

Vad händer med fordonsindustrins regelverk för e-Business

Kennert Roupé, Volvo IT
EDI & Business Integration Services
kennert.roupe@volvo.com

LET'S MAKE SURE.

Vad händer med fordonsindustrins regelverk för e-Business

- Global datamodell (Joint Automotive data Model)
- Riktlinjer för användning av XML
- Meddelanden i XML-format

LET'S MAKE SURE.

Main Modifications

- New Structure
 - Hierarchical model instead of Relational
 - Object oriented
 - Reduction of data qualifiers
 - Quantity and measure unit linked with measure unit attribute, i.e.
 - Previously
 - “Gross Weight”
 - “Gross Weight Unit Measure”
 - Now
 - “Gross Weight”
 - “Measure”
 - “Measure Unit Code”
 - Communication linked with the contacts
 - Addition of a new structured Address description

EDIFIX 5.0 - Professional - [Print Preview - [051 Hierarchy (Print version) [eod_r51L.rep]]

File Preview Window Help

Zoom: 100%

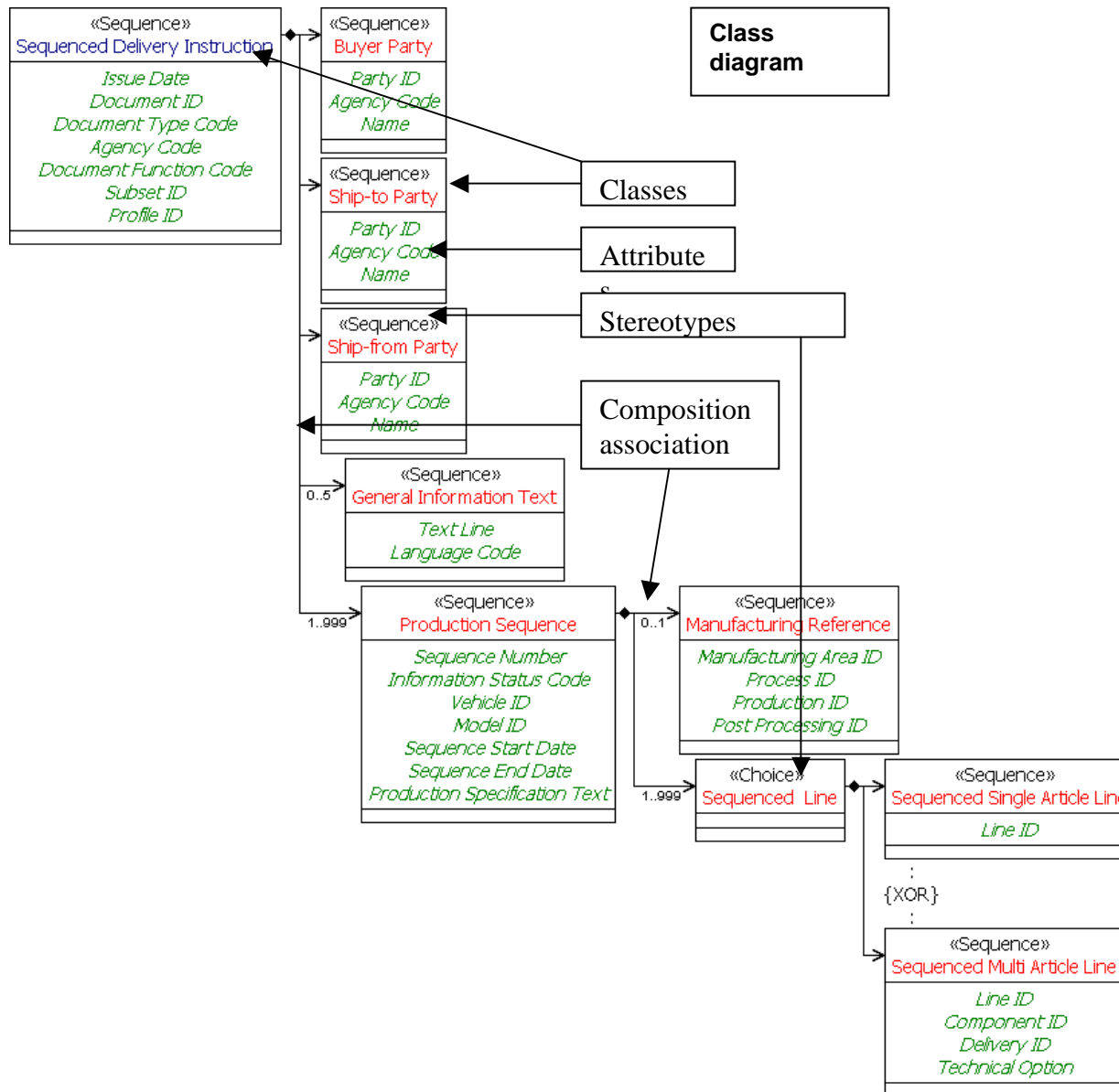
Data Model: Sequenced Delivery Instruction

