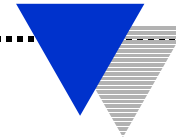


Joint Submission by:
CBOP, Data Access Technologies, EDS,
Fujitsu, Iona, Open-IT, Sun Microsystems

Supported by:
Hitachi, SINTEF, netAccount
ad/01-02-19



Submission authors

Open-IT (Parts I, II) - Sandy Tyndale-Biscoe, Bryan Wood

Data Access Technologies (Part IIIa) - Cory Casanave, Antonio Carrasco-Valero

EDS (Part IIIb) - Fred Cummins

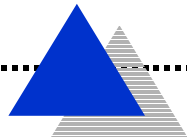
Sun Microsystems (Part IIIc) - Karsten Riemer

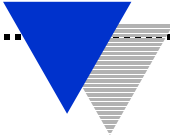
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Iona (Parts IIId, IIIe) - David Zenie, Haim Kilov

SINTEF (Part IV) - Arne Berre

CBOP (Part V) - Hajime Horiuchi

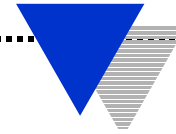




Our message

- **ECA Submission, with DCP, is a complete solution to the EDOC problem**
- **Aim is to simplify (somewhat) before final submission**
- **Review by example - we look for feedback**
 - We want to sign up supporters
 - We want to get this finished
- **UML is used “out of the box” - based on Collaborations, ActivityGraphs and Subsystems**
- **ECA is a pattern for MDA**

“Pattern” for the MDA



ECA

Events (IIIc)

Entities (IIIb)

Process (IIId)

CCA (IIIa)

Relationships (IIIe)

Integration -
viewpoints (II)

Patterns (V)

Platform Independent Models

Technology
mappings
(IV)

