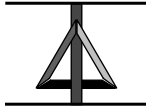


# Data Model Patterns: A Metadata Map

**East Coast Regional DAMA 2006**

David C. Hay  
May-June, 2006



**Essential Strategies, Inc.**

13 Hilshire Grove Lane, Houston, TX 77055  
☎ (713) 464-8316  
✉ dch@essentialstrategies.com  
🌐 www.essentialstrategies.com

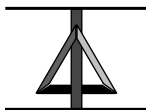
1

*Hell, there are no rules here—we're trying to accomplish something.*  
**Thomas A. Edison**

There are two rules for success:  
1) *Never tell everything you know;*

**Roger H. Lincoln**

## Column 6: motivation



**Essential Strategies, Inc.**

13 Hilshire Grove Lane, Houston, TX 77055  
☎ (713) 464-8316  
✉ dch@essentialstrategies.com  
🌐 www.essentialstrategies.com

2

# The Architecture Framework . . .

	<b>Data (What)</b>	<b>Activities (How)</b>	<b>Locations (Where)</b>	<b>People (Who)</b>	<b>Time (When)</b>	<b>Motivation (Why)</b>
<b>Objectives / Scope (Planner's view)</b>	List of things important to the enterprise 	List of processes the enterprise performs 	List of enterprise locations 	Organization approaches 	Business master schedule 	Business vision and mission 
<b>Enterprise model (Business Owners' Views)</b>	Language, divergent data model 	Business process model 	Logistics network 	Organization chart 	State / transition diagram 	Business strategies, tactics, policies, rules 
<b>Model of Fundamental Concepts (Architect's View)</b>	Convergent e/r model 	Essential data flow diagram 	Locations of roles 	The viable system, use cases 	Entity Life History 	Business rule model 
<b>Technology Model (Designer's View)</b>	Data base design 	System design, program structure 	Hardware, software distribution 	User interface, security design 	Control structure 	Business rule design 
<b>Detailed Representation (Builder's View)</b>	Physical storage design 	Detailed program design 	Network architecture, protocols 	Screens, security coding 	Timing definitions 	Rule specification program logic 
<b>Functioning System</b>	<i>(Working System)</i>					
	Converted data 	Executable programs 	Communications facilities 	Trained people 	Business events 	Enforced rules 

3

Copyright © 2005, Essential Strategies, Inc.

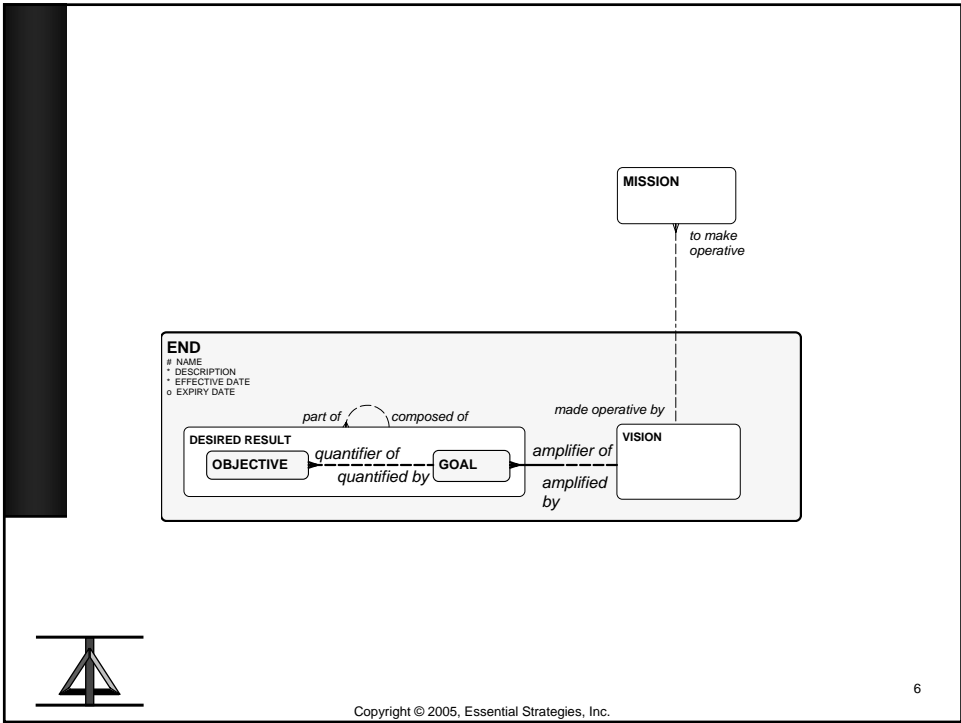
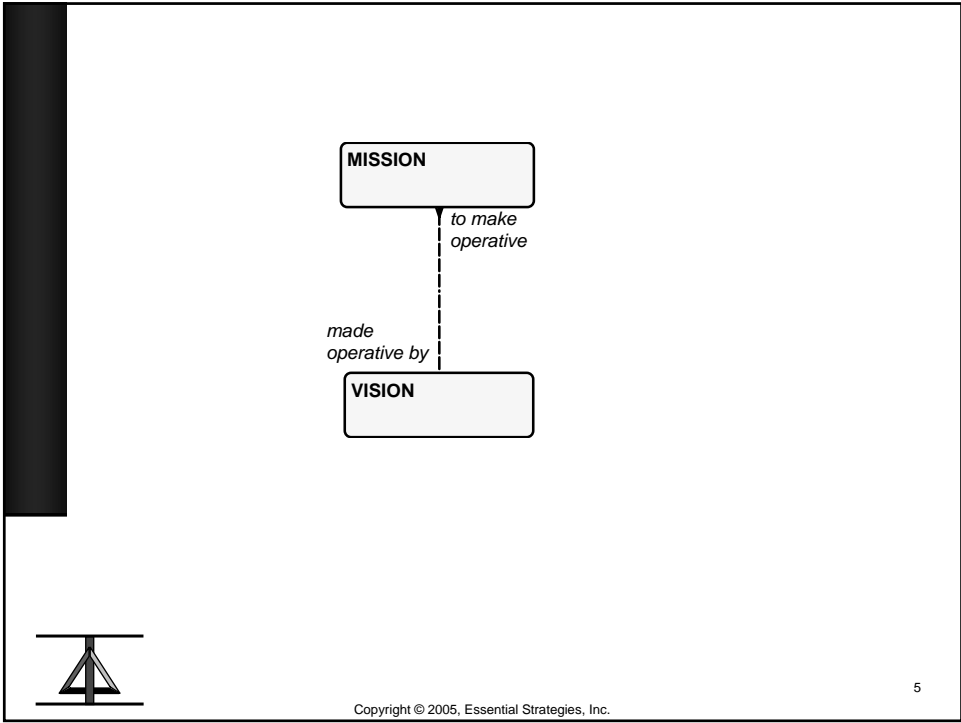


