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EMIT Member Update

EMIT CONSORTIUM MEETING

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APRIL 10-12, 2018



A UNITED TECHNOLOGIES COMPANY

THIS DOCUMENT DOES NOT CONTAIN ANY EXPORT REGULATED TECHNICAL DATA.

Agenda

- 1 Current GRANTA Implementation at PW
- 2 Data exchange between PW IT systems
- 3 Future improvements and software enhancements



Current State

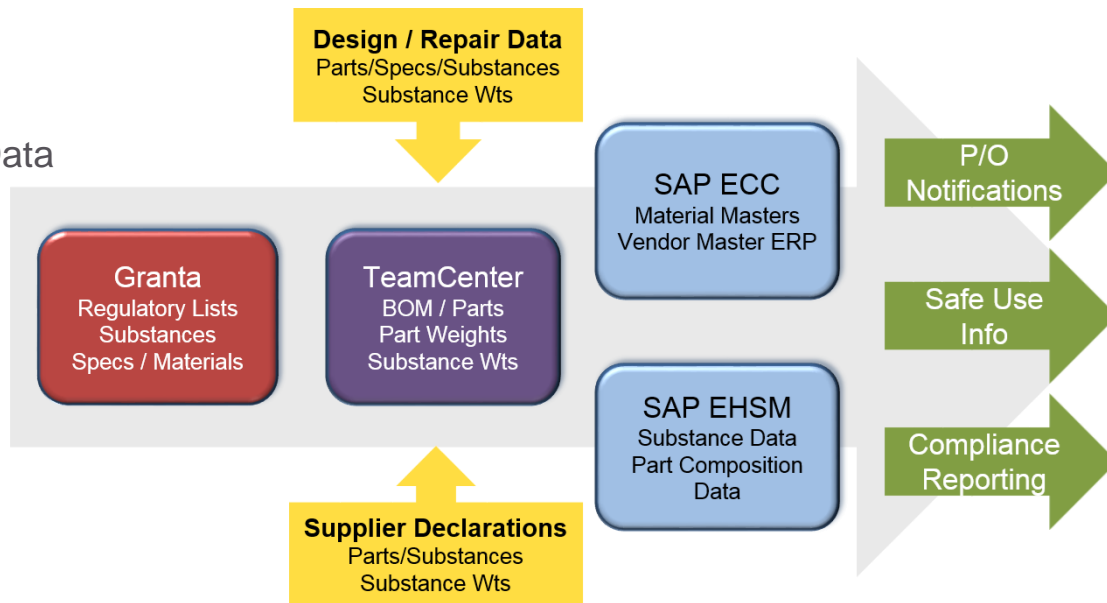
Current PW Regulated Materials database stores the following info:

PW Specifications

Substance Data

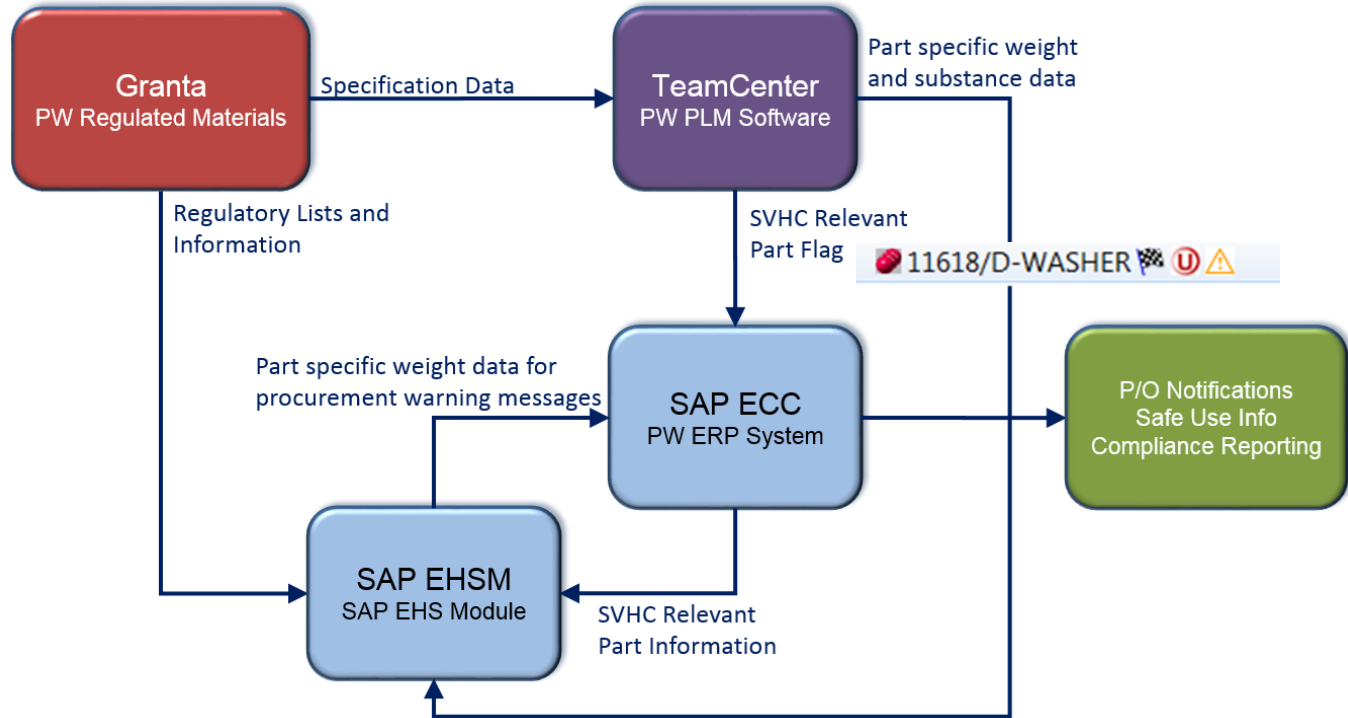
Customized Regulatory Lists

REACH SVHC Authorization Data



Current State

Live Updates between IT systems



Specification Data

Current Record Includes:

Substances used in process or formulation

SVHC or MOC substance designation

Substance weight data

Contents

P&W Regulated Materials

AMS2400

General

Material ID: AMS2400

Description: Cadmium plating

Family: Cadmium and Compounds

PWA Base Specification ID: AMS2400

PWA Specification ID: AMS2400

Specification of Concern: Yes

Specification Title: Plating, Cadmium

Restricted substances information

Restricted substances associated with this material Summary: The worst rating for any substance in this material is Banned with conditions

[Hide full table](#)

CAS number	Surface Weight Factor (lb/in ²)	MOCorSVHC	Category	Substance name	Legislation name
7440-43-9	0.000156	SVHC	Incorporated	Cadmium	EU Directive 96/62/EC Ambient Air Framework CERCLA hazardous substances US EPA 33/50 Program (EPA 17 materials)

Customized Regulatory Lists

Custom lists allow functionality and flexibility

Lists based on REACH substance status

Ability to update regulatory lists real time

The screenshot shows a software interface with a sidebar on the left and a main content area on the right. The sidebar contains a tree view of categories, with 'RegulatoryLists' selected. The main content area displays a table titled 'RegulatoryLists' with the following data:

Chemical name	CAS number	Authorisation Number / Legal ID	Authorisation Date / Expires On
Potassium dichromate	7778-50-9	0044-02	Saturday, September 21, 2024
Sodium dichromate	10588-01-9	0043-02 0097-01	Saturday, September 21, 2024 Saturday, September 21, 2024
Sodium dichromate, dihydrate	7789-12-0	0043-02 0097-01	Saturday, September 21, 2024 Saturday, September 21, 2024
Chromium (VI) trioxide	1333-82-0	0032-02 0032-04 0032-05 0096-01	Saturday, September 21, 2024 Saturday, September 21, 2024 Saturday, September 21, 2024 Saturday, September 21, 2024
Chromic acid	13530-68-2	0032-02 0032-04 0032-05	Saturday, September 21, 2024 Saturday, September 21, 2024 Saturday, September 21, 2024