Structure (short)

ODETTE

Class	Stereotype	Occurrence	Status
Sequenced Delivery Instruction	Sequence		
Buyer Party	Sequence	1 1	M
Address	Sequence	0 1	O
Accounting Contact	Sequence	0 1	O
Information Contact	Sequence	0 1	O
Purchase Contact	Sequence	0 1	O
Ship-to Party	Sequence	1 1	M
Address	Sequence	0 1	O
Information Contact	Sequence	0 1	O
Place Of Discharge	Sequence	0 1	O
Sub Location	Sequence	0 2	O
Internal Place Of Destination	Sequence	0 1	O
Sub Location	Sequence	0 2	O
Ship-from Party	Sequence	1 1	M
Address	Sequence	0 1	O
Expedition Contact	Sequence	0 1	O
Information Contact	Sequence	0 1	O
General Information Text	Sequence	0 5	O
Production Sequence	Sequence	1 999	M
Manufacturing Reference	Sequence	0 1	O
Sequenced Line	Choice	1 999	M
Sequenced Single Article Line	Sequence	1 1	M
Sequenced Single Article	Sequence	0 1	O
Article Identification	Sequence	1 unbounded	M
Article Description	Sequence	0 1	O
Technical Status	Sequence	0 1	O
Order Reference	Sequence	0 1	O
Place Of Discharge	Sequence	0 1	O
Sub Location	Sequence	0 2	O
Internal Place Of Destination	Sequence	0 1	O
Sub Location	Sequence	0 2	O
Handling Unit Details	Sequence	0 1	O
Schedule Details	Sequence	1 99	M
Delivery Period	Sequence	0 1	O
Scheduled Quantity	Sequence	0 1	O
Sequenced Multi Article Line	Sequence	1 1	M
Sequenced Multi Article	Sequence	1 99	M
Article Identification	Sequence	1 unbounded	M
Article Description	Sequence	0 1	O

100% Page 1



Main Modifications

- Entity / Class Modifications
 - New Names
 - Consignee → Ship-To
 - Consignor → Ship-From
 - Use of standard naming rules

Naming conventions

- (1) Purchase Contact, Party Type
- (2) Currency Code, Country Code
- (3) Container ID, Item ID
- (4) String..35, String2..3, String3
Integer..6, Decimal..15, Decimal..13_2

EDIFIX 5.0 - Professional - [Print Preview - [052 Description (Print version) (eod_r5qd.rep)]]

File Preview Window Help

Zoom: 75%

Data Model: Sequenced Delivery Instruction

Detailed Description

St	Occurrence	Class / Attribute	Annotations
		Profile ID	Previous model: Subpart Identification Number Code reference: Odetto: ODOC122 EDIFACT: Available codes are restricted to: Description: A00061 Odetto SYNCRO V581 Type: String, 17 Description: No description available in the Odetto model. Previous model: Registered Profile Identification, and Stereotype: Sequence Description: Party to whom merchandise and/or service is sold. Type: String, 20 Description: Unique identification of a party by an ID. Previous model: Buyer's Identification Number Type: Agency Code Description: Code specifying the agency responsible for a code list or identifier. Previous model: Buyer's Identification Number - Agency Code reference: Odetto: EDIFACT: 3055 Available codes are restricted to: Description: 6 ISO (International Organization for Standardization) Odetto: 10 European automotive industry organisation US, D&B (Dun & Bradstreet Corporation) 16 Identifies the Dun & Bradstreet Corporation, United States. 81 Assigned by seller or seller's agent Codes assigned by a seller or seller's agent. 92 Assigned by buyer or buyer's agent Codes assigned by a buyer or buyer's agent. 167 US, AIAA (Automotive Industry Action Group) United States Automotive Industry Action Group. 272 Joint Automotive Industry agency The Joint Automotive Industry (JAI) agency is in charge of code lists that are common to automotive industry groups.
M	1=1	Buyer Party	Attribute
M	1=1	Party ID	Attribute
M	1=1	Agency Code	Attribute
O	0..2	Name	Attribute
O	0..1	Address	Attribute
O	0..4	Street	Attribute