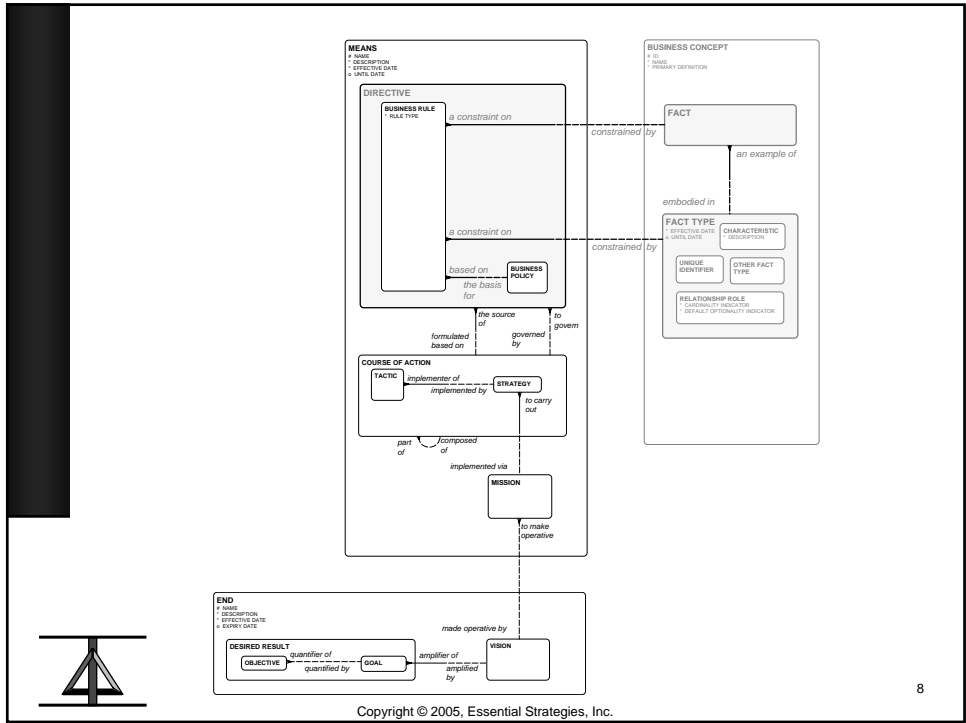
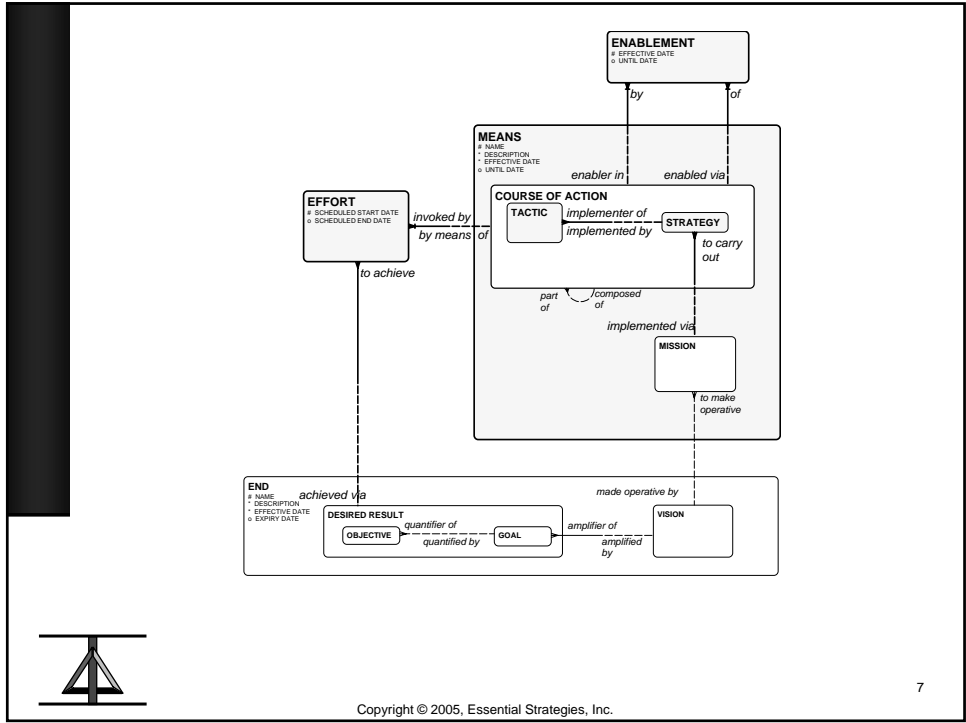
## Row Two: The business owner's View

