

ERP Course: Analysis Patterns
Accountability, Inventory, and Accounting
Readings: Chapter 2 and 6 from Martin
Fowler
Additional material: Søren Lauesen:

Datalogens Introduktion til Bogholderi

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Accountability

A relationship of responsibility between responsee and responsible

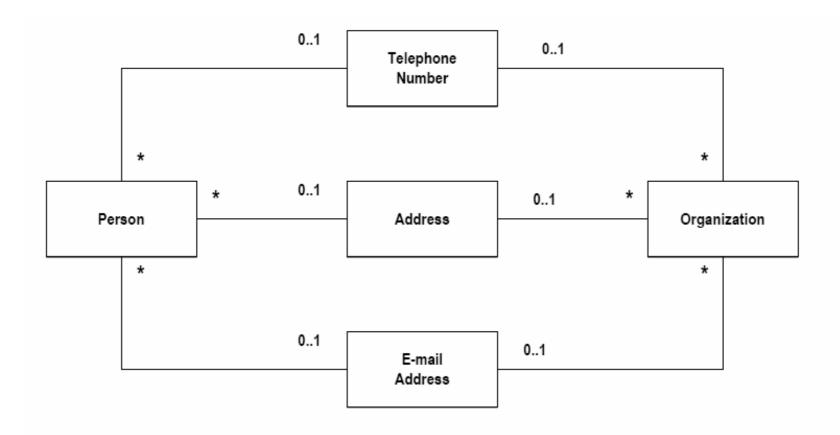
Organizational structures

Employments

Contracts

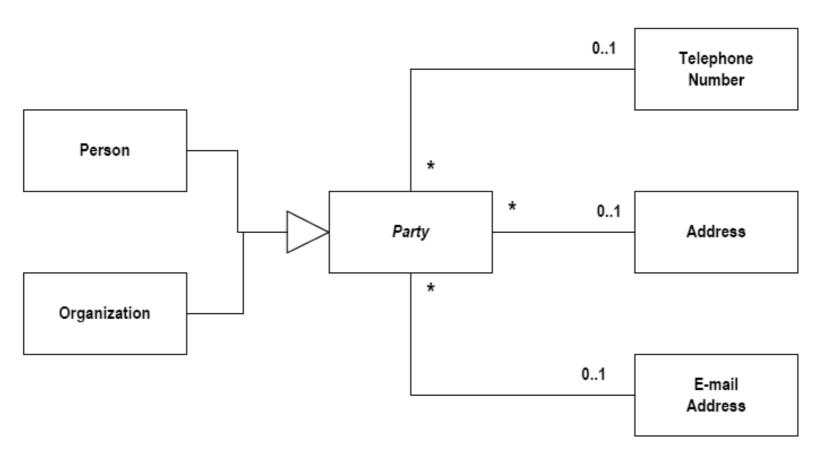


Address Book



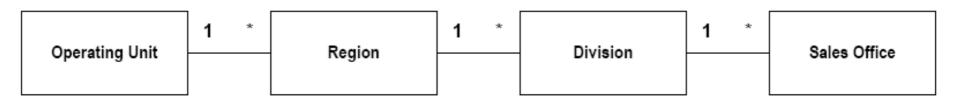


