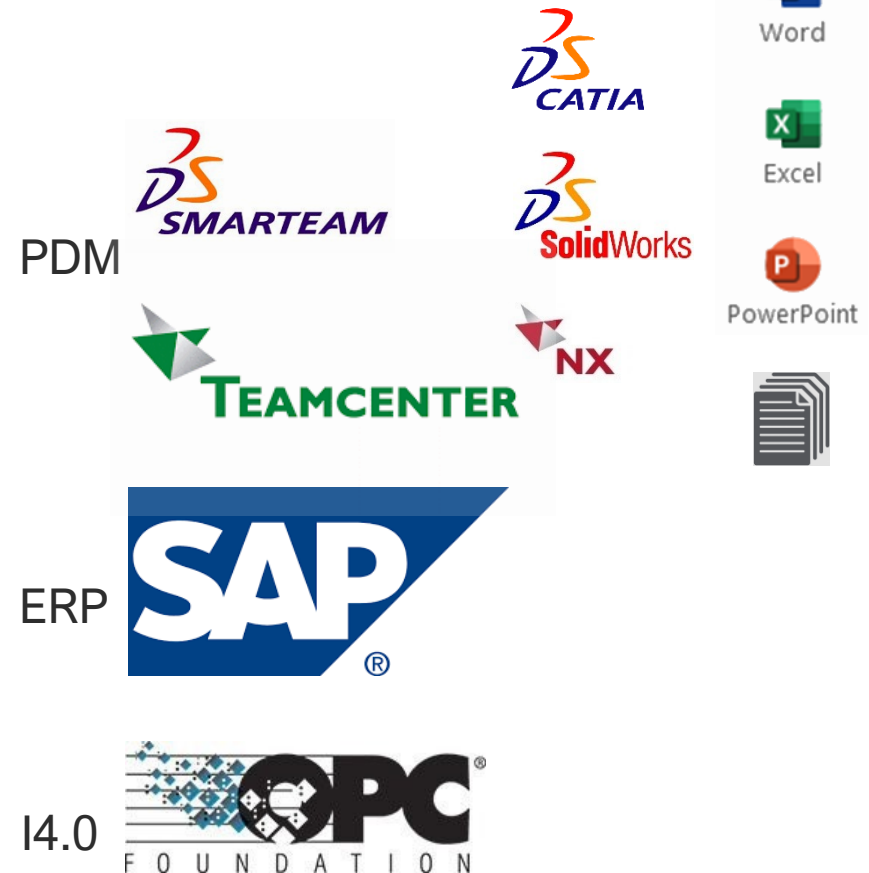
Ihr Dienstleister für digitale Entwicklungsprozesse
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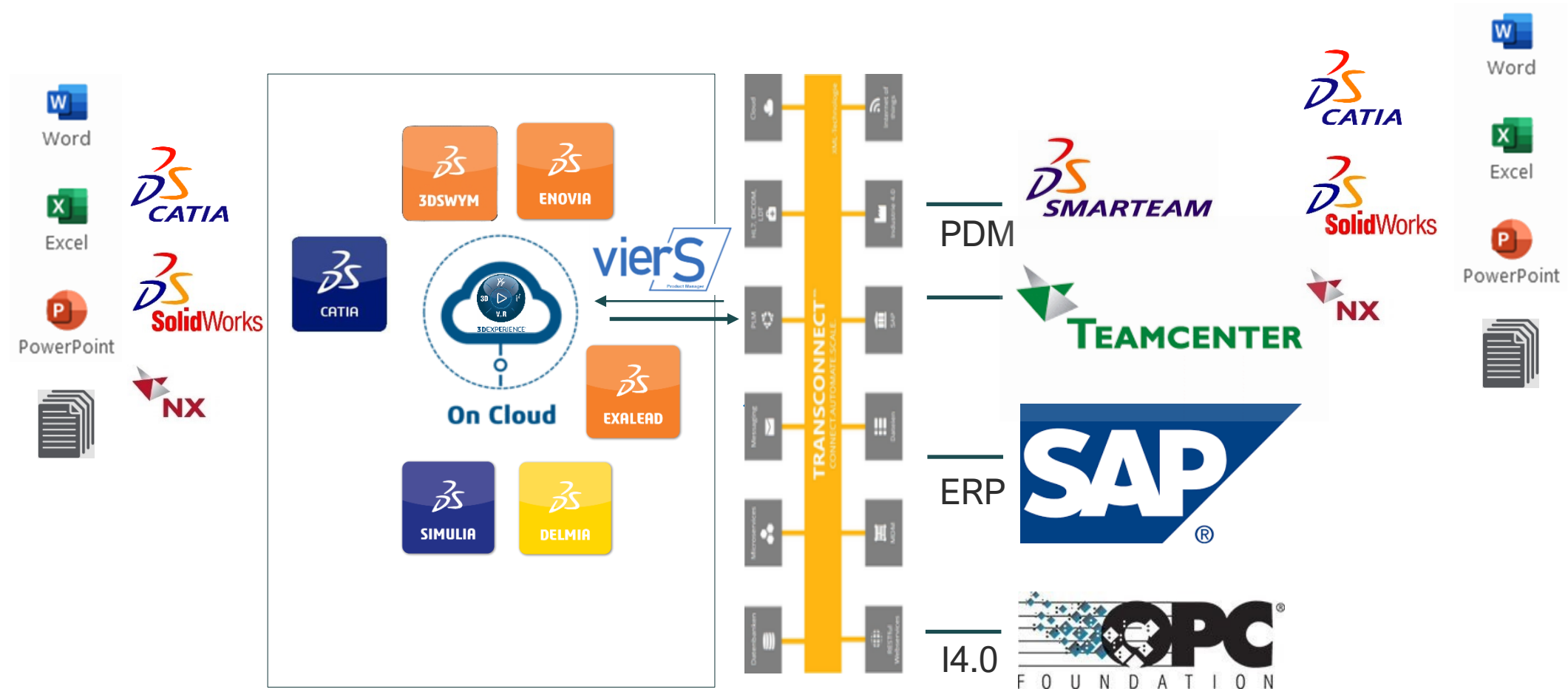
member of **3DX** ALLIANCE



