

**C**ollaborative product development using  
Neutral Package (NP)



**O**rganizations experience various challenges in collaborating with internal and external product development teams or suppliers

**S**ometimes OEM's and suppliers use different Document / PDM systems

**C**hallenges are faced during design, collaboration, manufacturing or during communication

### **D**esign **C**hallenges!



**P**roduct Development process no longer takes place under one roof

**G**reater demand to reduce Engineering design and Change cycle time

**N**eed for concurrent design and development

**S**olutions to product issues from one group may be reworked concurrently by another

**C**ost pressure across value chain, demand to integrate more product functions

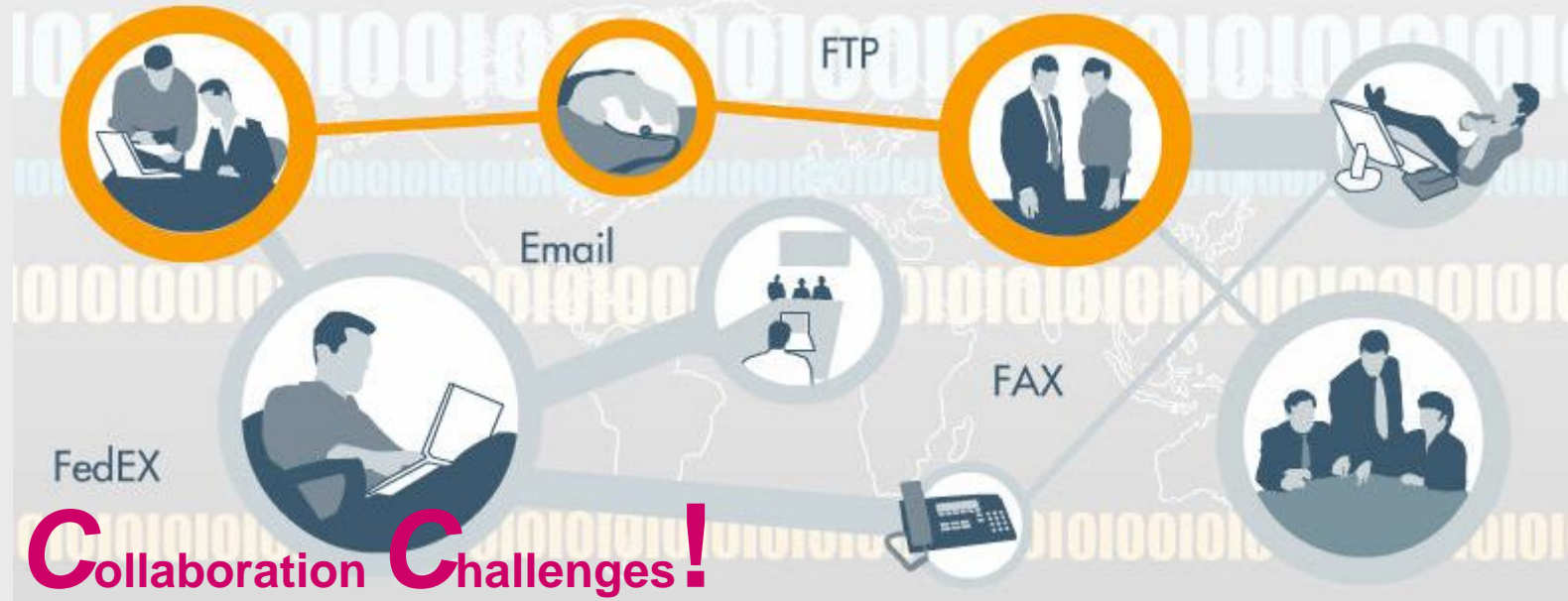


**C**ompanies need to share accurate and up-to-date digital data with the partners, suppliers and vendors

**I**nformation need to be shared across multiple languages, operating systems and development tools

**C**ompanies have Heterogeneous environment in terms of data management, such as combination of Document management systems, CAD systems, PLM solutions

**D**evelopment in more than one country or across time zones



**G**reater need for lean and efficient communication between all levels

**C**onventional ways of communicating individual product design data in a heterogeneous CAD / PDM / PLM environment doesn't satisfy the integrated product development goals