Party



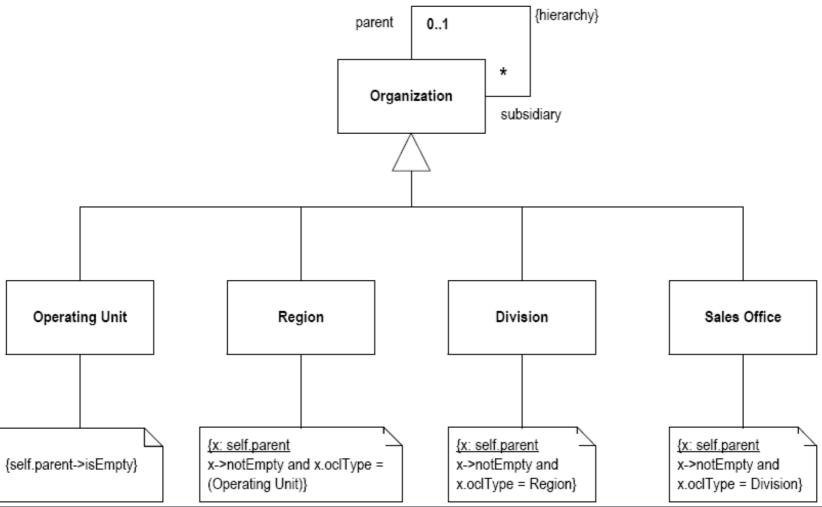


Organization Structure with Explicit Levels



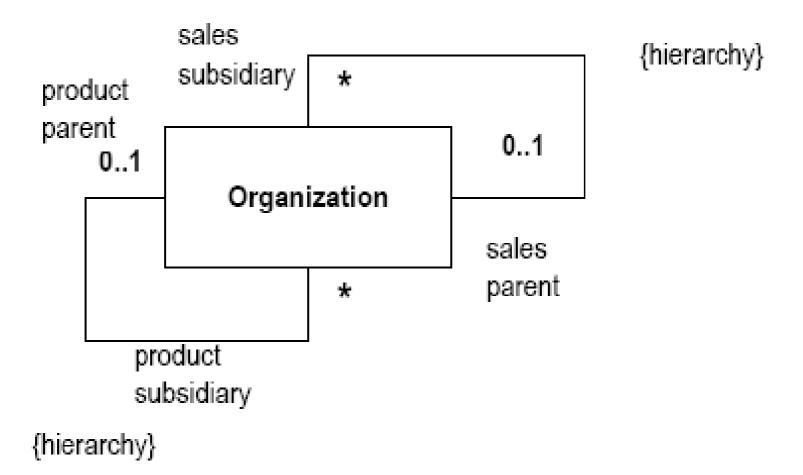


Organization Supertype



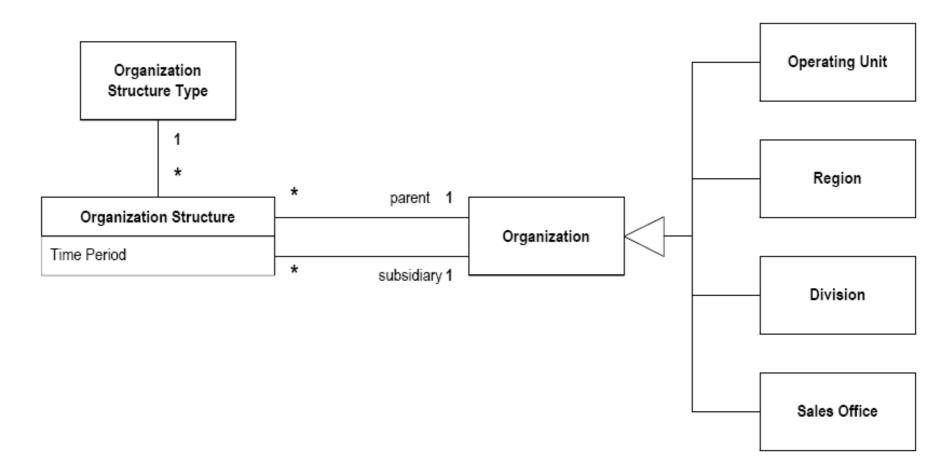


Two organizational hierarchies



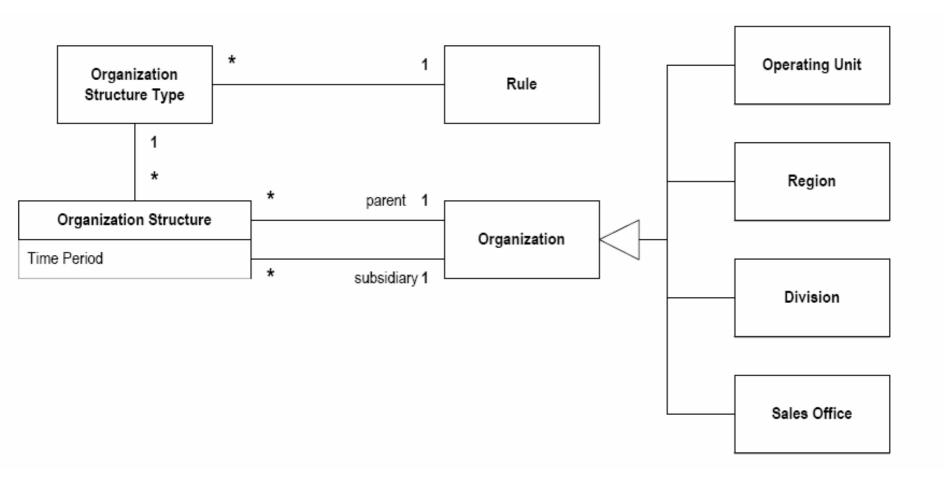


Typed Relationships



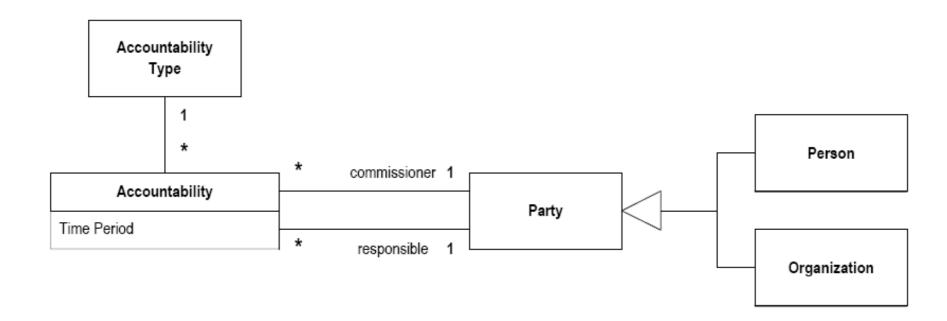


Rules



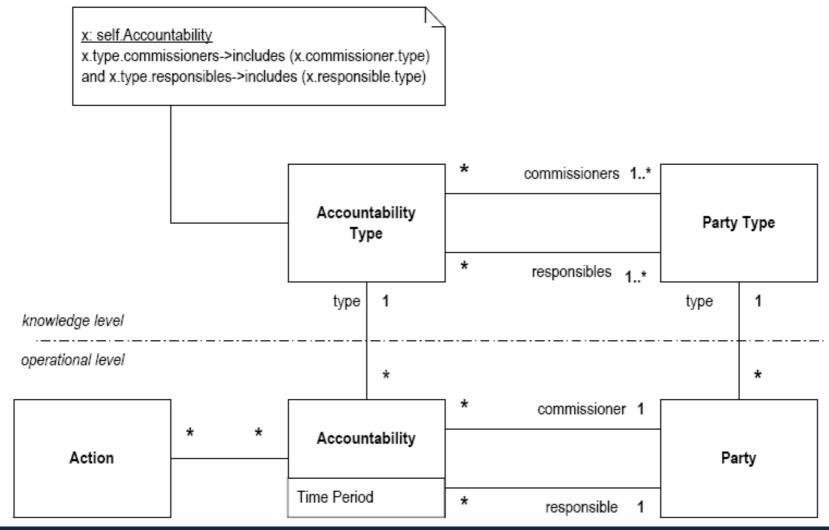


Accountability



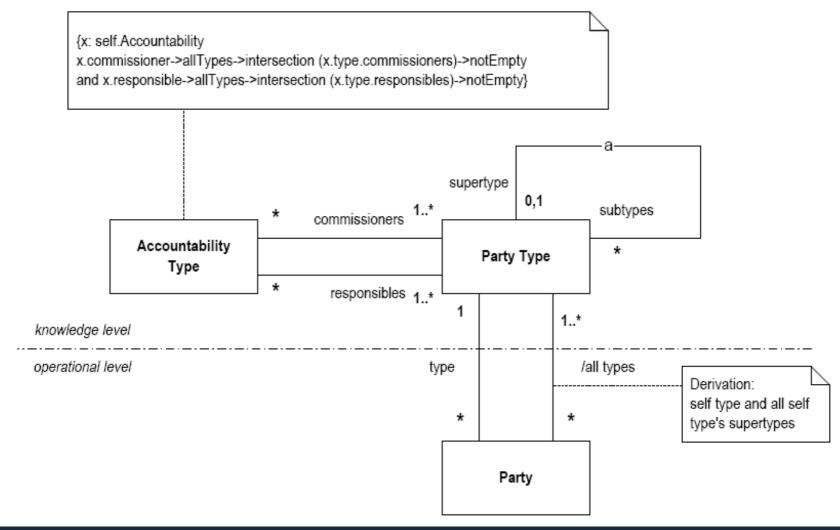


Knowledge and operational levels



