



TIC PME 2010

Déploiement régional

Quelques mots au sujet des standards

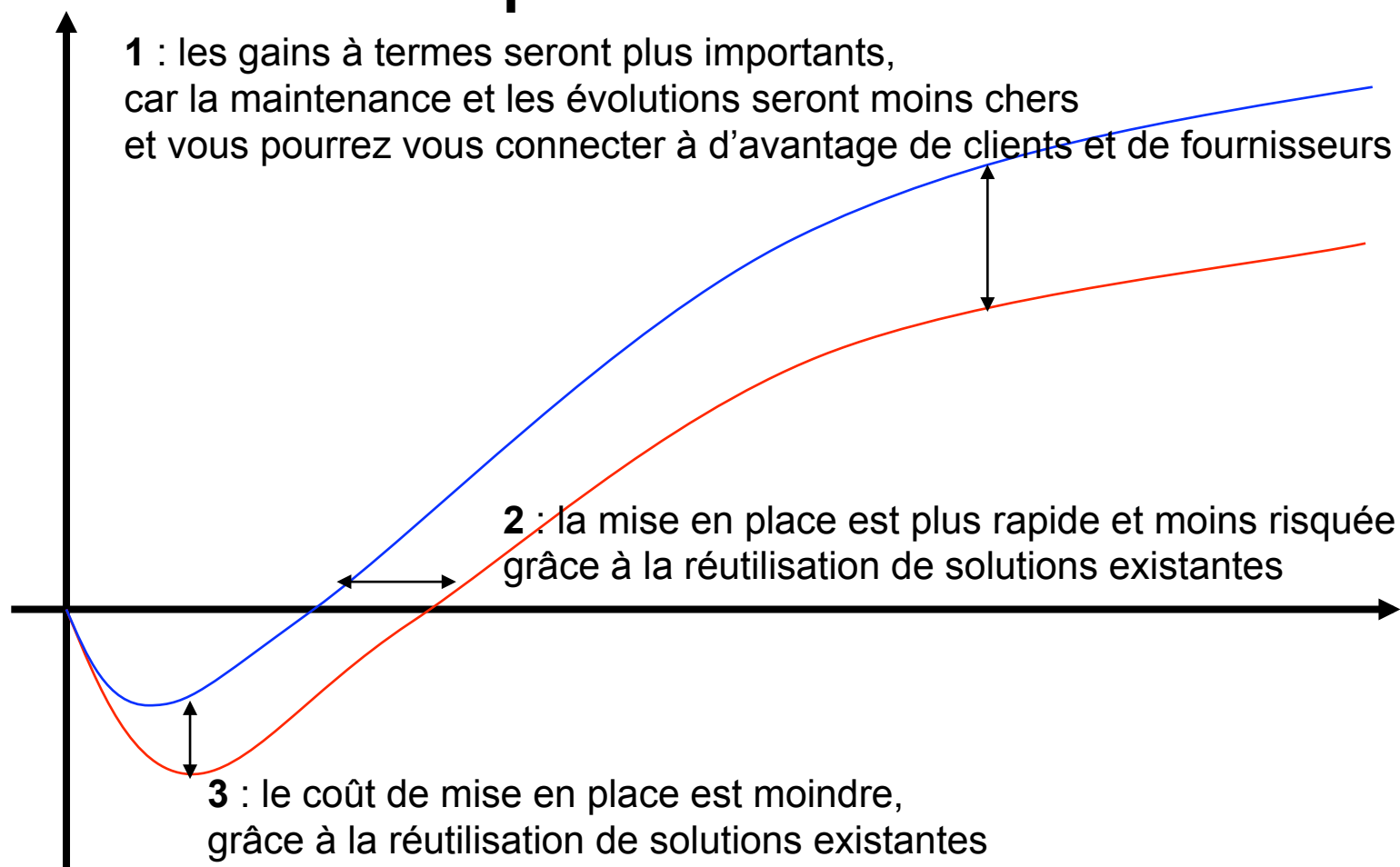
1. Utilité des standards : Pourquoi ?
2. Mise en œuvre des standards





Les TIC sont un passage obligé ?

