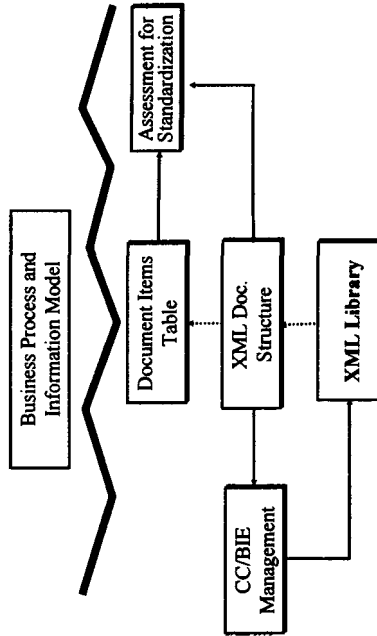


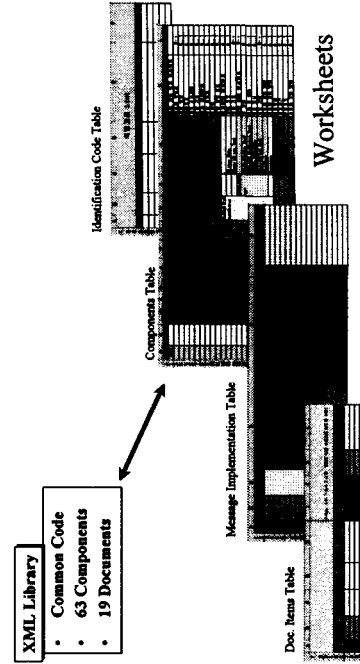
I. Analysis of Current Status



(2)

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XML Library



(4)

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Development and Evaluation of Standard Electronic Documents Based on Conceptual-level Information Models

2004.2.26

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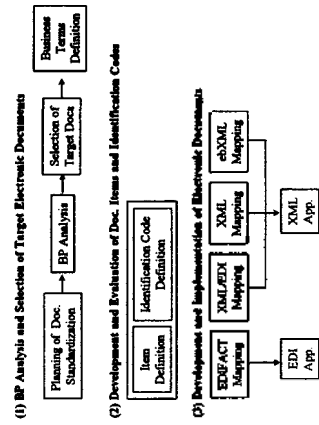
(1)

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Development Guidelines for XML Documents

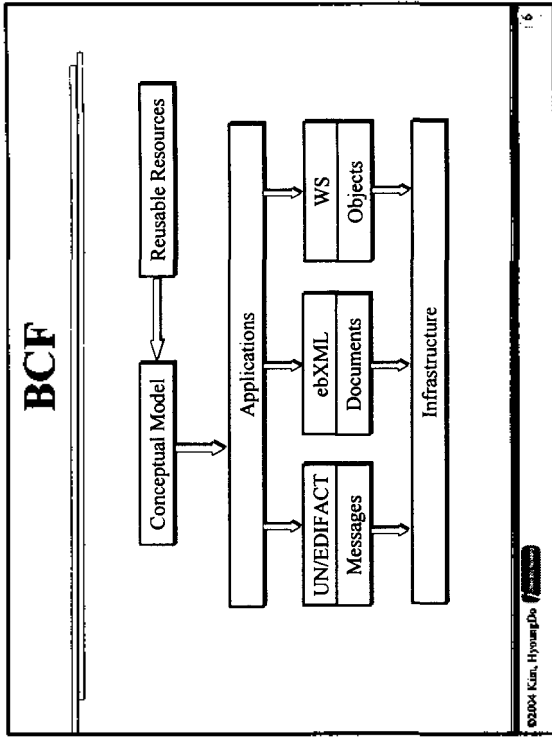
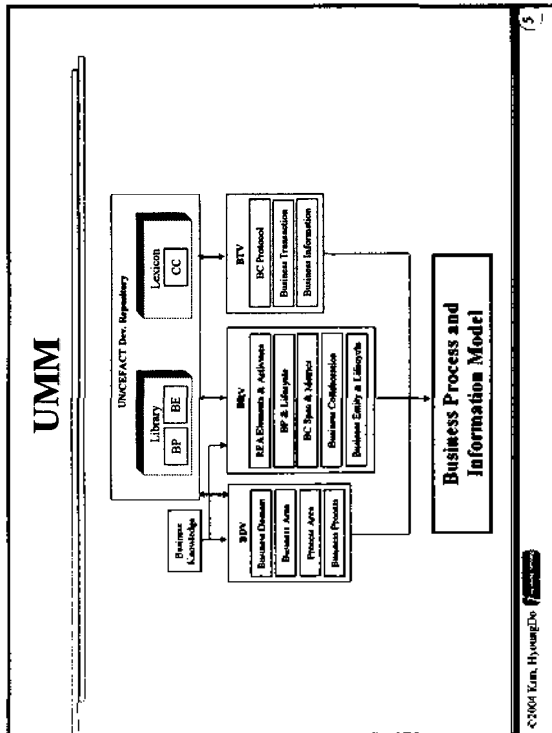
General Rules

