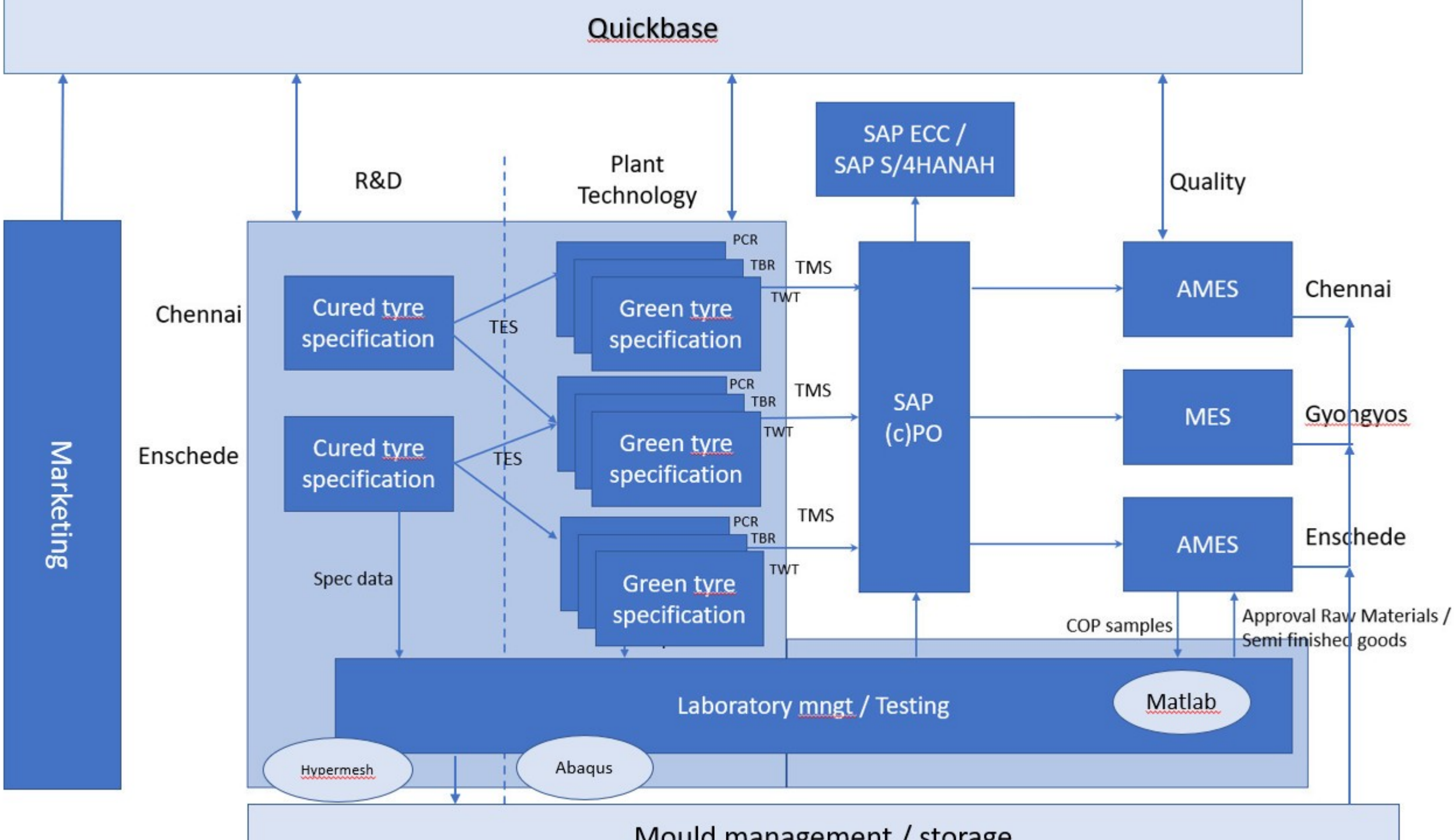
Discussion with Apollo IT

Nitesh / Fabien

Oct-2022

CONTACT Software

energizing great minds


Quickbase
Marketing
R&D
Plant Technology
SAP ECC / SAP S/4HANAH
Quality
Chennai
Enschede
Cured tyre specification
Cured tyre specification
TES
TES
PCR
TBR
TWT
Green tyre specification
Green tyre specification
Green tyre specification
TMS
TMS
TMS
SAP (c)PO
AMES
MES
AMES
Chennai
Gyongyos
Enschede
Spec data
COP samples
Approval Raw Materials / Semi finished goods
Laboratory mngt / Testing
Matlab
Hypermesh
Abaqus
Mould management / storage

