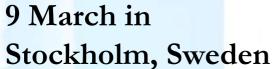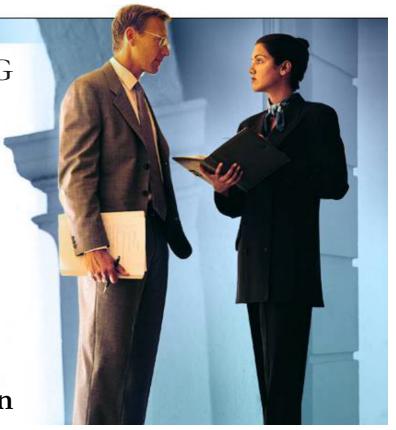# First International Workshop on UN/CEFACT Modeling Methodology

- Technical Track

UML and other OMG
technologies
in a standardization
environment

**9 March in
Stockholm, Sweden**

Introduction

UN/CEFACT develops and promotes a technology and implementation neutral approach to make the international trade and business easier and simpler in an electronic environment. In order to realize this goal, UN/CEFACT has performed R&D in information and communication technology (ICT) and adopted new approaches to trade facilitation based on simplification and harmonization of business processes. The wide scope of knowledge and business semantic is captured in *business collaboration models*, containing all user requirements related to *legal aspects*, *business processes*, the associated *business information* exchanges based on the core component technology and associated recommendations. Thus providing a solid infrastructure and instrument to support current and future trade facilitation requirements. This is the most valuable result from UN/CEFACT, which will become one of the important parts in powering the B2B for the next few years. The UN/CEFACT Modeling Methodology (UMM) is one of several instruments that are constructed for requirements capturing, modeling of collaborative business processes from business, formal and technical perspectives.UMM is based on UML and related technologies.

Workshop focus

In this technical track of the workshop series the role of MOF and UML technologies for standardization of collaborative business processes and business information is addressed. The program committee is inviting UML vendors to discuss interoperability aspects of using MOF, UML, XMI and OCL technologies.

Department of
Computer and Systems Sciences

SWEDISH
INSTITUTE OF
COMPUTER
SCIENCE

SICS

**UN/CEFACT TMG
Techniques and Methodologies Group**

TOOL
SMITHS

UML and other OMG technologies in a standardization environment

PROGRAM

Introduction:
The workshop is organized by three universities and research organizations with the goal of increasing awareness, knowledge of and research topics related to methodologies and technologies used for international standardization, primarily the UMM. The empowered group behind UMM, the Techniques and Methodology Group (TMG), is assisting the program committee in order to identify relevant topics and knowledge areas.

Format
The one-day schedule begins with a series of presentations in the morning. These presentations are intended to focus on the generalized topics and expertise of the speakers. The afternoon sessions will leverage the speakers' ideas with those of other participants, first of all in topic oriented sessions aimed at specific subtopics and then subsequently in a panel session where all of the workshop ideas and principles will be aired.

Target audience:
IT Professionals, IT-architects and researchers with an interest in technical topics in the area of electronic commerce and standardization,UML specialists and UML tool vendors.

UN/CEFACT Modeling Methodology (UMM)
is based on UML. Its goals is to be able to capture fundamental technology neutral aspects of eCommerce and to support multiple process- and information modeling styles.UMM allows many implementation technologies through separation of concerns: mappings from Business Operations View to the Functional Service View.

08.30 - 09.00 Registration and coffee

09.00 - 09.15 Introduction
Welcome and administrative matter from the organizing commitee.

09.15 - 12.00 Application of current and upcoming OMG technologies

- Introduction to UN/CEFACT Modeling Methodologies (UMM)
- Semantical Interoperability
- Conformance and interoperability
- UML 2.0
- OCL vs Business Rules

12.00 - 13.30 Lunch

13.30 - 15.30 Topic oriented discussion on Interoperability

Topics:
- Requirements for interoperable and precise MOF/UML Models.
- Reusability aspects of XMI and XML components,fragments.
- Which configurations of XMI are needed for interoperability ?
- How should meta model well-formedness rules be formulated and enforced?
- Is UML 2.0 ready for use in standardization today?
- What parts of UML2 are suitable for use when defining collaborative processes?

16.00 - 17.30 Panel discussion

17.30 - 18.00 Concluding remarks

Registration:
Registration must be made to the Organizing Commitee due to limited availability of seats.
Fees
The workshop is free for TMG members, invited UML vendors, speakers.
Registered participants 100 USD.
Un-registered guests the fee is 200 USD per workshop day.