DCP

CORBA
Technology

EJB
Technology

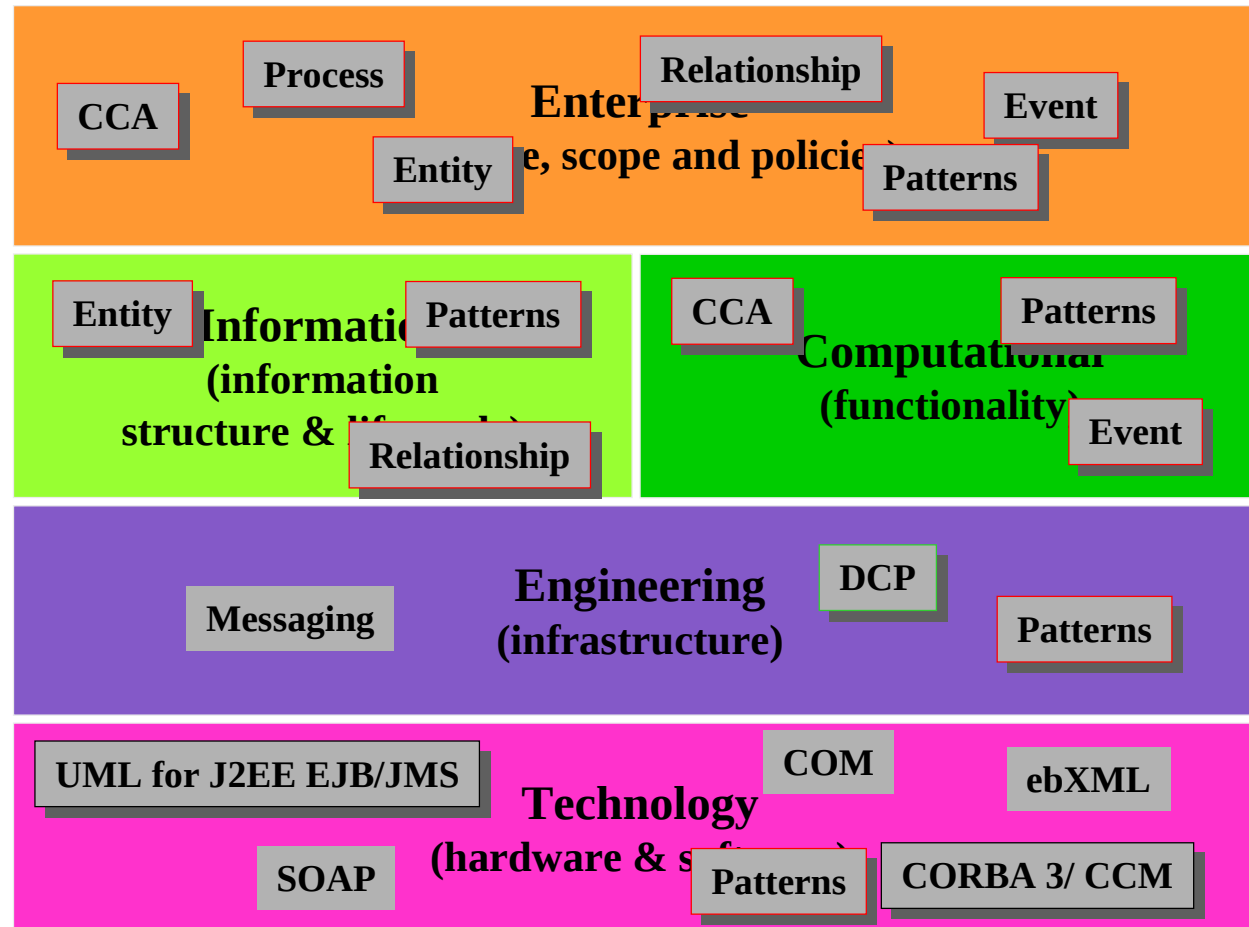
MOM
Technology

ebXML
Technology

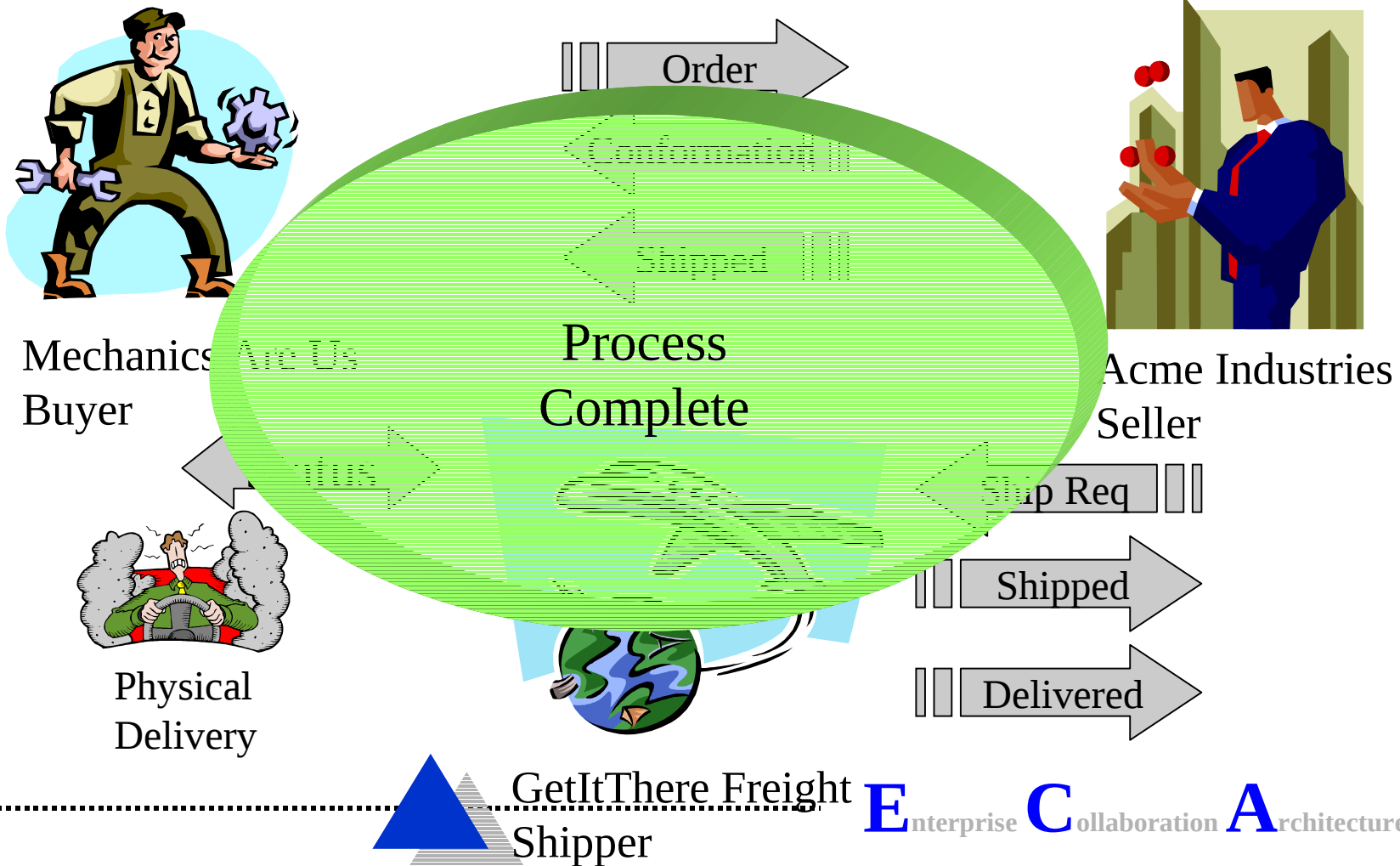
etc

Enterprise **C**ollaboration **A**rchitectures

ECA and viewpoints

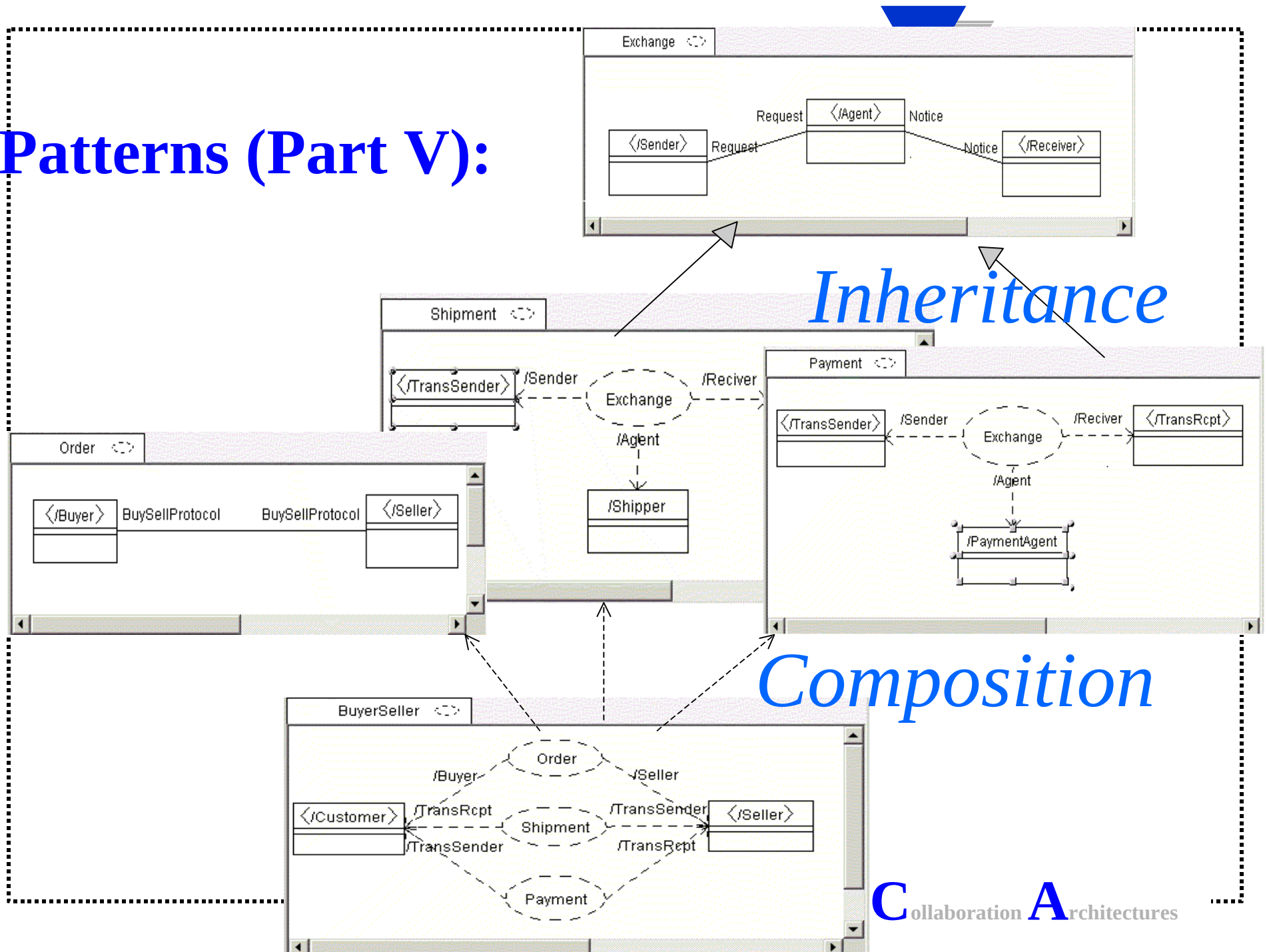