**D**istribution of standard libraries with access controls

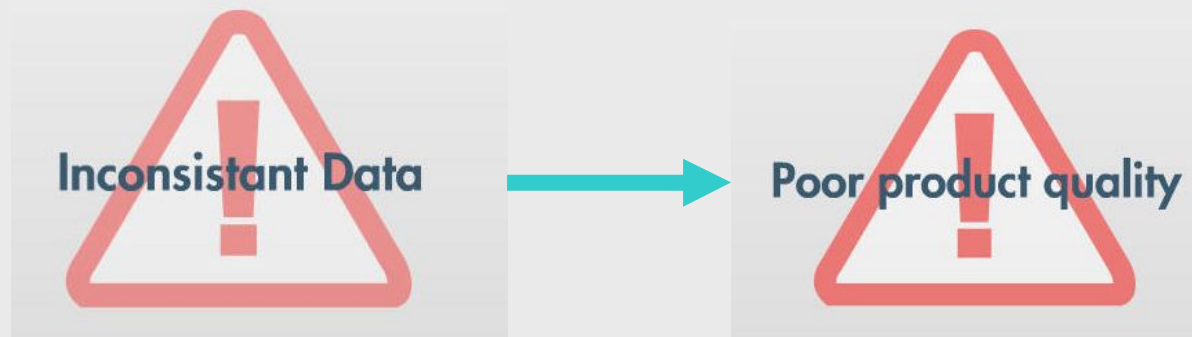
**C**oncurrent design sharing and development across CFT's

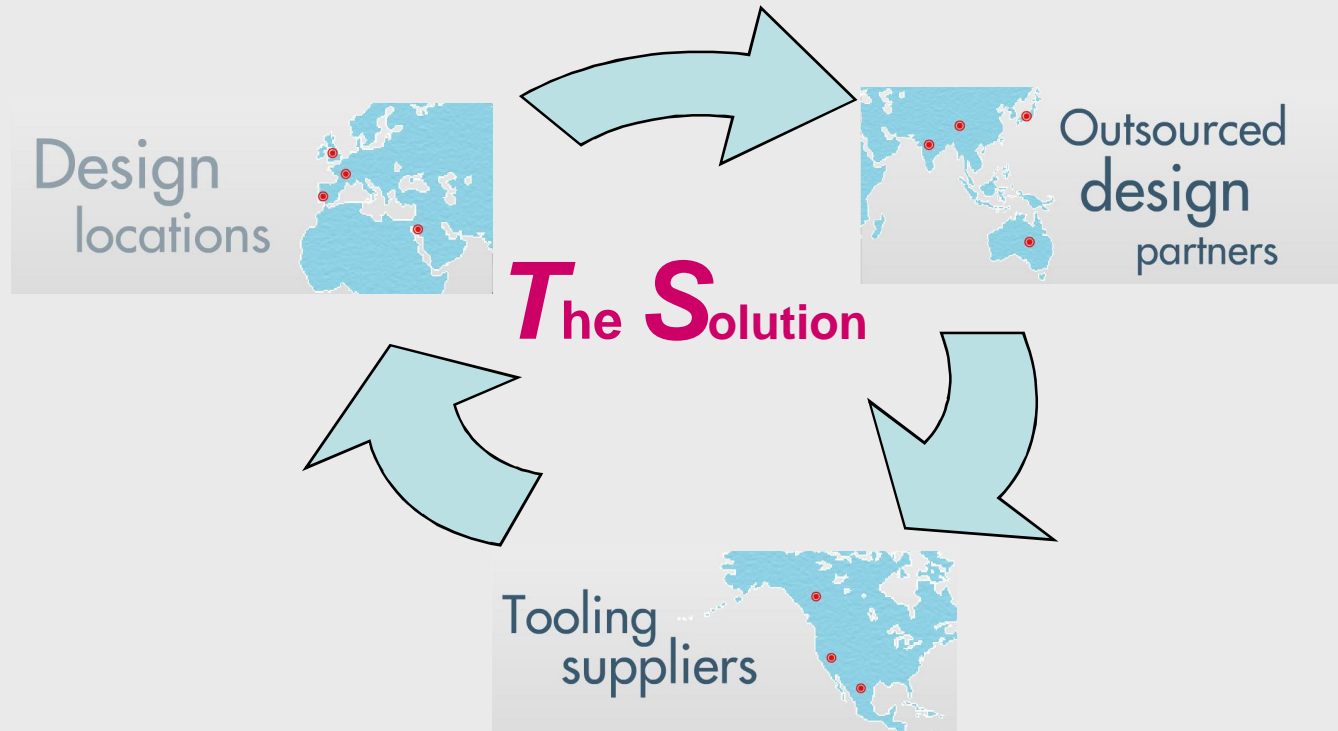


- R**elease valid design and manufacturing information at an early stage
- B**reak geographic barriers and exchange reliable product data
- R**educe cost for collaboration
- R**apid and fluid exchange to maintain data reliability



*M*isunderstanding or inconsistent data results in negative impact on Cost and Quality