THE ORGANIZERS
The workshops are organized by Department of Computer and Systems Sciences (Stockholm University, Royal Institute of Technology), Swedish Institute of Computer Science, UN/CEFACT Techniques and Methodologies Group (TMG) and Financial Toolsmiths AB.
Organizing Committee
Professor Paul Johannesson, DSV, <pajo@dsv.su.se>
Anders W. Tell, Financial Toolsmiths, <anderst@toolsmiths.se>
Olle Olsson, SICS, <olleo@sics.se>

Logistics:
Time: 9 March, 2005, 8.30-18.00
Place: Department of Computer and Systems Sciences, KTH, Room C, floor 4
Isafjordsgatan 39, Kista, Sweden

Getting there: <http://www.dsv.su.se/eng/om_dsv/hittahit.html>
Recommended hotel in Kista:
<http://www.ibishotel.com/ibis/fichehotel/gb/ibi/3121/fiche_hotel.shtml>
Hotels near Stockholm city center:
<http://www.destination-stockholm.com/>
Links: UNCEFACT: < www.uncefact.org>

Program Committee
Anders W. Tell, TMG
Professor Paul Johannesson
Professor Christian Huemer
Steve Capell, Project team lead, BCSS project

The workshop sessions are conducted in English language.

First International Workshop on UN/CEFACT Modeling Methodology

- Business Track

UMM, Business Collaboration modeling and Trade facilitation

10 March in Stockholm, Sweden

Introduction

UN/CEFACT develops and promotes a technology and implementation neutral approach to make the international trade and business easier and simpler in an electronic environment. In order to realize this goal, UN/CEFACT has performed R&D in information and communication technology (ICT) and adopted new approaches to trade facilitation based on simplification and harmonization of business processes. The wide scope of knowledge and business semantics is captured in *business collaboration models* ,containing all user requirements related to *legal aspects, business processes*, the associated *business information* exchanges based on the core component technology and associated recommendations. Thus providing a solid infrastructure and instrument to support current and future trade facilitation requirements. This is the most valuable result from UN/CEFACT, which will become one of the important parts in powering the B2B for the next few years. The UN/CEFACT Modeling Methodology (UMM) is one of several instruments that are constructed for requirements capturing, modeling of collaborative business processes from business. formal and technical perspectives.UMM is based on UML and related technologies.

Workshop focus

In this business track of the workshop series, the role of modeling collaborative processes and eCommerce is addressed. UMM and other frameworks are explored in relation to global eCommerce and trade facilitation.

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UMM, Business Collaboration modeling and Trade facilitation

PROGRAM

Introduction:
The workshop is organized by three universities and research organizations with the goal of increasing awareness, knowledge of and research topics related to methodologies and technologies used for international standardization, primarily the UMM. The empowered group behind UMM, the Techniques and Methodology Group (TMG), is assisting the program committee in order to identify relevant topics and knowledge areas.

Format
The one-day schedule begins with a series of presentations in the morning. These presentations are intended to focus on the generalized topics and expertise of the speakers. The afternoon sessions will leverage the speakers' ideas with those of other participants, first of all in topic oriented sessions aimed at specific subtopics and then subsequently in a panel session where all of the workshop ideas and principles will be aired.

Target audience:
Business, Legal and other Professionals with an interest in formal and methodological topics in the area of electronic commerce and standardization, researchers in the area of business processes and e-commerce.

UN/CEFACT Modeling Methodology (UMM)
is a framework for capturing fundamental technology neutral aspects of collaborative processes commonly occuring in international trade and eCommerce. UMM supports multiple process- and information modeling styles. The UMM foundation is mainly driven by business requirements from business domains groups. UMM allows many implementation technologies through separation of concerns: Mappings from Business Operations View to the Functional Service View.

08.30 - 09.00 Registration and coffee

09.00 - 09.15 Introduction
Welcome and administrative matter from the organizing commitee.

09.15 - 12.00 UMM, Business Collaboration modeling
- Challanges to eCommerce and Trade facilitation
- Introduction to UN/CEFACT Modeling Methodology (UMM)
- Survey of experiences using UMM, lessons learnt
- Presentations of process- and informationmodeling frameworks. Experiences with formal modeling of collaborative processes
- Distributed information modeling, extensions and versioning

12.00 - 13.30 Lunch

13.30 - 15.30 Topic oriented discussions
- Formalism vs pragmatism
- Types of business requirments
- What elements are part of a best practices methodology?
- Long-term management of collaborative models and business information libraries

16.00 - 17.30 Panel discussion

17.30 - 18.00 Concluding remarks

Registration:
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Fees
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Links: UNCEFACT: < www.uncefact.org>

Program Committee
Anders W. Tell, TMG
Professor Paul Johannesson
Professor Christian Huemer

The workshop sessions are conducted in English language.

