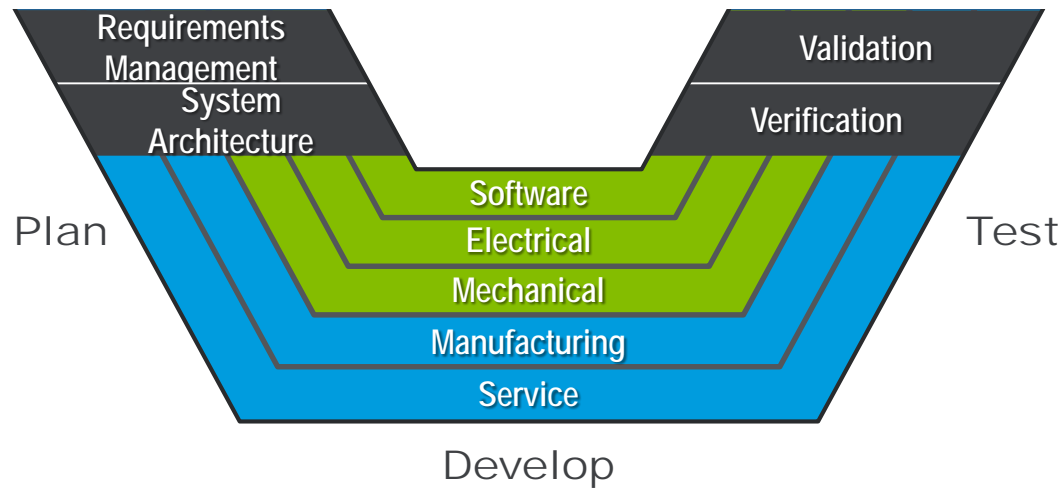
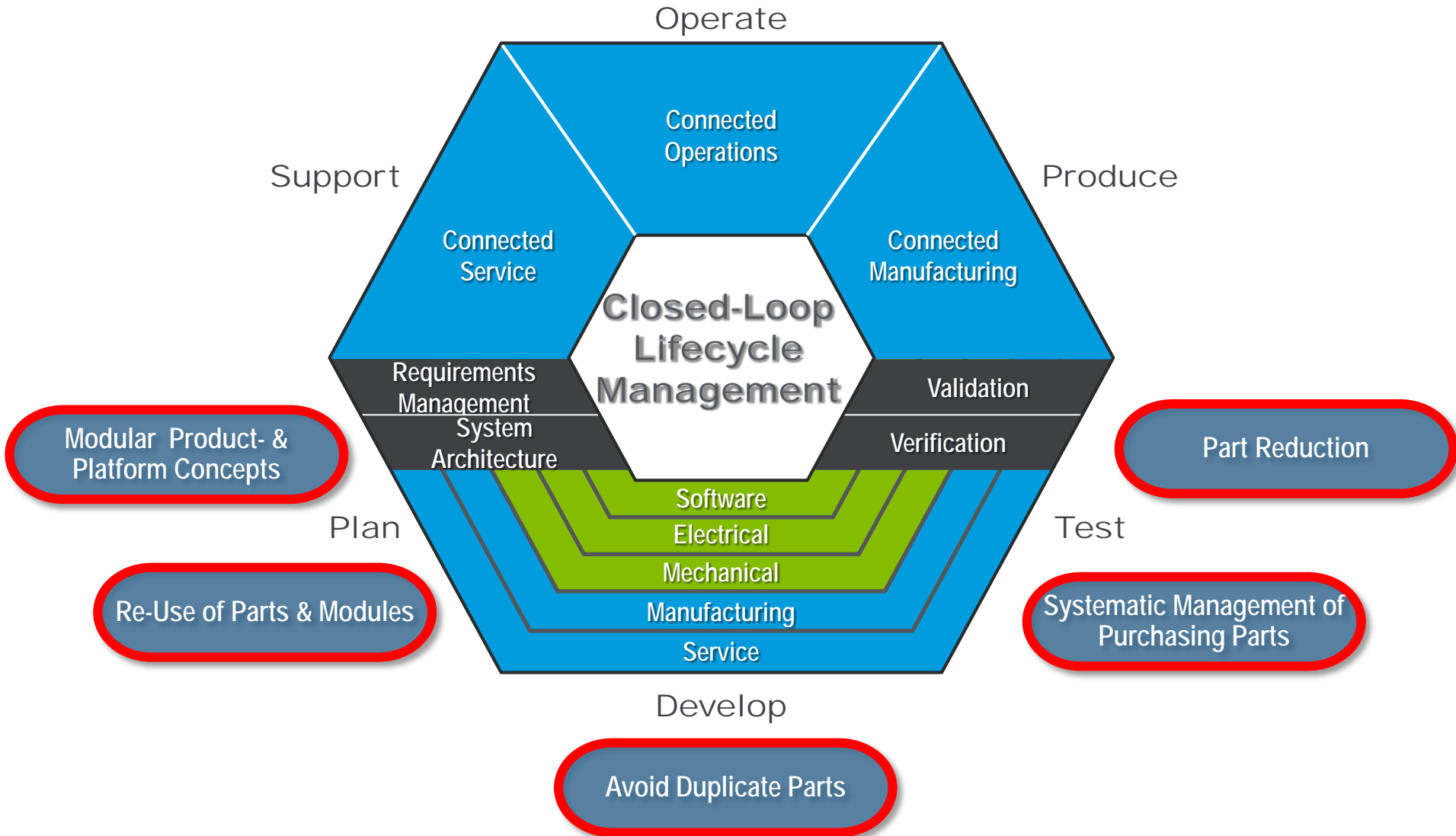


