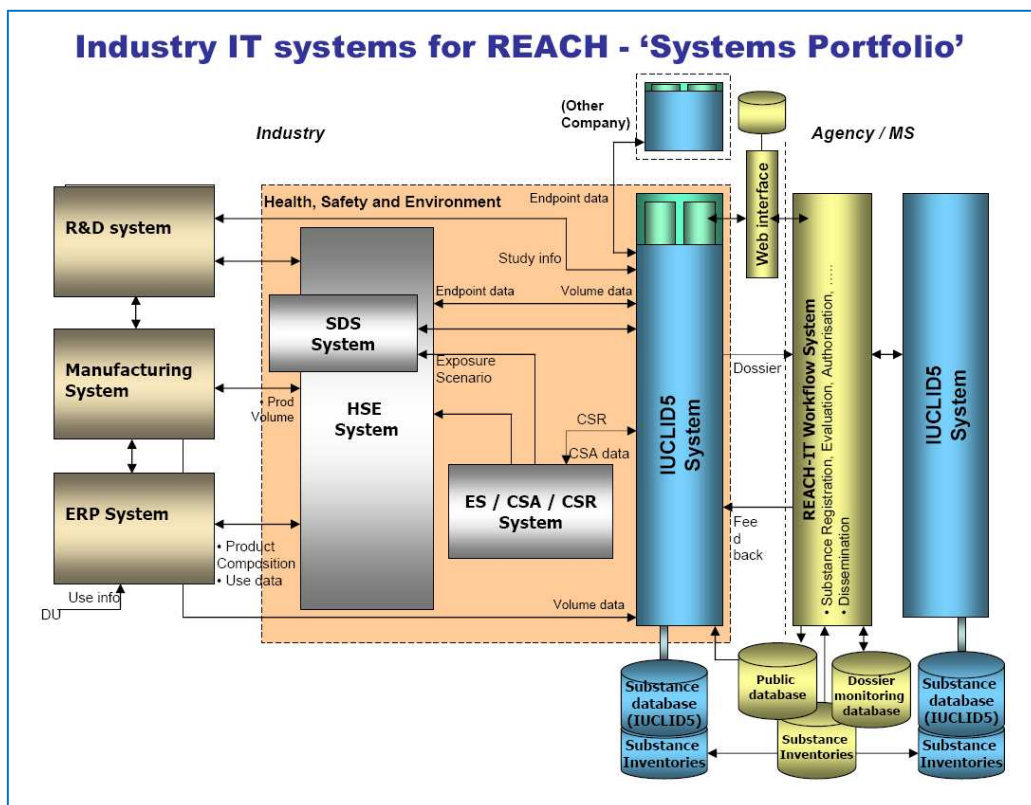


ExESS can be used as in integrating SIMS tool for REACH embedded in existing IT systems for chemicals Management.



Picture 1 : IT system for Chemicals Management (source : J.Wille, CEFIC, 2005)

An IT system for Chemicals Management is presented above. All parts of this system can be implemented in one or more IT applications. In the framework of REACH Compliancy, systems must collect data, execute calculations or structure tables, to be able to report and present data as required by REACH or to guarantee REACH compliancy.

Depending on the flexibility of existing IT applications in such a REACH IT scenario's, reporting and data presentation in general can be obtained by the individual IT system component. If not possible, many organizations build limited sets of interfaces between those IT components. Information gathered by interfacing comes in one database to be able to create calculations and consolidated reports. In many cases this interface can be ExESS with SIMS functionalities.

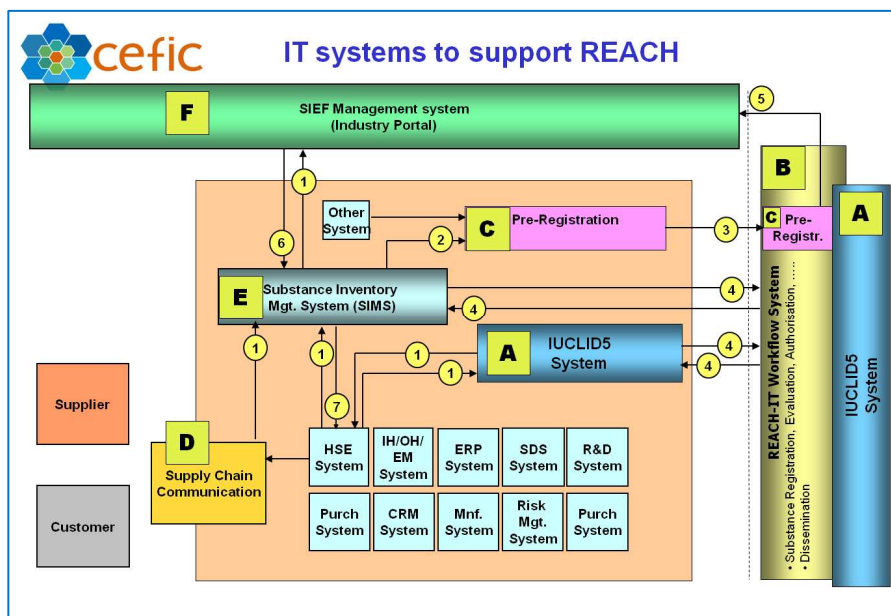


REACH functions in a SIMS concept

(Substance Inventory Management System)