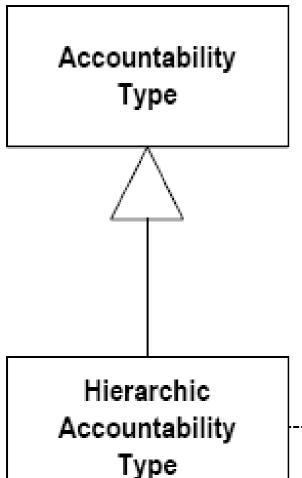


Party Type Generalizations





Hierarchic Accountability Type

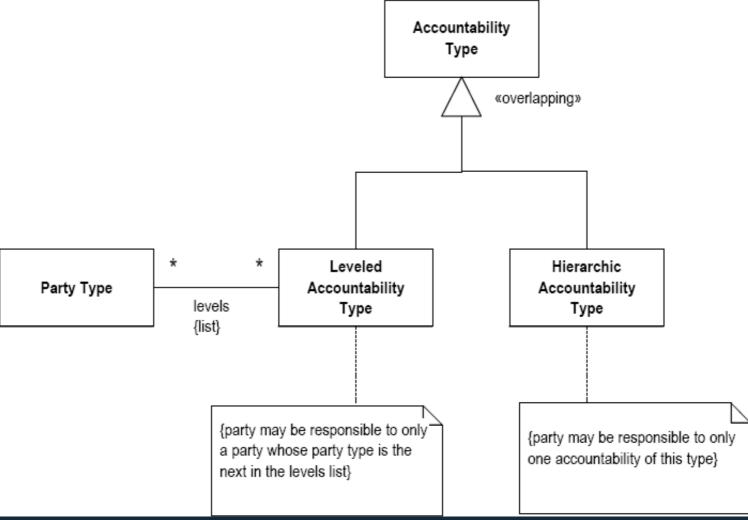


Type

{party may be responsible to only one accountability of this type}

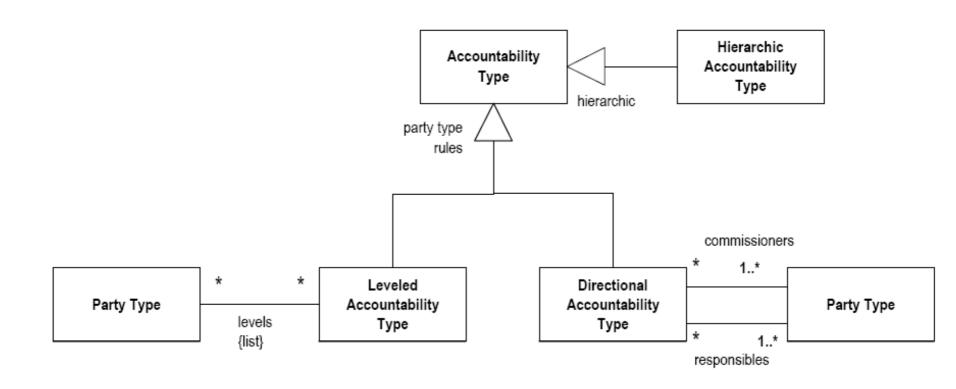


Leveled Accountability Type



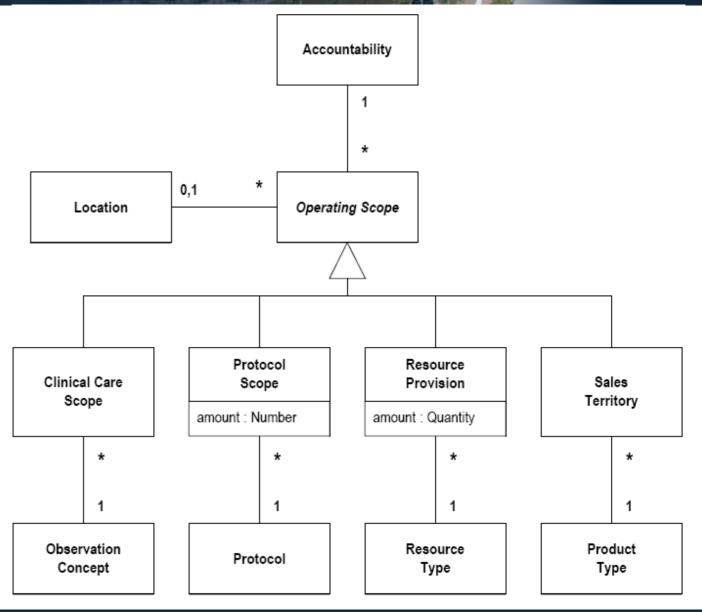


Subtypes of Acountability Types





Operating Scopes





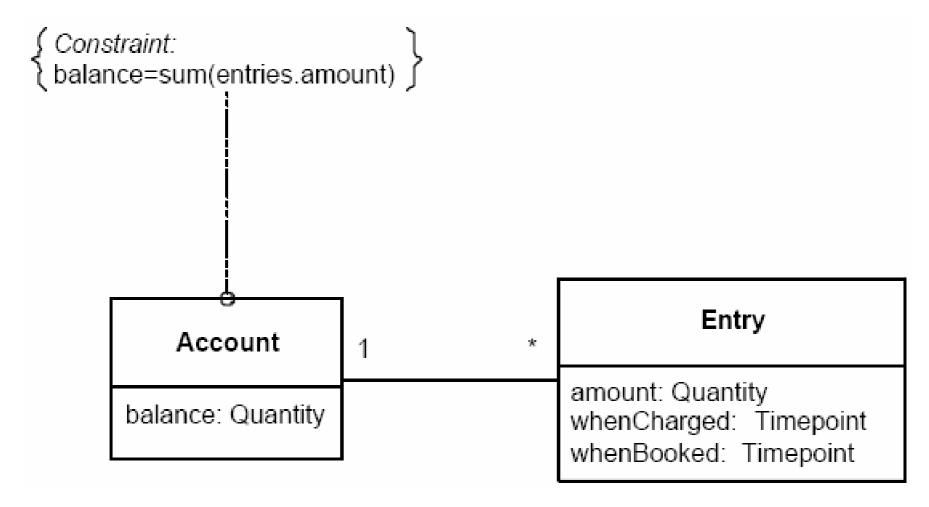
Accounting

Tracing how money move througout the company Tacking of earnings and expenditures