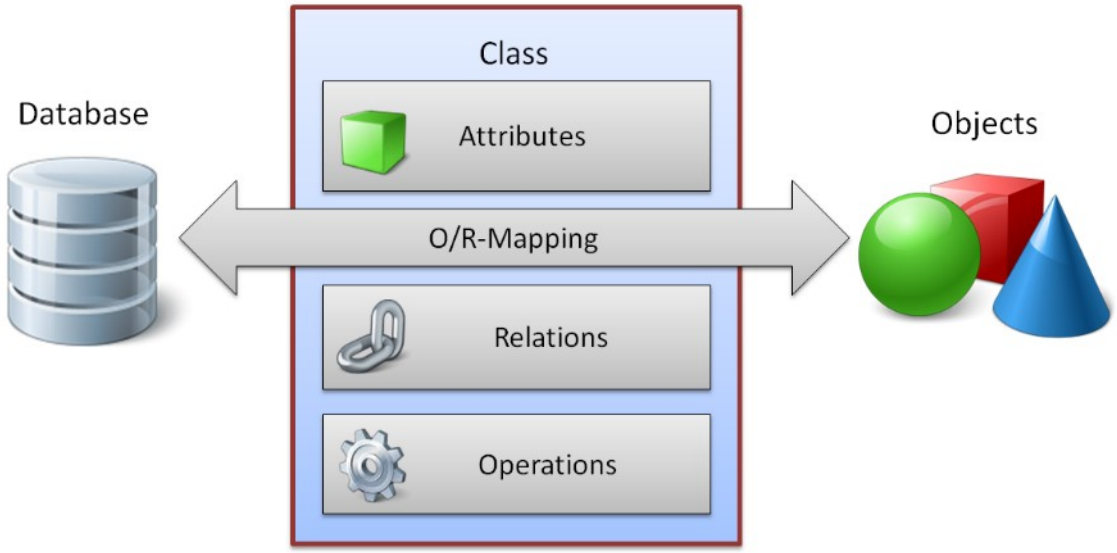
CONTACT Elements for apollo TYRES

The world's best platform to design and operate smart products

Product Mgmt.											
Innovations IN	Project Mgmt.								Industriali-zation		
Portfolio Mgmt. PO	Process Mgmt. PM		Quality & Compli-ance		Product Architect.		Product Elaboration		xBOM XB	Smart Product & Factory	
Technical Sales TS	Project Costing JC	Agile Methods AM	Best Practice Templates PT	Change Records & Audit Trail CR	Module & Platform Mgmt. MP	Variants VA	Closed Loop Engineering CL	Bill of Materials BM	Test Management & Ramp-up TR	Digital Twin DT	Shopfloor Mgmt. SF
Product Costing DC	Work Breakdown WB	Resource Planning RP	Risk Mgmt. RM	Material Compliance MC	Require-ments Engineering RE	Part Classi-fication & Reuse PA	CAx Document Mgmt. CX	Simulation Mgmt. SI	Work Plan WP	Customer Services CS	Monitoring & Analytics MA
Product Informa-tion Mgmt. PI	Scheduling SC	Documen-tation DM	Controlling & Maturity Mgmt. CO	Quality Issue Mgmt. QI	Product Structure PS	DMU DU	Materials Mgmt. MM	Engineering Change Mgmt. EM	Tool Design TD	Device Mgmt. DE	
Core Services	Configura-tion Mgmt. CM	Document Mgmt. DM	Enterprise Collabora-tion EC	Workflows WF	Tasks TA	Activity Stream AS	3D Visualiza-tion 3D	Metrics & Reporting MR	Universal Classifica-tion UC		
Techno-logies	Component Architecture CA	Security SE	Roles & Access Rights RA	Digital Signatures DS	Webservices & Interope-rability WI	Multi-Cloud & on-Premise Operations OP	Global Data Mgmt. GD	UX for Web & Mobile UX	My Elements Framework EF		