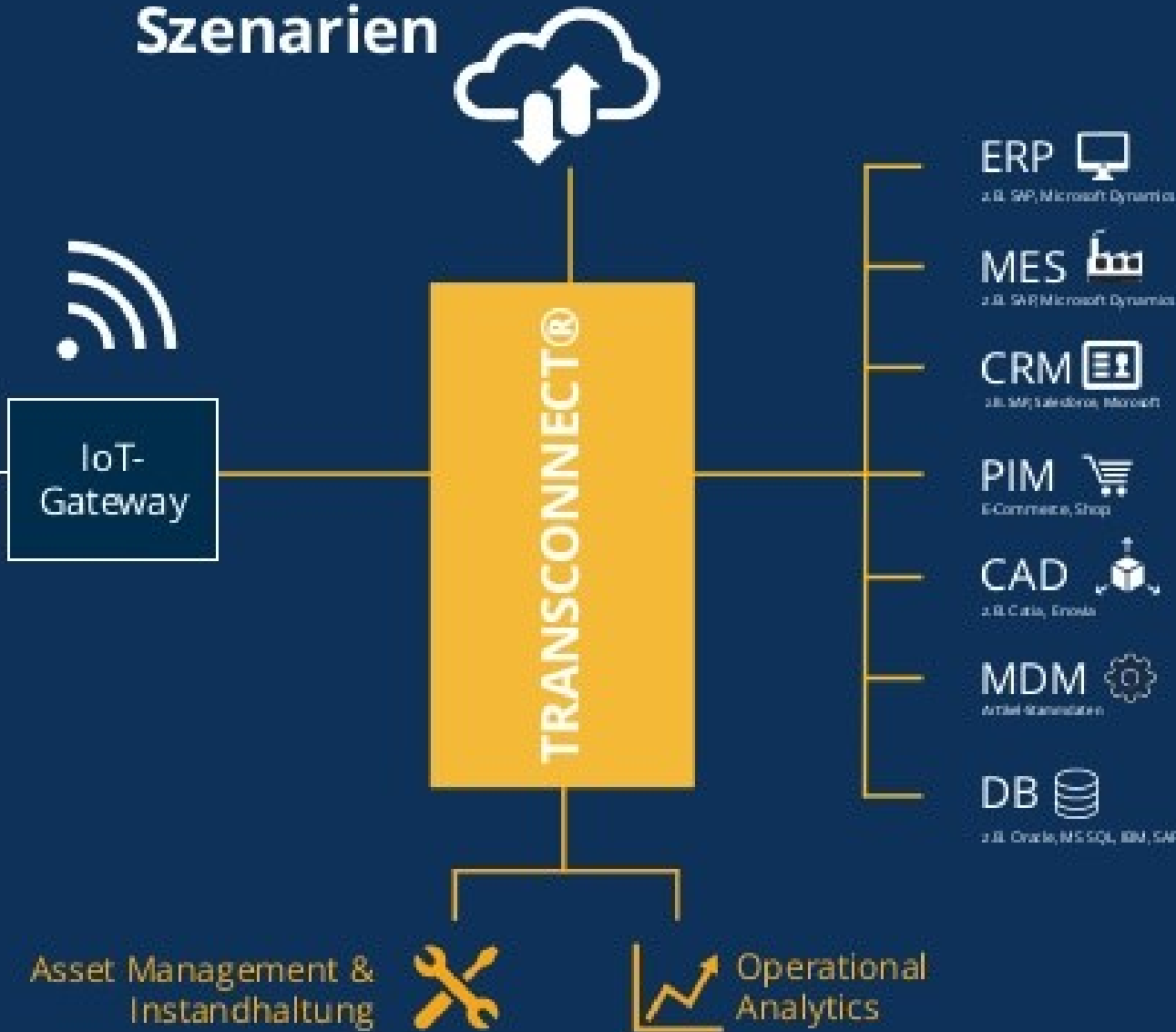
What do IT landscapes look like and how should they be improved?