Posts of money and goods to record – entries

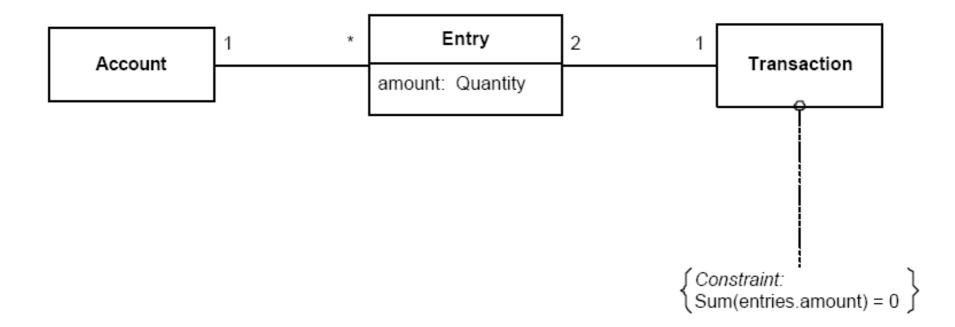


Account



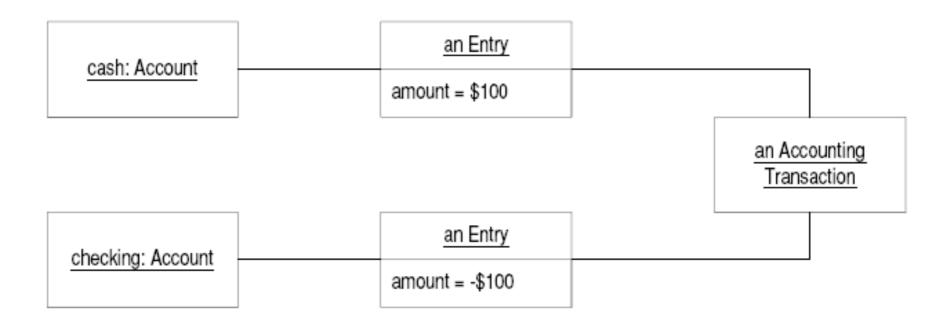


A Transaction with Two Entries



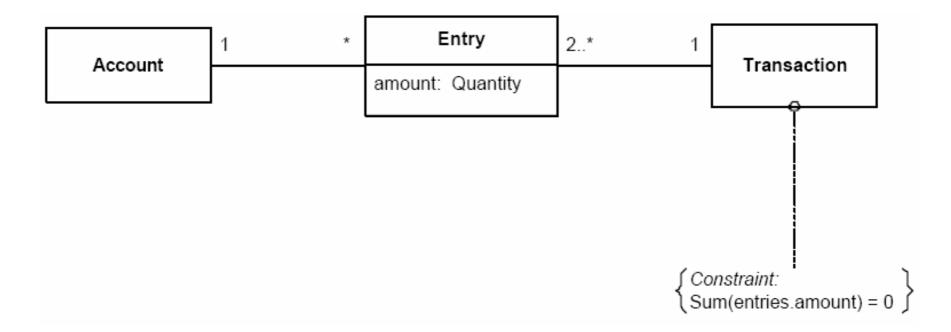


Instance Example



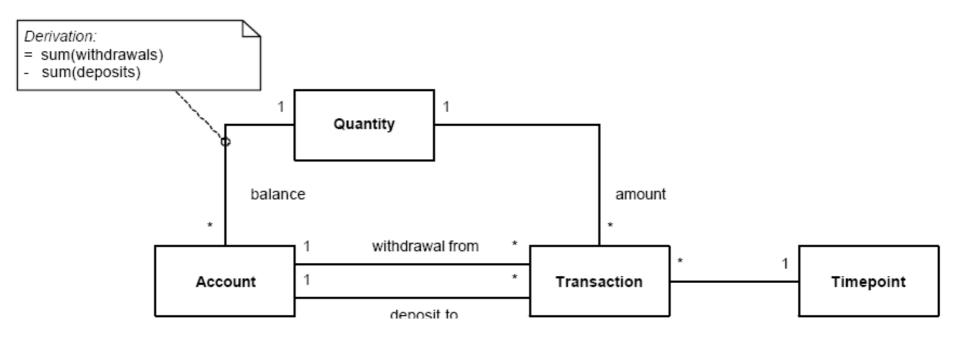


Multiledged Transactions



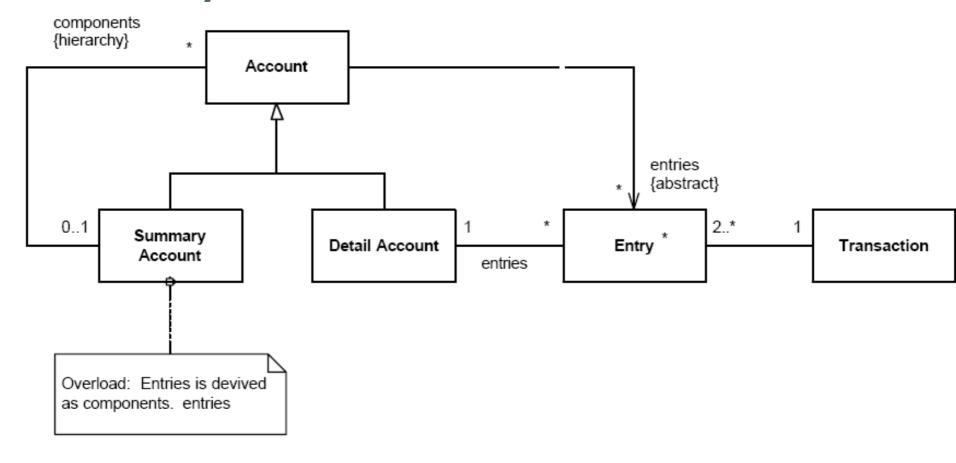


2-legged transaction without entries



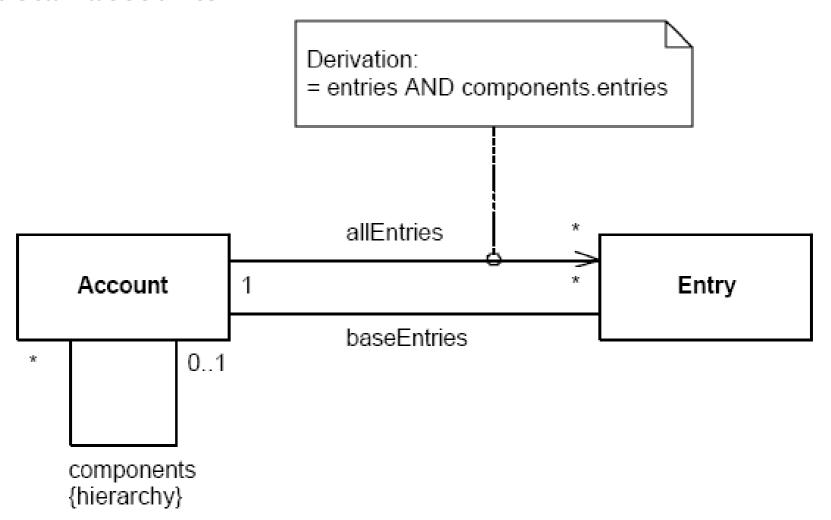


Summary and Detail Accounts



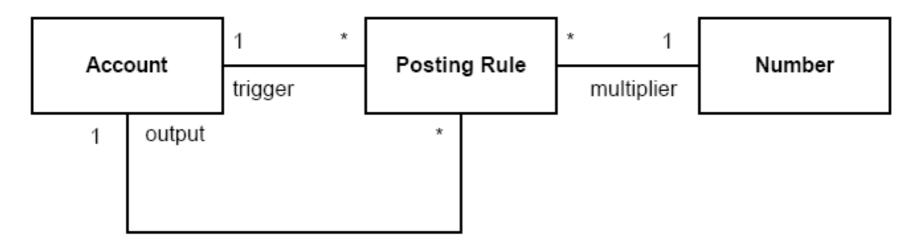


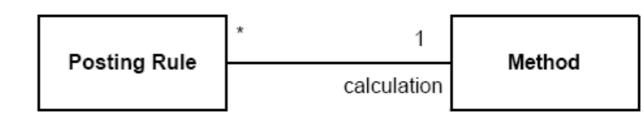
Account hierarchies without separating summary and detail accounts