Passez par les standards !



Avec les standards, on gagne plus (1), plus vite (2) et moins cher (3)
En outre, la dépendance par rapport au donneur d'ordre est réduite.





Deux familles de standards :

1. e-Design : conception collaborative de systèmes complexes

[ISO STEP et ses protocoles d'application](#) →



Un protocole d'application donné définit le contexte, le domaine (type de produit, phase du cycle de vie prise en compte, type de données, exploitation et disciplines concernées), les besoins en information et les méthodes STEP utilisées pour exprimer ces besoins

2. e-Business

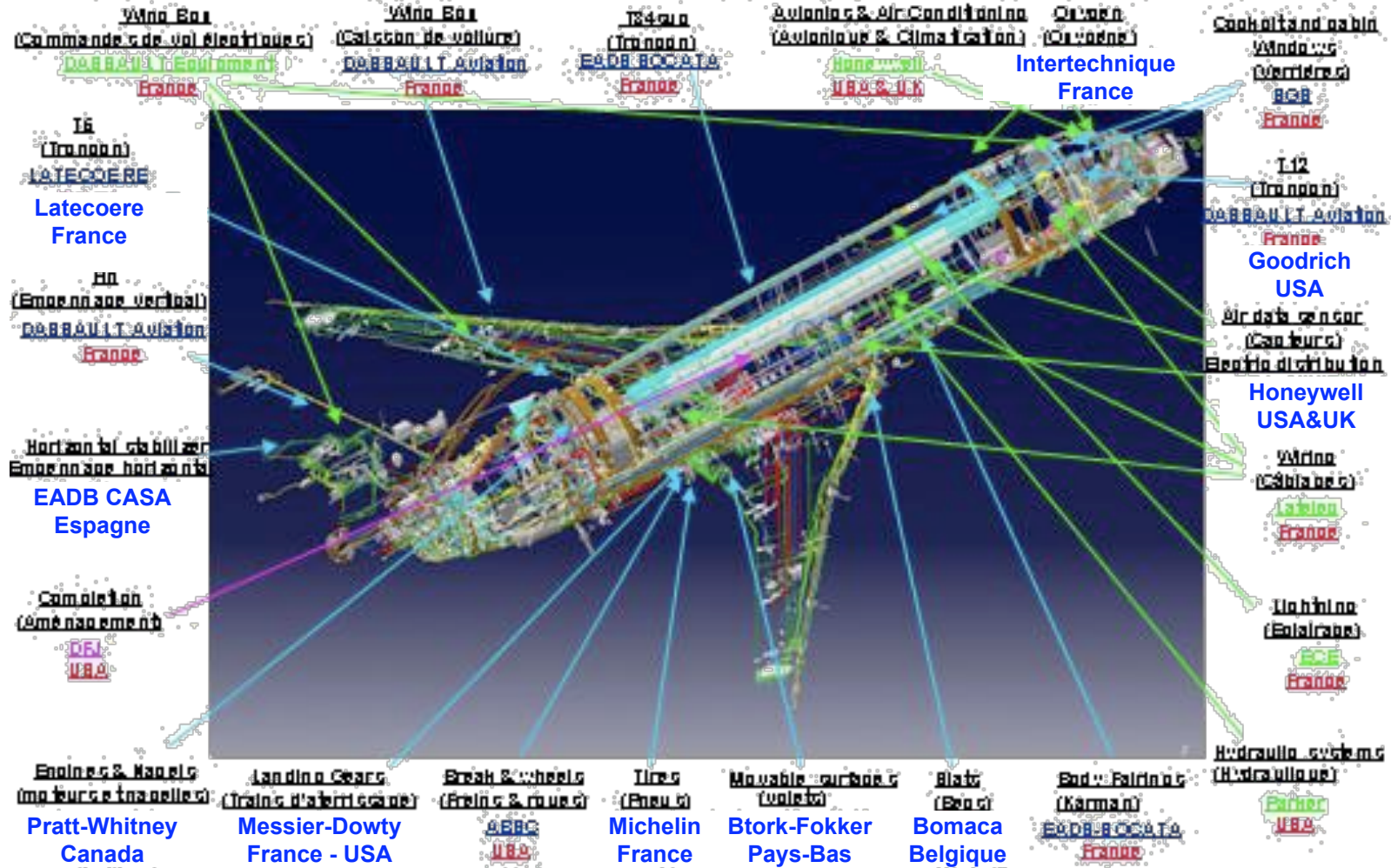
- e-Procurement [Achat],
- e-Supply Chain [approvisionnement]