Connecting all of the pieces with one infrastructure!



Szenarien



Einsatzbeispiele:

- Maschinendatenerfassung
Predictive Maintenance
- Qualitäts- und Prozessmanagement
- CRM-Materialwirtschaft-Integration
- Artikelstammdatenmanagement und
-qualitätssicherung
- CAD-PLM-PDM-Integration
- CAD-ERP-Integration
- ERP-MES-Integration
- Tracking & Tracing, Traceability
- Prozessorientiertes Anlagen-
management & Instandhaltung

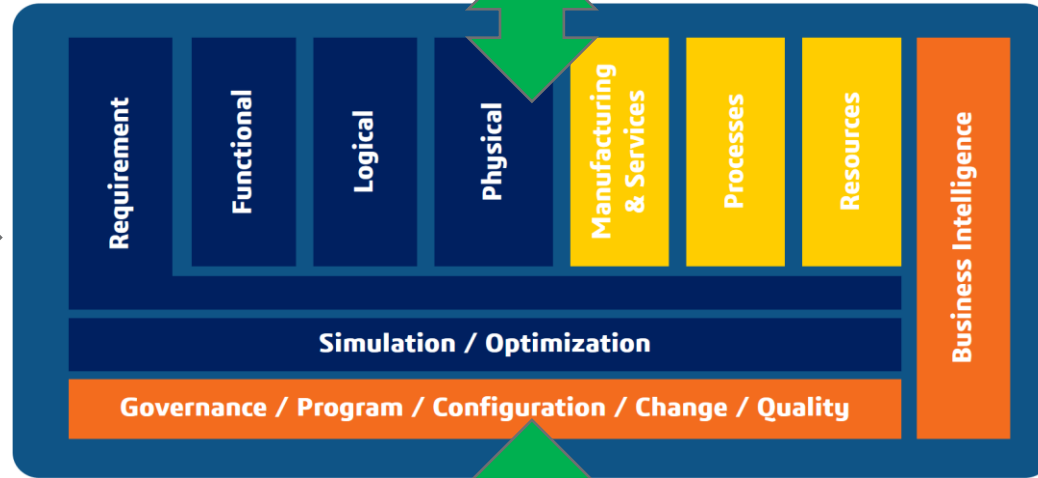
3DEXPERIENCE COLLABORATIVE SOLUTIONS OPENNESS

Enterprise Adoption Openness

- Administration Openness for Configuration
- Data model customization
- People & Organization
- Server Java Configuration / Customization
- MQL