Motivation – Why CADENAS & PTC?

Common Business Challenges of Customer's & Complementary Solutions



Common Business Challenges of Customer's & Complementary Solutions



Customer Example: Potential of Duplicate Parts

Ingersoll Rand (David Owens, PTC-User 2010)

Saving potential (only inventory cost) of
60.000 duplicate parts (5% of all parts) = 30 Mio. US\$



Value Proposition – the cost to maintain a \$2 part

- Transaction cost = \$ 75
- Inventory cost = \$ 500
- Total @ 1 transaction/yr. \$575
- Number of duplicates X 60,000
- Total annual savings \$34,500,000

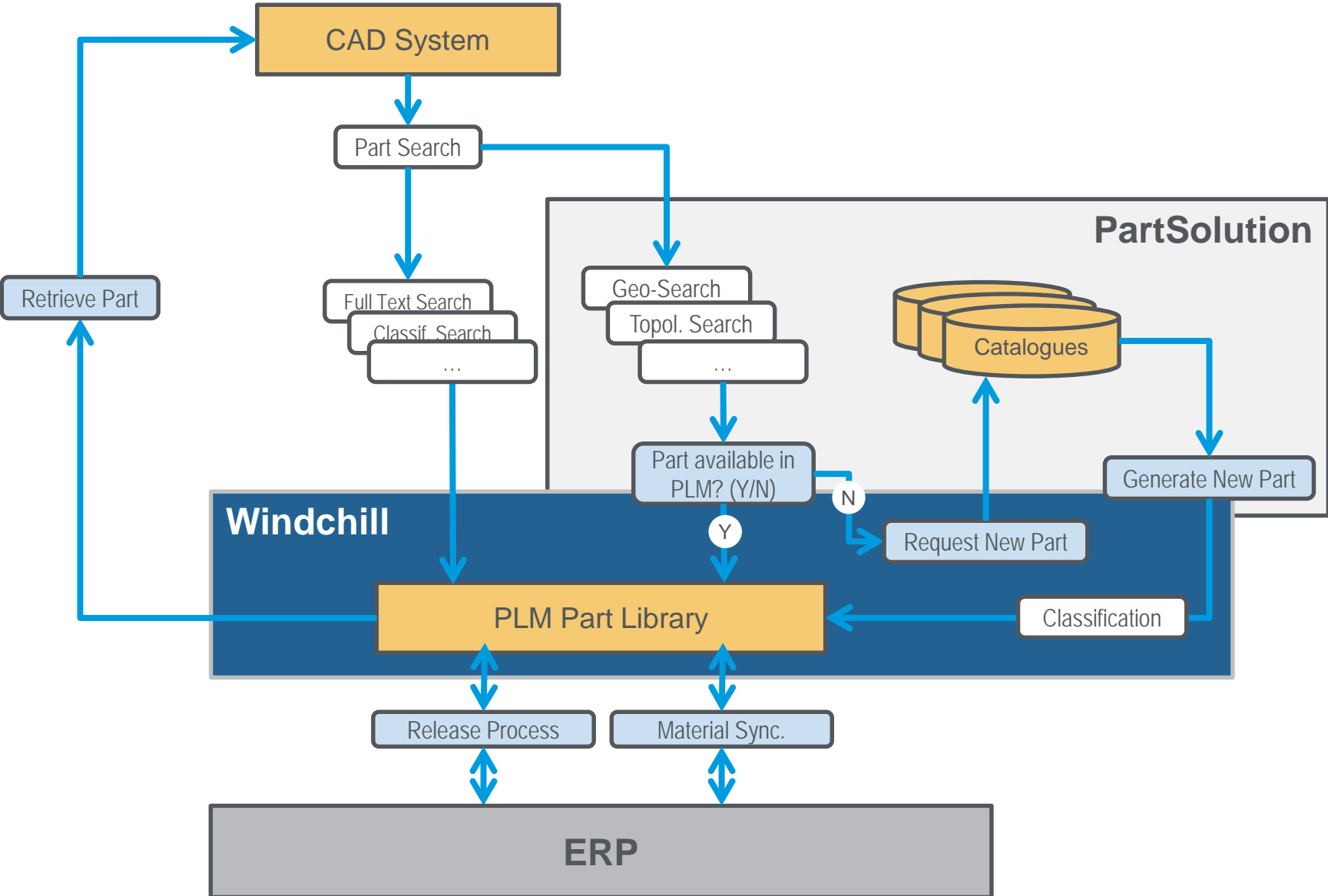
Part Reduction = value

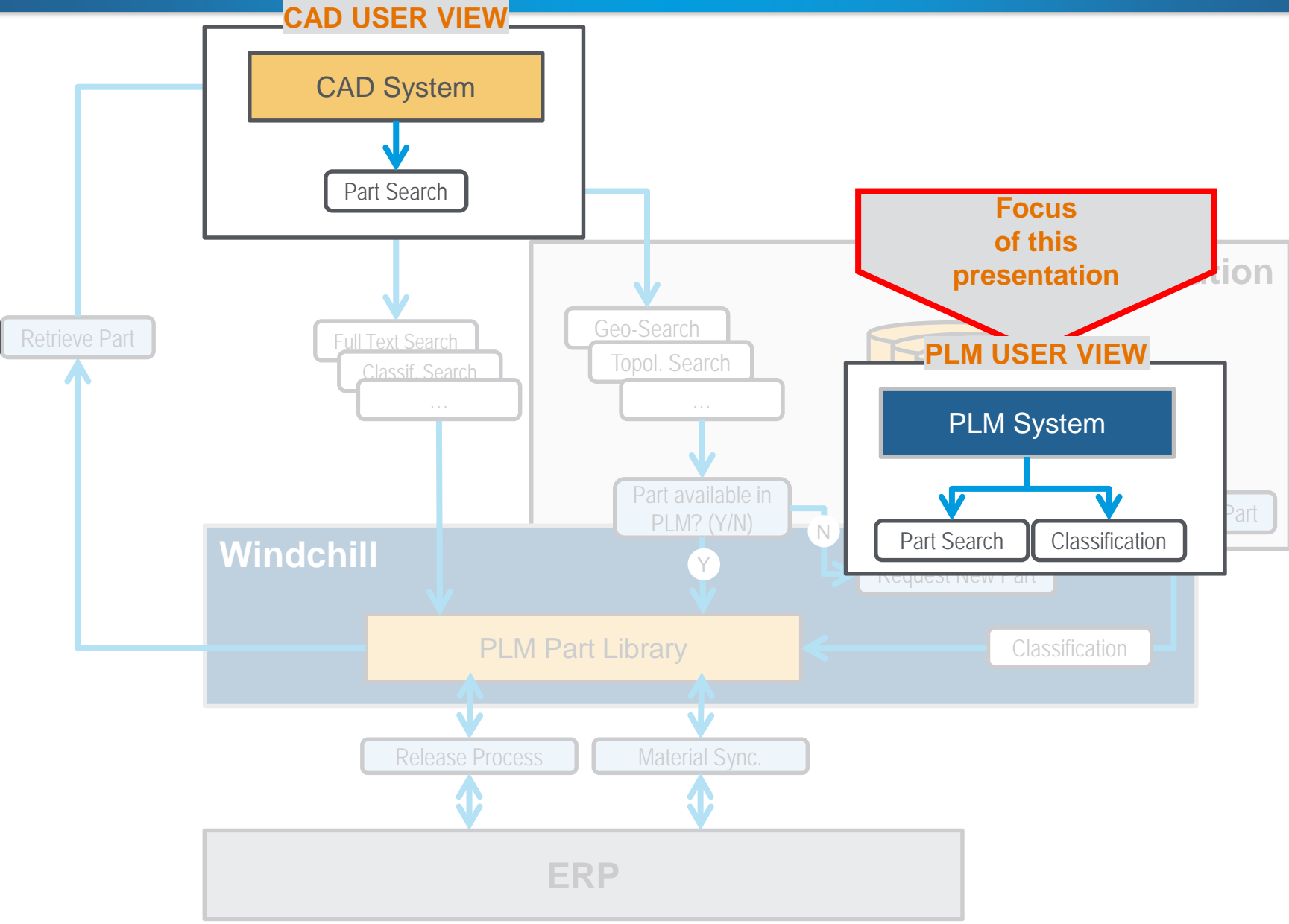
Every new part costs 2.775 US\$

Value Proposition – the cost of a \$2 part

- Engineering cost = \$1200
- Sourcing cost = \$1000
- Transaction cost = \$ 75
- Inventory cost = \$ 500
- Total \$2775

Reduce new part introduction = value





Use-Cases

- A** Usage of PARTsolutions catalogue content

 - Standards and supplier content directly in Windchill available as one application
 - 600 catalogues available

- B** Classification process during check in

