

Innovation and Sustainability

CADENAS feat. Siemens VALMT

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Siemens VAI Metals Technologies GmbH A Siemens Industry Business Order Management MT OM EN ET

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Metal Technologies overview



Lifecycle CADENAS – Teamcenter – NX – SAP



Next Steps - Parts Management 20xx

Organization - Four Sectors cover the global trends





¹⁾ Sector-led Business Unit 2) IPO planned

Metals Technologies – Full liner from ironmaking to the finished product



Industry Sector – Business Unit Metals Technologies

Ironmaking (MT IR)

Steel Plants, Minimills & Env. Techn. (MT SM)

Casting & Rolling (MT C&R)

Electrics/ Automation (MT EA) Metallurgical Services (MT MS)



- Agglomeration
- Blast Furnace
- Smelting / Direct Reduction



- LD (BOF)
- Converter Plants
- Electric Steelmaking
- Long Rolling
- Environmental Technology



- Continuous Casting
- Endless Strip Production
- Hot and Cold Mills
- Aluminium mills
- Strip Processing



- EA for Steel Plants
- EA for Casting & Rolling
- EA ModernizationPackages &Products
- Electrical Services



- Spares & Components Sales
- Maintenance & Repair

#1 Steelmaking & Casting – #1 Electrics/Automation – #2 Rolling & Processing – #2 Ironmaking

Metals Technologies Expertise to serve our customers



Metals Technologies competence centers

• MT Linz (HQ)

- MT E/A (Erlangen)
- MT U.K.

MT France

- MT Germany
- MT Italy

• MT U.S.A. (Worcester)

Supported by Siemens regional companies in 50 countries worldwide, for example:



Know-how available wherever required by our customers



Global Key Decissions by MT Management

 PARTsolutions of CADENAS is the one and only worldwide source for using and managing of Standard Parts

• Every Standard Part required out of the Business Segments MT Global must have a representation in PARTsolutions of CADENAS

• MMC (Material Master Center) is managing the concept of "Prefered Standard Parts" worldwide

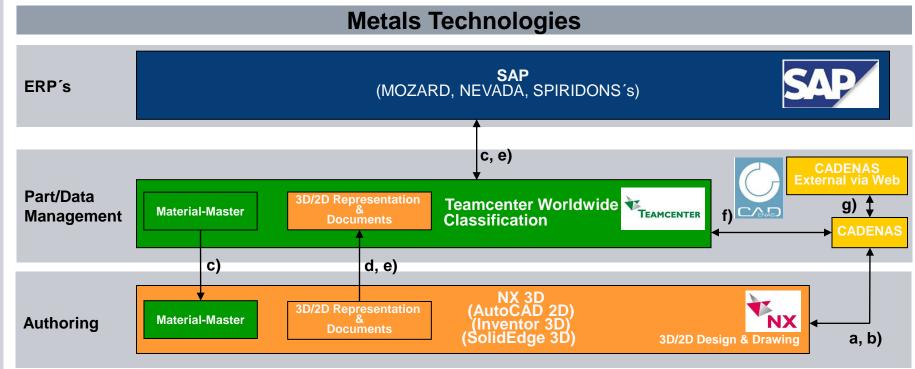
Project Scope



- Setup Use Cases Standard Parts (MMC)
- Evaluation Prefered Standard Parts (MMC)
- Harmonization Standard Parts on Locations (MMC)
- Purchineering Missing suppliers in CADENAS
- Intetgration in CAD System(s), TC, SAP's, ZKDB and Rodiks (IT/MMC)
- Rollout: Installation/Setup Global Network-System CADENAS (IT)
- Training and Support (IT)
- Migration (MMC/IT)

IT-Landscape





CADENAS is a combination of subjects

ab cd ef) g	Data Type Catalogs GeoSearch Fingerprint/Meta Material–Master 3D/2D Representation Several Structures/Documents*** Engineering site Catalogs External Engineering	Data source* CADENAS CADENAS SAP/Teamcenter NX (AC,SE,INV) Authoring tools CADENAS CADENAS	Data usage* Teamcenter Teamcenter SAP Teamcenter Teamcenter Teamcenter Teamcenter Teamcenter
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^{***(}Bill of Material, Material-List, ISO, Drawing, Specification, Data Sheet, ...)