The Marketplace Example



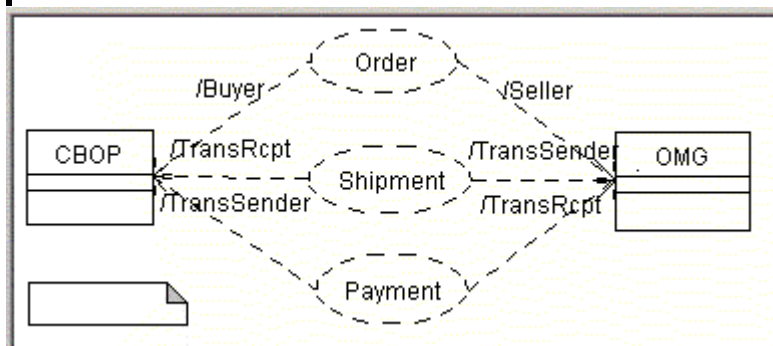
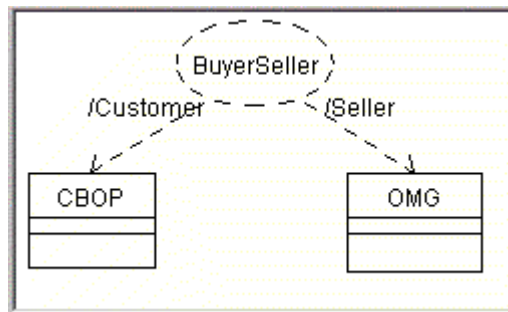
Enterprise **C**ollaboration **A**rchitectures

Patterns (Part V):



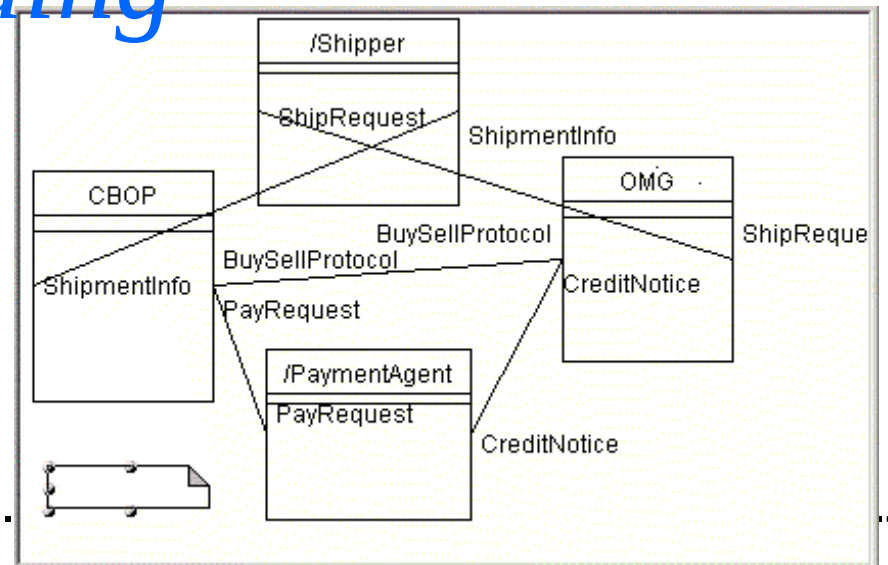
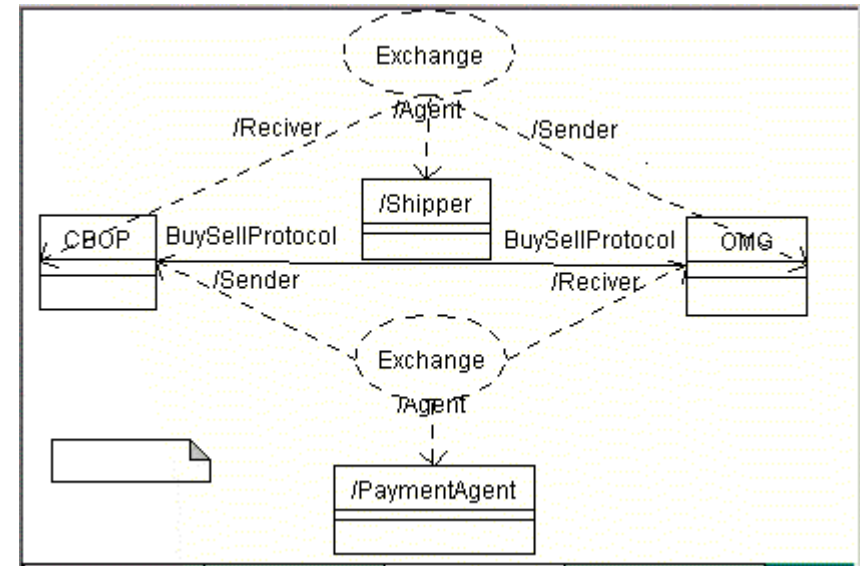
Collaboration **A**rchitectures

