

EUDIN Messages

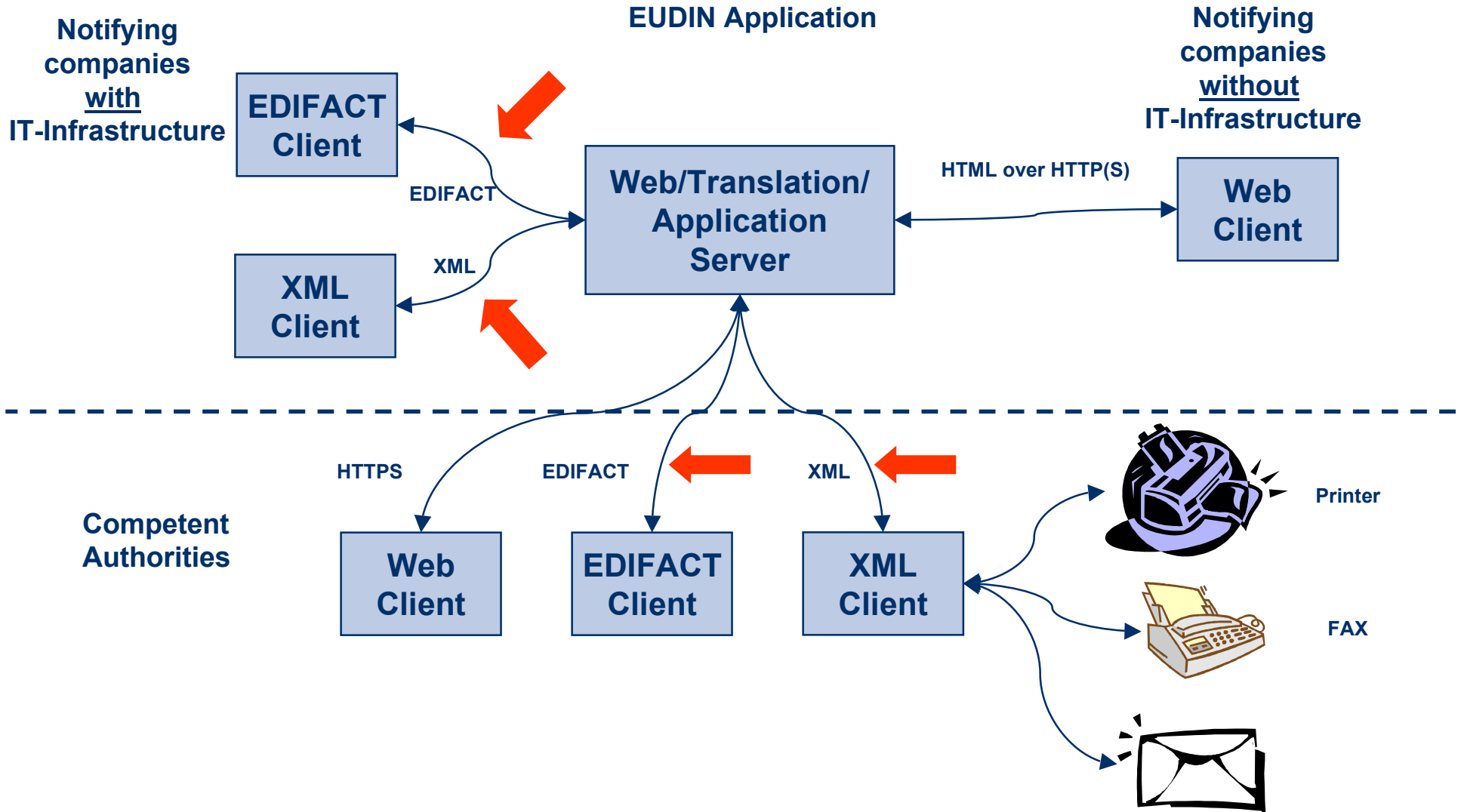
**First Steps Towards an International Standard in Waste Data
Interchange**

Cologne, 12.04.2002

Introduction

- The EUDIN project wants to establish a direct electronical communication path between public authorities responsible for supervision of waste streams and companies initiating and managing a transboundary waste transport
- EUDIN wants to include companies with frequent transboundary waste transports and an established in-house-IT-infrastructure as well as small companies with only a few transboundary transports per year. The same statement is valid for public authorities.
- The parties using the EUDIN systems shall NOT use different messaging mechanisms. The messages to be used within the EUDIN system shall be used between companies and authorities as well as among authorities.
- The EUDIN pilot project will focus on the movement document and exclude the general notification.