UNCEFACT [EDIFACT → XML → ebXML → ISO 15 000]

MoU ISO – IEC – ITU – UNCEFACT – OASIS – OAGI

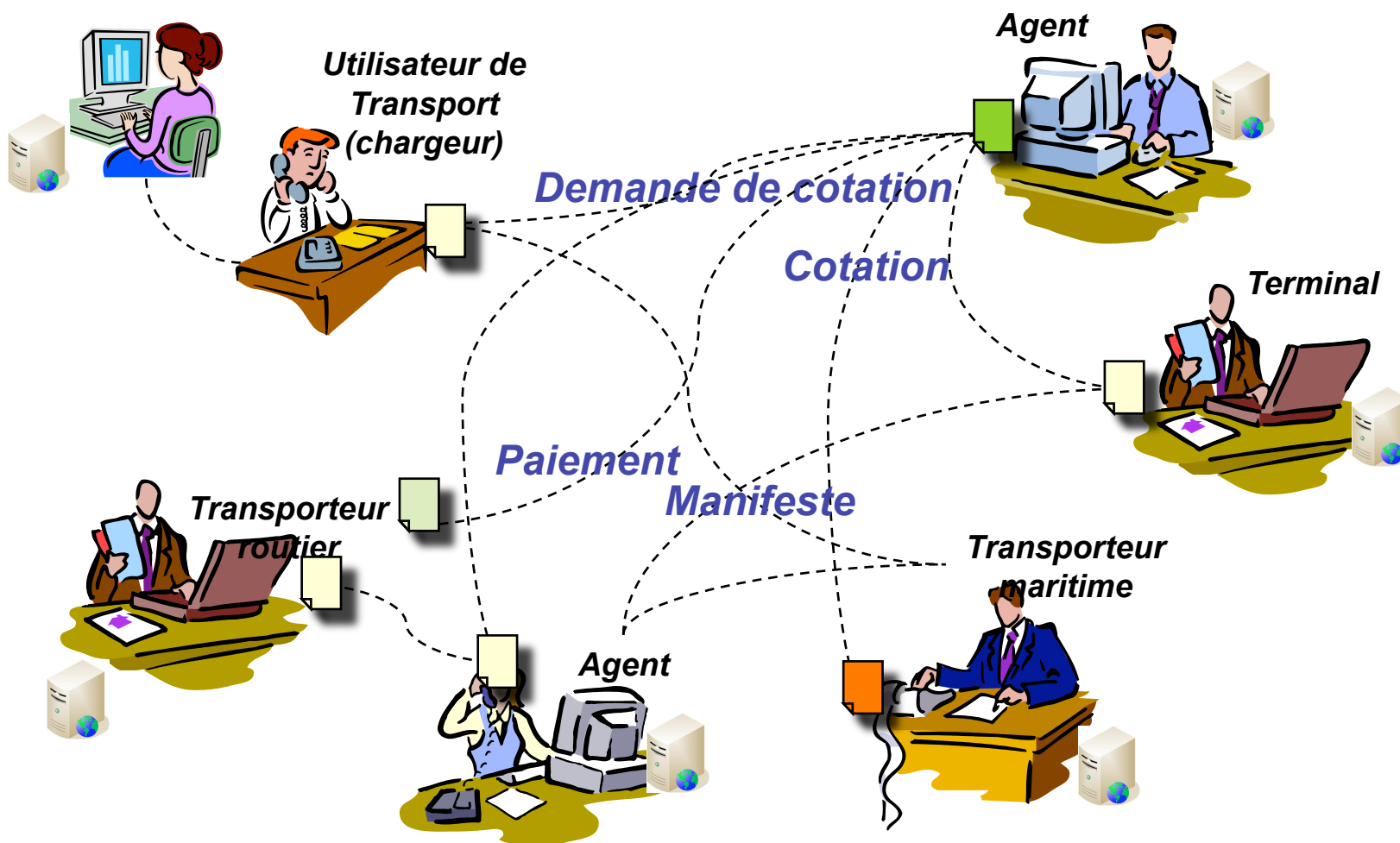
e-Design : conception collaborative de systèmes complexes