Classes and Objects: The Data Dictionary

- The Data Dictionary is used to define classes in CONTACT Elements
- It serves as a blueprint for each object
- It defines attributes of various types: Char, Int, Float, Date, …
- Compiling a DD class creates a corresponding SQL database scheme
- The DD allows the definition of relationships to other classes



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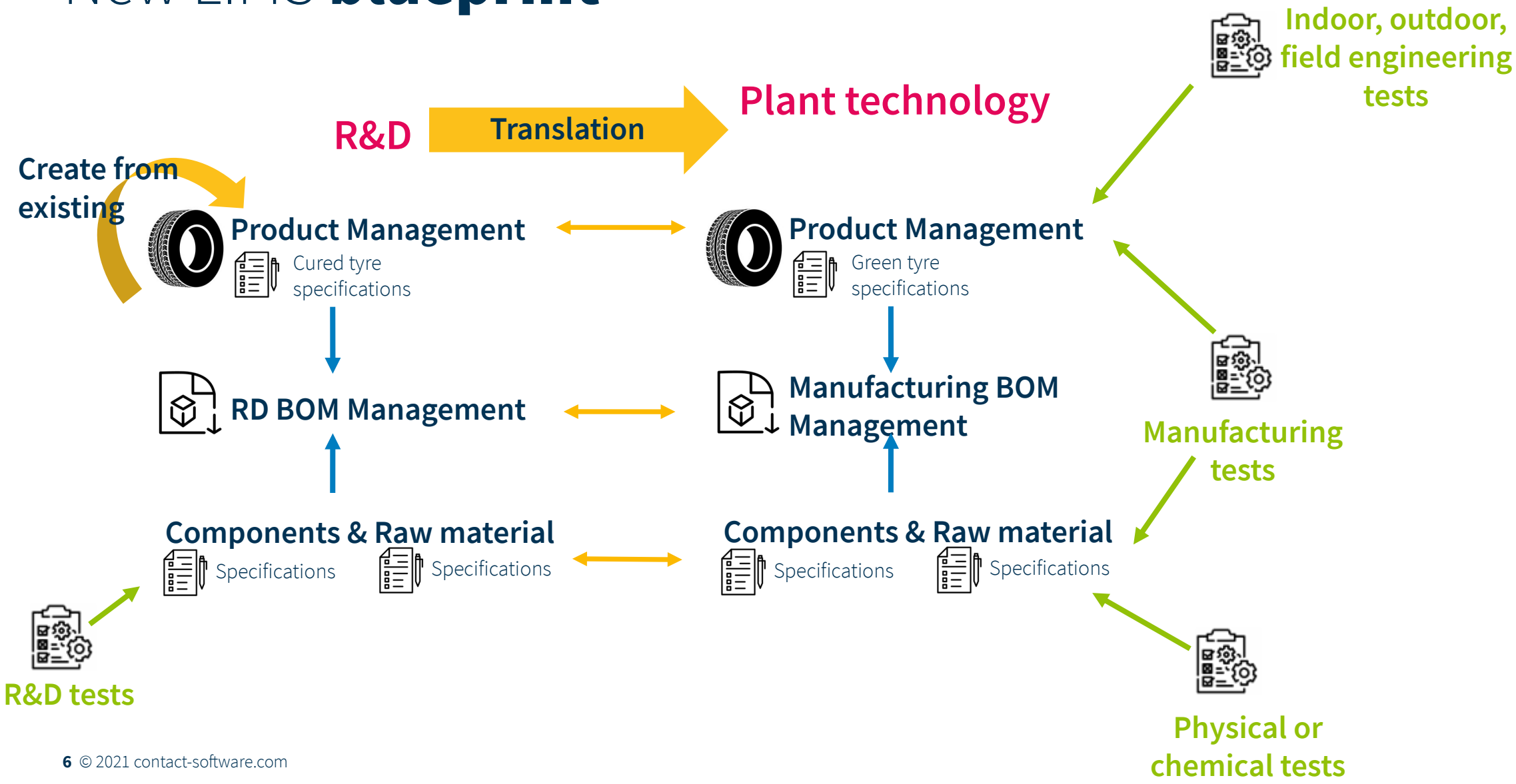
New LIMS **blueprint**