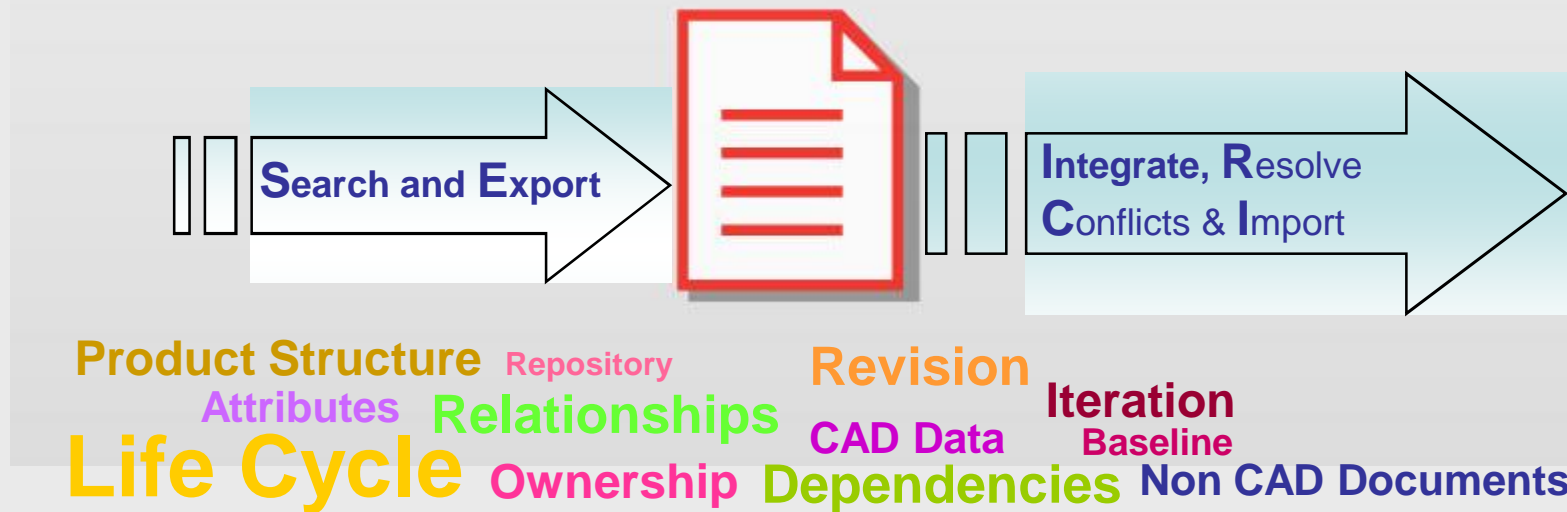


**Sconce** Introduces Neutral package – the smartest way to share accurate design information across teams

**N**eutral Package - **S**trengthens practices for product design package exchange and integration within designers and with the suppliers

**R**eliable and trouble free way of exchanging Product Design Data

## Neutral Package



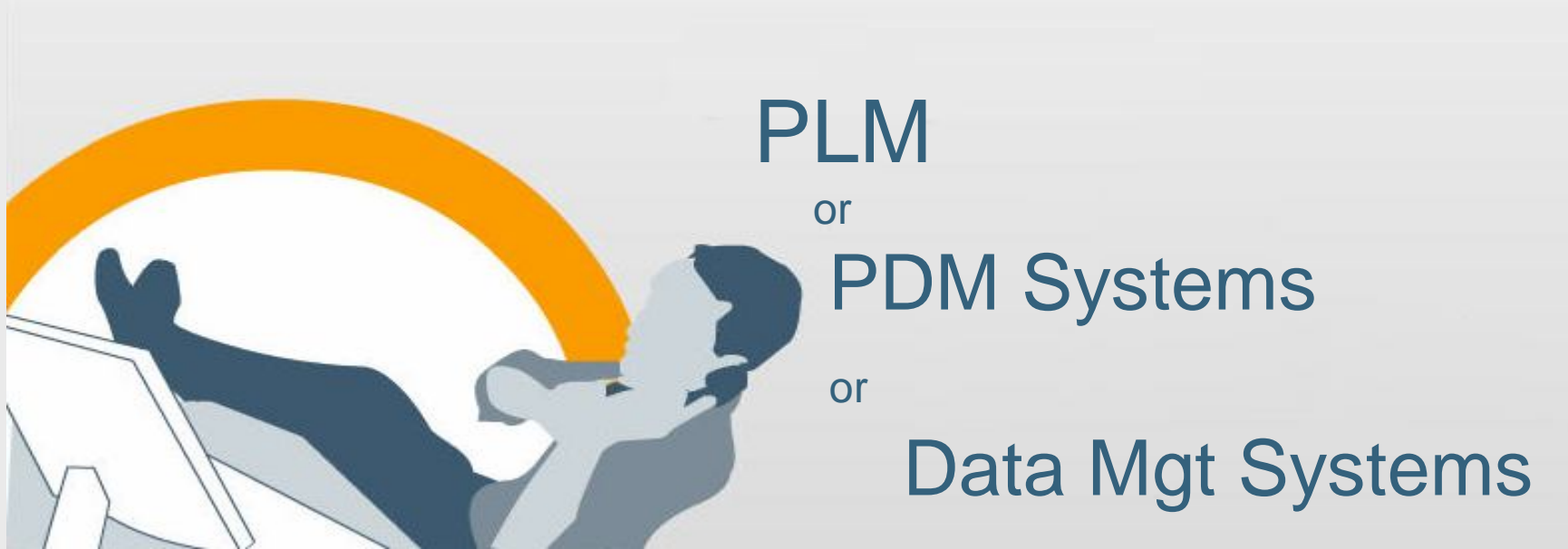
**N**eutral package - a briefcase to extract and reconcile product data

