

MatrixOne

Business Modeler

Chennai

Created: 7-Jun-05

Agenda

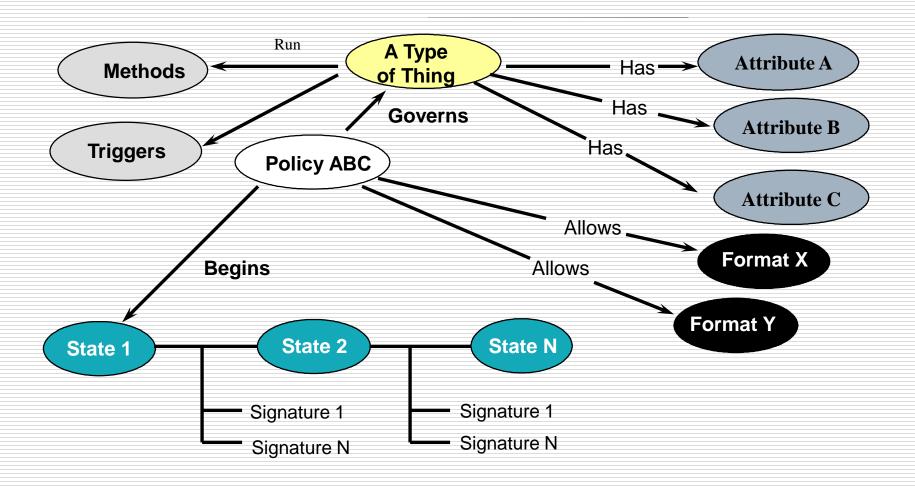


- Business Modeling Interface
- Matrix Schema, Its Object and Relationship
- Design and Implement a Matrix Schema

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Matrix Schema





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The Business Object

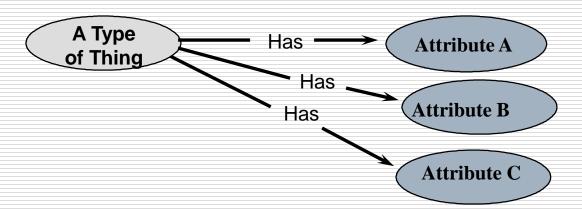




- The first thing needed in a schema is the business object
- Business object is anything the customer wants to manage
- Users own business objects
- Objects may be passed to someone else
- Business objects are also something that the user wants to manage

Attributes

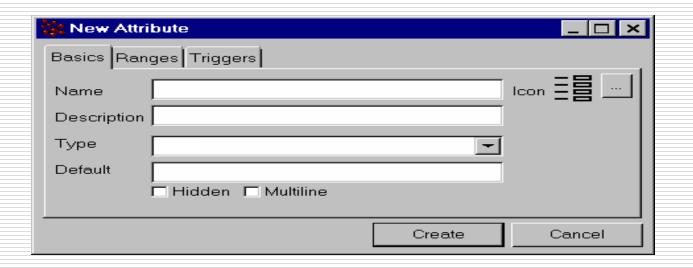




- An attribute is a discrete characteristic of the business object
 Eg: Color, age, gender etc
- When an attribute is assigned, the user will be prompted to enter an attribute value when the object is created

Creating Attribute





Basics: Specify the Name, Description Type of the Attribute.

Ranges: Specify the attribute range using operators.

Triggers: To handle various actions on attributes include appropriate triggers.

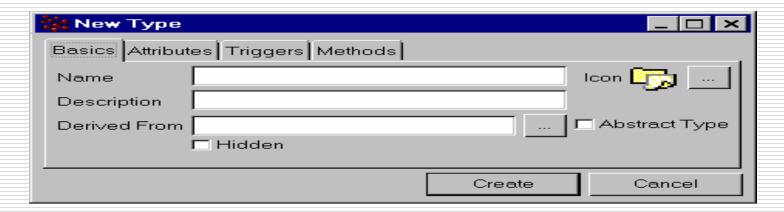
Type



- A type defines a kind of business object and the collection of attributes it can have
- Types can inherit properties from other types
- Abstract types are not used to create any actual instances of the type
- Abstract types are useful only in defining characteristics that are inherited by other object types, and in categorizing classes of similar objects such as documents, components, drawings etc

Creating Type





Basics: Specify the Name, Description and Derived from which Type.