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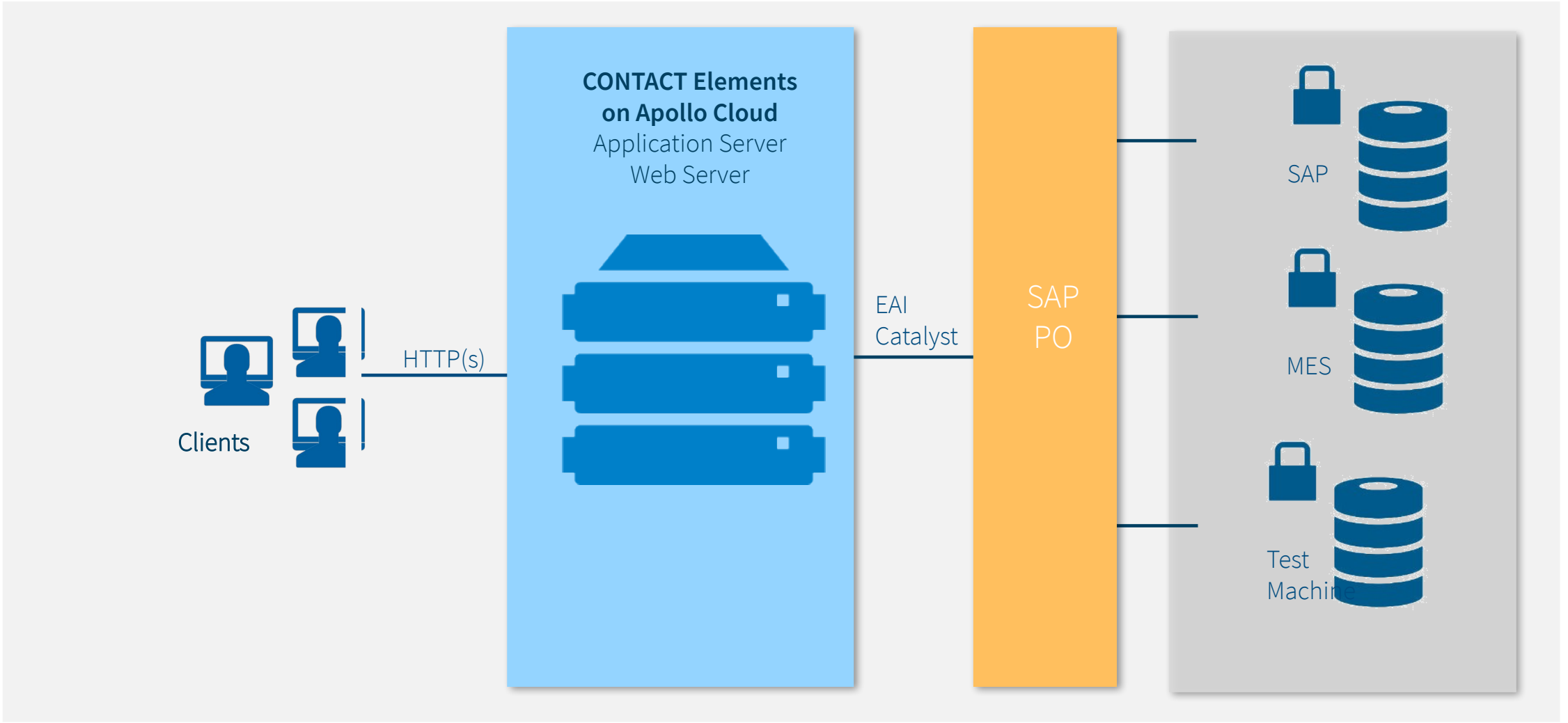
High Level Data Flow...