**B**reak through innovation for sharing design data across CAD / PDM / PLM Systems

**M**eta data and physical design files are exchanged through the DMan package

**C**reated independent of any CAD/Authoring tool

**S**upports IL8N – multiple languages

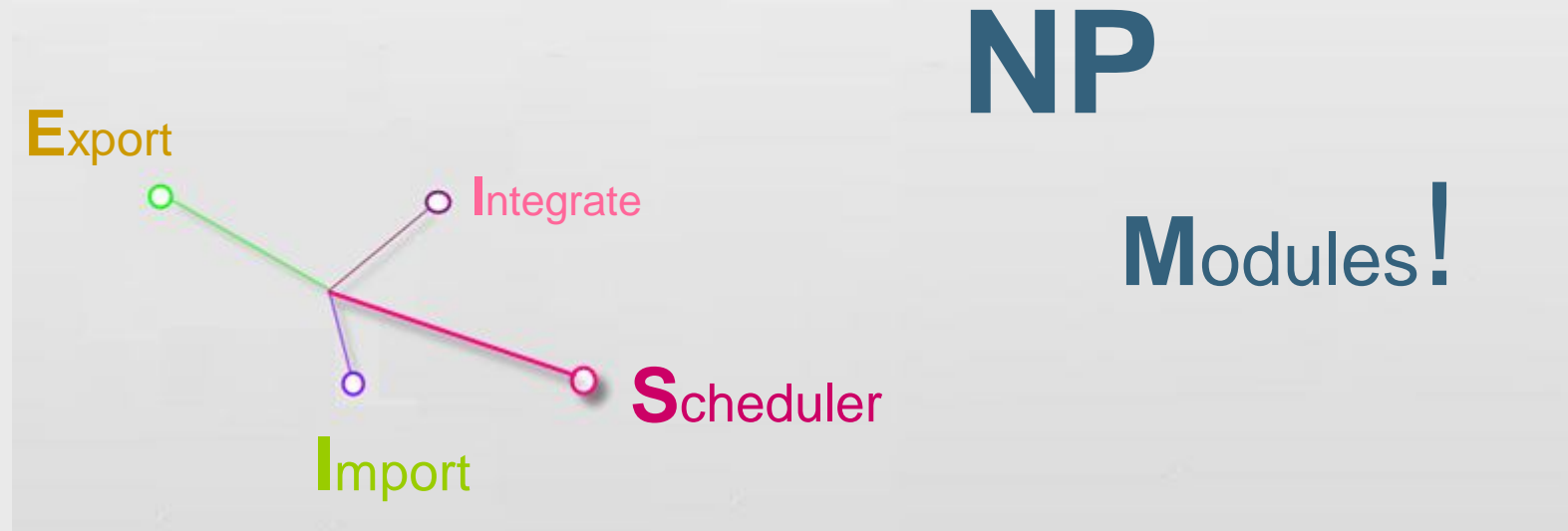


**D**ifferent adaptors to connect to connect to different data systems

**D**esign Managers can stop worrying about integrity of data exchange

**A**utomated and scheduled extraction streamlines the entire exchange and the product development process

**F**lexible Parametric design practice between the OEM and the suppliers allows an Incredible Productivity for the whole project