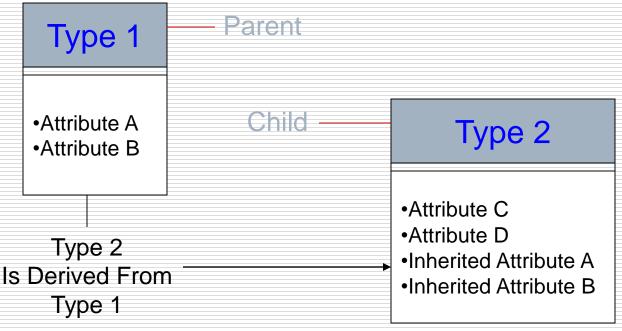
Attributes: Specify the attribute range using operators.

Triggers: To handle various actions on Type include appropriate triggers.

Methods: can add programs.

Derived Types

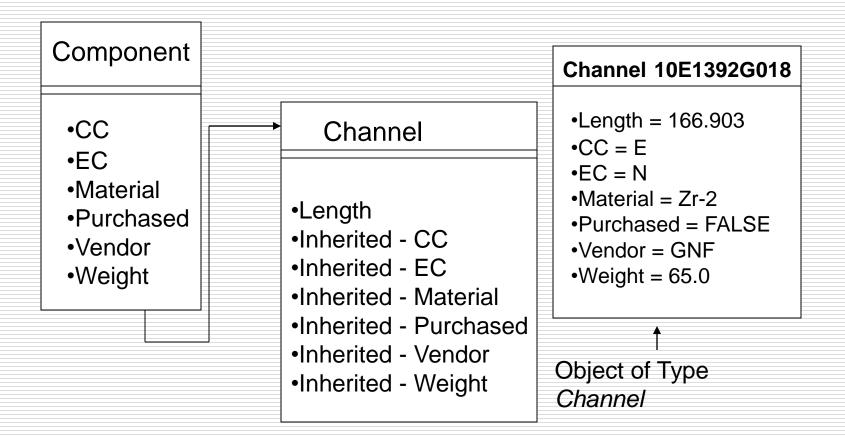




- Derived types are objects that are derived from another object type
- A derived type inherits the attributes of the type from which it was derived

Derived Type Example:





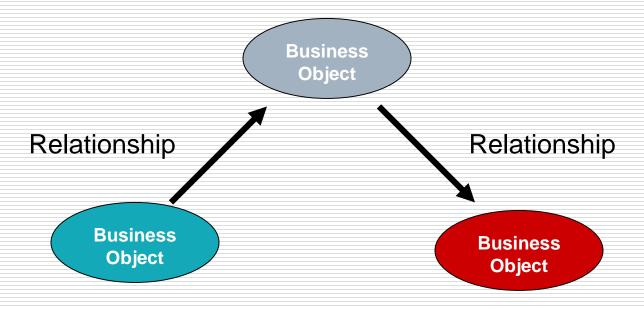
Agenda



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Relationships

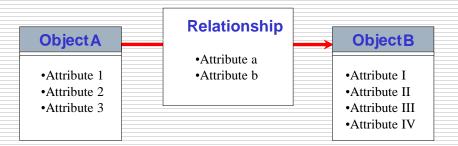




Relationships connect or link business objects

Relationship Example



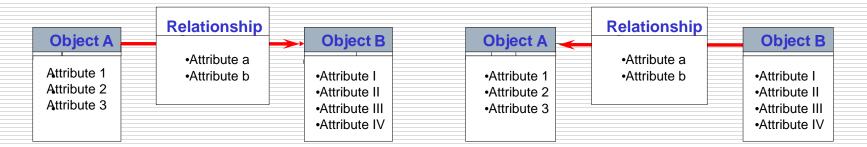


The relationships are directional, they have a starting point - the "FROM" side and an ending point - the "TO" side