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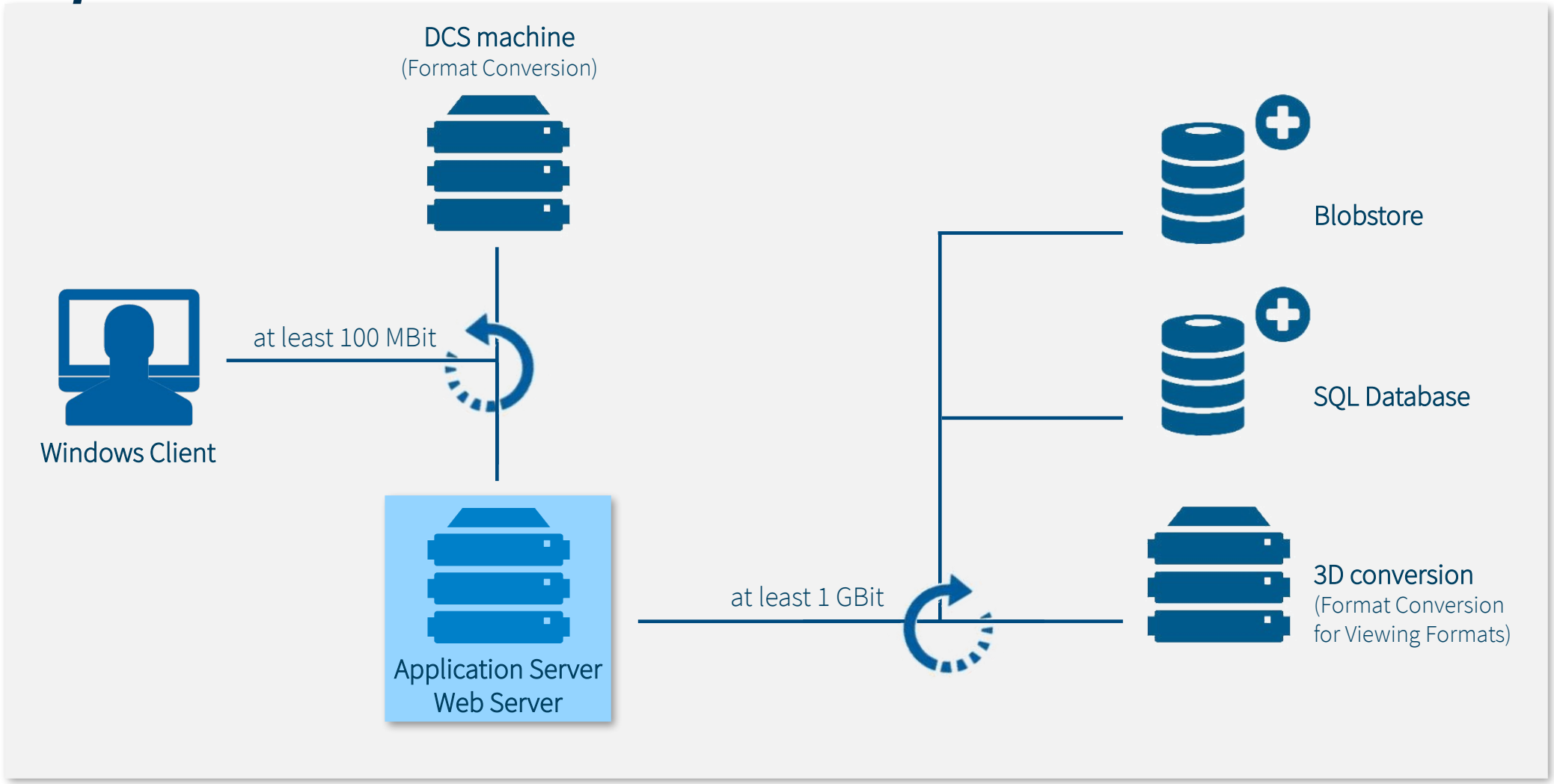
CONTACT Elements data flow/communication