Dassault Aviation Falcon 7X: the digital mockup shared by all partners and design, manufacturing, support teams → design quality improvement, assembly time and cost reduction → new industrial revolution.



Chaine de transport complexe

Exemple





Messages Standardisés

- UN/CEFACT
- ebXML
- Procédures et routines d'UN/EDIFACT
- Modélisation UMM / UML
- Utilisation des Composants essentiels
UN/CEFACT Core Component

Défis de la coopération électronique

Entreprise/organisation

Modélisation et orchestration des processus d'affaires

Sémantique

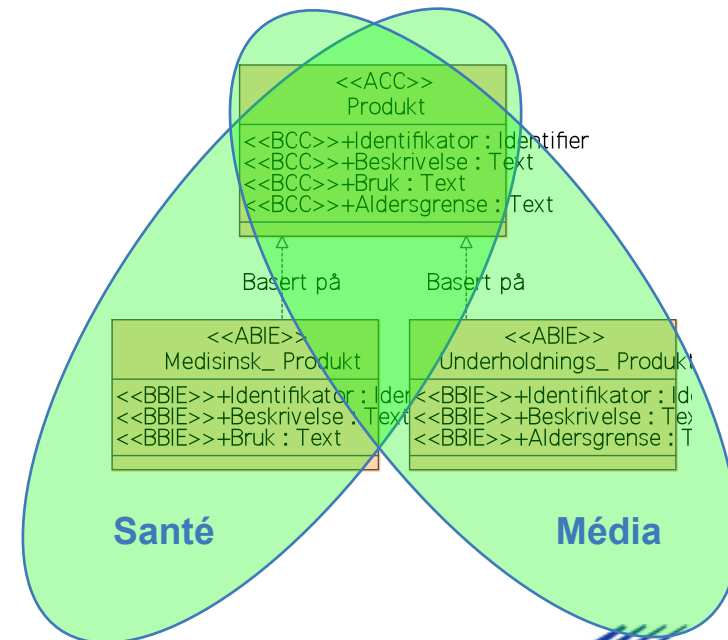
Sens précis, vérifié et mutuellement accepté de l'information

Technologie

Solutions techniques permettant aux Solutions TIC de communiquer et de s'intégrer / interfacer