 - Suggestion for best class during check-in process in Windchill
 - On-the-fly classification

- C** Search enhancement: Geometrical Search

 - Search available in Windchill
 - Search results in Windchill
 - Combined search with Windchill full-text search
 - Use Windchill rights management

- D** Duplicate and Make or Buy Reports

 - Create automated reports with duplicate candidates to reduce the total number of parts
 - Create automated reports to check, if company part is available as purchasing part

A

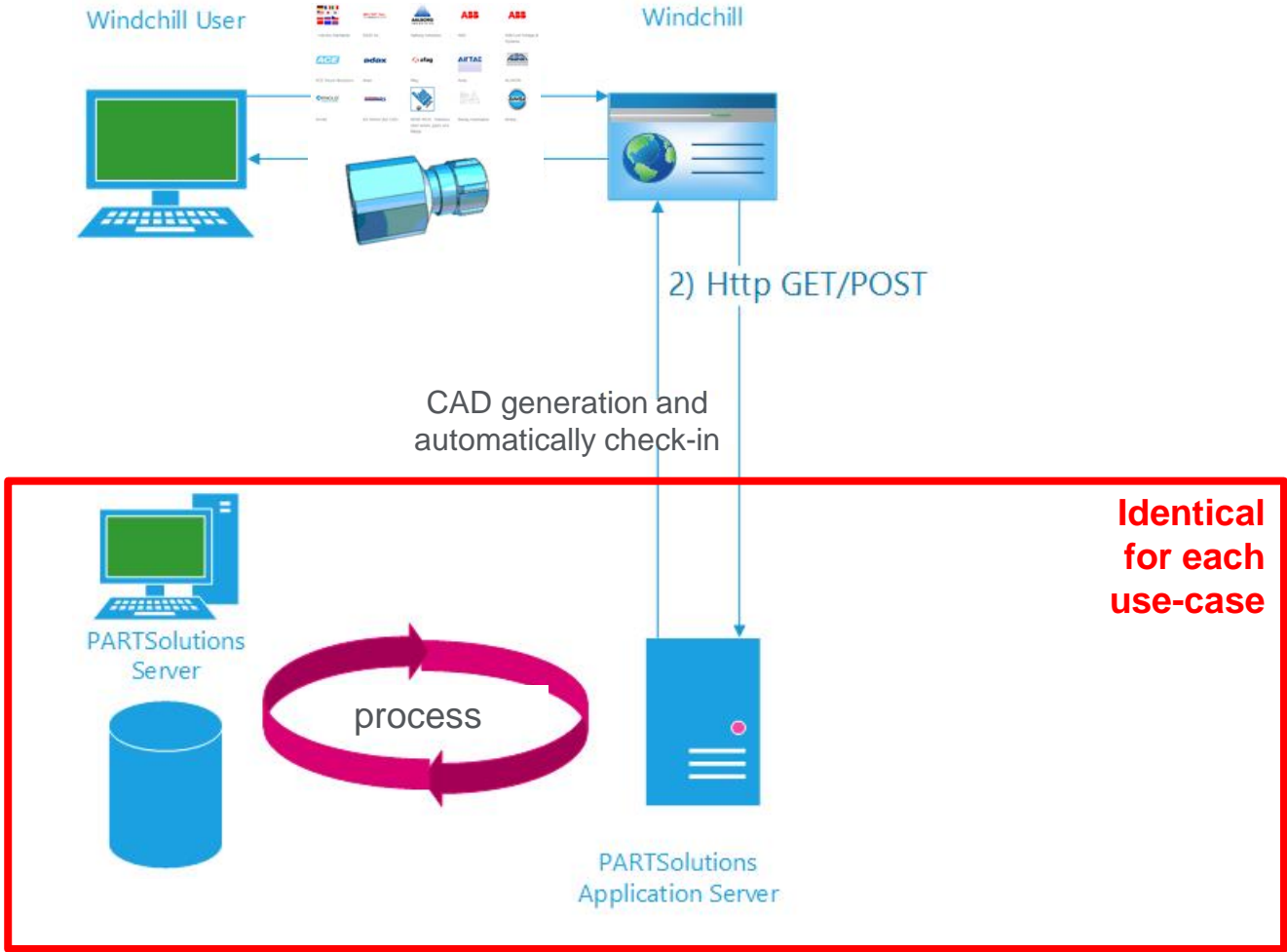
Usage of
PARTsolutions
catalogue content