Invitation / Request for information

UN/CEFACT develops and promotes a technology and implementation neutral approach to make the international trade and business easier and simpler in an electronic environment. In order to realize this goal, UN/CEFACT researched in information and communication technology (ICT) and adopted new approaches to trade facilitation based on simplification and harmonization of business processes. The vast breadth of knowledge and business semantic is captured in business collaboration models (containing all user requirements related to legal aspects, business processes, the associated business information exchanges based on the recommendations providing a solid infrastructure and instrument to support current and future trade facilitation requirements. This is the most valuable content from UN/CEFACT, which will become one of the important parts in powering the B2B for the next view years. <www.uncefact.org>.

UN/CEFACT is the international standards body that is responsible for e-business standards such as EDIFACT, the most widely used business document standard in use today. As part of the support for a continous technology evolution, UN/CEFACT has developed a technology neutral and model driven approach to the development of business information and process standards. Functional services and deployment technologies such as EDIFACT, ebXML, and Web Services can be generated from models and libraries. UN/CEFACTs' existing library of business semantics, and all new work will be represented as business collaboration models.

Gartner predicts that 2007 will be a boom in B2B trading efficiencies in which the semantic B2B standards will play a primary role.[1] Especially the software industry recognizes more and more the emergence of semantic B2B standards. UN/CEFACT will play an integral role in that boom, because UN/CEFACT has all prerequisites for it. This will be only guaranteed if the common semantic techniques and methodology instruments for realizing the collaborative content of UN/CEFACT can be applied by many different modelling and implementation tools.

The Techniques and Methodologies Group (TMG) is an empowered group in UN/CEFACT with the task of developing these techniques and methodology instruments for trade facilitation. The UN/CEFACT Modeling Methodology (UMM) and Core Component Technical Specification (CCTS) are such instruments for collaborative modeling of business processes and business data and it is based on UML/OCL. On top of UMM a number of domains specific profiles are being developed.

In TMG a project BCSS has been started which seeks to standardize the storage of interoperable and precise UMM Models. In this process we seek the expert advice of UML tool vendors in order to be able to make relevant decisions regarding interchange format principles. A number issues need to be discussed and then decided upon. Here a few key issues that needs to be addressed:

- General requirements for interoperable and precise MOF/UML Models.
- Which MOF, UML, OCL and XMI versions should UMM models be based on?
- Which configurations of XMI are needed?
- How should meta model well formdness rules and business rules be formulated?
- Is UML 2.0, ready today, for use by standardization organizations?

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[1] Gartner Presentation: "Time Well Spent: Web Services Mature More"; Charles Abrams, Daryl Plummer; Nov. 2004

In order to facilitate the flow of information we invite UML tools vendors to the following events
- UMM Workshop and its technical track which is MOF/UML/OCL/XMI oriented.
  Date: 9 March in Kista, Stockholm.
- UN/CEFACT Forum meeting in Kuala Lumpur
  Date: 14-18 March, in Kuala Lumpur

At both of the events the application by UN/CEFACT of MOF/UML/OCL/XMI and other OMG technologies will be discussed.

Interested persons and organizations should contact any TMG or BCSS representative for more information.

/Anders W. Tell, Vice chair TMG, <anderst@toolsmiths.se>
/Steve Capell, Project team lead BCSS project <Steve.capell@redwahoo.com>

If you wish to join one or more of TMG projects please contact the TMG Secretary Jim Wilson via email at <jim.wilson@kcx.com>. Please name all the projects you are willing to join. If you have not been a TMG member please provide the following additional information:

- Delegation
- Organization/Company Name and postal address
- Contact voice phone number
- Contact e-mail

If you are not a part of a UN/CEFACT delegation please contact your national delegation or Jim Wilson for information.

TMG Executives

Gunther Stuhec, Chair TMG	Christian Huemer, Vice chair TMG	Anders W. Tell, Vice chair TMG
<gunther.stuhec@sap.com>	<ch@mminf.univie.ac.at>	<anderst@toolsmiths.se>