Application and Solution Openness

- Support third Party Applications (Power 'By)
- Application Programming APIs
- SIMULIA Application Openness
- Web UI / Widget Openness



External Ecosystem Openness



- Openness by Converters
- STEP 242 XML Openness
- Supplier Collaboration
- File Collaboration Openness

Enterprise Ecosystem Openness

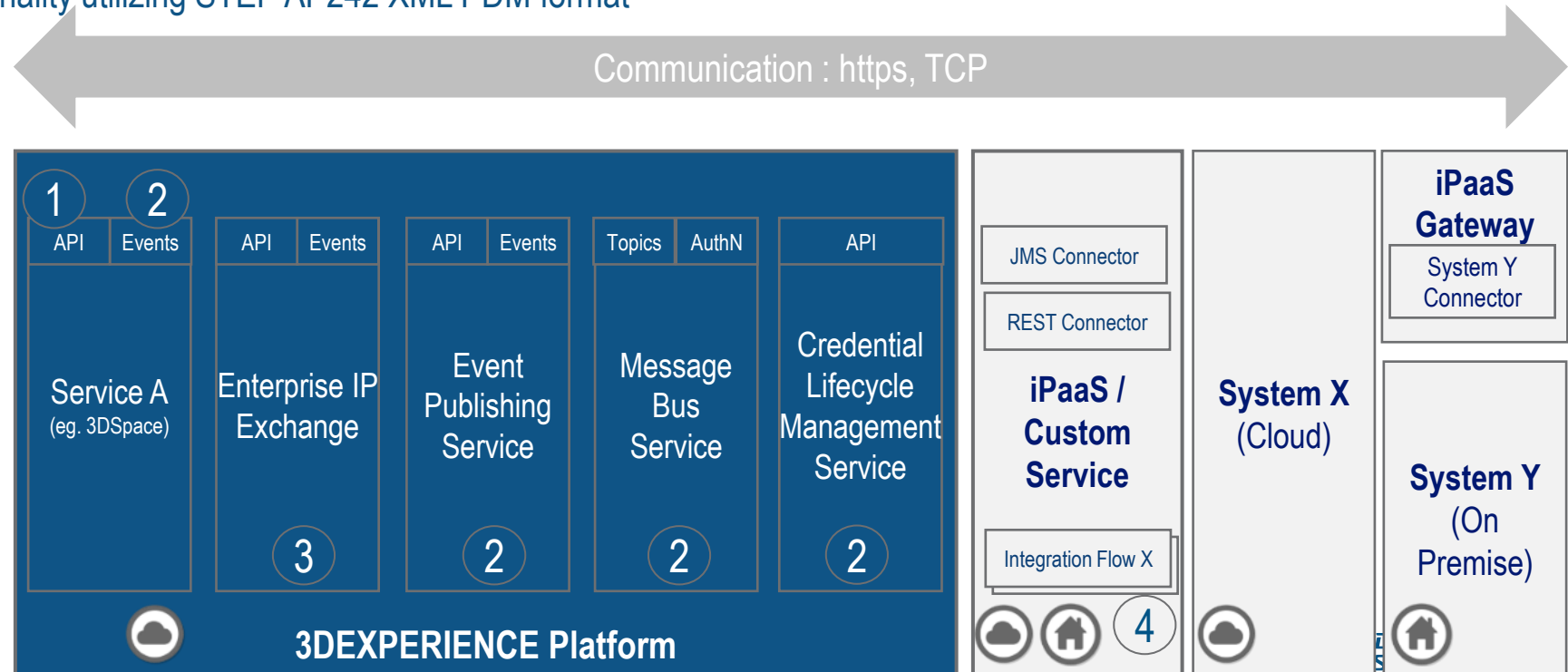
- Integration Frameworks
 - xPDM Exchange Framework
 - Enterprise Integration Framework
 - REST Web Services
- Systems Openness, Traceability, OSLC
- Data Federation
- DS Legacy migration tools