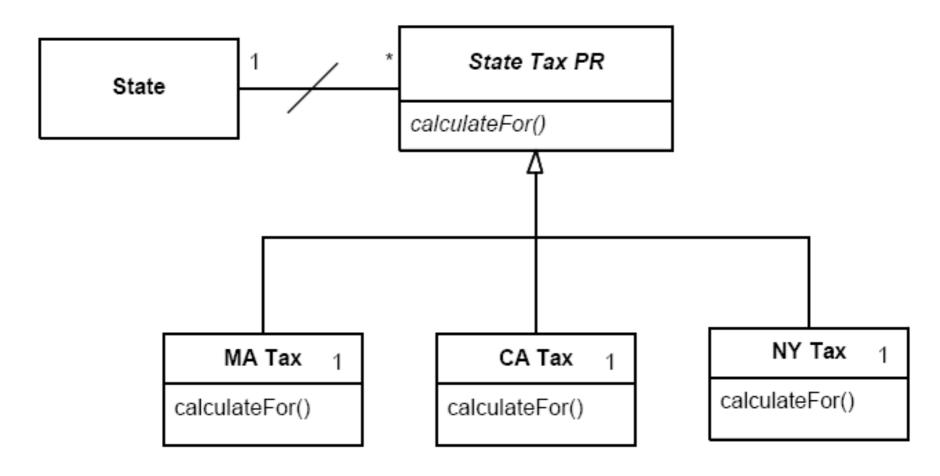
Posting Rules Multiplied by a Factor or a method to calculate an entry