4

Copyright © 2005, Essential Strategies, Inc.

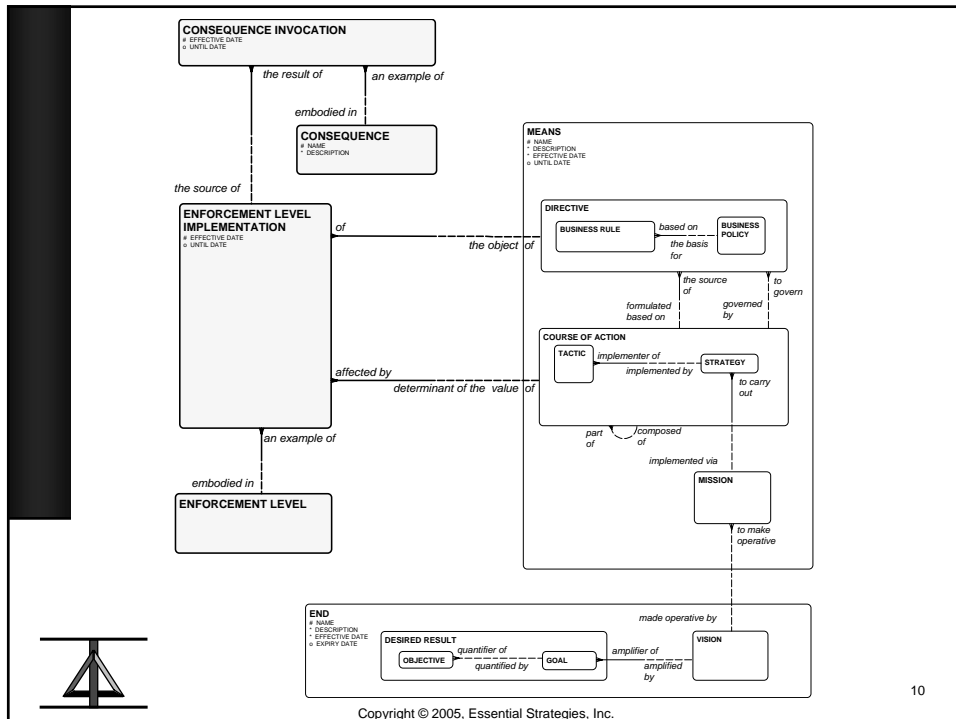
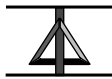