Message relations I



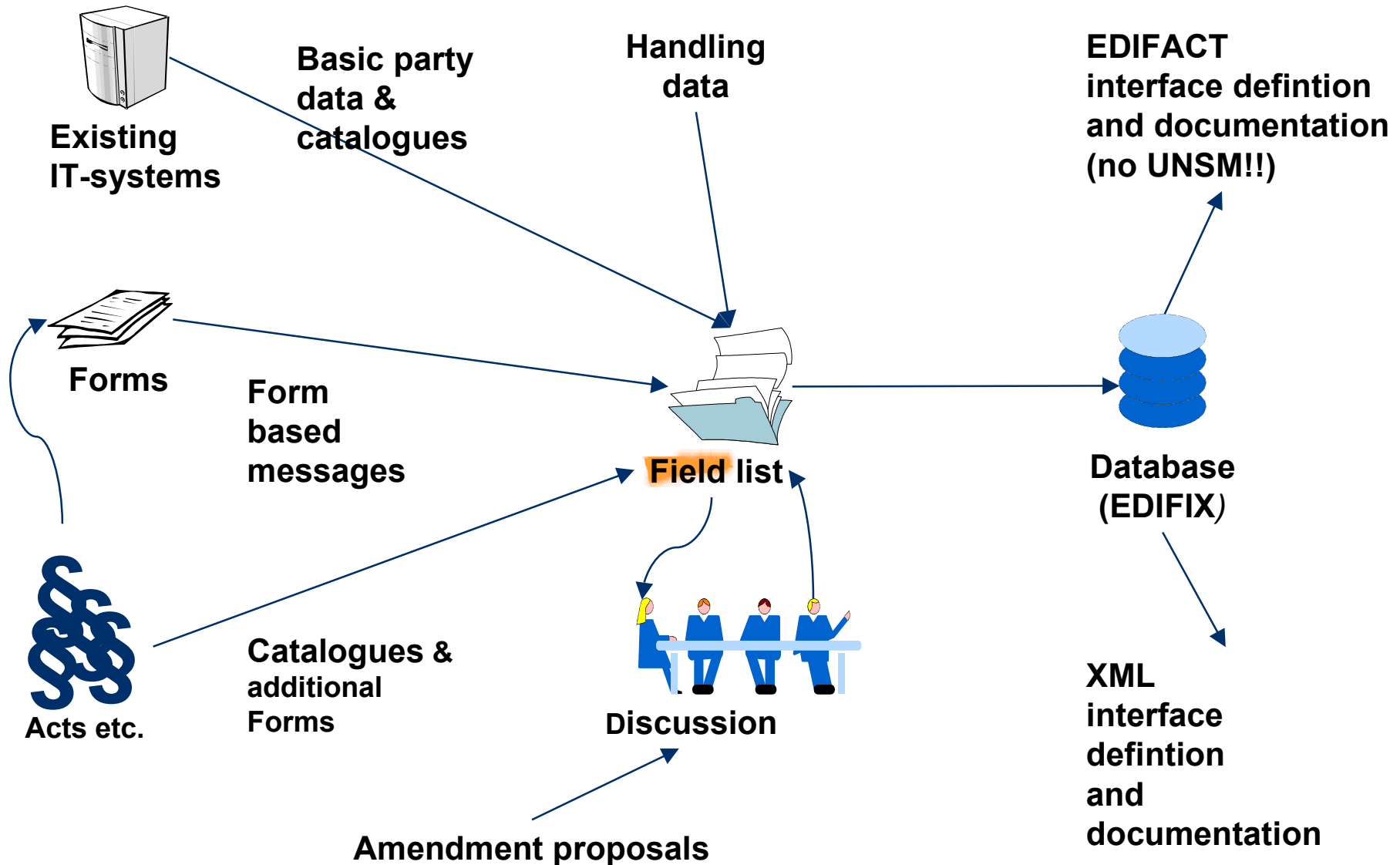
Message relations II

- Each participating entity in the EUDIN system **may** choose its favorite **messaging format** individually.
 - ▶ The EUDIN system will ,know‘ about the choice. A translation between EDIFACT and XML will be performed automatically.
- Each company **being obliged to notify, communicates only** once per notification via the EUDIN system. The EUDIN system will forward the notification to the **competent authorities** involved in the specific transport.
 - ▶ The notification will be sent to the competent authority of the country where the notifier is situated.
 - ▶ When the notification has been matched with the general notification and/or previous notifications and meets the needs of the competent authority, the latter releases the notification and EUDIN will forward it to further involved communication partners.

Message types

- **General notification:** Although not implemented in the EUDIN pilot project, a message covering the general notification is being developed
- **Movement document:** The movement document is meant to be used for three different types of notifications
 - ▶ **Pre-notification:** The waste transport has to be announced at least three days before departure. This message has to be sent in by the notifier.
 - ▶ **Post-notification:** The arrival of the waste on the treatment facility has to be declared within three days after arrival. This message has to be sent in by the consignee.
 - ▶ **Disposal-notification:** The disposal of the waste on the treatment facility has to be declared within 180 days after arrival. This message has to be sent in by the consignee.

The interface definition process



The field list

- The field list is the **core** of the interface definition
 - It defines the objects to be communicated
 - It defines the structures of the objects (i.e. nested repetitive groups of attributes)