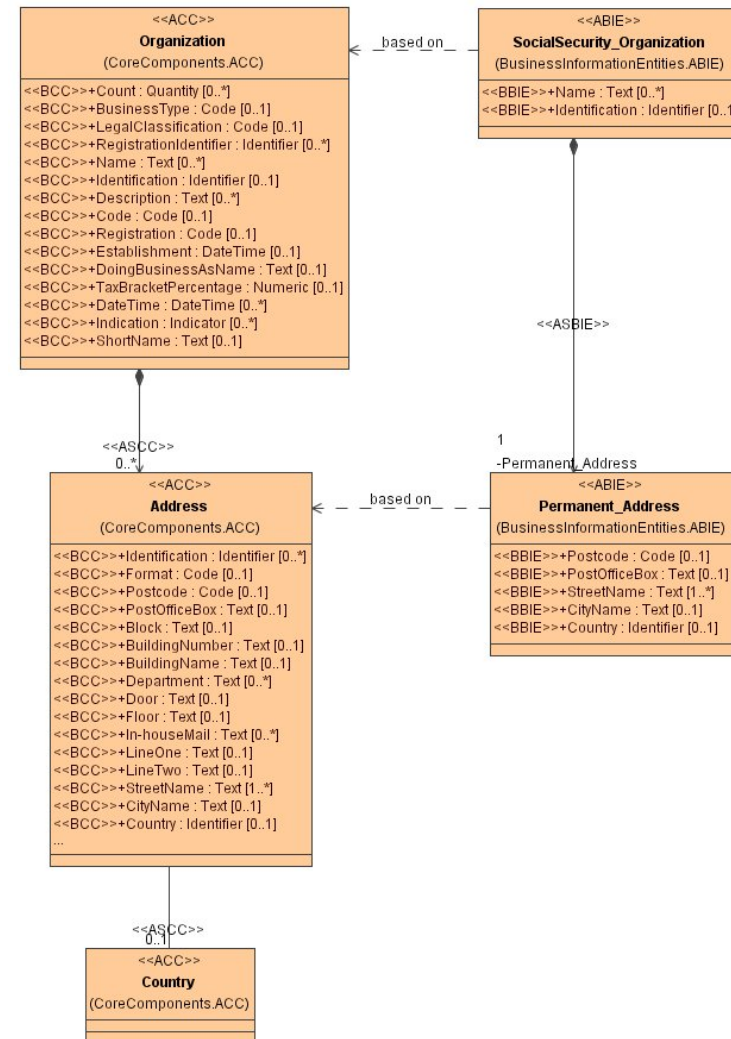
Composants essentiels Core Components CC ...

- ... ce sont des composants réutilisables qui peuvent être utilisés tels quels dans un contexte d'affaire .
- ... représentent les objets de gestion du e-business
- ... sont définis en utilisant des informations de base communes à mains secteurs
- ... permet à des utilisateurs de définir des informations qui ont un sens dans leur contexte mais sans nuire à l'inter opérabilité avec d'autres systèmes e-business horizontaux (transport, services aux entreprises ..)



BIE = CC en Contexte

- **Core Component (CC)**
 - Bloc de construction générique
 - Définition et contenu sémantique unique
- **Business Information Entity (BIE)**
 - Bloc de construction spécifique utilisé dans un contexte d'affaire donné
 - sous-ensemble (basé sur) un Core Component
- **Contexte d'affaire défini par un jeu de directeurs de contexte**
 - Processus d'affaires
 - Classification de produits
 - Région (Géopolitique)
 - Contraintes officielles (légales)
 - Rôle dans un processus d'affaires
 - Capacités d'un système