Joint Data Model Version: 1p0 Issue Date: 23.10.2003 Print Date: 25.11.2003 Page: 3

75% Page 3

Status and occurrence of classes and attributes

Class level

Attribute level

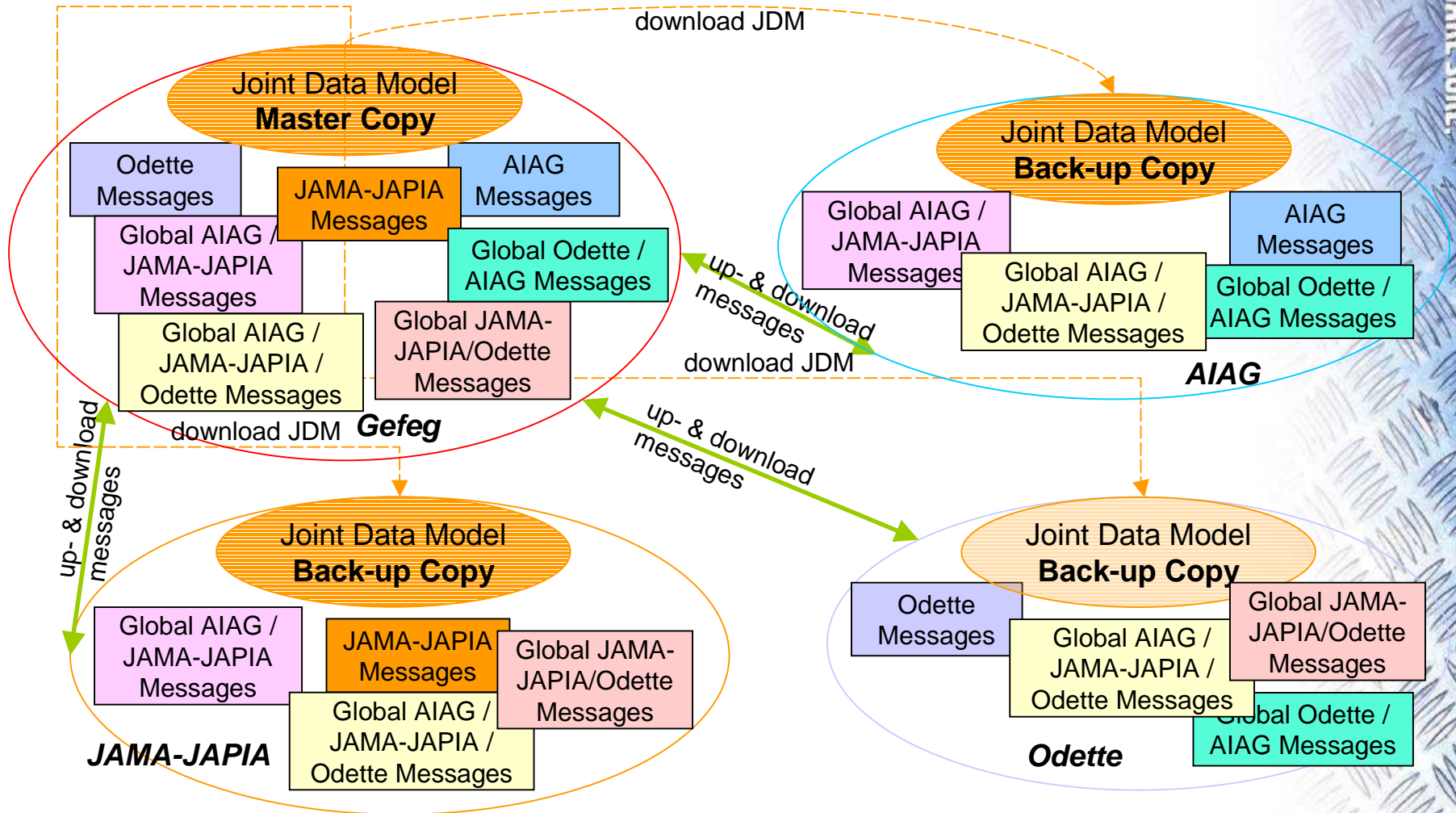
Applicable codes, code list identification