Patterns (Part V): *Applying*

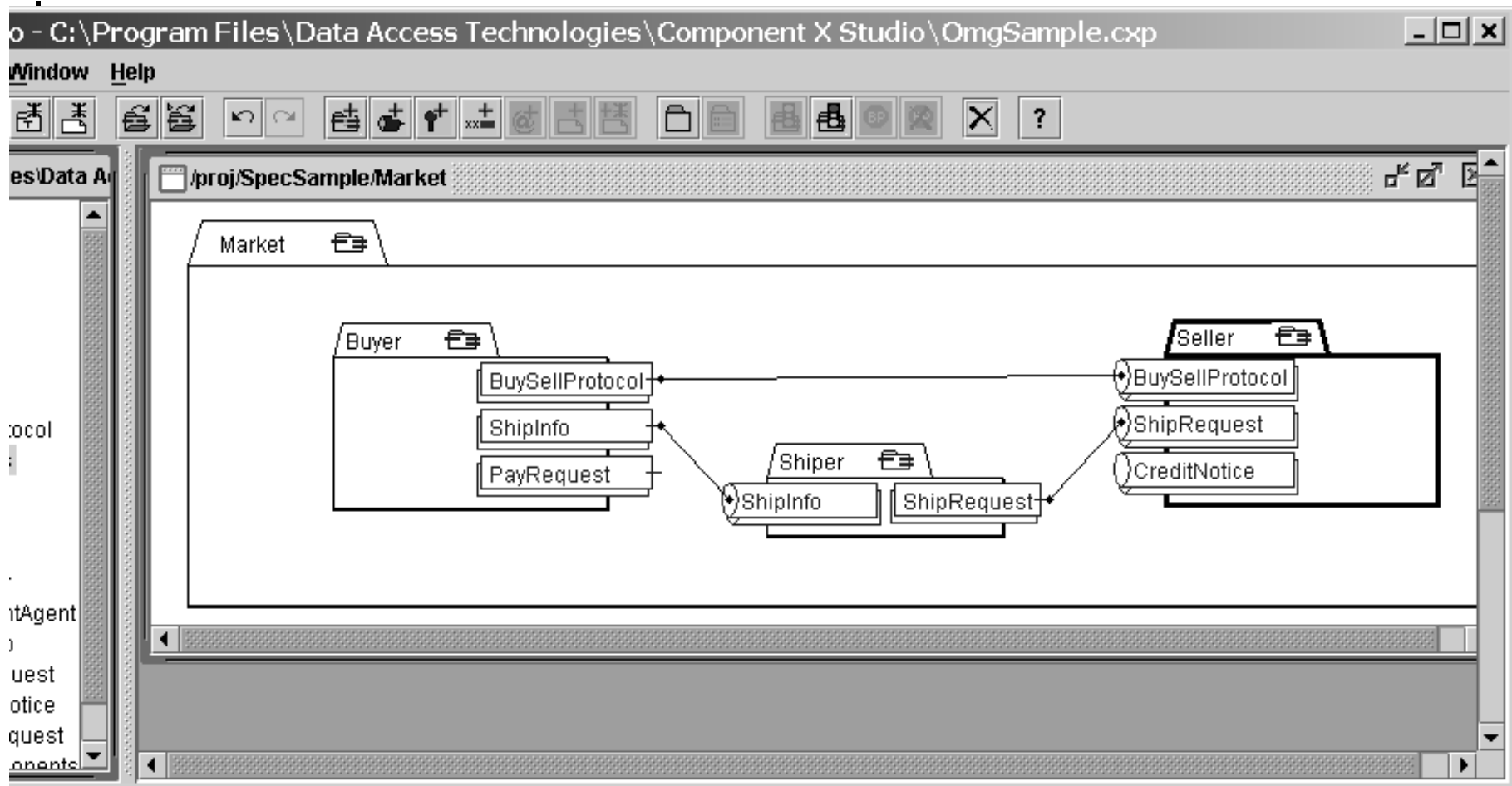


Ref demo: CF:UML (Foundatao)

