



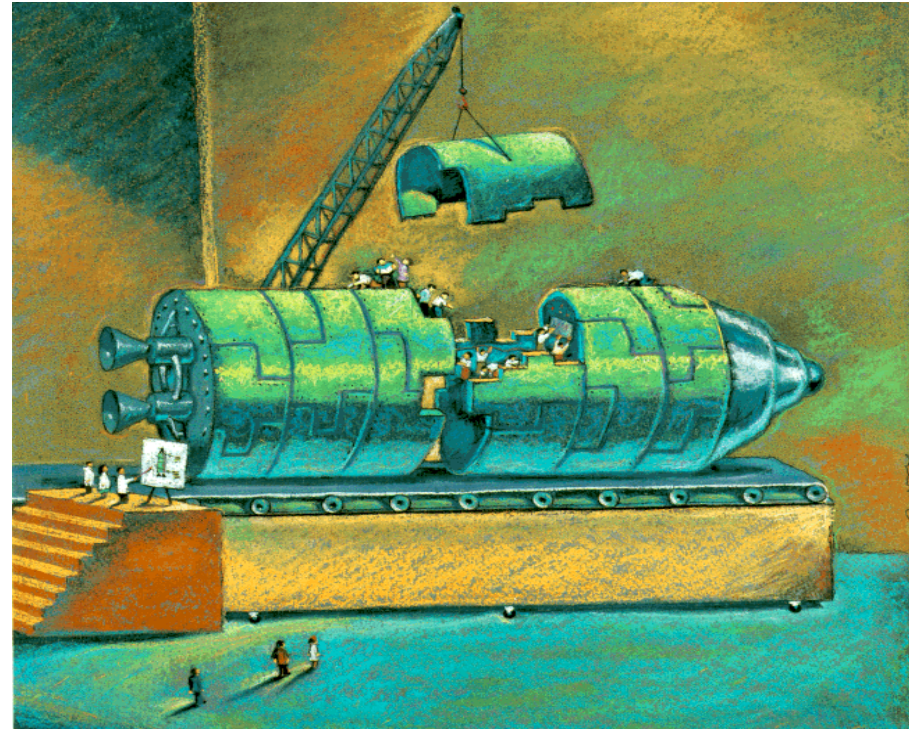
Multiple Messaging Systems

Material Composition Workshop

August 30, 2004

B2B Integration Challenges

- RosettaNet (RNIF) Software and the required infrastructure is expensive
- RNIF requires a 7x24x365 presence on the web
- External web presence requires a DMZ – firewalls, routers, security programming
- A stable Internet connection is required – high quality of service



As a result of these technical issues and complexity of B2B, many small and medium sized companies cannot participate in a B2B integration.

MMS Expected Output

Specify precisely how to configure an implementation of:

WS-I (web services)

AS/2 (EDI)

ebMS (OASIS)

commercially available, non-RNIF messaging handling system for transporting RosettaNet PIP business messages between trading partners in reference to an Abstract Messaging Definition.

Value and Challenges

Value Proposition

- **Lower the costs of adoption of RosettaNet PIPs by leveraging very widely-used protocols already in place**
- **Broader, appeal for using RosettaNet PIPs in other vertical industries outside of high-tech**
- **Alignment with leading standards for messaging and transport, rather than defining another version of RNIF**

Addressing B2B Challenges

- **Other messaging handling systems may cost less to implement as the software is more pervasive and the infrastructure less demanding**
- **Other messaging handling systems allow for intermittent connectivity accommodating lower quality of service**
- **Other message handling systems are more optimal for larger PIPs and larger volumes of transactions than RNIF**

Abstract Message Definition (AMD)