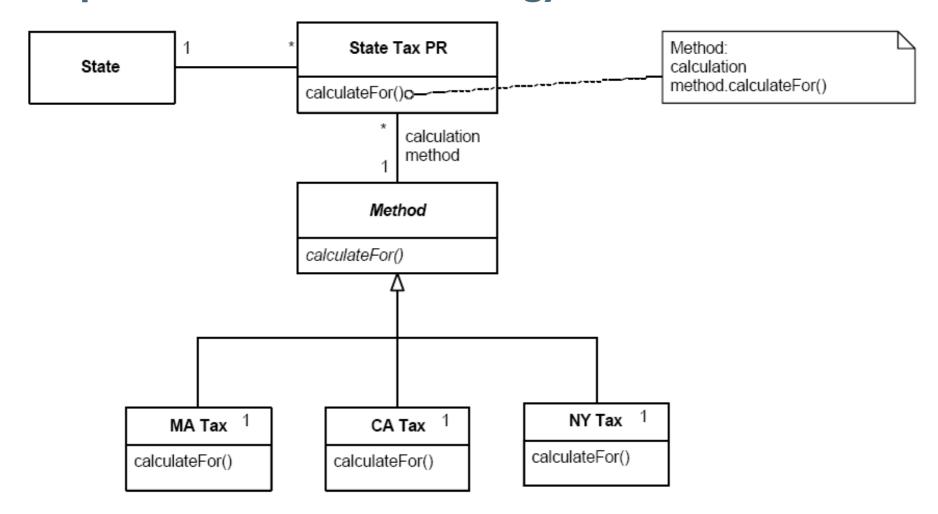


Individual Instance Methods with Singletons



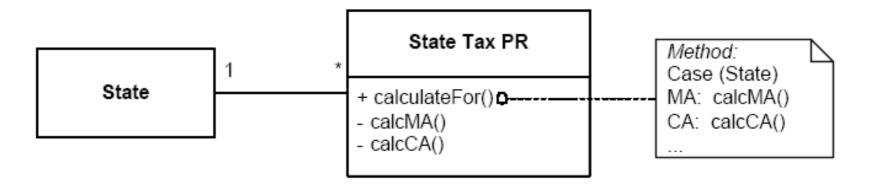


Implementation with Strategy Pattern



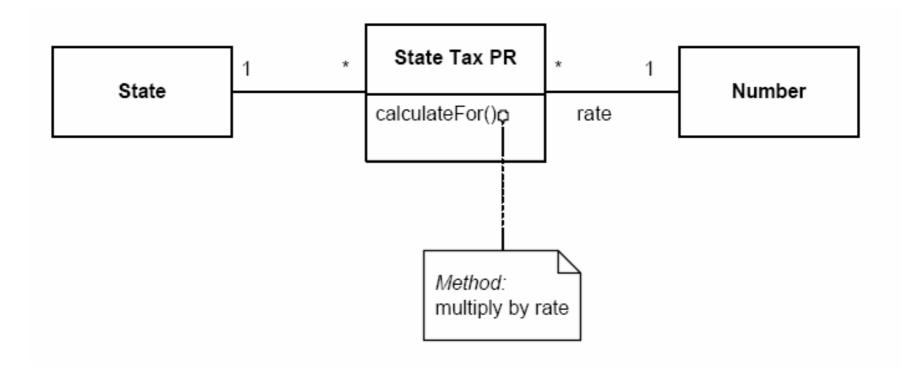


Implementation with Internal Case Statement



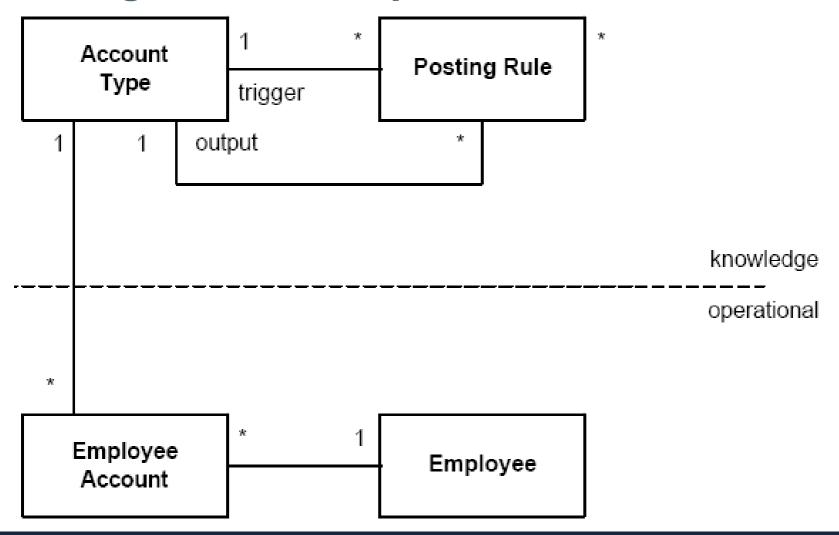


Implementation with Parametrized Method