Enterprise Integration Framework (EIF)

- EIF is a new Event based Cloud Integration Architecture (Trigram PFI)
- EIF can be utilized to perform end-to-end integrations with external enterprise systems
- EIF is using open standard protocols and functionality
 - JMS to communicate on events which happen inside the 3DEXPERIENCE Platform
 - Punctual REST API to perform punctual operation on 3DEXPERIENCE Platform data
 - Asynchronous export/import functionality utilizing STEP AP242 XML PDM format

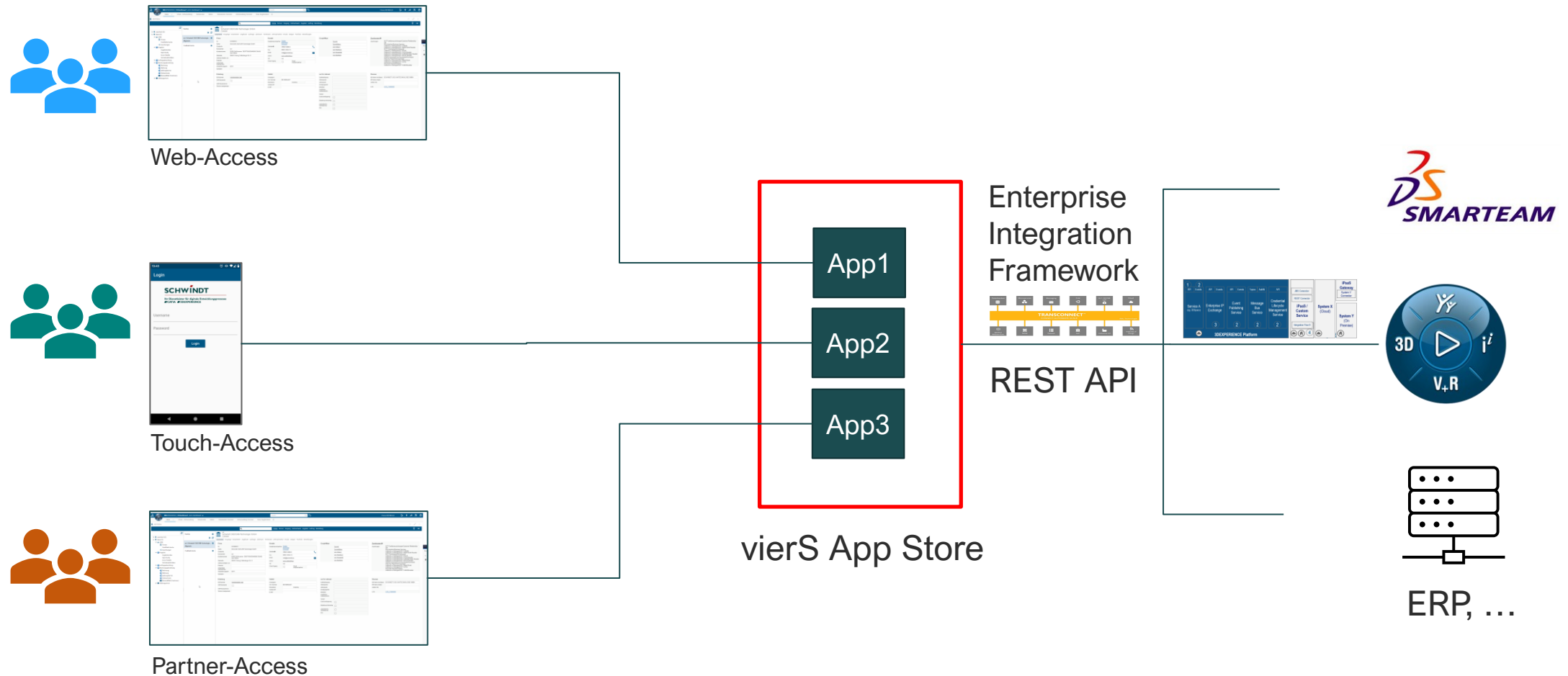
 Services provided by Dassault Systemes
 External Services.