REACH Authorisation Data

Substance Authorisation Data

Current PW authorisation data for the substance

Ability pass the information to ERP IT system

Drives notifications to buyers and suppliers on substance authorisation status

Sodium dichromate [10588-01-9] [v27]

General Information

Chemical name	Sodium dichromate
CAS number	10588-01-9
EC number	234-190-3
Index number	024-004-00-7
Molecular formula	Cr ₂ O ₇ ·2Na

Synonyms & tradenames
Bichromate de sodium; Bichromate de sodium [French]; Bichromate of soda, CCRIS 8137, Caswell No. 761; Celcure; Celcure Wood Preservative; Chromic acid (H₂Cr₂O₇), disodium salt; Chromium sodium oxide (Cr₃Na₂O₇); Dichromic acid (H₂Cr₂O₇), disodium salt; Disodium dichromate; EPA Pesticide Chemical Code 068304; HSDB 737; J. H. Baxter Chromated Zinc Chloride Solution; Koppers Wolman Salts CCA; Natriumbichromaat; Natriumbichromaat [Dutch]; Natriumdichromaat; Natriumdichromaat [Dutch]; Natriumdichromat; Natriumdichromat [German]; Oakite Composition No. 155; Osmose Hollow Heart Concentrate; Sodio (dicromato di); Sodio (dicromato di) [Italian]; Sodium bichromate; Sodium dichromate; Sodium dichromate (Na₂(Cr₂O₇)); Sodium dichromate (VI); Sodium(dichromate de); Sodium(dichromate de) [French]; Wolman Salts CCA-Type B; Wolman Salts CCA-Type C; Wood Cure A Wood Preservative

Wide Dispersive Use (WDU)? Yes

Substance Categories Chromium(VI)-salts

REACH information

Authorisations [Hide table](#)

Authorisation Number / Legal ID	Authorisation Date / Expires On	Approved Supplier	Specific Use (Exemption)
0043-02	Saturday, September 21, 2024	Brenntag UK Ltd, Henkel AG & Co. KGaA, AD International BV	Sulfuric Acid and chromic anodize seal, ZnNi seal, passivation of stainless steel, conversion coat and touch-up, seal coat on cadmium plate
0097-01	Saturday, September 21, 2024	HAAS Group International SCM Ltd	Sulfuric Acid Anodize seal

Future Improvements

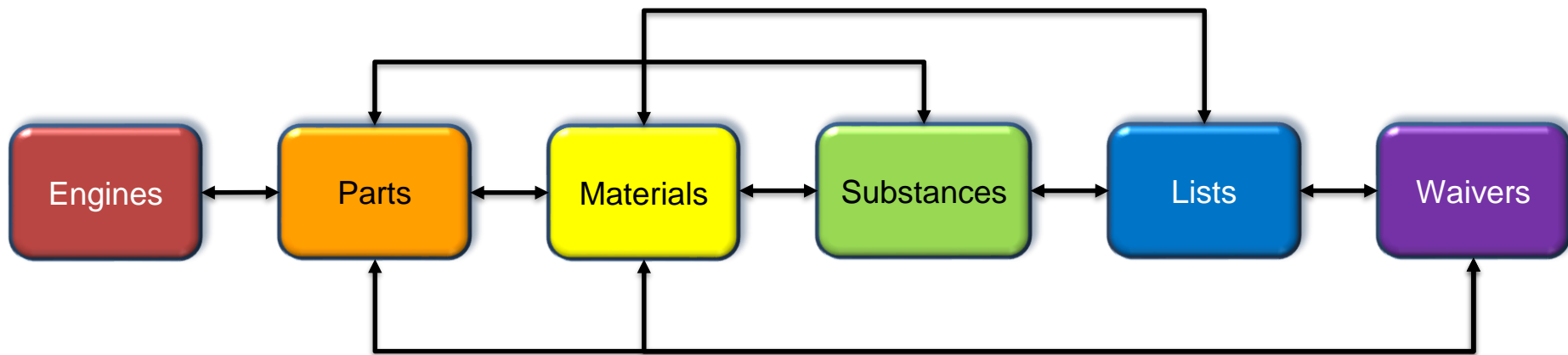
Enhanced Design Waiver Database

Designers must receive an approved waiver for use of any MOC per PW standard work