 - It defines the attributes, their types and - in case of strings - their lengths
- Any **message**-incarnation (in EDIFACT or XML) has to be able to carry at least one complete object of the field list

Line #	attribute code	length	repetitive block	
Line code	type	documentation	form	
reference				
1212	VB014			
		Data of Movement Document (to be provided by notifying party)		
1213	VB015	vb_abfart	C 255 name and chemical composition of waste	VB 13
1214	VB016	vb_asn	C 8 EWC code	VB 15
1215	VB017	vb_oecdnr	C 6 OECD code	VB 16
1216	VB018	vb_oecdliste	C 8 OECD list color	VB 16
1217	VB019	vb_codebv	C 3 R/D-code	x1 VB 9
1218	VB020	vb_verfahrenbv	C 255 technology employed	x1 VB 9
1219	VB021	vb_anzahlverp	N 5 number of packages	VB 18
1220	VB022	vb_physik	N 2 physical properties (e.g. solid, fluid, dusty etc.)	x2 VB 14
1221	VB023	vb_codeaus	C 35 national code in country of export (several codes may be concatenated)	VB 15

The interface incarnations (EDIFACT and XML) I

- For the EUDIN system both **an EDIFACT and a XML** interface definition will be developed.
- The **EDIFACT** messages were derived from the field list objects, their structures and attributes. The attributes of the field list are mapped onto the segments of the EDIFACT messages.
- The **XML** interface definition will be derived from the EDIFACT messages. This task will be performed **by** use of the EDIFIX-tool. The result will be a XSD-scheme.
- Therefore both interface definitions **are equivalent** in structure and content and can be easily translated in both directions.

The interface incarnations (EDIFACT and XML) II

- **EDIFACT** is primarily attractive for those EUDIN users, who
 - ▶ already use EDIFACT or
 - ▶ will have frequent communication traffic with the EUDIN system

EDIFACT makes extensive use of coding of content. EDIFACT messages are compact and can't be compressed significantly.