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Relationship Types



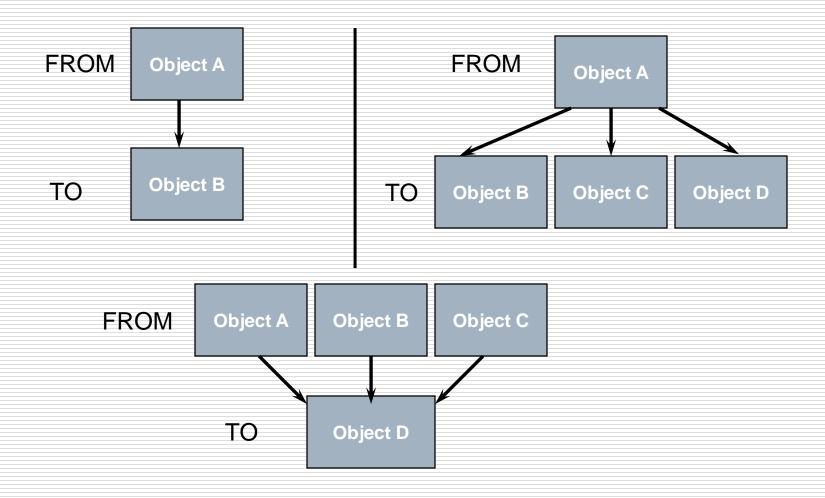


- Equitable Relationships Relationships are equal to each other
- For e.g Object A will be From side for certain relationship
 The same Object will be To side for some other relationship.

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Hierarchical Relationship

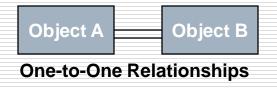


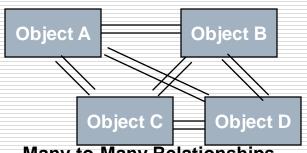


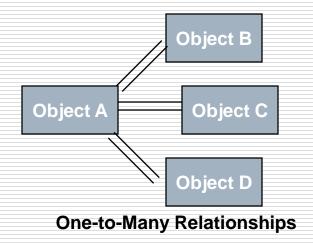
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Relationship Cardinality









Many-to-Many Relationships

- Cardinality refers to the number of connections of this type that business objects can have
- Cardinality can be either One or Many

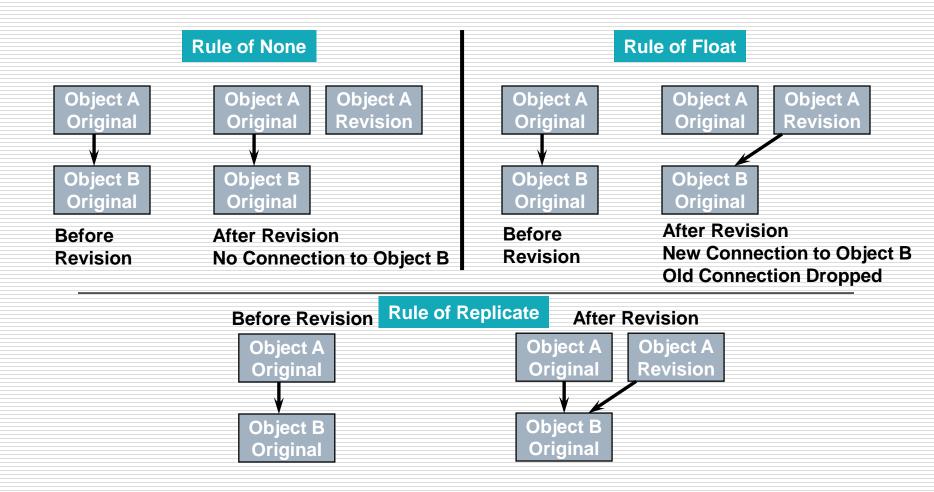
Relationship Revisions



- The Revision Rule specifies how revisions to the connected objects are handled
- There are three types of revisions:
 - None
 - Float
 - Replicate