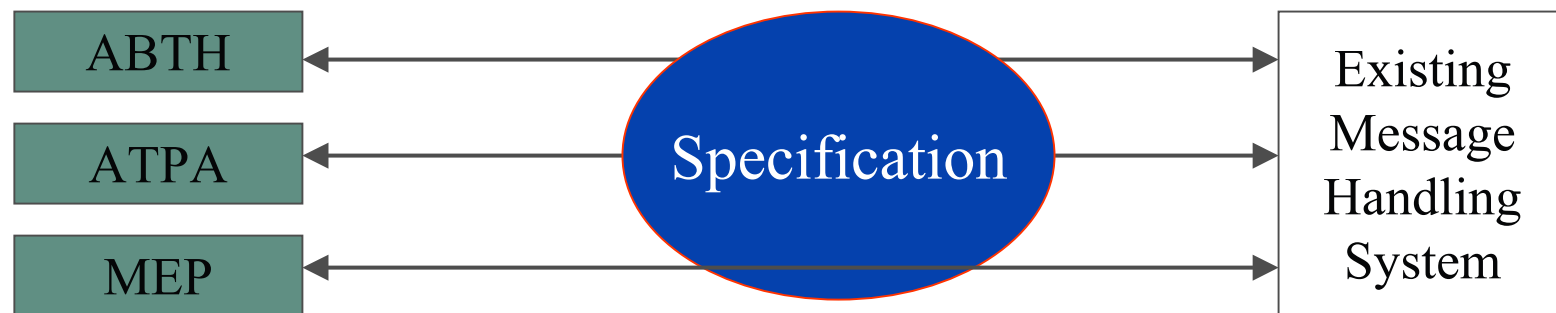
An Abstract Messaging Definition (AMD) is a compendium of messaging capabilities to transport RosettaNet business messages under all trading conditions, including abstract messaging features, processes and the sequences of specific processes.

The purpose of the AMD is to facilitate the mapping from features that are available in any specific messaging system but also to identify precisely any features that are not available to be mapped to AMD.

This mapping is used as a basis for precisely defining how to use the particular messaging system to transport PIPs and how the RosettaNet partner interface process is maintained.

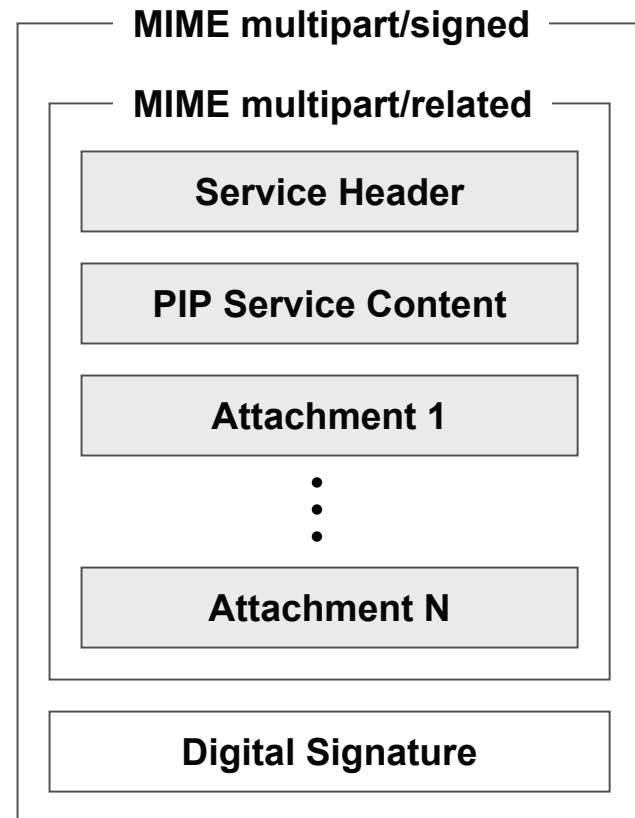
Key Components of the AMD

- Abstract Business Transport Header (ABTH)
 - Define any element(s) that should be carried in the payload service header to support messaging.
- Abstract Trading Partner Agreement (ATPA)
 - Identifies the specific messaging capabilities required to transport business messages between two trading partners under their particular trading conditions.
- Message Exchange Patterns (MEP)
 - Define the sequences and semantics of action and signals in the asynchronous mode along with error handling



The RosettaNet Payload Container

- The objective is to transfer the PIP payload container as it is defined in the RNIF 2.0 specification
- This must includes the MIME packaging
- Encryption of the content or the entire payload
- Digitally signing the payload
- Compression



Multiple Messaging Services

Summary

- MMS is an active RosettaNet program that will **leverage** existing message handling systems (web services, AS/2, ebMS) to enable RosettaNet Partner Interface Processes (PIPs)
- Other message handling systems offer vastly different **economics and connectivity** options than the RosettaNet Implementation Framework (RNIF) version 2.0
- This program has remarkable **support** from Solution Providers as well as some Supply Chain companies. RosettaNet will proceed to design and implementation after a vote at the council meeting in October.
- **Interested** in benefiting from this program or joining in the fun? Please contact Mark Schenecker (mschenecker@e2open.com)