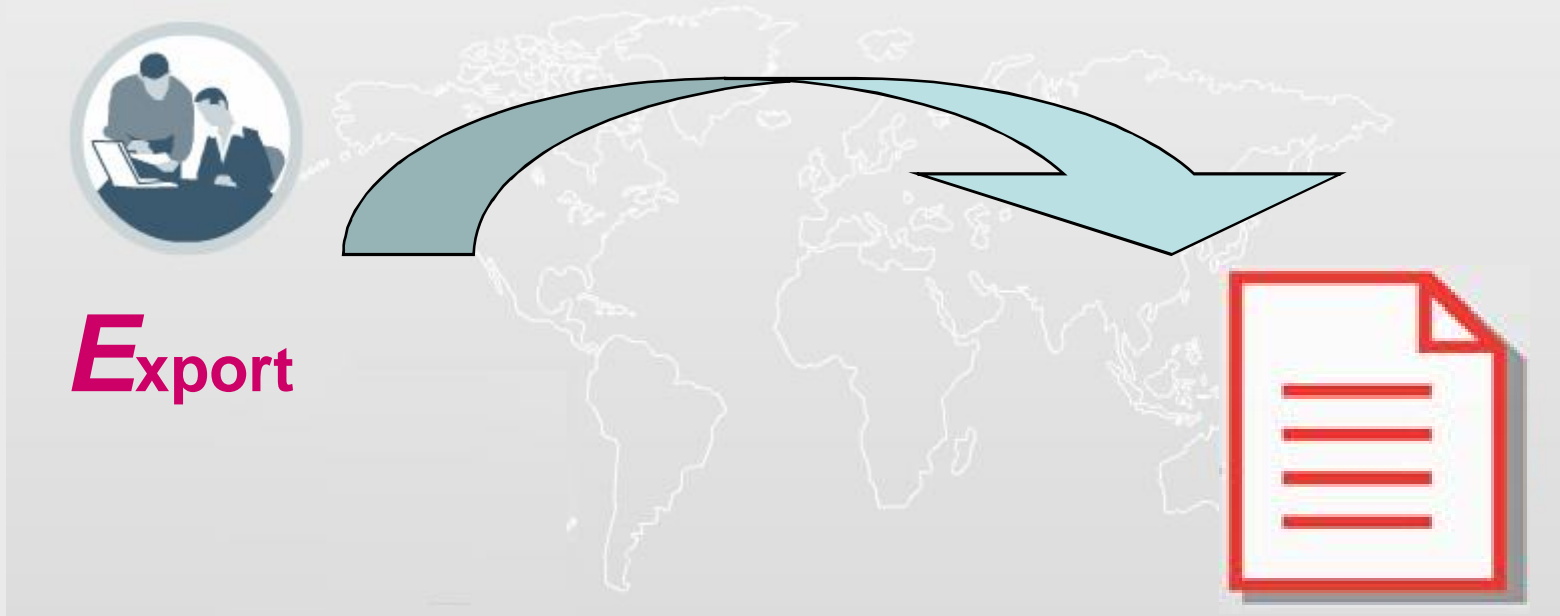


**E**xport module allows to search and export design information from source system into Neutral package – this package is later transferred to the target system

**I**ntegration module allows to connect to the target system, integrate the package contents and help you resolve conflicts