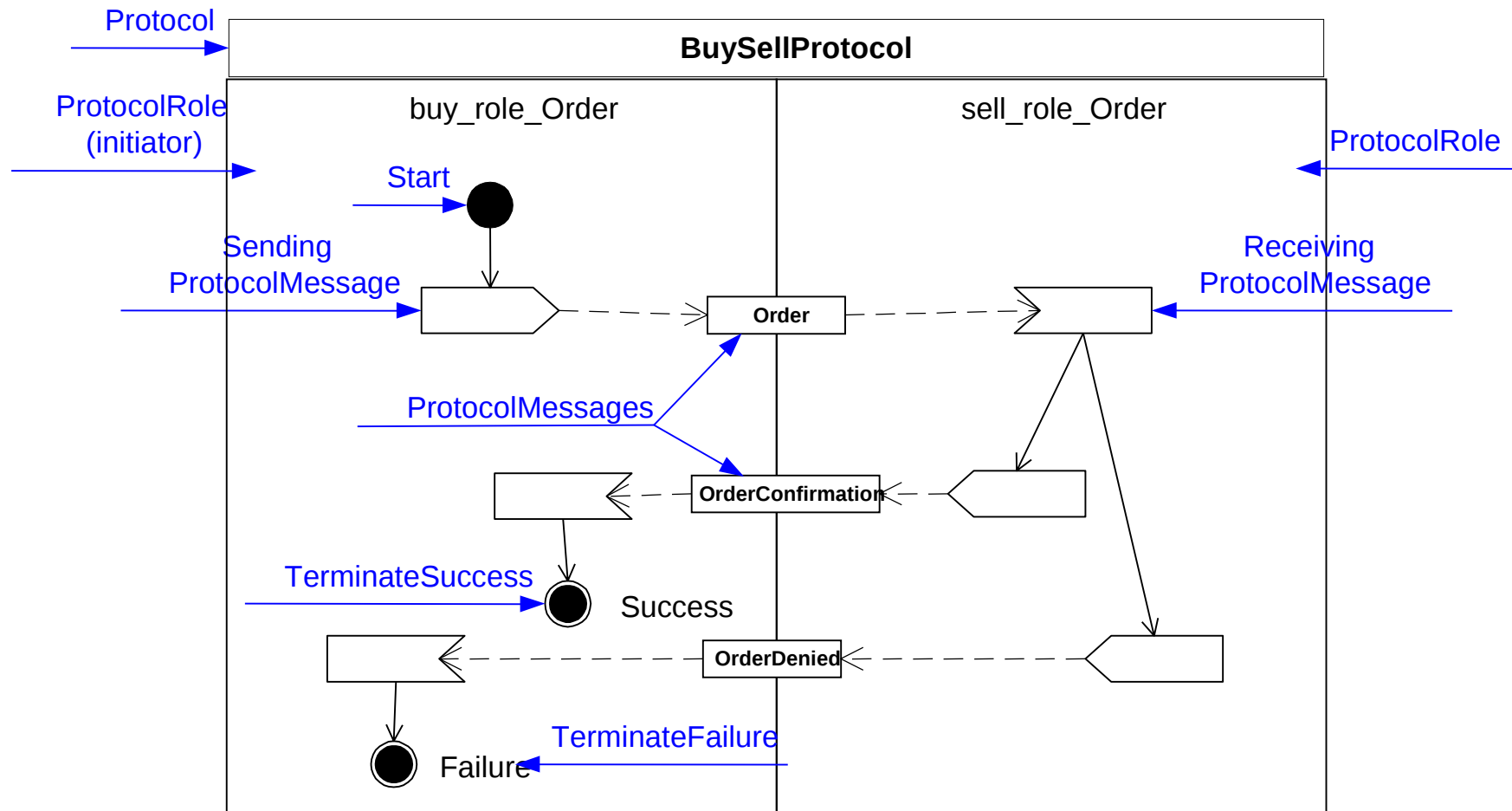
Unfolding



Community Process

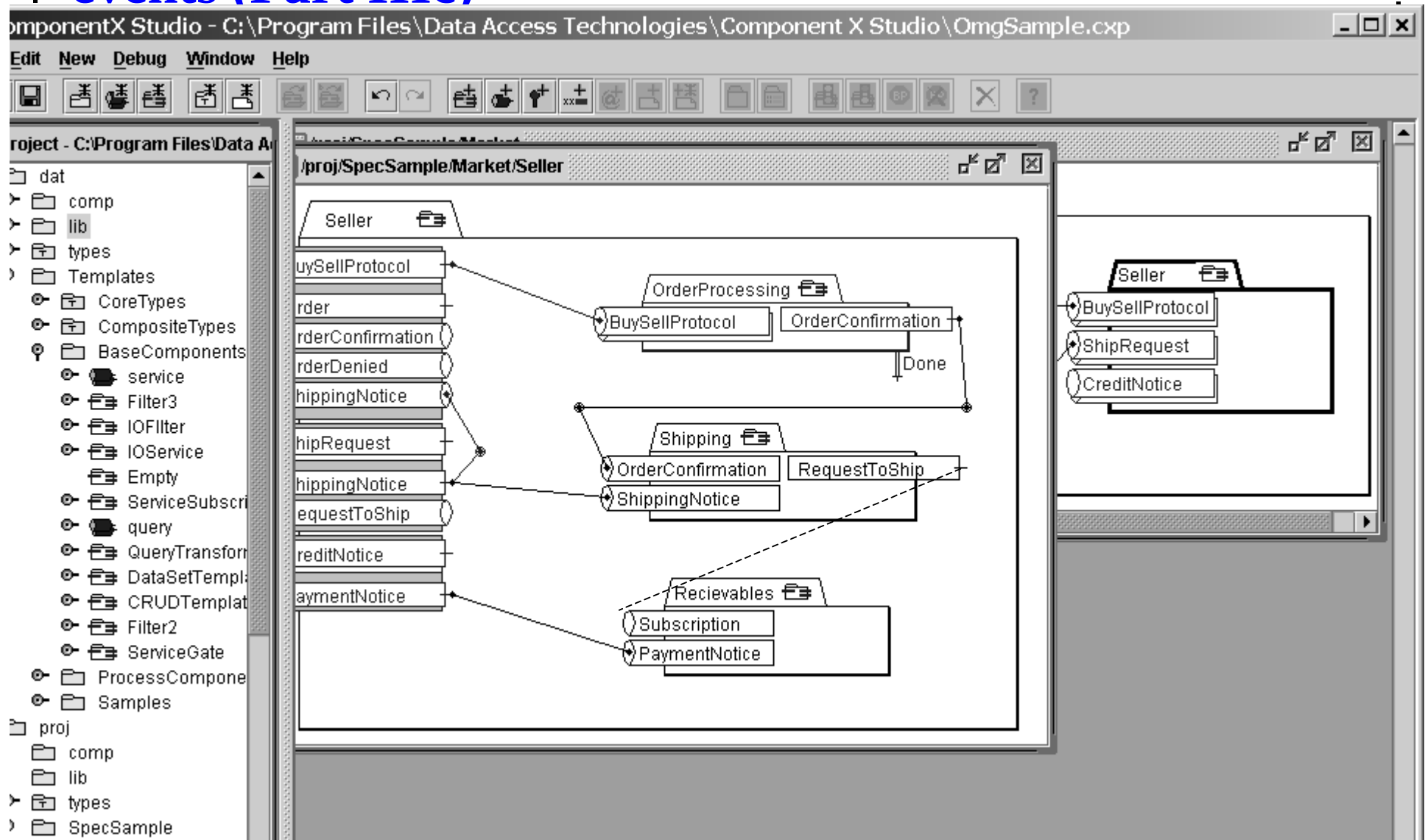


Activity diagram shows protocol

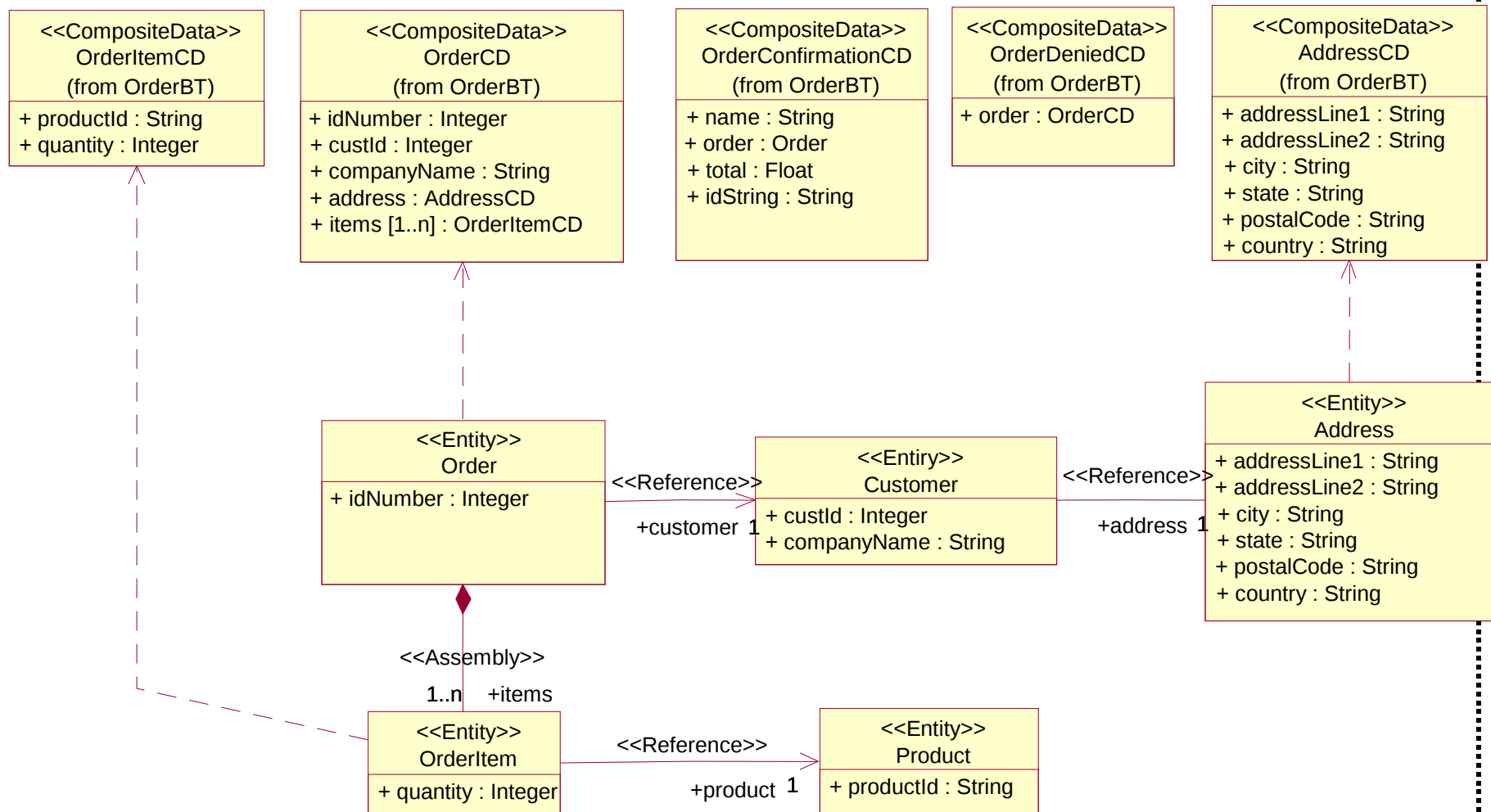


Drill down to sub-components & activities with events (Part IIIc)