UN/CEFACT - Librairie des Principaux Composants

CCL07A-working CC; 18MAR - Windows Internet Explorer

file:///D:/UNCEFACT/html/ccl/031.htm?D:/UNCEFACT/html/ccl/033.htm

CCL07A-working CC; 18MAR

M CCL07A-working CC; 18MAR

- C Accounting Account. Details
- C **Address. Details**
- C Adjustment. Details
- C Allowance Charge. Details
- C Assignment. Details
- C Bill Of Quantities. Details
- C Building. Details
- C Business Profile. Details
- C Business Type. Details
- C Calculation. Details
- C Communication. Details
- C Completed Work. Details
- C Complex Description. Details
- C Construction Type. Details
- C Contact. Details
- C Contract Award Notice. Details
- C Contract. Details
- C Country Sub-Division. Details
- C Country. Details
- C Currency Exchange. Details
- C Deliverable. Details
- C Delivery Terms. Details
- C Delivery. Details
- C Dimension. Details
- C Document. Details
- C Event. Details
- C Examination Result. Details
- C Facility. Details
- C Factory. Details
- C Feature. Details
- C Financial Account. Details
- C Financial Card. Details
- C Financial Institution. Details
- C Geographical Coordinate. Details
- C Guarantee. Details
- C Identity. Details
- C Instructions. Details
- C Location. Details
- C Metrics. Details
- C Monetary Summation. Details
- C Note. Details
- C Organization. Details
- C Party. Details
- C Payment Means. Details

UN CEFACT CCL 06B
Model name: CCL07A-working CC
[Start] [BIE] [CCL ACC] [qDT] Go back

ACC **Address. Details**

Address. Details

- 0..1 Address. Country Identification. Country
- 0..* Address. Country Identification. Country Sub-Division
- 0..* Address. Geo-Coordinate Identification. Geographical Coordinate
- 0..1 Address. Usage. Preference

Address. Identification. Identifier
Address. Format. Code
Address. Postcode. Code
Address. Post Office Box. Text
Address. Block Name. Text
Address. Building Number. Text
Address. Building Name. Text
Address. Room Identification. Text
Address. Department Name. Text
Address. Floor Identification. Text
Address. In-House Mail. Text
Address. Line One. Text
Address. Line Two. Text
Address. Line Three. Text
Address. Line Four. Text
Address. Line Five. Text
Address. Plot Identification. Text
Address. Street Name. Text
Address. City Name. Text
Address. Attention Of. Text
Address. Care Of. Text
Address. Country. Identifier
Address. Type. Code
Address. City Sub-Division Name. Text
Address. Country Name. Text
Address. Country Sub-Division. Identifier
Address. Country Sub-Division Name. Text
Address. Description. Text

Documentation

Identifier	UN00000010
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Technical Properties

Type	
Length	
Fixed / Default	
FractionDigits / TotalDigits	
Inclusive	
Exclusive	
Pattern	
Whitespace	

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Protocoles d'application STEP



Part 201 - *Explicit draughting*. Simple 2D drawing geometry related to a product.

Part 202 - *Associative draughting*. 2D/3D drawing with association, but no product structure. Practically a subset of AP214.

Part 203: Configuration controlled 3D designs of mechanical parts and assemblies.

Mainly used for 3D design and product structure. A subset of AP214 but most widely used.

Part 204 - *Mechanical design using boundary representation*

Part 207 - *Sheet metal die planning and design*

Part 209 - *Composite and metallic structural analysis and related design*

Part 210 - Electronic assembly, interconnect and packaging design. The most complex and sophisticated STEP AP.

Part 212 - *Electro technical design and installation*. Designed as a complement for AP214, but not fully harmonized with it.

Part 214 - Core data for automotive mechanical design processes

Part 215 - *Ship arrangement*

Part 216 - *Ship moulded forms*

Part 218 - *Ship structures*

Part 219 - *Dimensional inspection information exchange*

Part 221 - *Functional data and their schematic representation for process plant*

Part 223 - *Exchange of design and manufacturing product information for cast parts*, currently on CD level

Part 224 - *Mechanical product definition for process plans using machining features*

Part 225 - *Building elements using explicit shape representation*

Part 227 - *Plant spatial configuration*

Part 232 - *Technical data packaging core information and exchange*

Part 233 - *Systems engineering data representation*

Part 235 - *Materials information for the design and verification of products*

Part 236 - *Furniture product data and project data*

Part 237 - *Fluid dynamics*

Part 238 - *Application interpreted model for computer numeric controllers*

Part 239 - *Product life cycle support*

Part 240 - *Process plans for machined products*