**I**mport module allows you to import the contents in the target system

**S**cheduler module allows you to execute and automate Neutral export, import at regular intervals

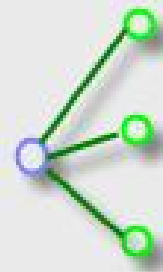


**E**xport

**B**oth GUI and command line tools are available

**O**nly PDM administrators have access to exchange data

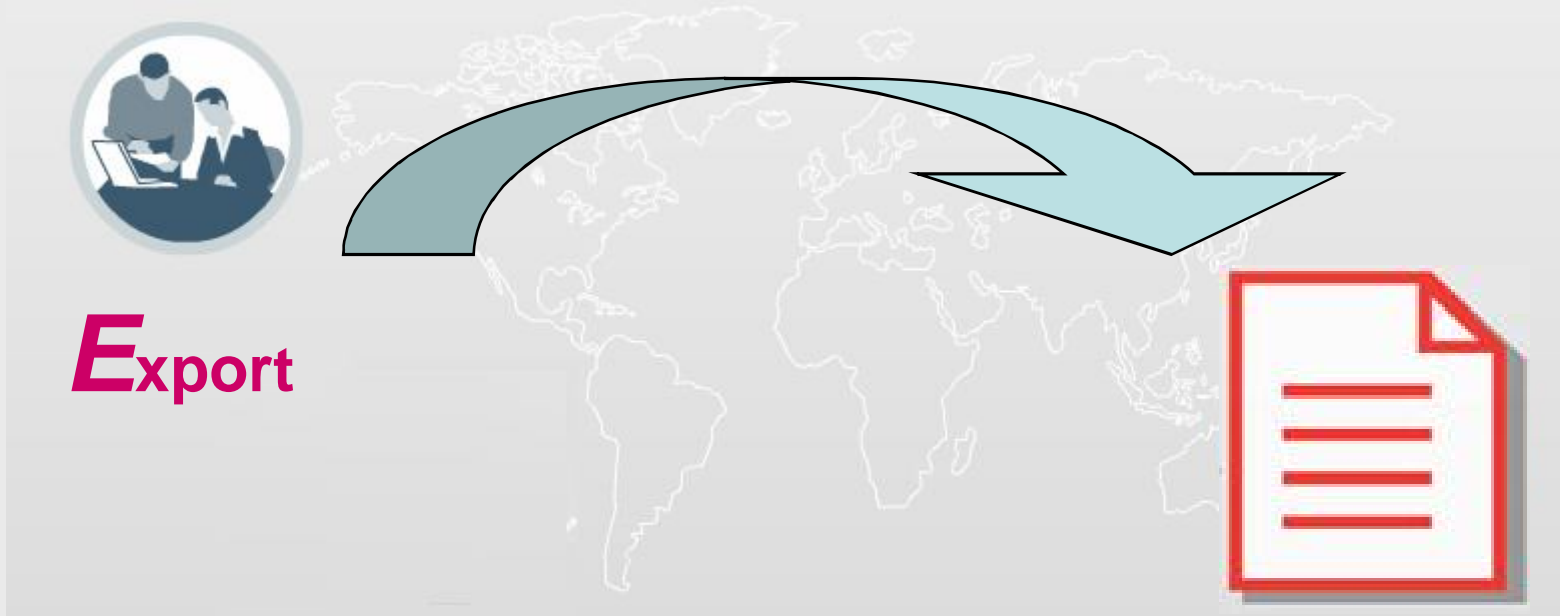
**D**esign data are **S**earched



**by product**

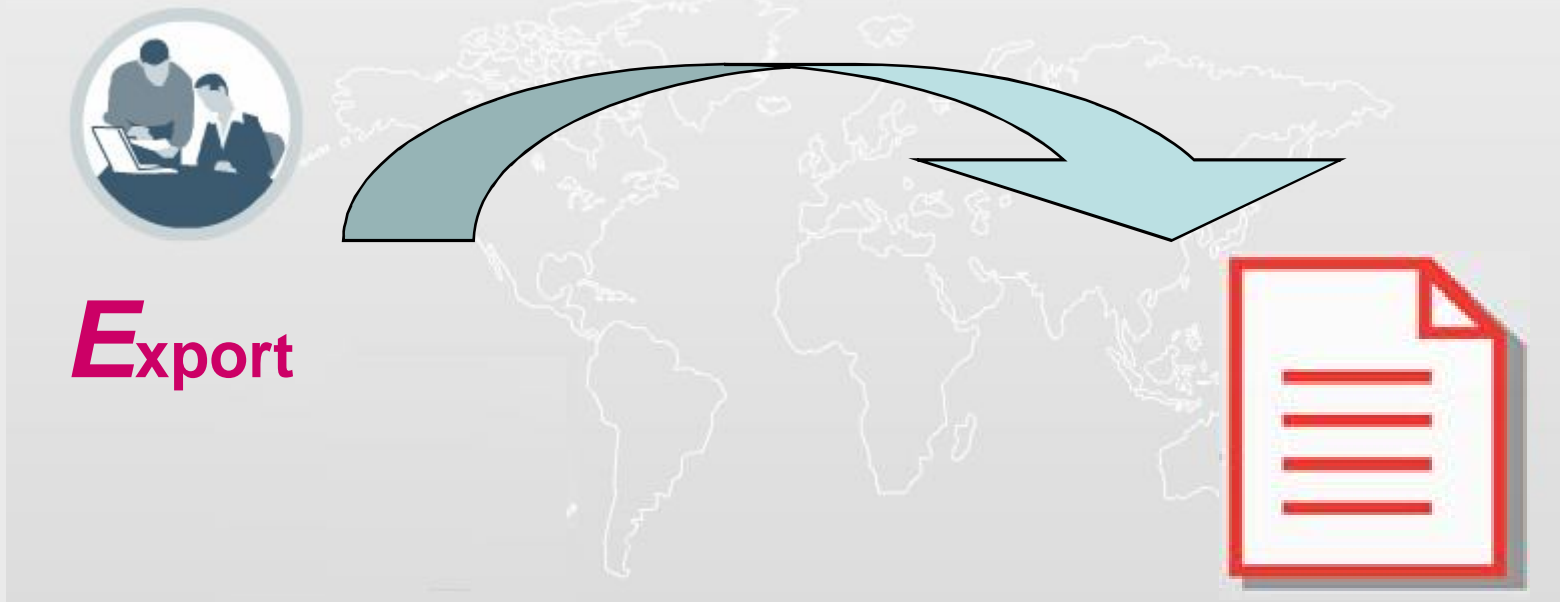
**by Criteria file**

**by baseline**



**E**xport






**Export**

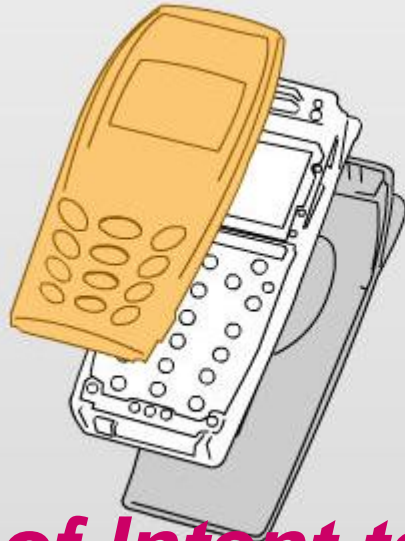
- Dependency**
- All
  - Required
  - None