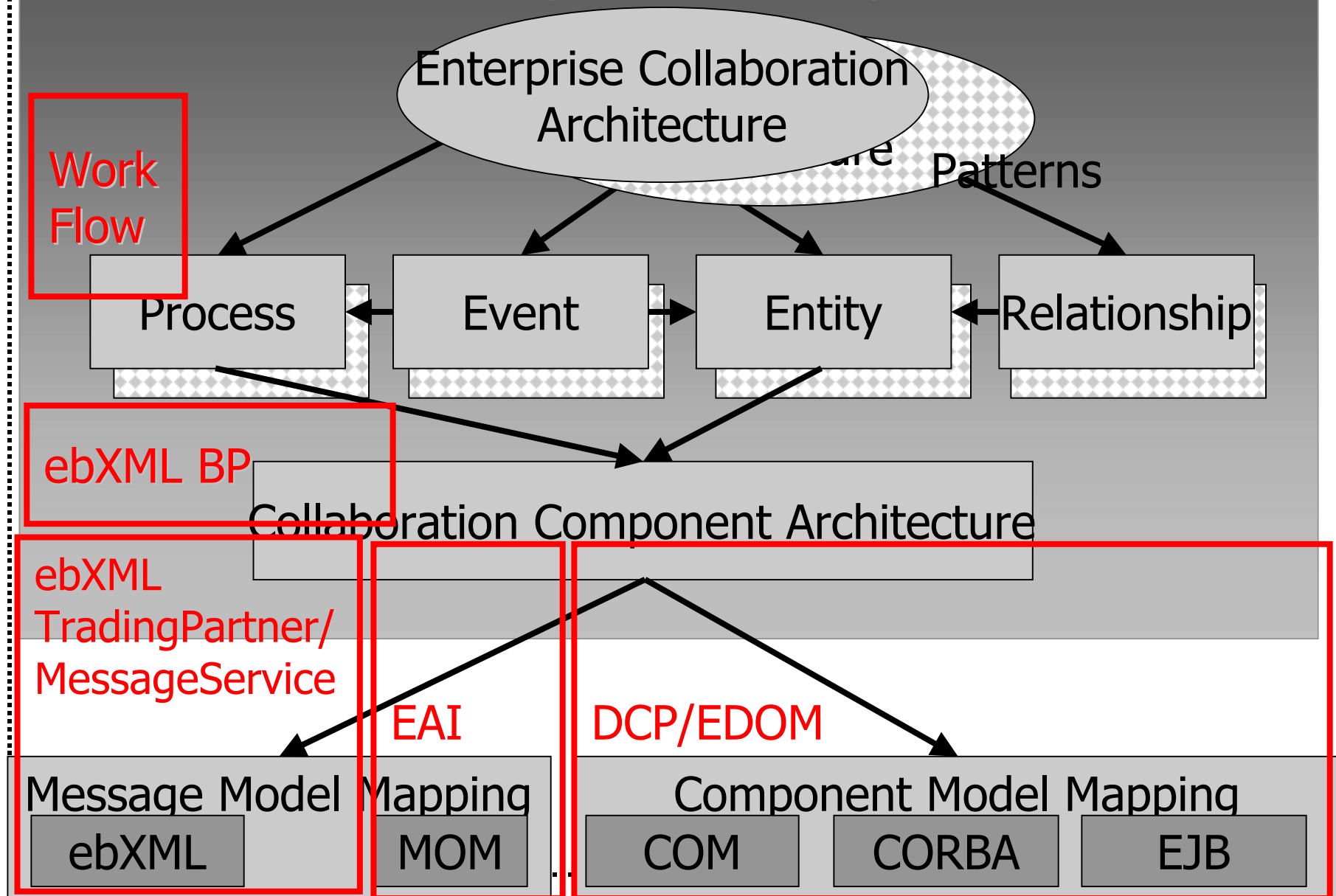
Ref. Demo: Component-X (DAT)