Usage of PARTsolutions catalogue content

- Make all required manufacturer catalogues available in Windchill
- All information viewable in Windchill (CREO-Viewing Format)
- Button to generate geometry or load directly from Windchill if already exists
- Release process, e.g. through standards department, if applicable

Complete architecture of integration concept

A Usage of PARTsolutions catalogue content



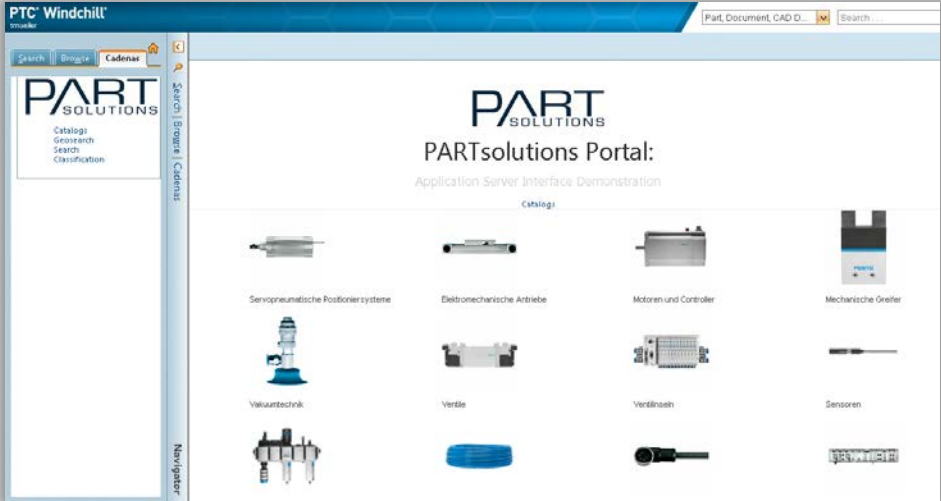
Integration of PARTsolutions supplier content