- 1 REST Web-Services**
for Punctual Operations use cases
- 2 Automation Ready**
 - ▶ Events published by respective Services via Event Publishing Service
 - ▶ Message Bus Service to manage events
 - ▶ Credential Lifecycle Management Service to manage integration agents
- 3 Engineering Exchange Service**
 - ▶ Asynchronous parallelized Bulk Data Export of configured definitions
 - ▶ Exchanged IP described in Standard-compliant format
- 4 iPaaS / Custom Service** for Integration to other systems



vierS as a 3DEXPERIENCE App Store

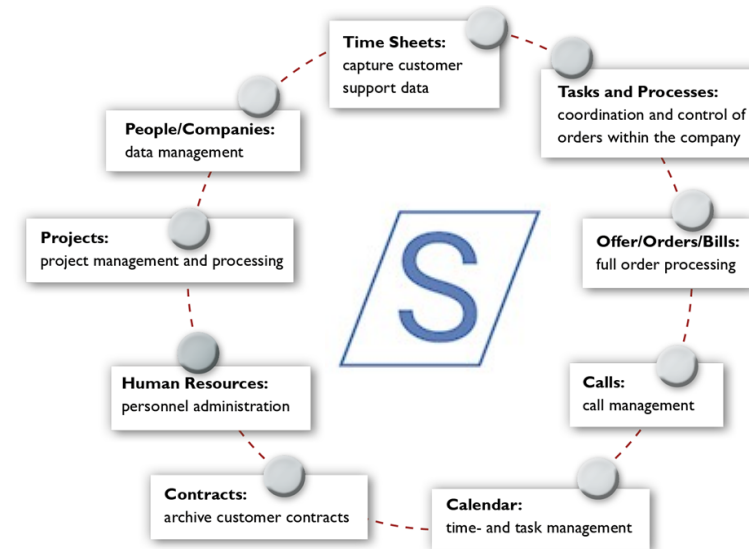
vierS.Cloud is a digital platform to host versatile web applications and connect to data stores in different 3rd party systems.



vierS Solutions



vierS Business Manager - an information platform for small and medium-sized businesses that links information from administrative and development processes



vierS Product Manager – extracts data from and provides data to the 3DEXPERIENCE platform through applications developed inhouse, when necessary

- vierS SmarTeam Archive App
- vierS Portal App
- vierS IDAUS

...

vierS SmarTeam Archive App



Export-Engine:

- When exporting, there is the option of a complete migration or data filtering (positive picking: e.g. "only released assemblies").
- Export packages are possible.
- All data from each SmarTeam object is included.
- Export processes can be repeated as often as necessary.

- The **vierS SmarTeam Archive App** enables access to the archive data via a web browser from anywhere.
- All structures, metadata and documents from ENOVIA SmarTeam can be displayed. For further use of the CAD data in an application, complete structures (assemblies) can be downloaded on demand.
- Access rights are either read by SmarTeam or reset according to current configurations in the vierS.Cloud.
- Any metadata can be included in the search index. This keywording of data structures allows flexible searching with powerful search filters.
- 3D viewers can be integrated to visualize 3D structures.