- Naming Rules for XML Tags
- UID Assignment Rules
- Namespace Assignment Rules
- Rules for Extending Messages/Components
- Rule for Component Grouping
- Rules for Assigning the Maximum Length of BIE values

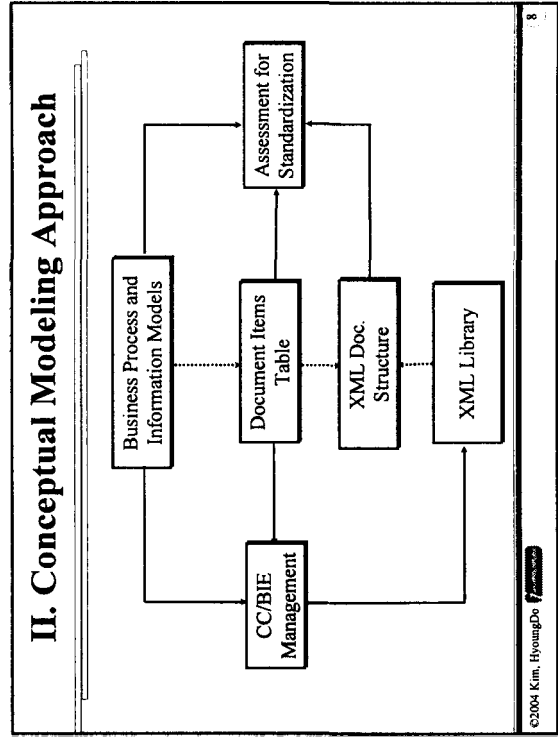


(3)