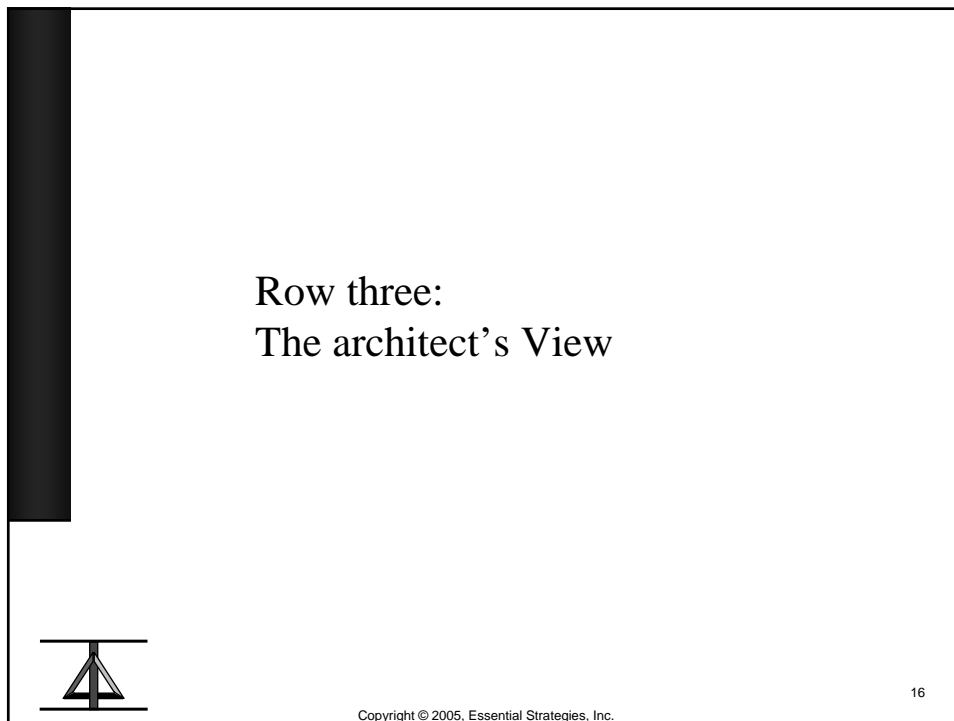
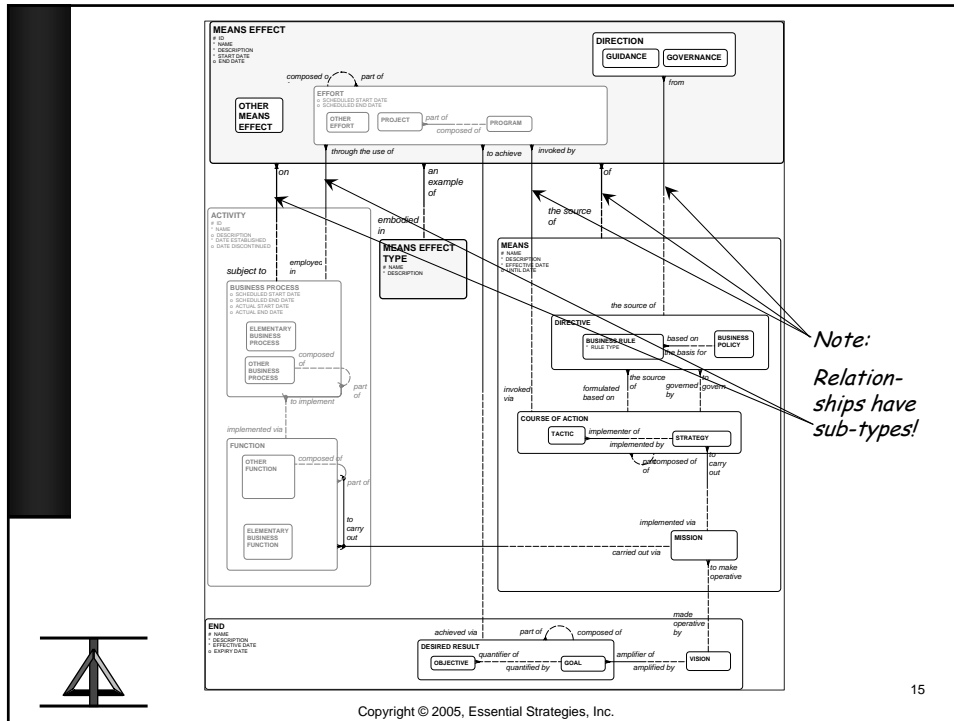
# Digression