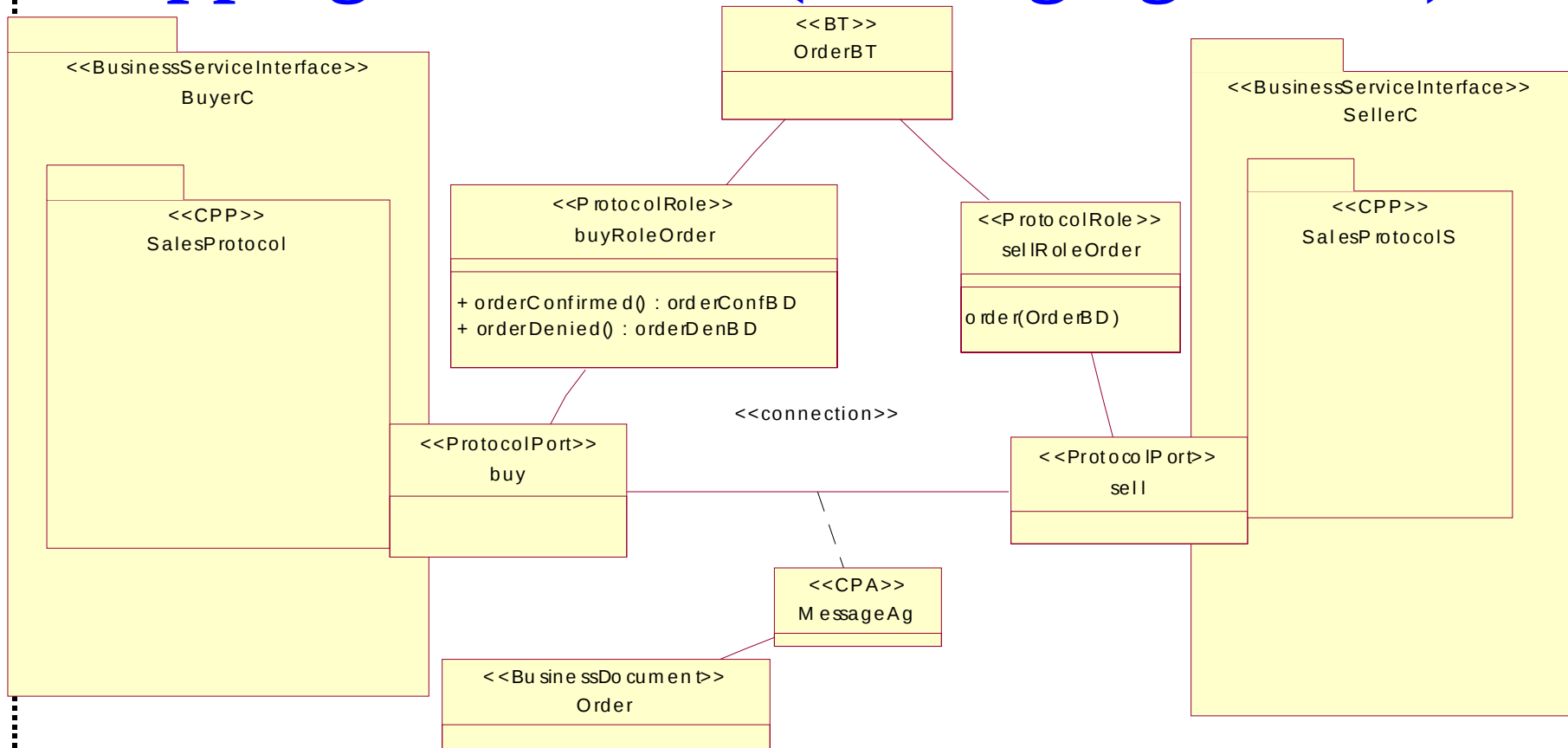
Entities (IIb) & Relationships (IIIe)



ECA & Technology Mapping (Part IV)



Mapping to ebXML (Messaging/SOAP)