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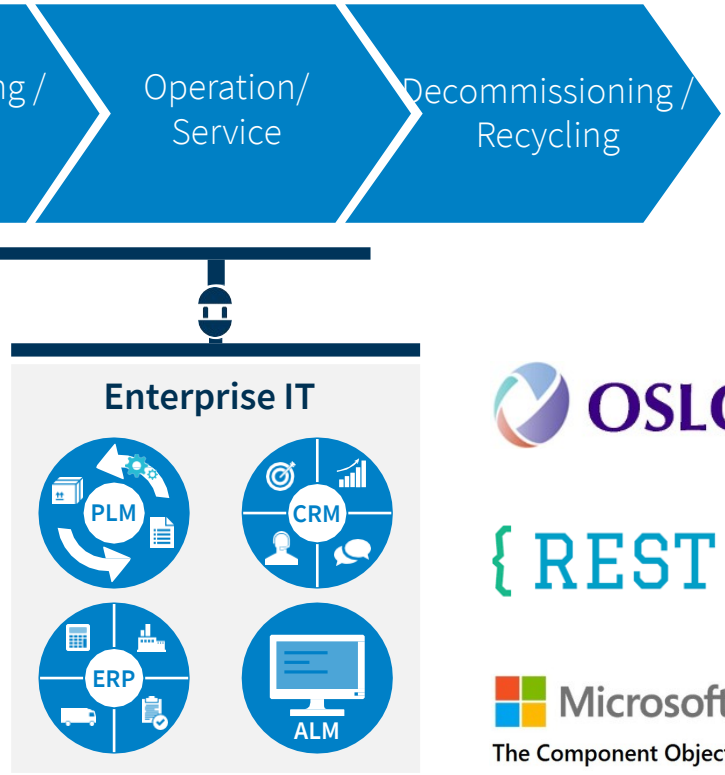
Catalyst
Reliably connect enterprise applications

- Open technologies and APIs for reliable process-oriented data synchronization
- Connect CONTACT Elements with other enterprise applications such as PLM, ERP, CRM, SCM, MES, ALM or PIM using asynchronous server/server interfaces that run in the background
- Controlled and thus reliable process logic thanks to shared object lifecycle management
- Standard "out-of-the-box" interfaces for selected systems such as SAP



OSLC

{ REST }

Microsoft
The Component Object Model

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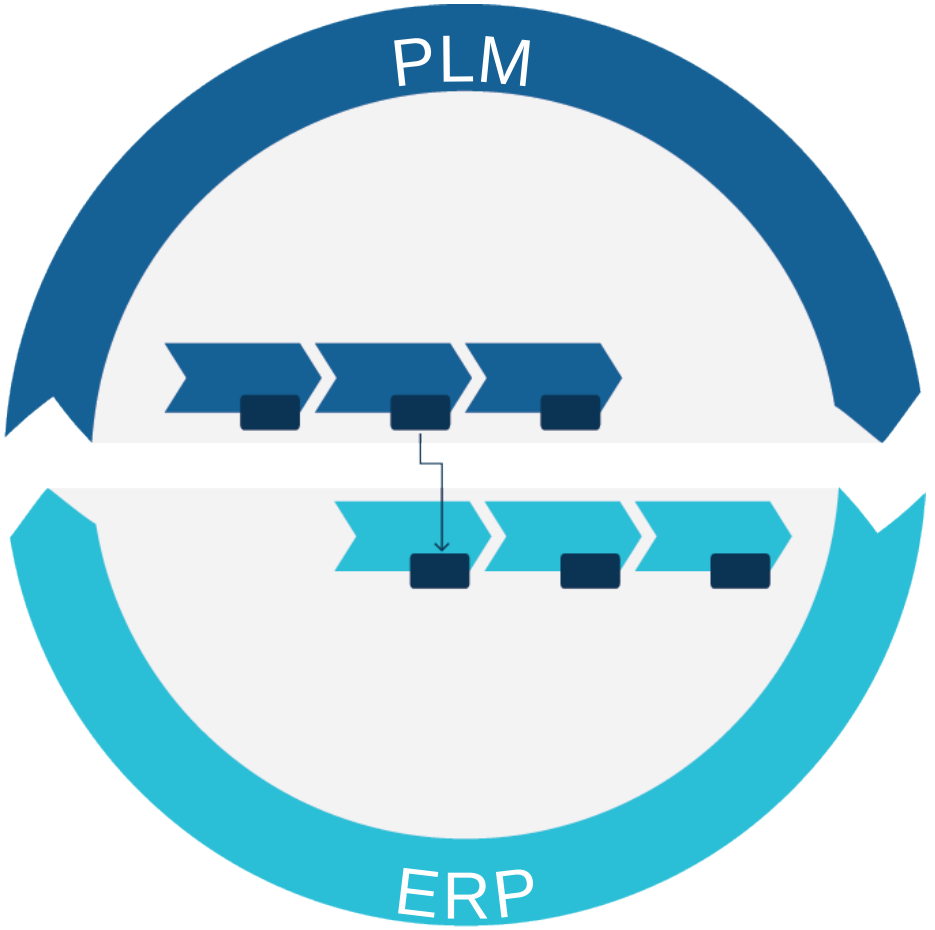
Catalyst technology
Shared object lifecycle management