- Export Configuration**
- ALL VERSIONS
  - LATEST
  - ASSTORED

- Option to **I**nclude **D**rawing 
- Option for **P**ackage **C**ompression
- Option to **T**ransfer **O**wnership
- Option to **E**xport **A**tttributes

**Export**

***Right of Intent to Modify***

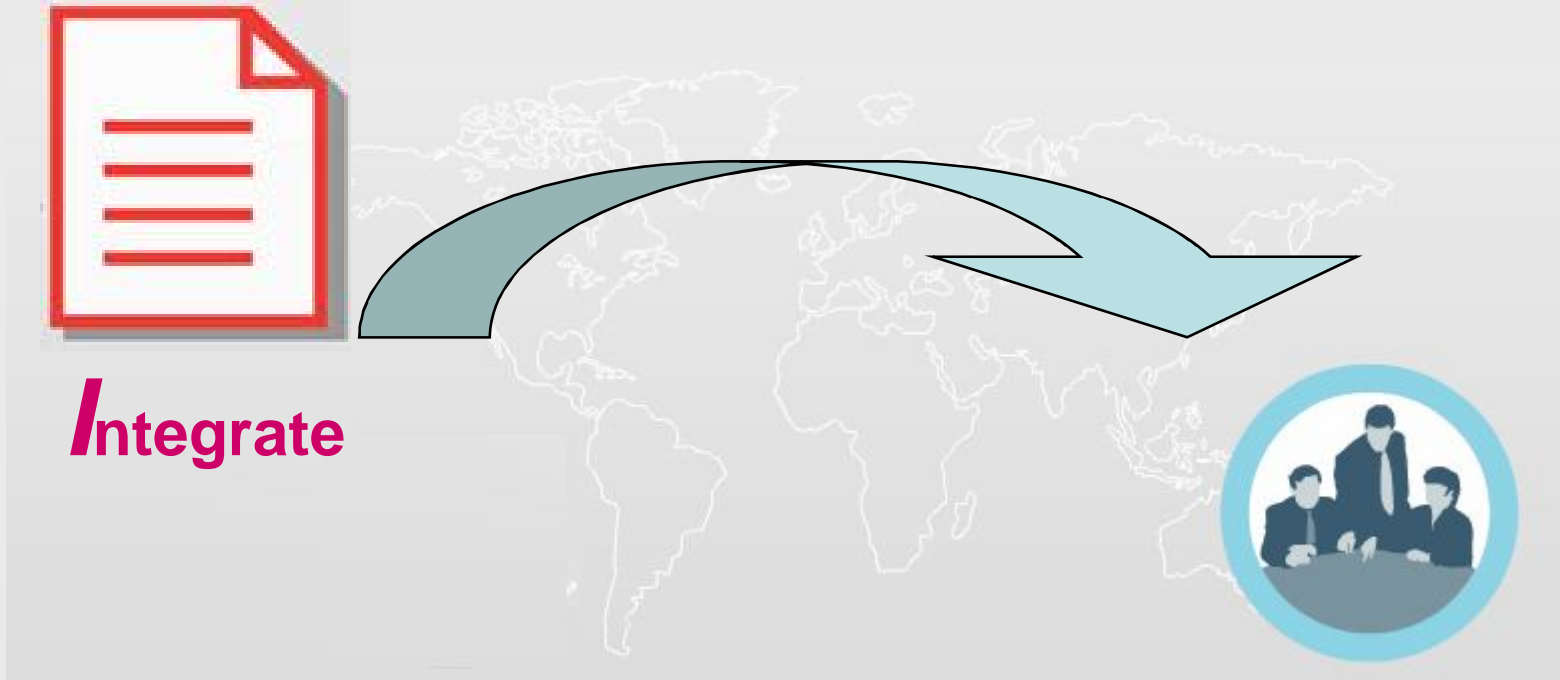


**I**ntent to Modify transfer is done when objects are sent to a different site for modification

**N**ew owner name is assigned during the export

**A**fter the import in the target the objects is available for modification in the target

**A**ll other objects are locked in the target for any changes and this eliminates accidental modification



**Integrate**

**I**ntegrate is to compare and map the package contents with the target system

**M**apping is done using a mapping file or manually

**B**oth GUI and command line tools are available

**P**ackage **C**ontents are mapped for

- Attributes
- Life cycle and states
- Folders
- Revisions
- Document Masters
- Document Iterations