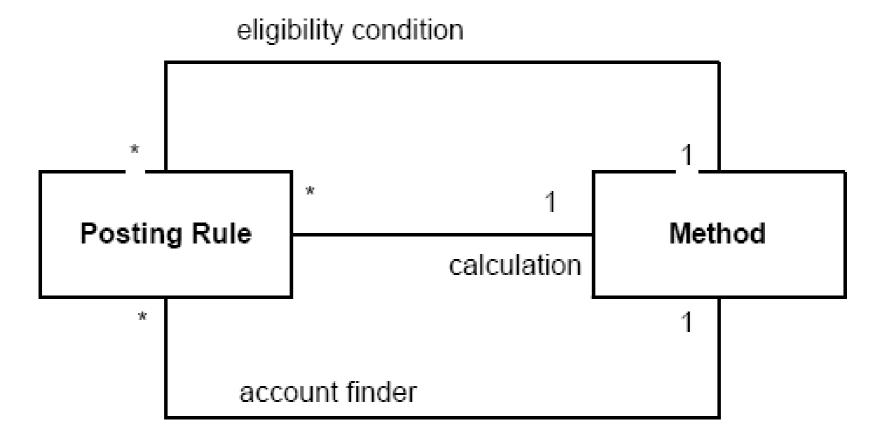


Posting Rules for Many Accounts



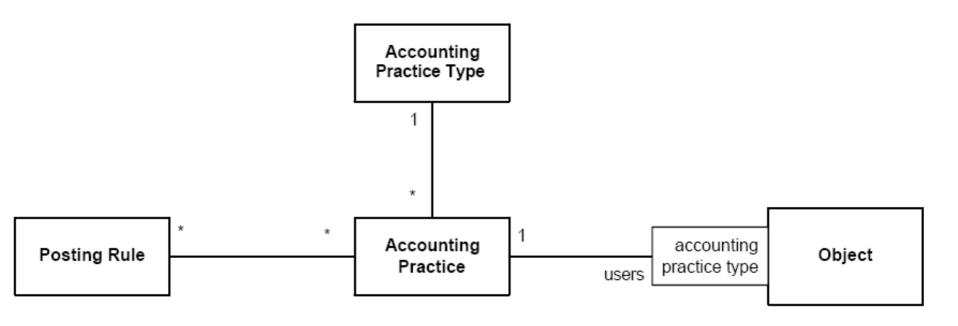


Account finder and Eligibility Conditions



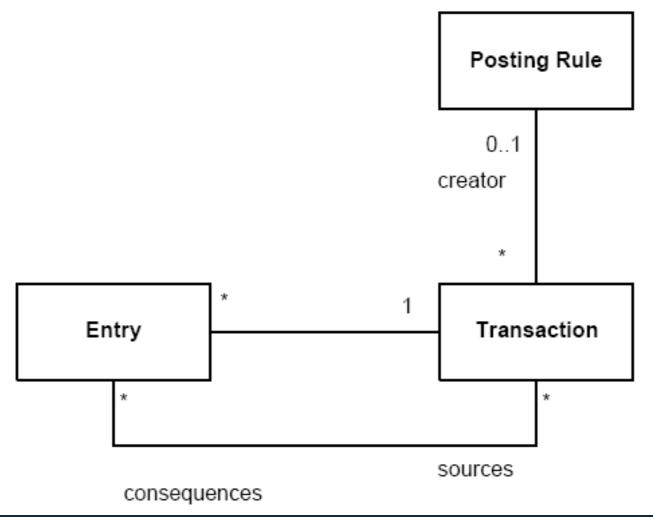


Acount Groups: Accounting Practices



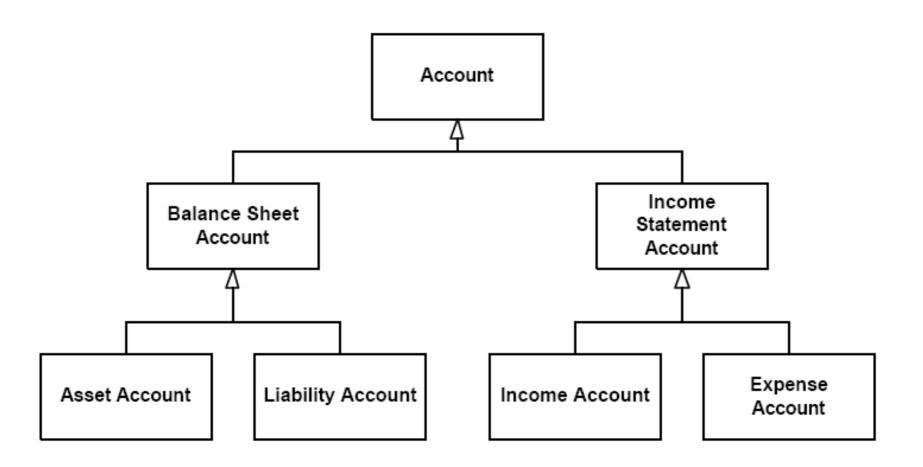


Sources for Transactions