Name of the attribute in the previous model

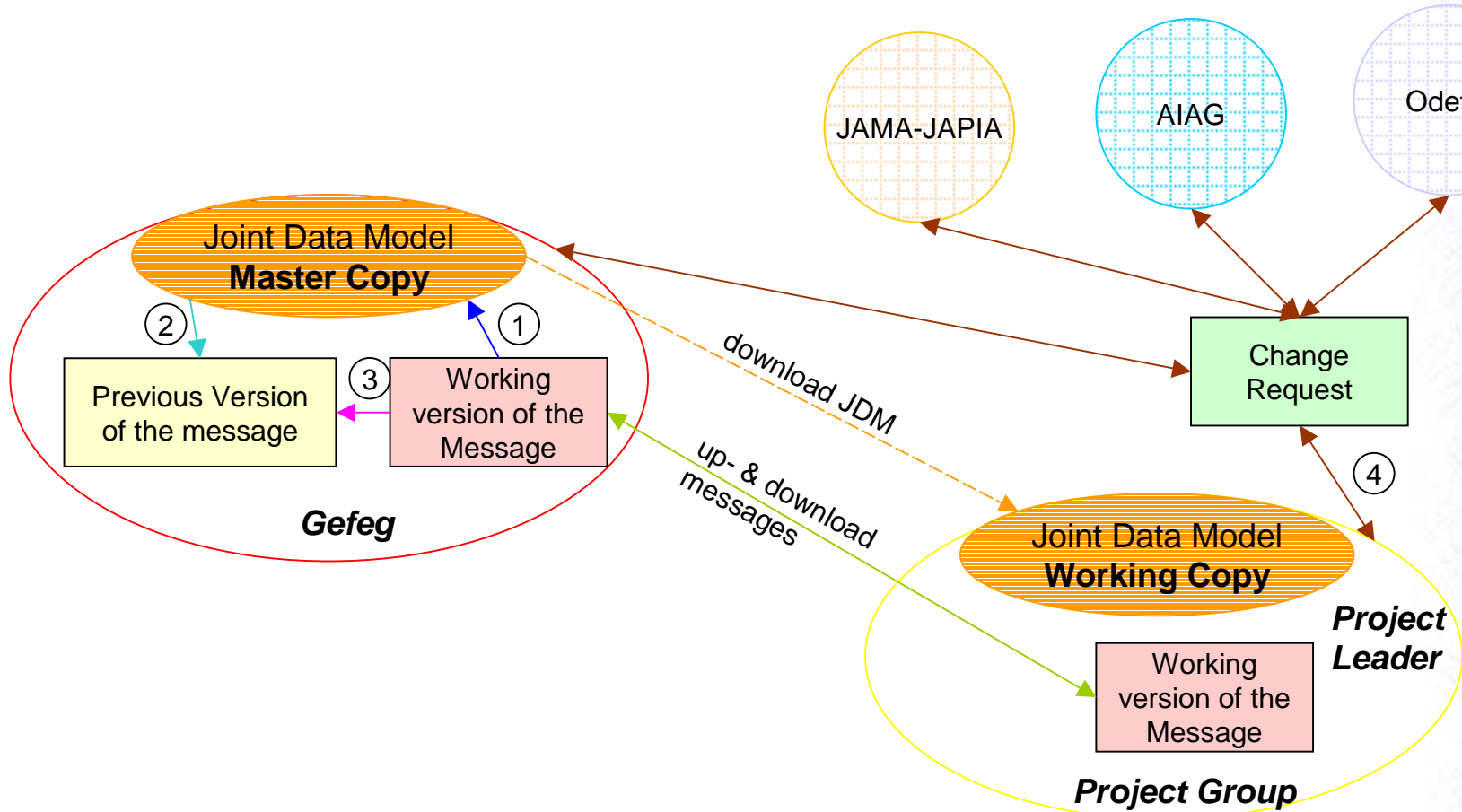
Work in Different Technical Environments

- Application of the new Odette XMI standard
After the development of an Odette XMI file standard, it is now possible to transfer the JADM and the messages that compose it to different compatible technical environments.
- Management of the Change Requests
Change Requests would be made in the new JADM. The DM and the messages once modified would be transferred to other technical environments by using XMI files.