Relationship Revisions





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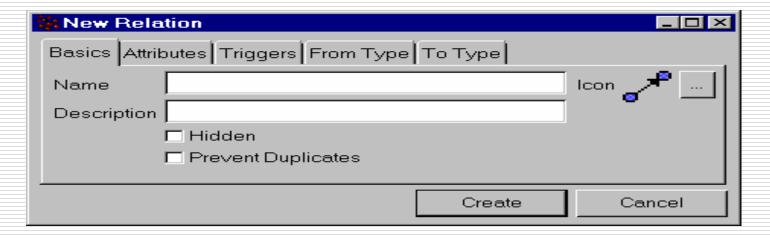
Relationships and Cloning



- Cloning a Business Object allows to create a new Business
 Object of the same Type but with a different Name
- When defining a Relationship, one has to decide what action has to be taken when cloning a Business Object that is already connected to one or more Business Objects

Creating Relationship





Basics: Specify the Name, Description of the Relationship

Attributes: Specify the attributes using relationships.

Triggers: To handle various actions on Type include

appropriate triggers.

From Type: add Type as From connection.

To Type: add Type as To connection.

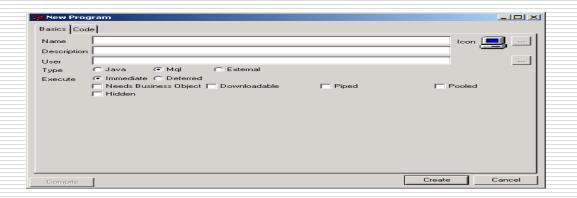
Programs



- A Program is a collection of software code (usually MQL, TCL/TK or an external application - e.g Word, AutoCAD etc)
- Programs can be used for automating Matrix functions and/or viewing/editing/printing files
- Programs are used in Types, Formats and Policies

Creating Program



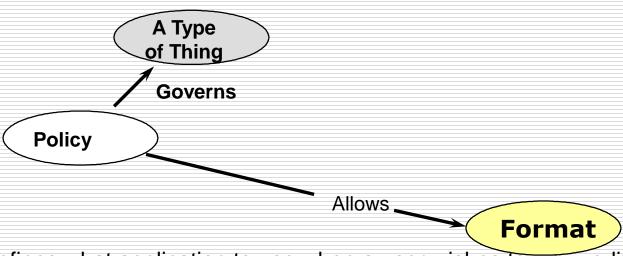


Basics: Specify the Name, Description, User and which type of program

Code: Enter a program to execute while calling this program.

Format

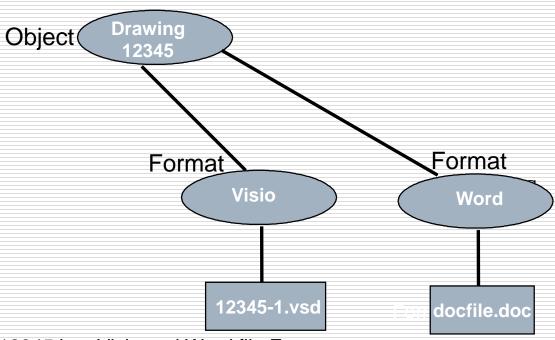




- A Format defines what application to use when a user wishes to view, edit or print a file that is checked in to a Business Object
- Formats are controlled by Policies
- Files are associated with a Format by "Check-In"
- Files are "taken out" of a Format by "Check-Out"

Format Example

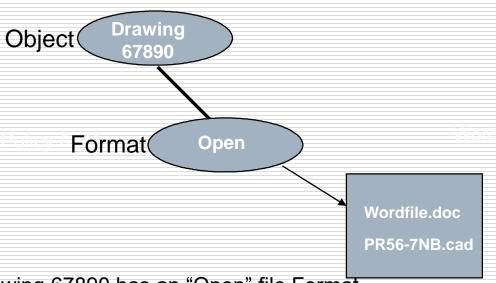




- Drawing 12345 has Visio and Word file Formats
- Formats (ex. vsd, doc, xls, gif etc.) are defined prior to their use
- Formats that are allowed for the Business Objects must be specified when a Policy is defined along with the "default" Format for that Policy