## Integration Conflicts

Moved Objects Life Cycle doesn't exist  
Renamed Objects New Folders Objects already found  
Life Cycle Changes Attributes not found Revision not found

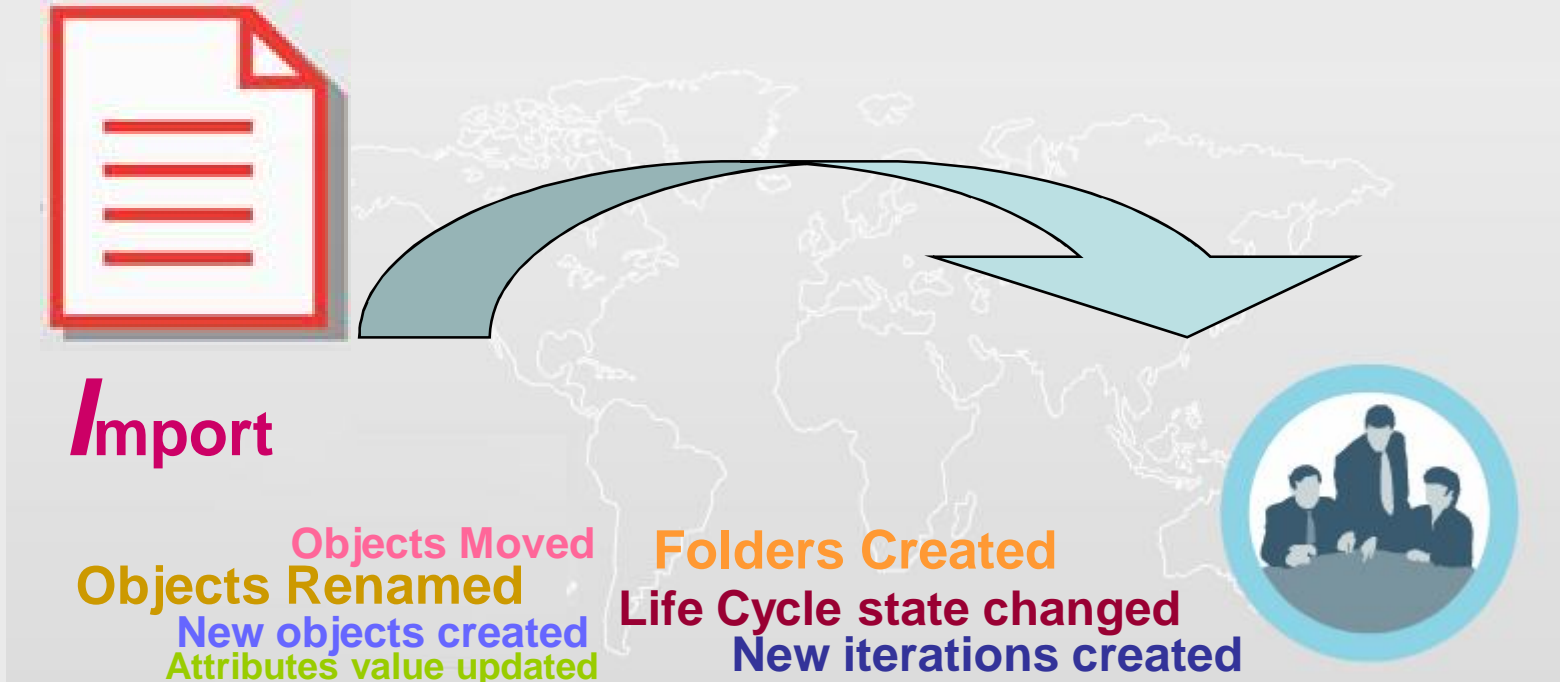


**C**onflicts arising during the integration are presented

**C**onflicts are either overridden automatically or resolved by the user

**I**ntegration **stops** whenever a non-overridable conflict is found

**I**ntegration through GUI provides additional integration options



**F**ully integrated packages are imported

**O**nly selected products can be imported

**O**wnership information updated for objects

**A**fter import the target system is updated with the package contents



**S**cheduler is integrated with the NP application

**O**ption to schedule recursively on a regular interval (daily, weekly monthly etc.,)

**S**cheduler client can be executed from any NP client machine

**D**etails of all the schedules and their statuses are available in relation database and can be viewed from any NP client

Contact Sconce  
today for  
more  
information