Structure Overview



Message Project Organisation



Odette XML Group

Odette XML Project

- Project Leader: Patrick Chable PSA
- Odette: Germany (VDA), France (GALIA), CzechRepublic, Sweden, Spain
- OEM: BMW, DAIMLER CRHYSLER, PSA, Renault, Ford, Scania, Volvo
- Organisations: AIAG, OAGI, Eurofer

Odette XML Project

- Market places: COVISINT
- Software providers: GEFEG
- Consulting: Atos Origin, SEEBURGER

Contacts with other Odette Groups

Inside Odette:

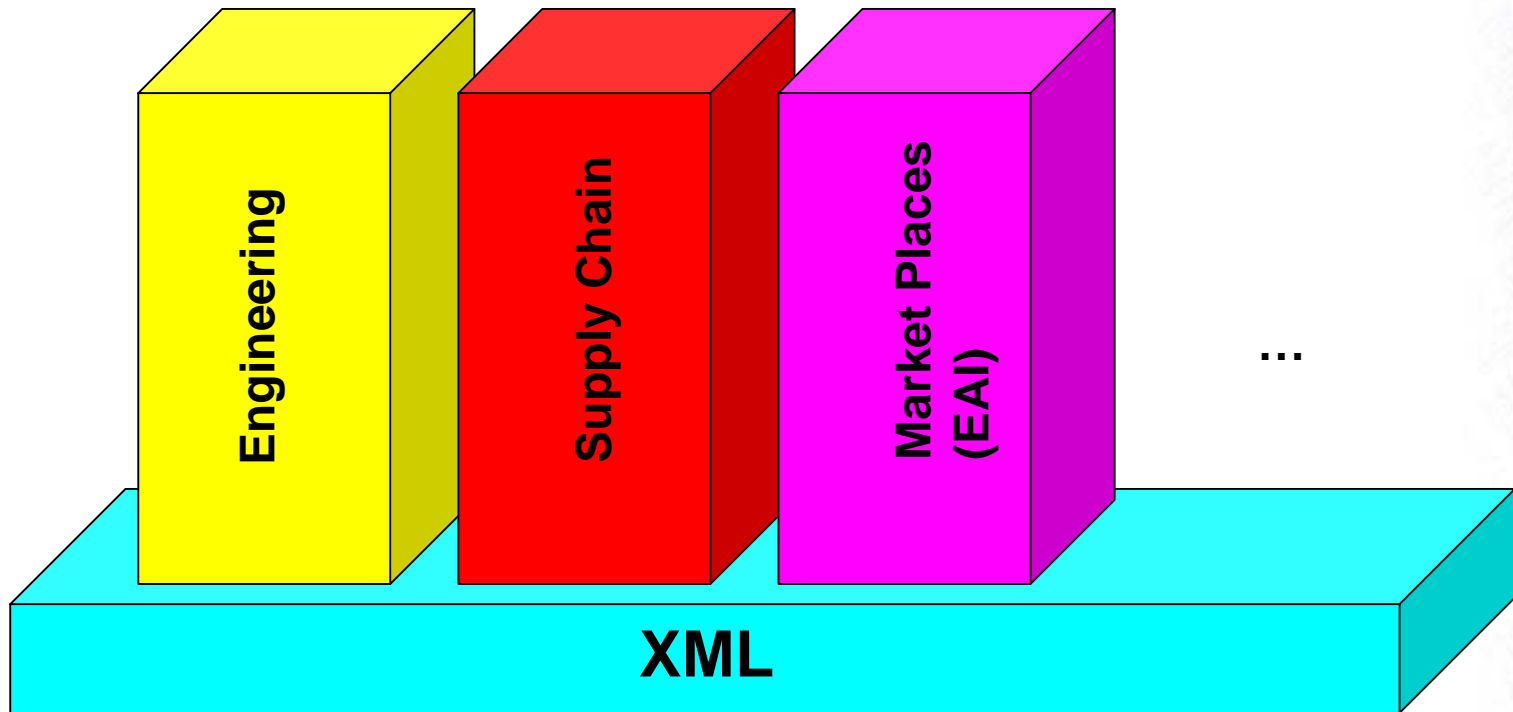
- Groups which may use XML (SCM)
- XMTD

Related Groups

- Odette liases with other industry groups
 - AIAG (Automotive Industry – USA)
 - Eurofer (Steel Industry – Europe)
 - CIDX (Chemistry – Europe)
- OAG (Open Applications Group – USA)