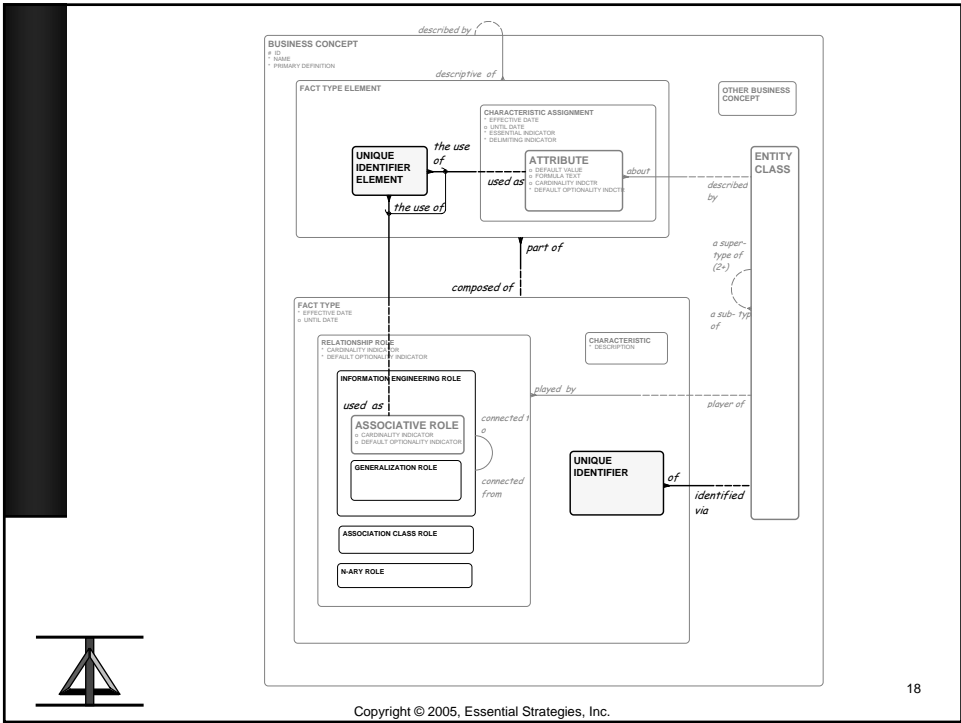
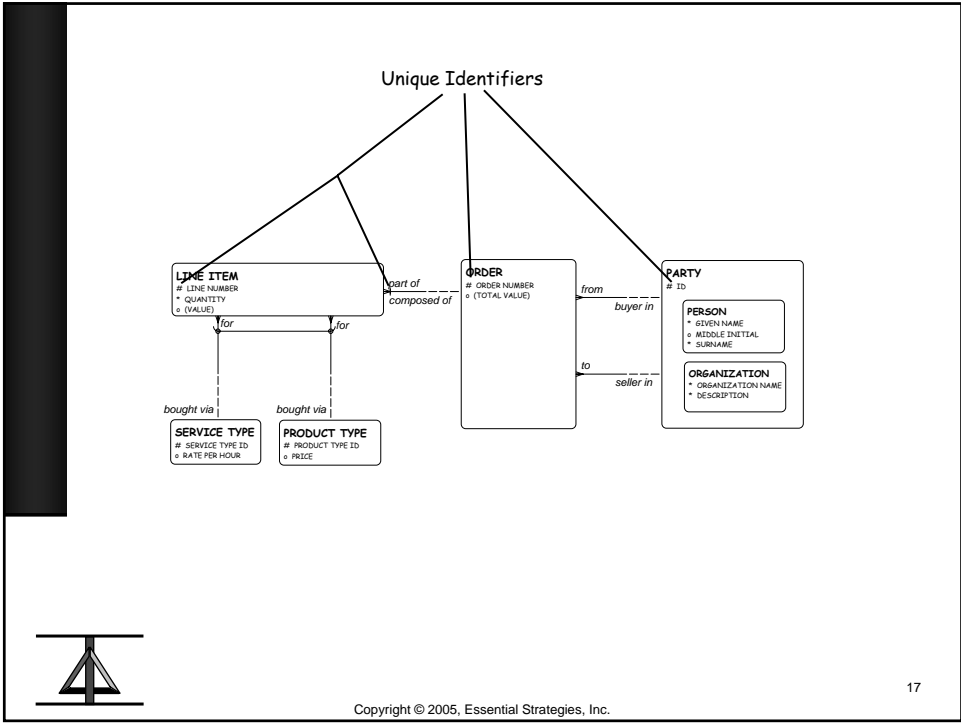
- Kinds of rules (from modal logic)
  - **Deontic** – Obligation, permission (Business Rules)
  - **Alethic** – Necessity, possibility (Physics)
  - **Epistimological** – It is known that (Data modeling)

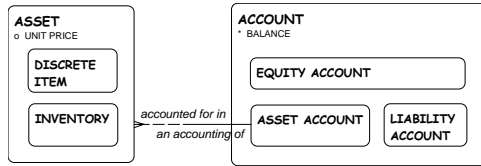




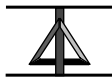
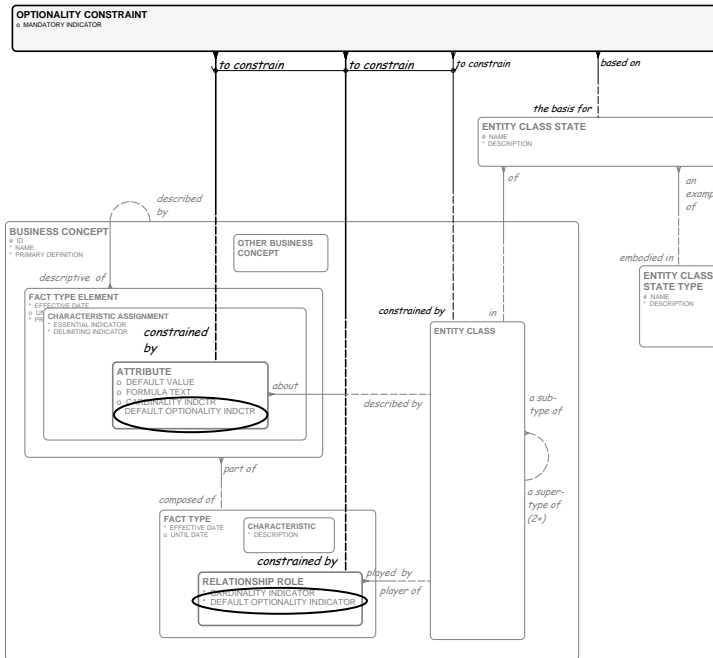
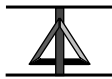