^{*}Data source systems (Authoring tools): Data entered and changed **Data usage systems (view only): Data enter and change not possible

Assignment of Tasks



Tasks CADENAS Rollout

MMC

- •Terminology "Standard Parts"
- Terminology "Prefered Parts"
- Define Central Rules for St.Parts
- Define "Global Use Cases"
- •Handling Requirements of the BS
- Analyse Inventory Standard Parts on Location
- Document Inventory Standard Parts
- •Find Synergistics Effects (Dublicates)
- Handling for parts reductions in MM
- •Define with Local MMC the range of Prefered Parts for initial fill
- •Analyse "Missing Suppliere Parts" Worldwide
- Coordination build up missing standard parts in CADENAS
- Support Pilots/Rollouts Worldwide
- Coordination eClass on standard parts
- Support Local MMC's
- Coordination of possible Migrations
 Build up Know How in area CADENAS

TeamCenter

- •Define FDS for integration of CADENAS in TC
- •Coordination integration of CADENAS in TC (CoreTeam)
- Handling Requirements from BS
- •Handling Open Issues out of Pilots
- •Handling Open Issues out of Rollouts
- •Coordination integration CADENAS in CAD Systems with TC
- •Define Engineerig Guide Lines for using CADENAS
- •Handling Change Requests
- Handling Bug Fixing
- •Build up Know-How in area CADENAS

Migration

- •Coordination build up missing standard parts in CADENAS format
- •Build up missing parts must be done in BS

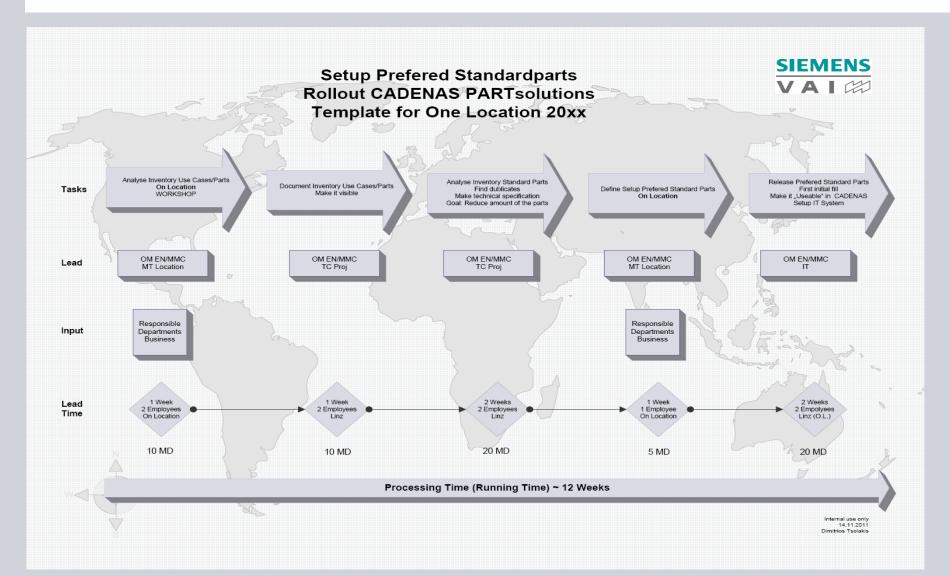
IΤ

- •Implementation of the work results (MMC, TeamCenter, Migration) in the IT Network Systems
- •Coordination of the Licence Requests Worldwide
- Training and Support
- Bug Fixing
- •Build up Know-How in area CADENAS
- •Coordination of the Worldwide Rollout in IT Area