XML as a Foundation Technology

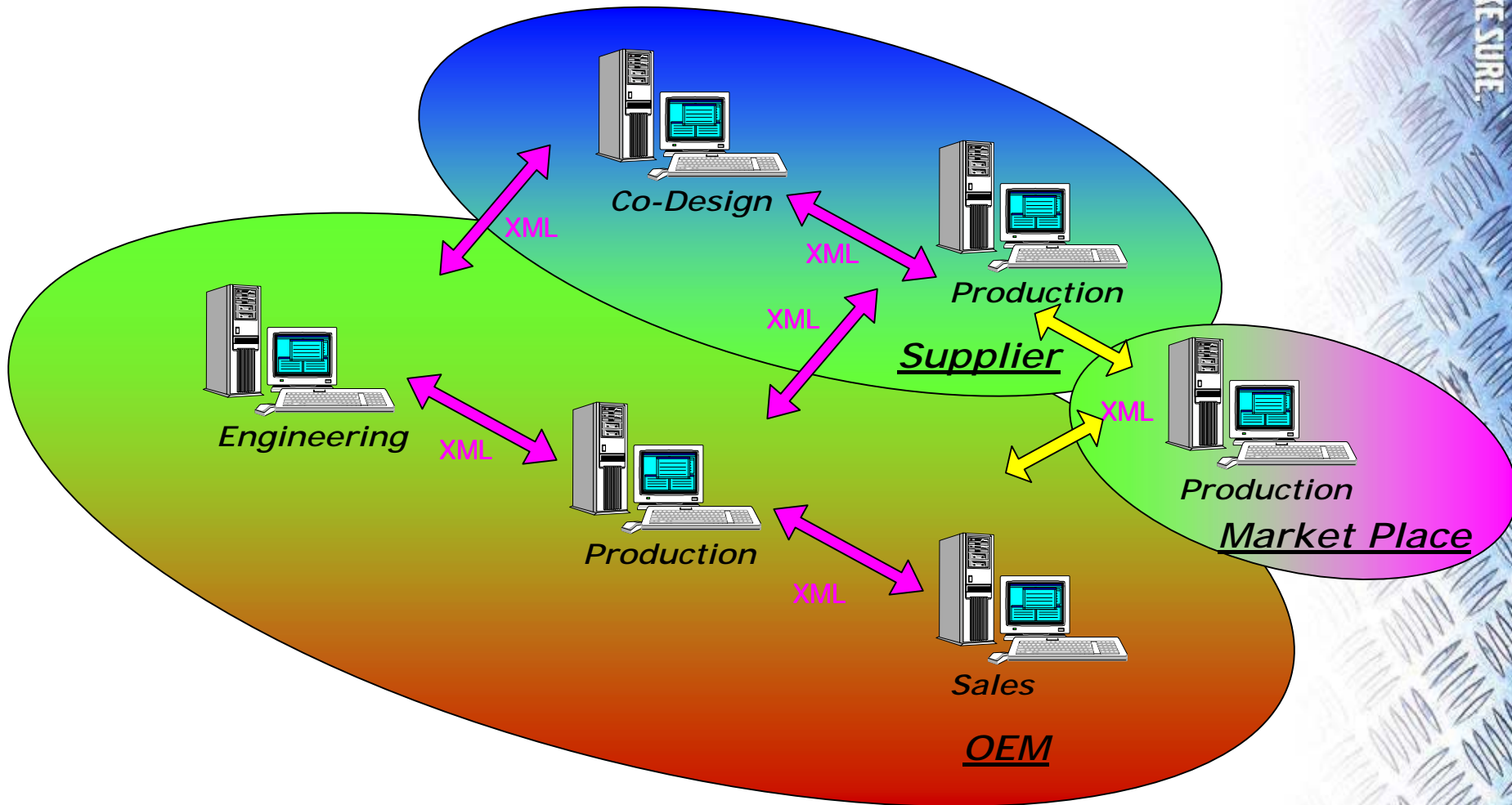
- Define a framework for all -



LET'S MAKE SURE.

Information System

Making the information flow



LET'S MAKE SURE.

Project objectives

Look for highest ROI for this technology for members through:

- Adapting of a joined datamodel (old Odette data-model with the Odette global data-model) based on unified design-rules
- Maintaining consistency of semantic content (business information) between old Odette EDIFACT messages and new XML messages

Estimated savings/benefits for members

XML has three advantages:

- Versatile
- Associated to other popular techniques (UML, Java)
- Low costs resources

As a consequence XML is spreading rapidly inside and outside companies.

Odette XML Project

Complement to EDI Messages

Will not replace existing EDIFACT Messages

XML messages

Global projects

All global messages in XML format

Pilot message SYNCRO/DELJIT

XMTD ENGDAT V3

User and Access Management