

Solution for RoHS/REACH Regulations

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Introduction

RoHS and REACH regulation requirement

Candor will present a project focused on managing RoHS and REACH regulations in PLM (managing the Regulation for Registration, Evaluation, Authorization and Restriction of Chemicals), implemented complementing the existing PG&C module. The solutions required the creation of specific attributes in product collaboration module and the development of required logics for calculation and flow of information. Moreover, the creation of advanced customized reports was required. The presentation will explain the customizations and implementation needed to respect challenging RoHS/REACH regulation requirements.

RoHS

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC, was adopted in February 2003 by the European Union. The RoHS directive took effect on 1 July 2006, and is required to be enforced and become law in each member state. This directive restricts the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste

REACH:

The main aims of REACH are to ensure a high level of protection of human health and the environment from the risks that can be posed by chemicals, the promotion of alternative test methods, and the free circulation of substances on the internal market and enhancing competitiveness and innovation.

REACH makes industry responsible for assessing and managing the risks posed by chemicals and providing appropriate safety information to their users. In parallel, the European Union can take additional measures on highly dangerous substances, where there is a need for complementing action at EU level.

Requirement:

Oracle Agile PLM PG&C module is a good solution for all compliance requirements. Candor enhanced this module implementing a customized solution to better fit complex REACH/RoHS requirements. To get a RoHS and REACH summary report, user has to get into manufacturer tab of every item in a BOM. Check if all the manufacturing parts of every single part are RoHS and REACH Compliant and analyse if the item is RoHS & REACH compliant. This is a tedious task for any user and may not be an accurate process.

Solution:

Candor has developed process extensions to pull the information of RoHS and REACH of all the manufacturing parts of all the items and generate the Reports whether the parts are adhering to RoHS and REACH compliance.

Ex..

The Full Material Declaration (FMD) field is associated to Manufacturer Part Number.

When a Part Number (P/N) is generated, Candor Process extension will check and generate as below:

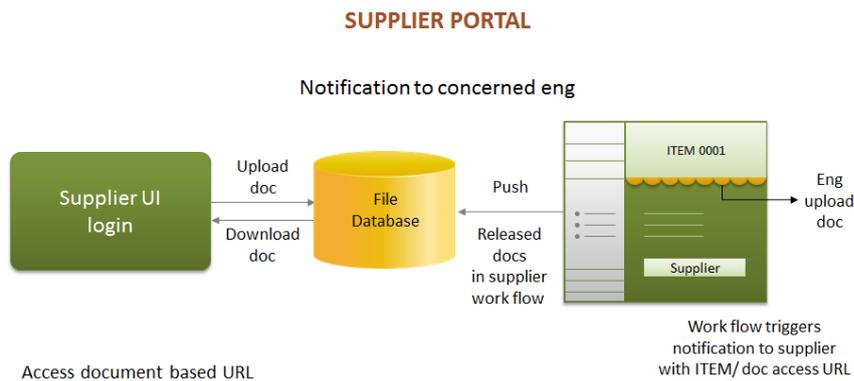
- If All MPNs is with FMD then the result at P/N is **FMD**
- If None of MPNs is with FMD then the result at P/N is **NOT FMD**
- If Only some of MPN's is with FMD then the result at P/N is **Some Inside**

Created attributes related to REACH with a provision for manual entry for few fields and also developed logics for filling up few fields automatically for reports.

Supplier portal integrated with Agile PLM

Candor expertise will provide a customization, provided to a customer requiring a dedicated web portal for the exchange of documents with suppliers. Supplier Portal is a web based readily deployable application with Agile PLM where suppliers can be given access outside the intranet for exchange of documents. The supplier can access only the information related to the document he/she requires. Both the customer and supplier can exchange documents through this portal. Customer deposits the document in Agile which fires a notification to the supplier. In reverse the when the supplier deposits a document then a notification is sent to the concerned engineer. The infrastructure created and the integration with the PLM system will be explained in the presentation.

An intermediate file data base is created, into which documents will be pulled whenever the situation demands for the concerned engineer to share with the supplier. A notification will be fired to the supplier, as and when the document sits in the intermediate file database. There is a separate UI for suppliers to login and upload/download the documents with data security features. Integration is well defined between the supplier file database and agile PLM.



Supplier Portal for Document Exchange

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