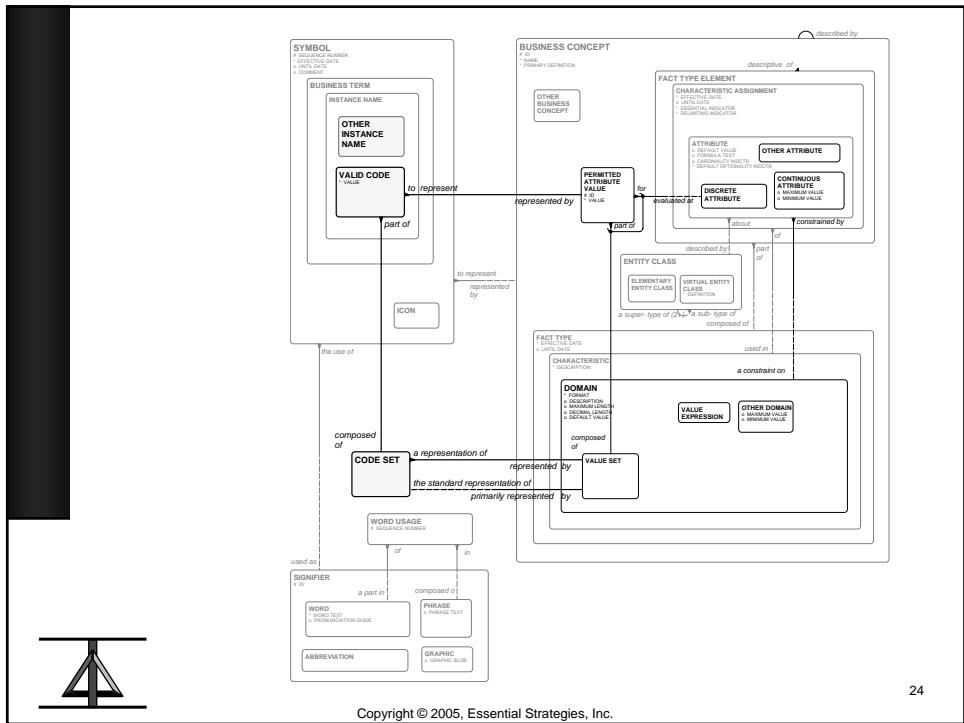
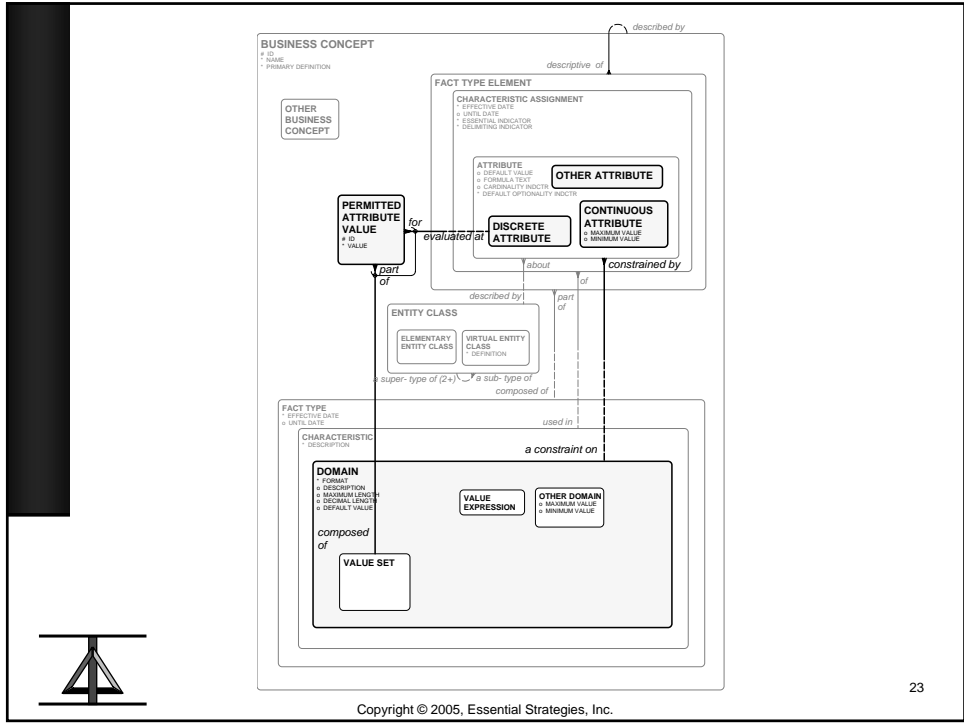