Future state is to incorporate the waiver database into the PW Regulated Materials database

Synchronized data fields

Customized input forms and output reports



Future Improvements

Current State

Specification to substance database does not incorporate formulations

Separate MS Access database links spec, formulation, and substance

MRO repair data stored in MS Access database and various spreadsheets



Future State

Addition of this formulation data will allow greater usage tracking capability

Storage of the SDS with the formulation data is also being explored

Management of PW materials of concern (MOCs) and specification of concern (SOCs) in PW Regulated Materials database

List of SOC's will automatically be updated when the MOC list is changed

Incorporation of MRO data into PW Regulated Materials database

Future Improvements

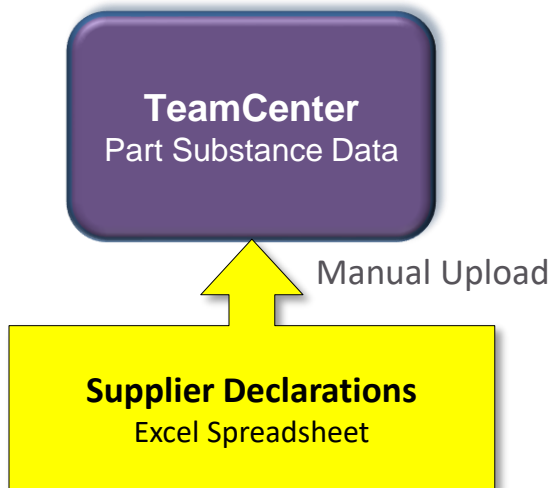
IPC-1754 Data Management Capability

Ability to view IPC-1754 XML data

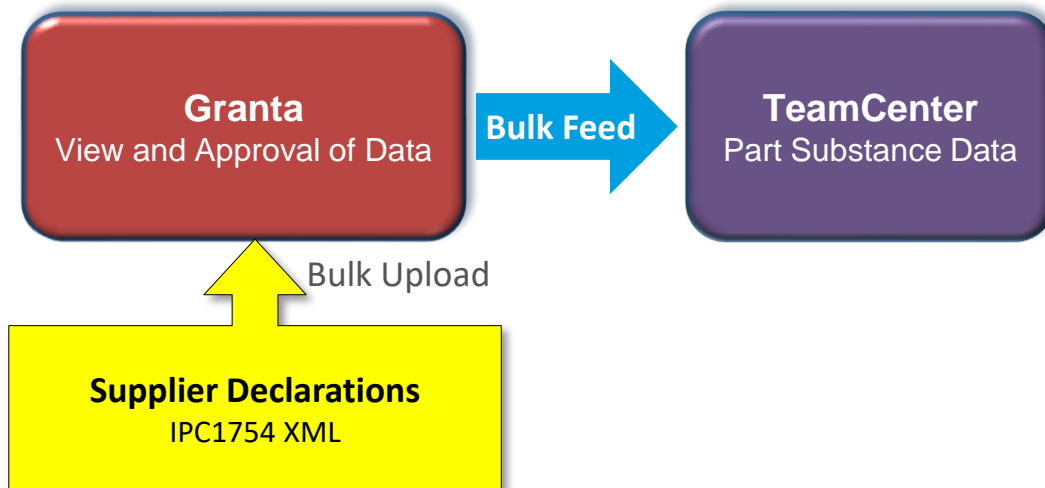
Review and accept/reject supplier substance declaration data

Supplier substance data flow from Granta to TeamCenter PLM

Current State



Desired Future State





Thank You
Questions?