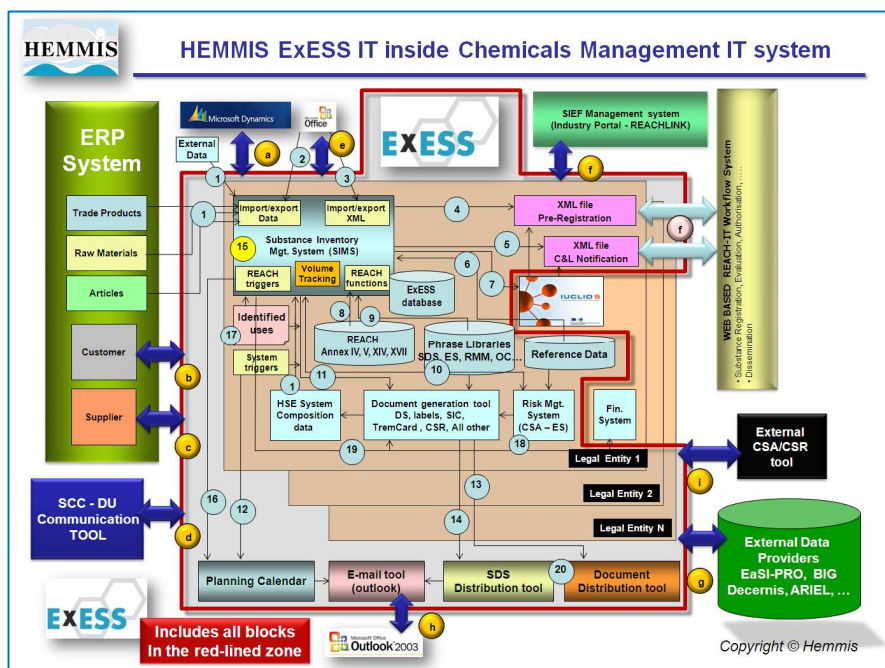
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ExESS as an integrating IT solution in a chemicals Management concept



Picture 2 : The role of SIMS in an IT integration for REACH compliancy (source : J.Wille, CEFIC, 2007)

In the picture above, ExESS is the SIMS part: Part E. In this scenario, ExESS (SIMS) is the tool to collect; treat and report REACH related issues by interfacing with existing IT parts. The picture below shows the overall coverage possibilities of the ExESS application for total Chemicals Management, including REACH.





Examples of SIMS functions in ExESS

- Collection and presentation of relevant data of articles and their composition
- Collection and presentation of relevant data of preparations and their composition
- Check product/Substance classification information with libraries (EC inventory, Annex I (DSD), Inventory libraries, external product databases,...)
- Check component (substance) presence in articles and preparations based on property data : substances with specific end-points, property values, concentrations,...
- Check component (substance) presence in articles and preparations based on lists : Candidate list, Annex IV, RoHS, SVHC, CMR 1 & 2 , EC inventory,...
- Collection/synchronization of suppliers and clients of the articles, preparations and substances
- Collection of relevant (extra) information on LE / BU / sites
- Divide articles, products and substances within suitable LE structure and enable tracking of moving businesses and Product/LE volumes
- Collect Trade Volume information of articles, products and substances (per Site, LE, BU)
- Collection of extra REACH relevant information: Origin of supplier, REACH exemptions, REACH categorization as intermediates, impurities, uses , critical product indication,...
- Calculation of REACH Volumes and permanent tracking/cockpit presentation
- Retrieval of previous REACH relevant Volumes (previous years) and Simulation of forecasted REACH Volumes
- Management of identified uses ,compliant with 4 level model (SU, PC, PROC and Art) and ERC (environmental Release Categories)
- Collection of data for new reporting : ES, eSDS, CSR. In most cases via XML import/export
- Collection of USES per product/LE/Supplier combination
- Collection of USES per product/LE/Client combination
- Collection of USES per product/LE/internal need combination
- Comparison of the match with the uses through the SCC (from supplier , through site/LE to client)
- Generation of XML files for exchange with SIEF and actors in SCC (based on data sets)
- Generation of XML data to exchange with IUCLID5, CSA tool, EUSES or other tools
- Import of XML data
- Data GAP analysis for REACH substances (based on Annexes VII – IX)
- Estimation of costs related to not available data (gap analysis)
- Create queries in Excel format needed for decision making
- Creation of REACH COMPLIANCY KPI's (Performance Indicators): Create definition, scripts and scores. Present them in cockpit tables (screens). E.g. substance registered: 80% , registration



REACH functions in a SIMS concept

(Substance Inventory Management System)

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NOK or OK, REACH Volumes are close to tonnage band limits, Total quantity of CMR products used, Number of articles with SVHC,

- Collection of all documents, mails, studies for technical and legal compliance
- Track tasks and deadlines (Task Module) to prove action and cover potential legal aspects/problems
- Manage links, storage and retrieval (Google search) on study information (study result reports of chemicals)
- Distribution of tasks (standard outlook)
- Distribution of information (documents (pdf/Word) or XML files) based on distribution lists

ExESS IT considerations

ExESS communicates easily with MS based IT configurations. Users and /or implementers can create:

- Entities (e.g. Everything you want to collect in Excel spreadsheets can be done in ExESS)
- Relations (e.g. All macro functions and Excel relations can be defined in a more user friendly in ExESS)
- Scripting (e.g. Alarm triggering, automatic field calculation, intelligent decision procedures)
- XML import and Export
- Reporting through direct copy paste to MS solutions
- Reporting through data exchange with WORD templates

This means that ExESS can be used to implement user requirements that were originally not in the ExESS Scope. ExESS is a toolbox to implement functions, calculations and reports related to EH&S