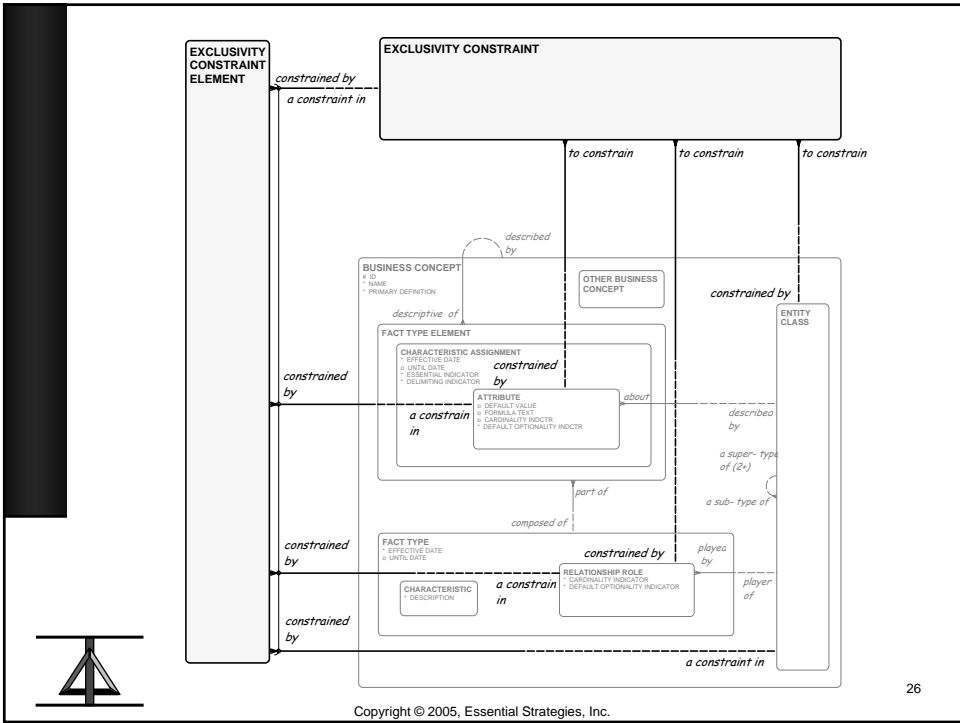
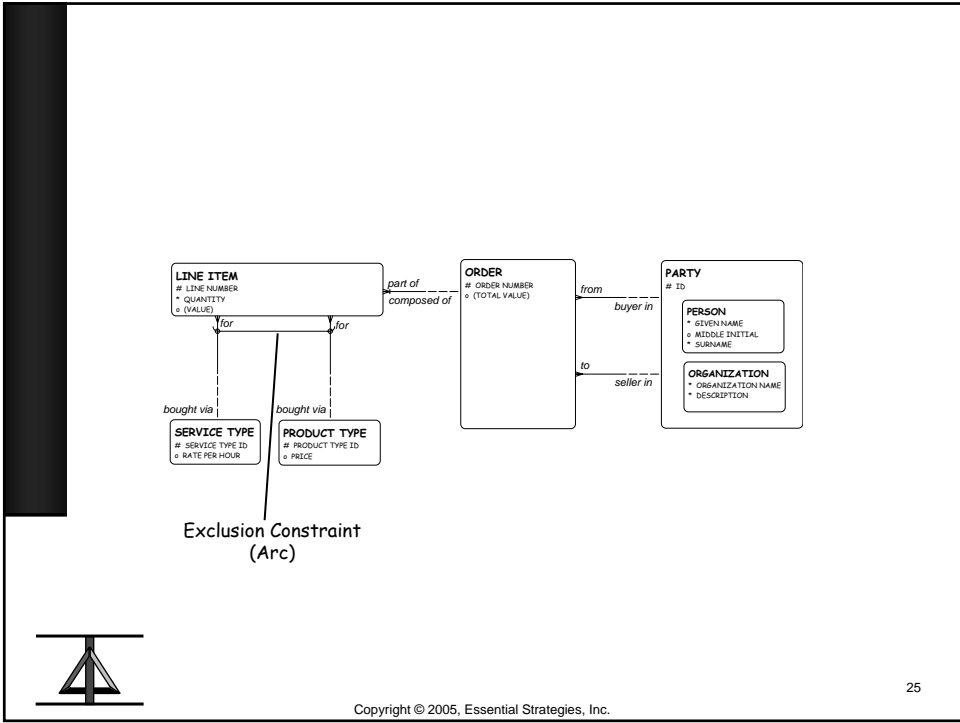


Ok, so when does the INVENTORY have to be accounted for in an ASSET ACCOUNT?