Open Format



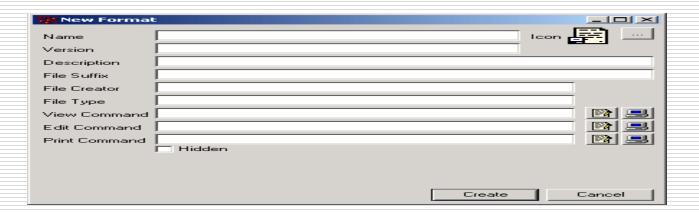


- Drawing 67890 has an "Open" file Format
- It is not necessary to specify a particular Program to execute on View, Edit or Print when defining an Open Format
- The suffix of the checked-in file determines through the Windows System Registry which application to invoke

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Creating Format





Name: Specify the name of Format

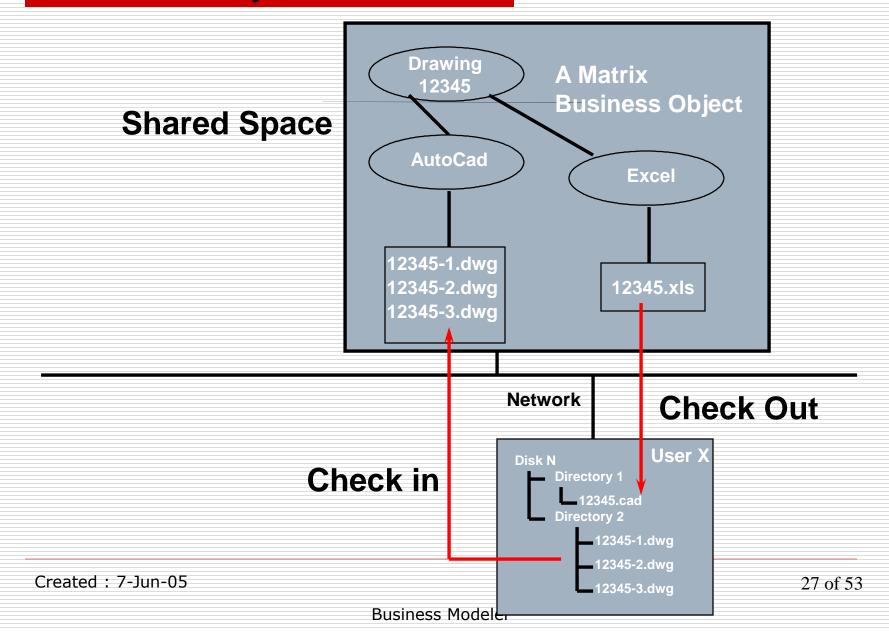
Version: Specify version of the doc.

File Suffix: Specify suffix of the file in this row.

File Type: Specify type of the file(.doc or .xls like this)

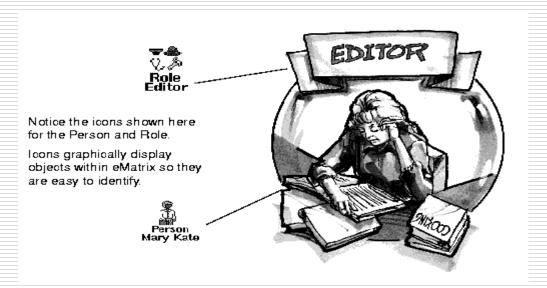
File/Directory Check Out





Person and Role





- Person definition identifies the role played by an individual in an organization
- A person can have more than one role within Matrix
- A role an individual has within Matrix decides the business objects he can own and access

Creating Role



Role Role			_ 🗆 ×
Basics Child Roles Assignments			
Name			Icon 🔀
Description			
Parent Role			
Site			
	□ Hidden		
		Create	Cancel

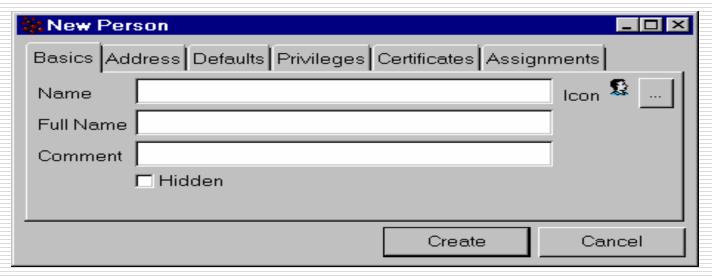
Basics: Specify the name, description and Parent Role of Role

Child Roles: Specify child Roles.