Process-controlled synchronization

- Bidirectional, asynchronous data synchronization
- Triggered by workflow, status network, project control or object-specific attributes
- Typical scenario: The status network and its control over the data object determine the synchronization process



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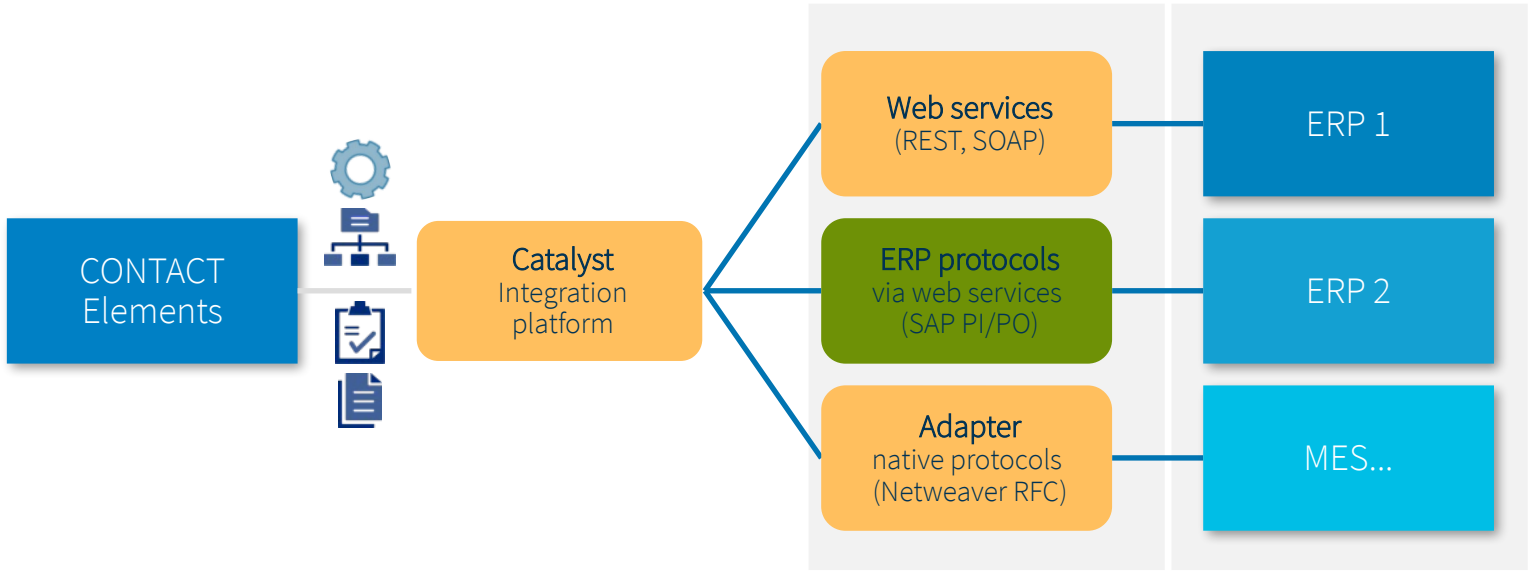
CATALYST integration platform to ERP

- SAP ESB PI/PO use other functions than the Standard SAP interface
- Synchronization with SAP via XML, IDOC, JSON, … could be established by using the standard CONTACT CATALYST platform
- *This is implemented by different customers but is not the SAP certified way to do it*