CPP: Collaboration Protocol Profile

CPA: Collaboration Protocol Agreement

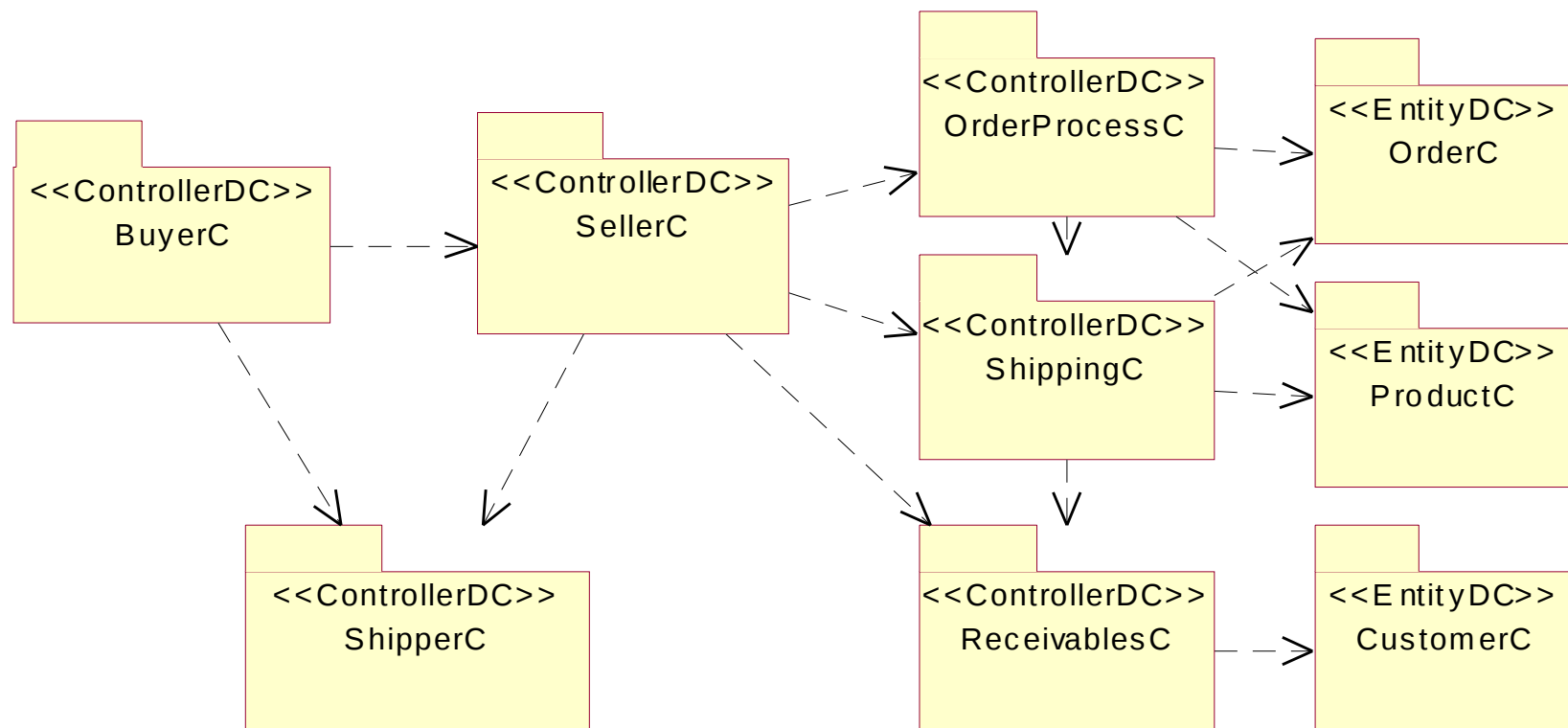
BT: Business Transaction

BD: Business Document

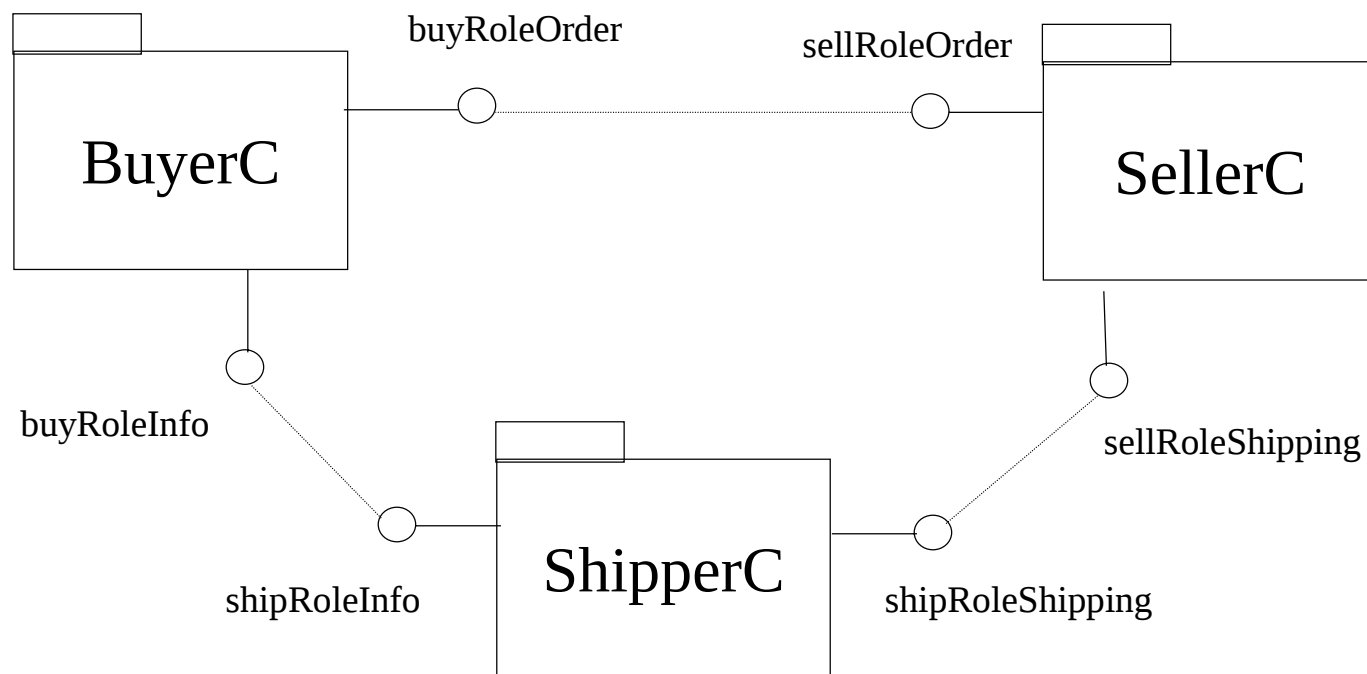
Ref: www.ebxml.org

Enterprise **C**ollaboration **A**rchitectures

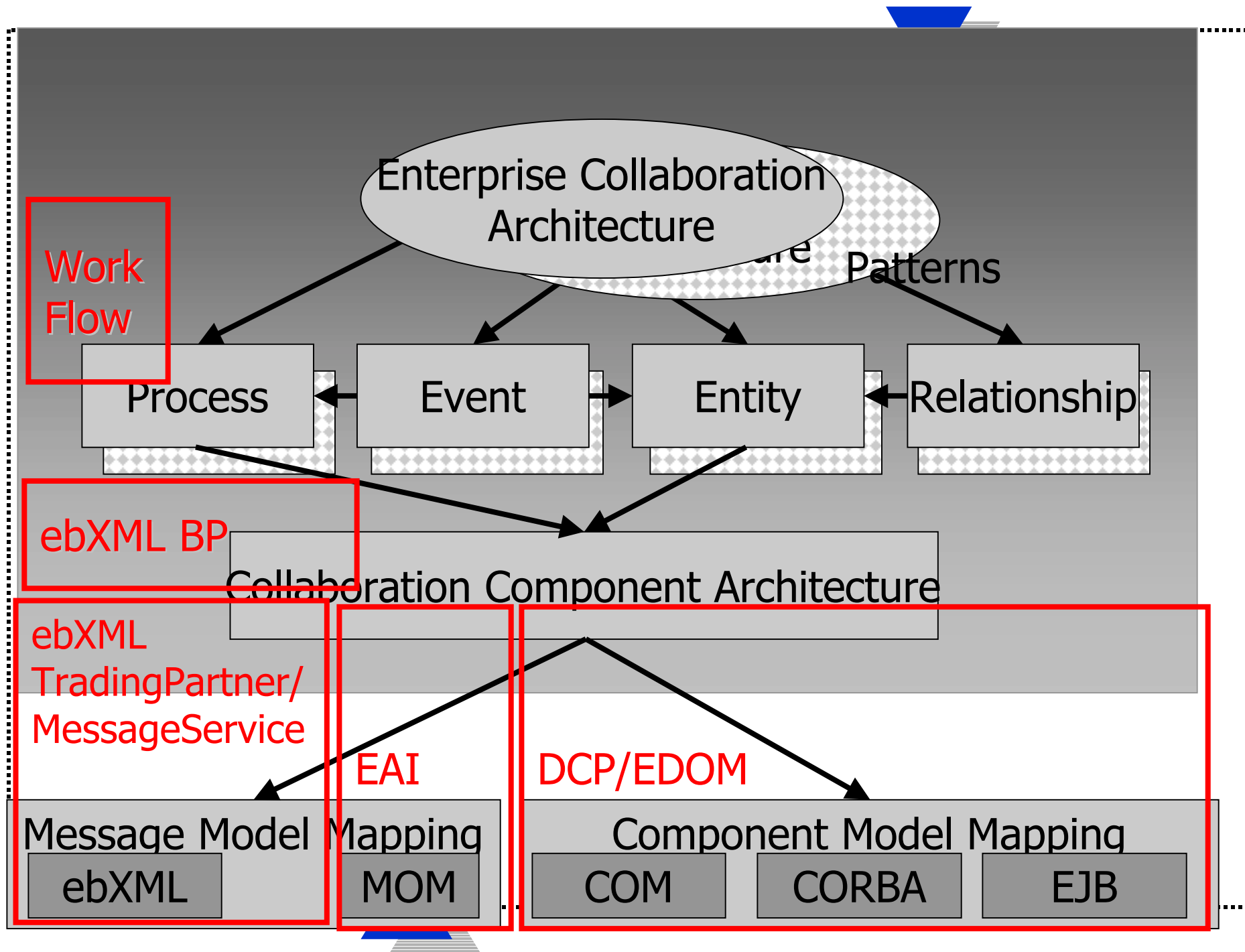
Mapping to DCP/ EDOM

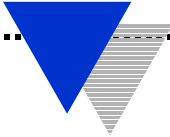


Deriving provided and required Component Interfaces



*Additional communication refinement can be done:
(Conversation, client/server, notification, streaming, ...) + other DCP refinement*





Conclusions

- **Recursive collaboration architecture**
- **Based on UML 1.3**
- **Addresses initial MDA requirements - PIM/ PSM**
- **Component-based and Message-based models**
- **Useful input to UML 2.0 extensions**