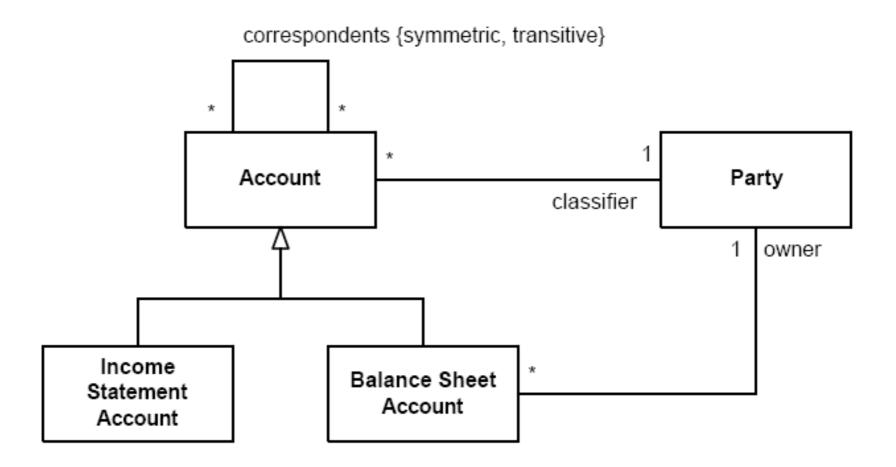


Balance Sheet and Income Statement



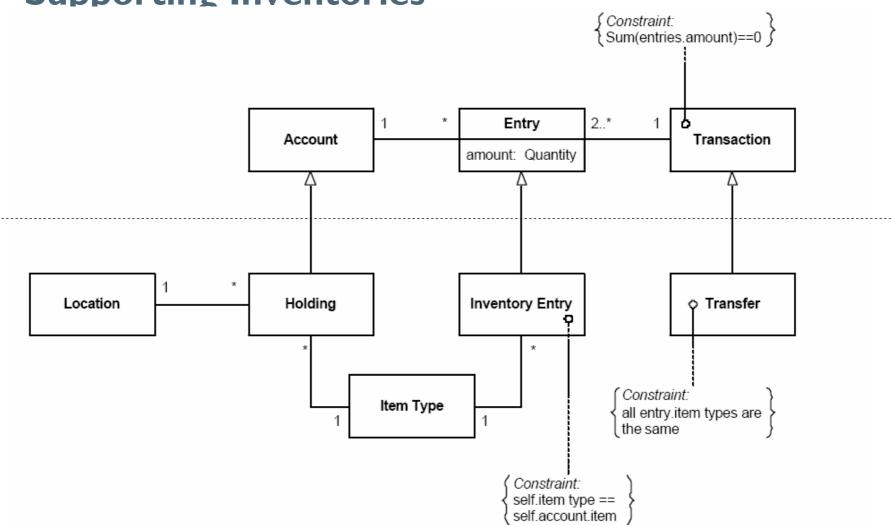


Corresponding Accounts



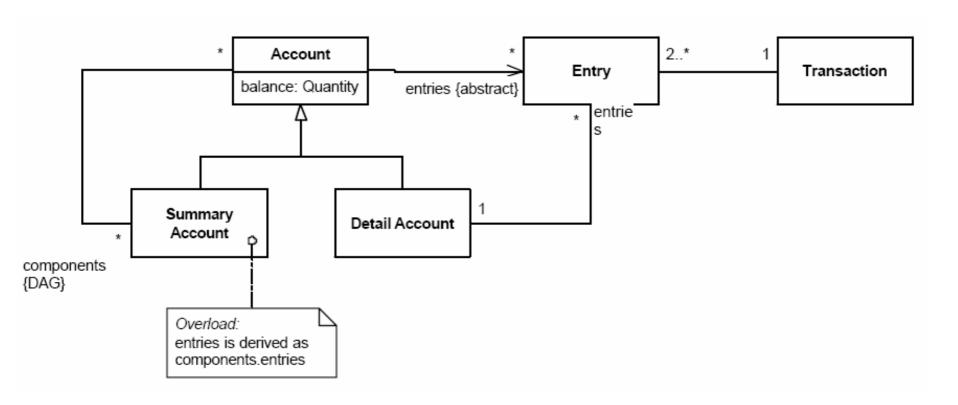


Supporting Inventories



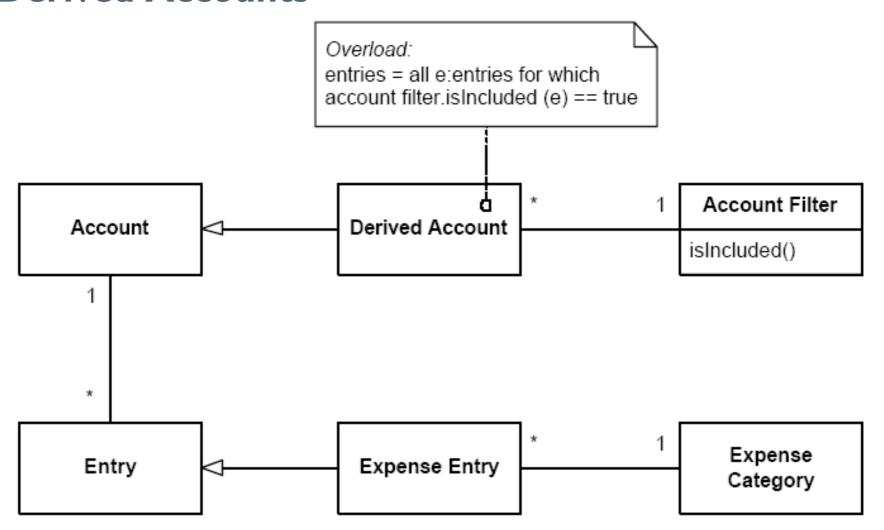


Multiple Summary Accounts





Derived Accounts





Expenses to Abandon Accounting Model