Assignments: Specify some Assignments for this Role

Creating Person





Basics: Specify the name, Full Name and Comment of a Person

Address: Specify the address.

Default: Specify Site and Vault.

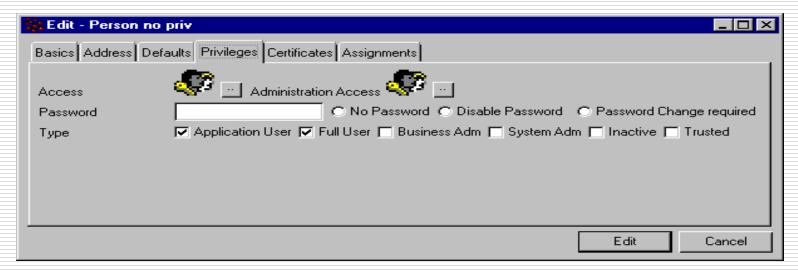
Privileges: Specify the access privilege of a Person

Certificates: Add files

Assignment: Add Group and Role assignment to a Person.

Person - Privileges





Privileges: Specify the access privilege of a Person

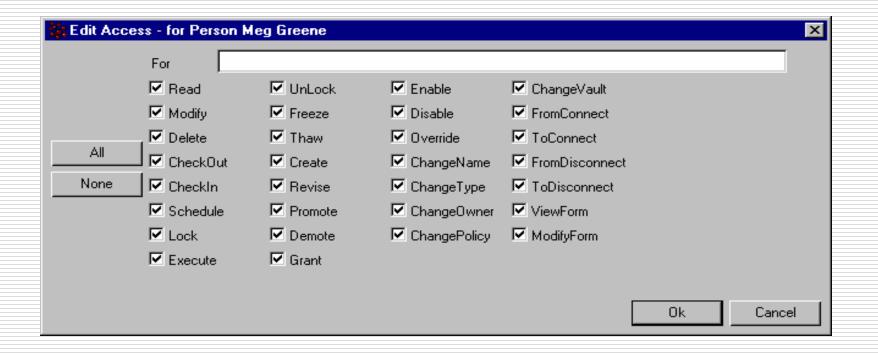
Access: Specify user level access **Password:** set the password here.

Type: Specify the user can access application or business or

system.

Person - Privileges





User can edit Access Privileges

Groups



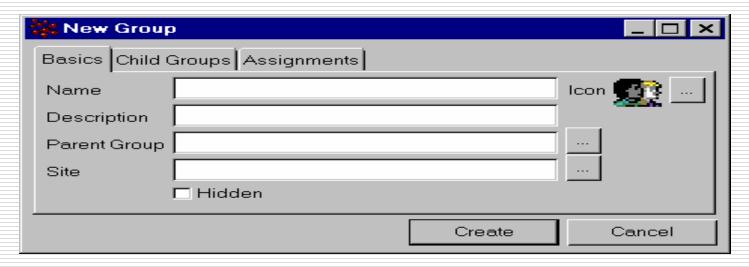




- Identifies a set of people who are members of the same organization
- A group shares information
- A group may share access to business objects
- Creating a group saves from listing every user in a policy definition
- It is easier to build and maintain a group than to specify individual users in all policy definitions

Creating Group





Basics: Specify the Name, Description, Parent Group and Site for a Group.

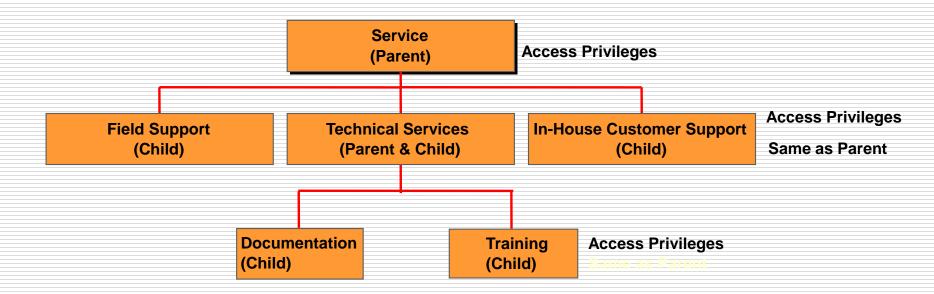
Child Groups: Specify some Group as a Child Group.