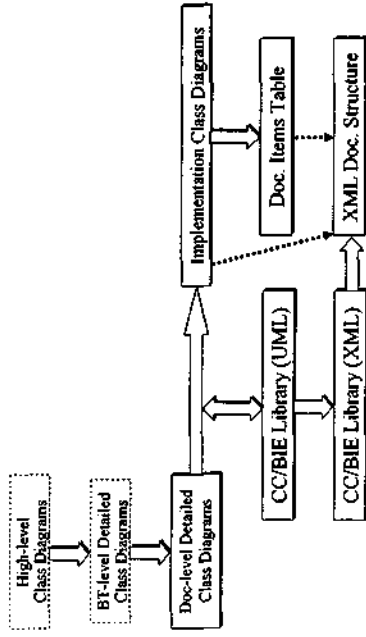
©2004 Kim, HyoungDo



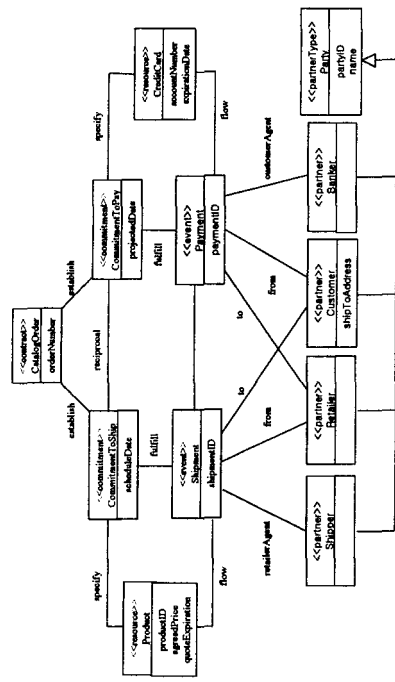
- ### Issues
- Bottom-up v.s. Top-down Development & Evaluation
 - Syntax-Directed v.s. Conceptual Modeling
 - Reusing and Easy Understanding
 - User friendliness and Concrete Rules
 - No Aligned Rules and Guidelines for Developing Document Structures from Conceptual Information Models
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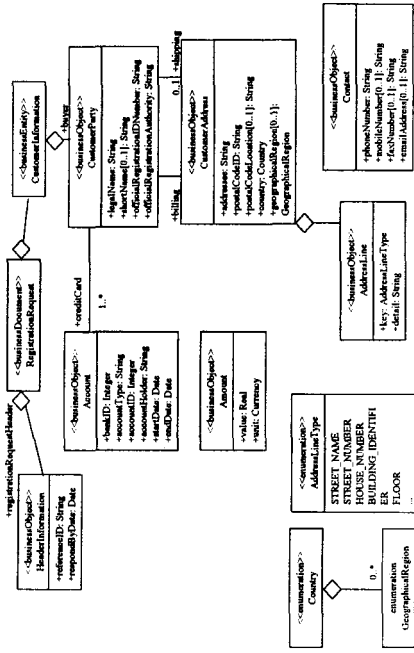
Conceptual Modeling Architecture



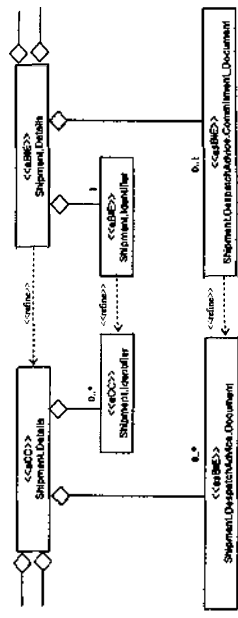
High-level Class Diagrams



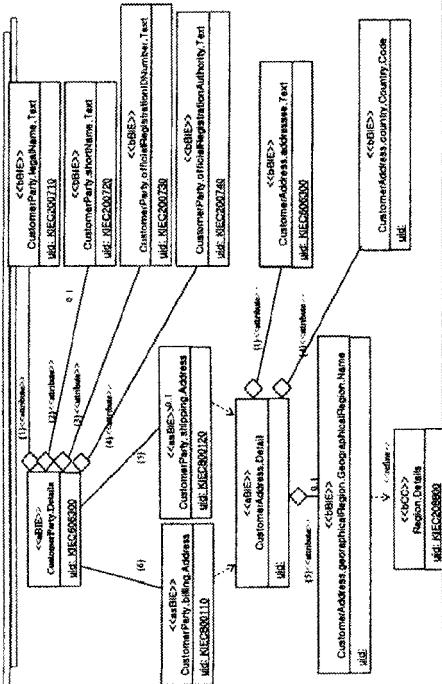
Detailed Class Diagrams



CC/BIE Diagrams



Implementation Class Diagram



Developing Doc Items Table

Item No.	Group	Item No.	Item Name	Definition	Value Type	Min. Req.	Max. Req.	Min. Value Length	Max. Value Length	Related Code Table
001	Header	Header	Header			1	1			
002	Header	Header	Header			1	1			
003	Header	Header	Header			1	1			
004	Header	Header	Header			1	1			
005	Header	Header	Header			1	1			
006	Header	Header	Header			1	1			
007	Header	Header	Header			1	1			
008	Header	Header	Header			1	1			
009	Header	Header	Header			1	1			

Concluding Remarks

- Developing a Practical Guideline for the Conceptual Modeling Approach
 - A Guideline for Developing Electronic Document Structure Based on Business Process and Information Model (ECIF 2004:0)
- Future Research and Development
 - Rules for Mapping Implementation Class Diagrams to Electronic Document Structures (DTD, XML Schema, EDI, ...)
 - Supporting Tools for Alleviating Additional Modeling Overloads
 - Reflecting the Results into the Reality

Q&A