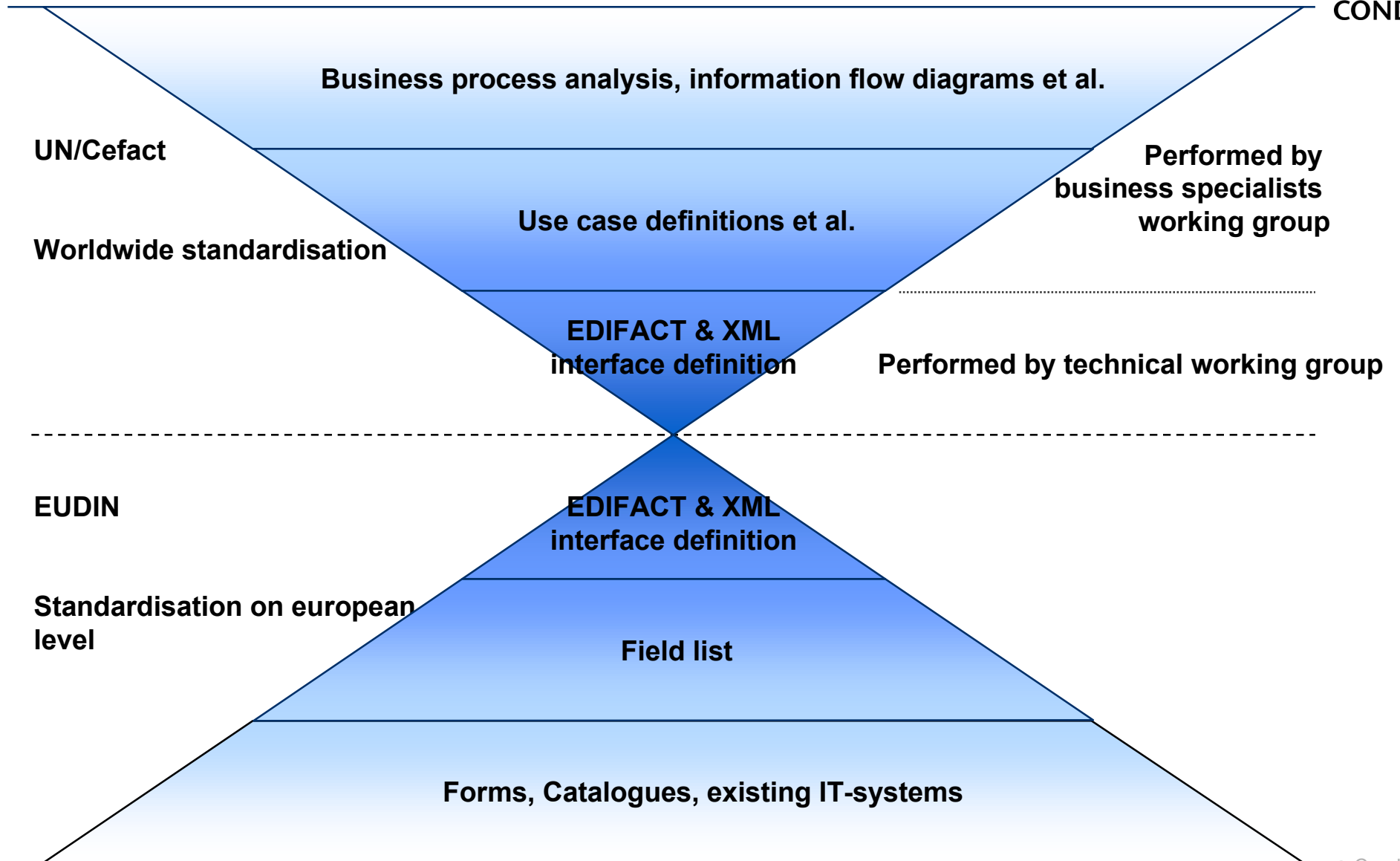
- **XML** is primarily attractive for those EUDIN users, who
 - ▶ don't use EDIFACT or
 - ▶ already use XML and
 - ▶ won't have a high volume data exchange with the EUDIN system

XML is supported by various standard software packages. XML development tools are available at low or even no cost.

International Standardisation



CONDAT



Thank you for your attention!

Discussion