A Usage of PARTsolutions catalogue content



illustrative screenshots of demo implementation

Optionally – Button to create/load CAD-Doc

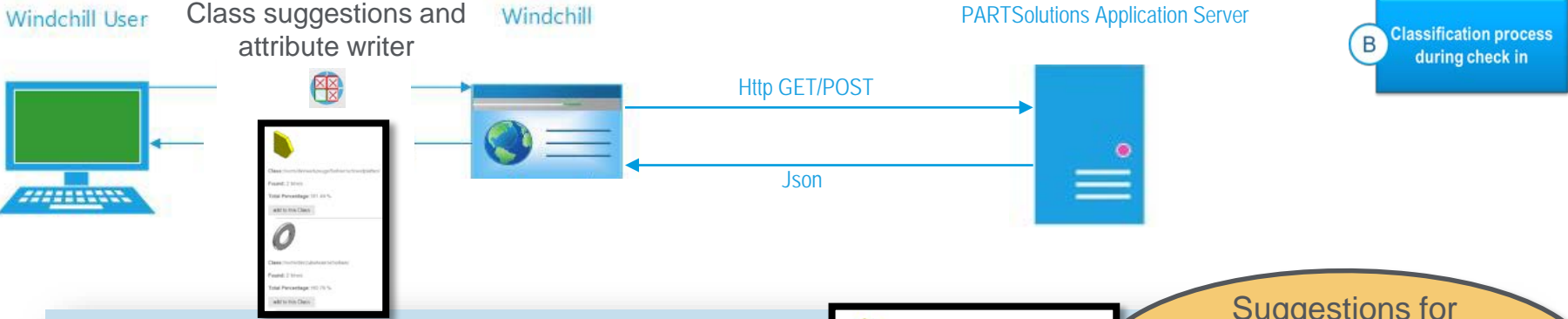


B Classification process
during check in

Classification process during check-in to Windchill

- Windchill PartsLink as underlying classification technology in Windchill
- Consistent management and creation of classification
- PARTsolutions process improves usability of PartsLink classification

Classification process during check-in to Windchill



Einchecken

Objekte sammeln Optionen definieren

Aktuelle Einstellungen: Alle Abhängige Objekte

Objektliste Als Liste Geänderte und neue

Nummer	Name	Dateiname
0000000023	Unclassified Part	

(0 Objekte ausgewählt)

Anmerkung:

Class:/norm/din/werkzeuge/bohrer/schneidplatten/
Found: 2 times
Total Percentage:161.49 %
add to this Class

Class:/norm/din/zubehoer/scheiben/
Found: 2 times
Total Percentage:160.76 %
add to this Class

Suggestions for classes based on geometry and/or attributes

Pick a Class to fill Class Attribute

C Search enhancement:
Geometrical Search

Geometrical Search as search enhancement in Windchill

- Standalone or as extension of full text search
- Possible to filter result list by Windchill access rights
- High Performance (seconds vs. minutes/hours)
- Prevention of company parts with help of search in Standard and Purchase Parts of PARTsolutions
- Possible to combine/extend with colour, similarity, topology, attributes search and others

Geometrical Search as search enhancement in Windchill

Windchill User

Windchill

PARTSolutions Application Server

C Search enhancement:
Geometrical Search



I4017M10X25_8_8.PRT	amf90068_11.prt	Wird
AMF90068_11.PRT	amf90068_11.prt	Wird
AMF90068_06_0.PRT	amf90068_06_0.prt	Wird
AMF90068_3_0.PRT	amf90068_3_0.prt	Wird
AMFAS_12X110.PRT	amfas_12x110.prt	Wird
AMFMS_12X14_6.PRT	amfms_12x14_6.prt	Wird
AMF90066_02.PRT	amf90066_02.prt	Wird
AMF90068_01_1_0.PRT	amf90068_01_1_0.prt	Wird
90068_102646_SUPPLIER_DEPE...	90068_102646_supplier_depend.asm	Wird
90027_10112_SUPPLIER_DEPE...	90027_10112_supplier_depende.asm	Wird
AMF90027_3_0.PRT	amf90027_3_0.prt	Wird
I4018M10X30_8_8.PRT	i4018m10x30_8_8.prt	Wird
I4018M10X35_8_8.PRT	i4018m10x35_8_8.prt	Wird
FLANGE DIN 2642_E_100X108	flange_din_2642_E_100_108.prt	Wird

(0 Objekte ausgewählt)

- Informationen anzeigen
- Öffnen in
- Hinzufügen zu
- Auschecken
- Attribute bearbeiten
- Revision erzeugen
- Zuordnung bearbeiten
- Neu
- Kopieren
- Speichern als
- Umbenennen
- Verschieben
- Lebenszyklusstatus festlegen
- Löschen
- Lebenszyklen neu zuweisen
- Vergleichen
- Sicherheit verwalten
- Execute Geometric Search**

Send back result list with additional information like geometrical similarity

D

Duplicate and
Make/Buy Reports

Duplicate and Make/Buy Reports

- Helpful for individual user inquiries (e.g. Engineering Manager)
- Helpful for inquiries of Standards Department
- Helpful for clean-up or analysis of complete database

Advantages of connecting Windchill PLM & CADENAS

- **Product Development**

- Single node for search and classification → enhanced user experience
- Consistent use of the right parts → drives re-Use
- Unified classification process → drives standardization
- Less (costly) changes, late in the product development cycle → lower costs

- **Logistics and Material Management**

- Less duplicate parts
- Less materials in stock
- Higher purchasing volumes
- Higher focus on preferred vendor/parts lists

Find, Search & Reuse...

Thank you for your attention

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