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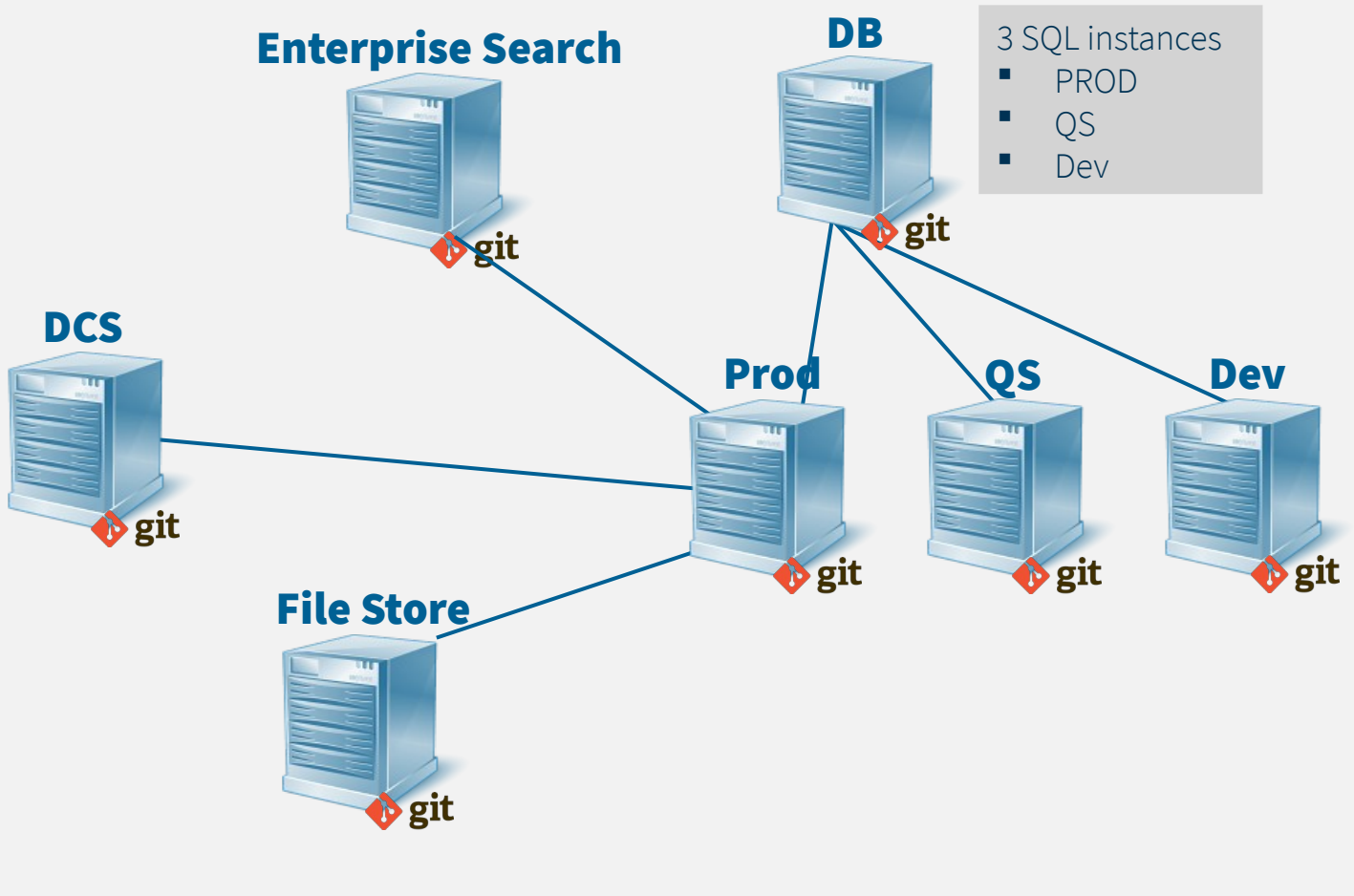
IT Infrastructure Approach [Proposal]



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What next…

- We should have a test system setup for CONTACT Elements
- A test system which allows connectivity with SAP, MES, Test machines etc to be able to test the data exchange
- Finalization of production installation architecture and setup on Apollo cloud
- What it will need to enable MES connectivity via SAP PO
- What it will need to enable Test machine connectivity via SAP PO
- …..

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Thank You!

CONTACT Software

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