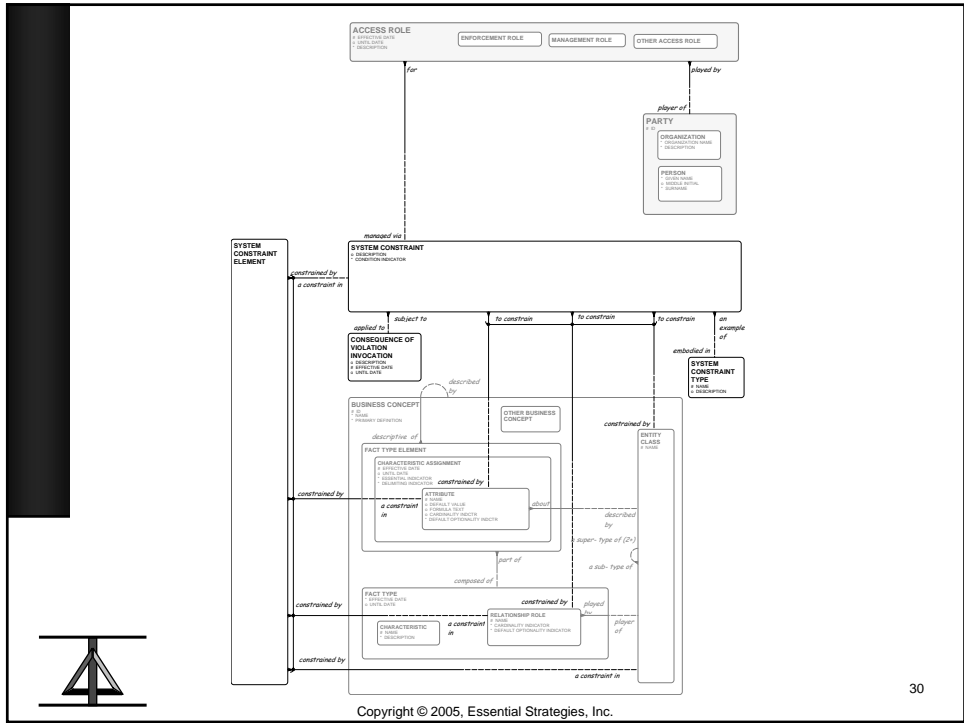
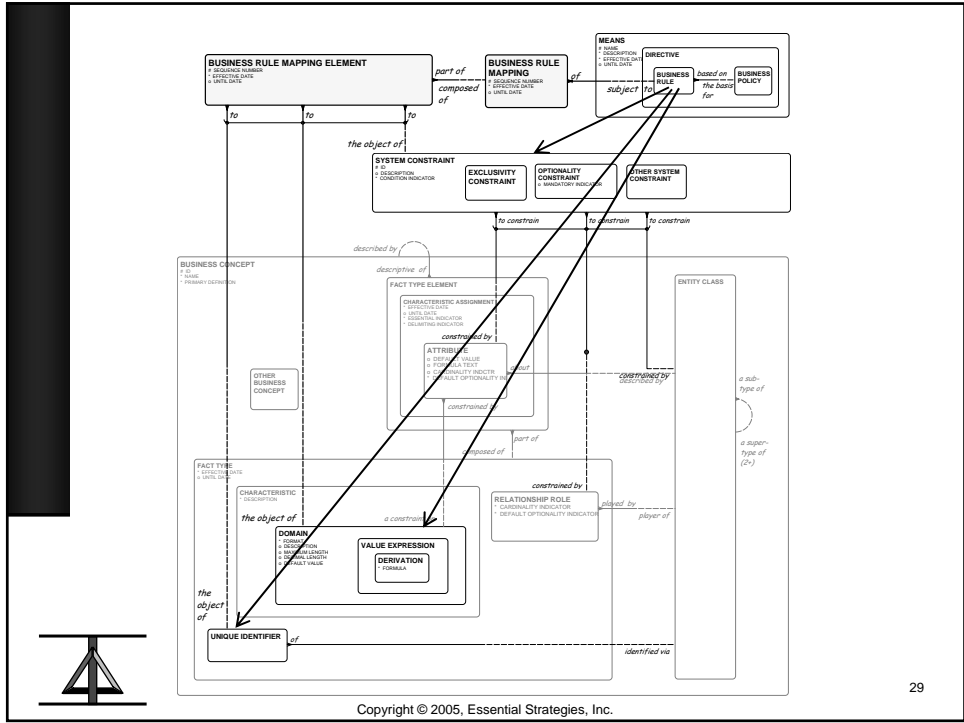


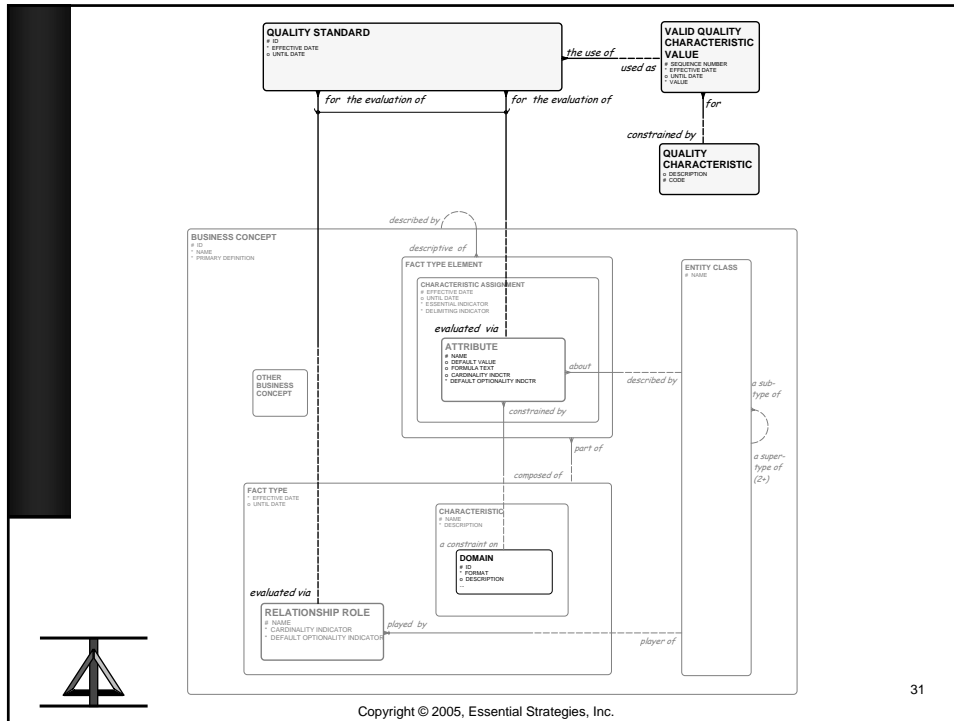












## Row four: The designer's View