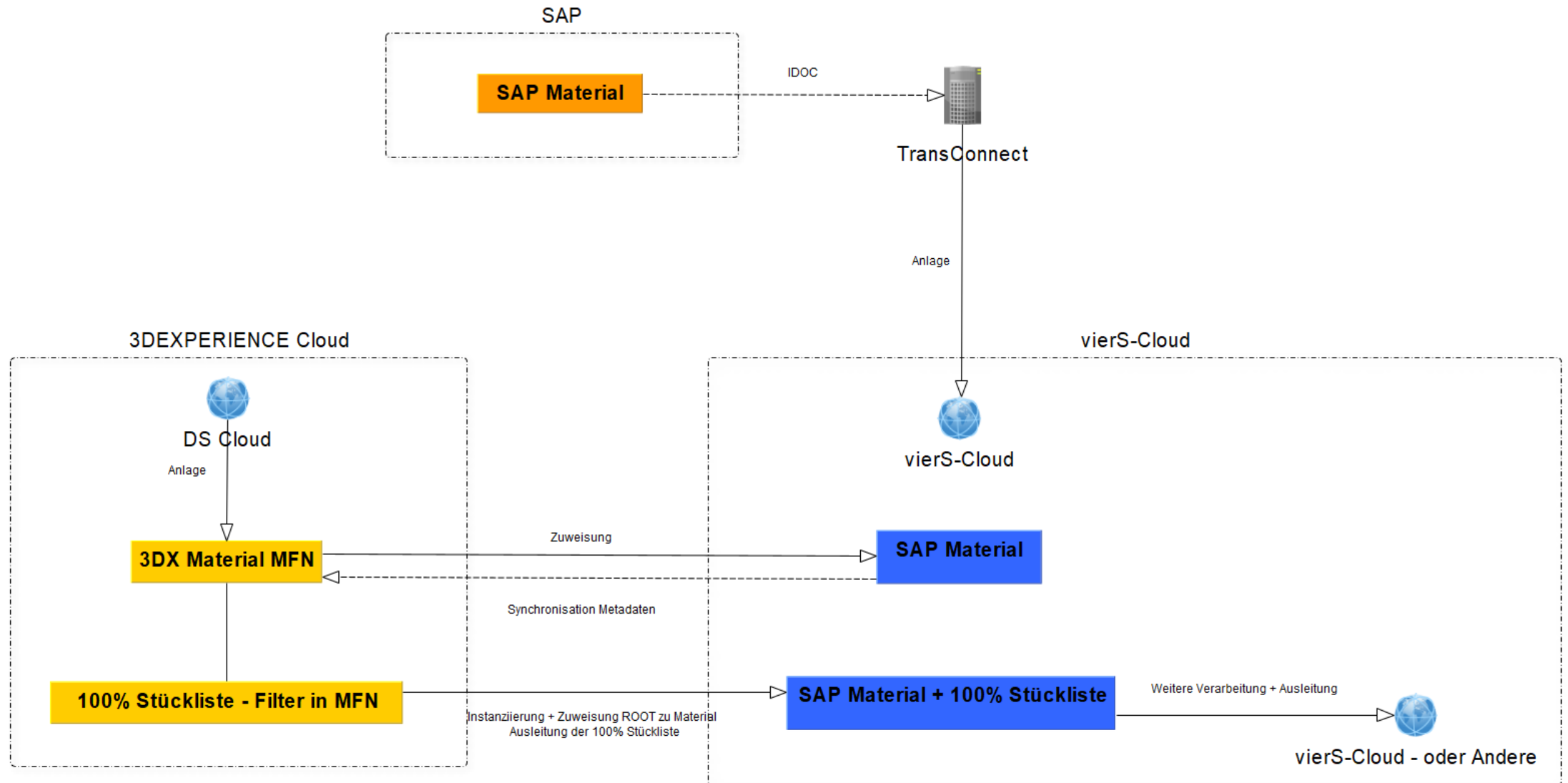
vierS Portal App



The **vierS Portal App** combines information from SAP with information from 3DEXPERIENCE and stores the merged information in the 3DEXPERIENCE Cloud or synchronizes articles, bills of materials, change information or calculations in SAP.

This runs via Enterprise Integration Framework in interactive mode or via TransConnect in batch mode.

Video Example



Summary

- Our customers have expanded IT landscapes into which new projects must be integrated intelligently.
- Interfaces must be extremely simple to set up and maintain.
- Business Integration Platforms such as TransConnect, are extremely helpful.
- For cloud-to-cloud communication, various services such as iPaaS are available as a standard and can be utilized on Dassault Systèmes REST services.
- Customers and partners can amplify the value of the 3DEXPERIENCE by developing their own apps.
- Runs on “public cloud”, “private cloud” and “on premises”.





Dr.-Ing. Ralf Seidler
Geschäftsführer

SCHWINDT DIGITAL GmbH

96450 Coburg – Callenberger Str. 8
Fon: 09561-5560-0
ralf.seidler@schwindt.eu
[linkedin.com/in/dr-ralf-seidler](https://www.linkedin.com/in/dr-ralf-seidler)