Assignment: Add Group and Role assignment to a Person.

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Group Hierarchy

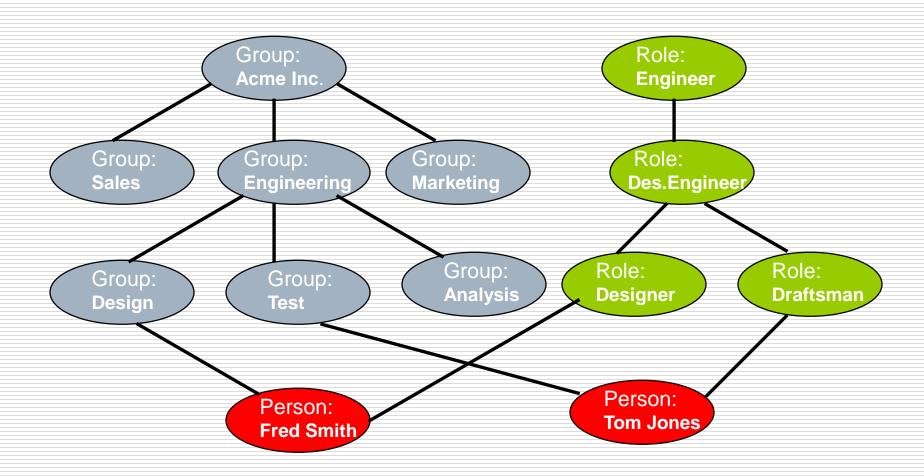




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Relationship Between Groups, Roles and Persons





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Associations



 An association is a grouping of individuals based on common information or aspects that cannot be defined by a Group, Role or Person

Creating Association



New Ass	ociation×
Name	Icon 🥵
Description	
	□ Hidden
Definition	
	Only And Or
	Create Cancel

Name: Specify the Name for Association

Description: Specify some description for Association.

Definition: Add Group and Role assignment to a Person.

Agenda

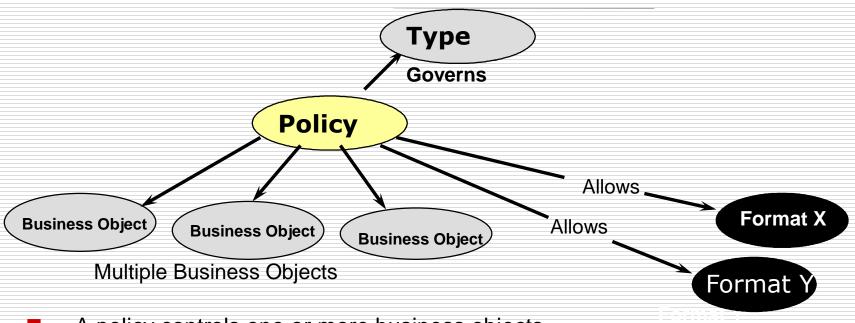


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Policy

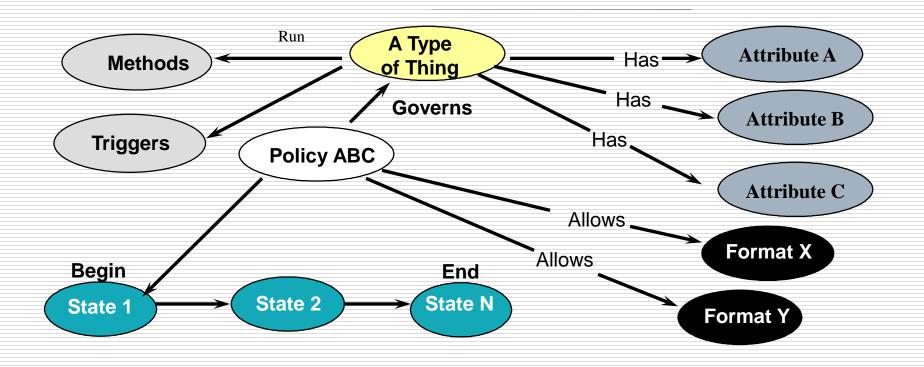




- A policy controls one or more business objects
- It contains the rules that govern access, approvals, life cycle, versioning, revisioning, file formats, stores, notification messages and routing messages