Coordination Rollout CADENAS Worldwide

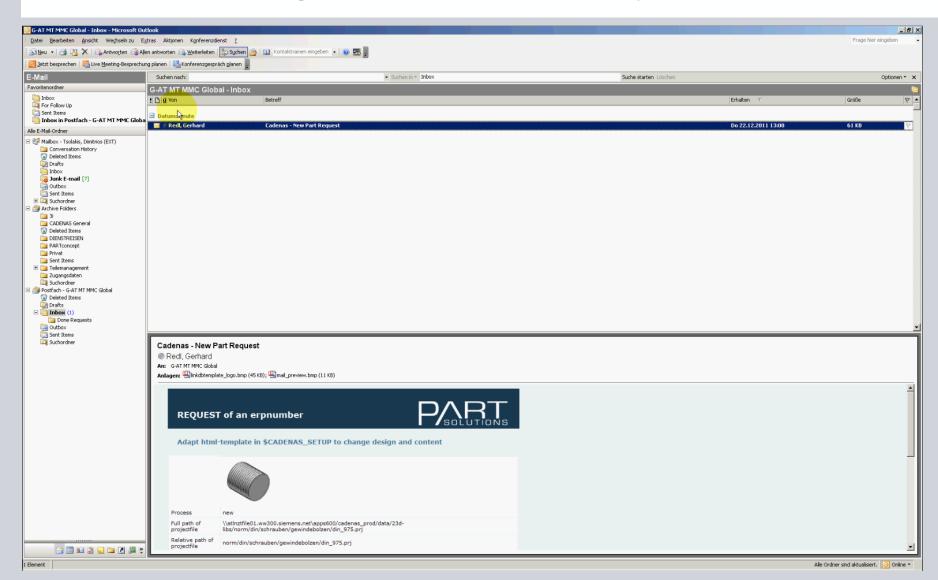


Roadmap Setup Prefered Standardparts



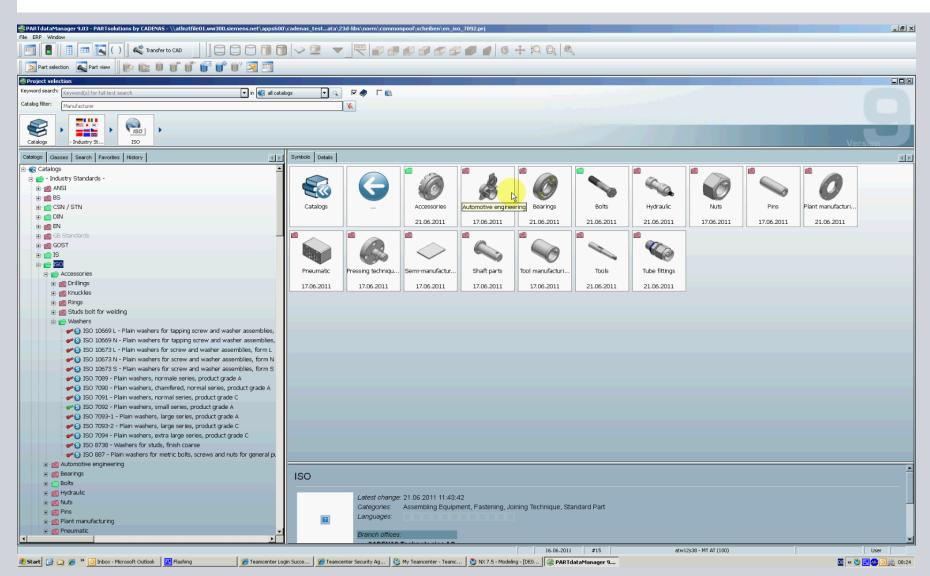


Workflow – Enabling required Standardparts by MMC





Workflow - Using Standard Parts by Engineer





Next Steps – Purchineering – HIGH PRIORITY

 Cooperate with the suppliers in order to let them provide their catalogues to Cadenas (included in frame contracts)



 The catalogue parts will be designed by SVAI centrally (Engineering Center) with eCATALOGsolutions



Prepare the missing parts on location managed by SVAI Local MMC with eCATALOGsolutions

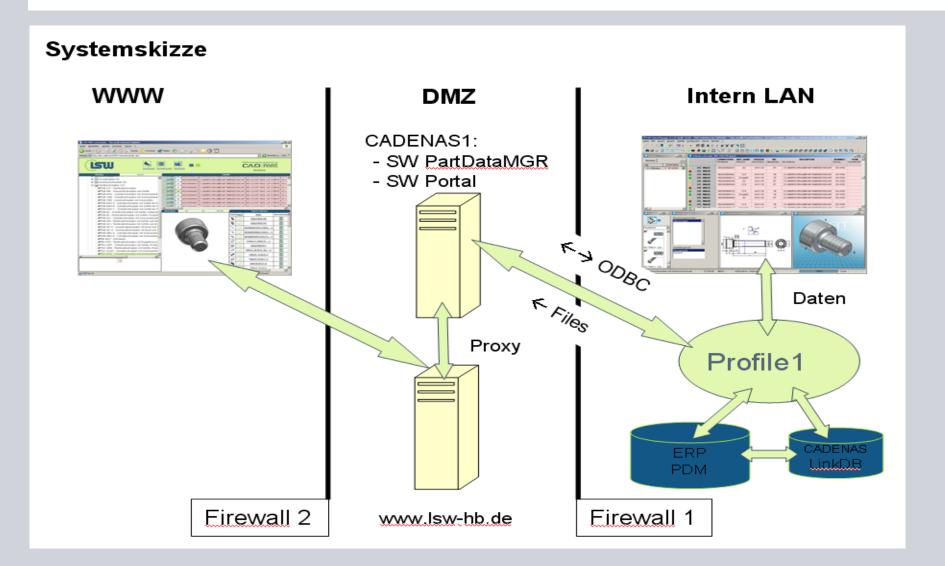


 The single users (engineer) can temporary create them using in the available authoring tool(s) NX (SE, Inventor, ACAD) and substitute them later when the part is available in CADENAS format



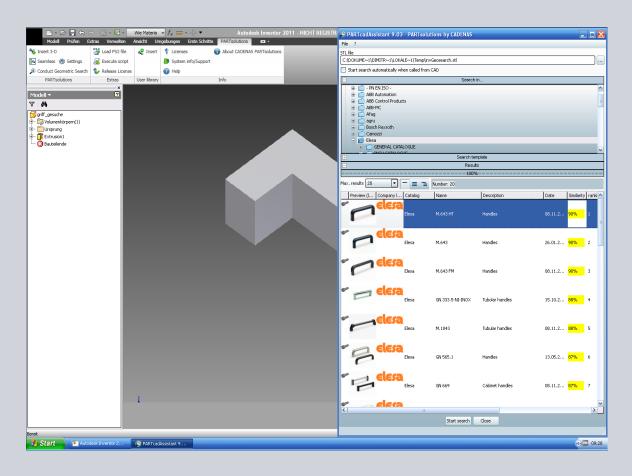


Next Steps – External Engineering





Next Steps - 3D GeoSearch









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