Policy States

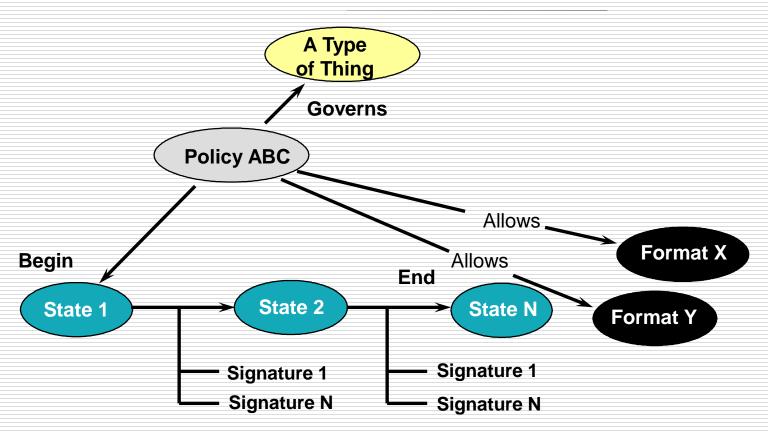




- Policy contains states that define the life cycle of the Business Object
- States have a definite beginning and ending
- The number of states depends on the business process at a particular company

Policy States



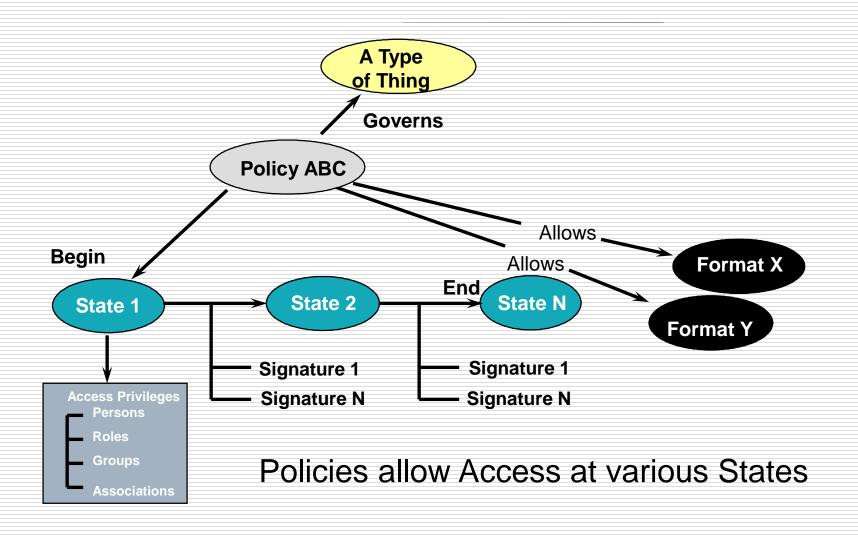


Signatures required to "PROMOTE" Business Object from State 1 to State 2

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Policy States

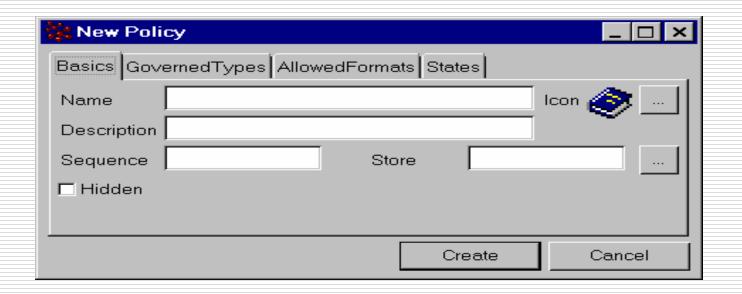




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Creating Policy





Basics: Specify the Name, Description, Sequence and Store

Governed Types: Specify some Types.

Allowed Formats: Add file format

States: Specify Various states for a Policy

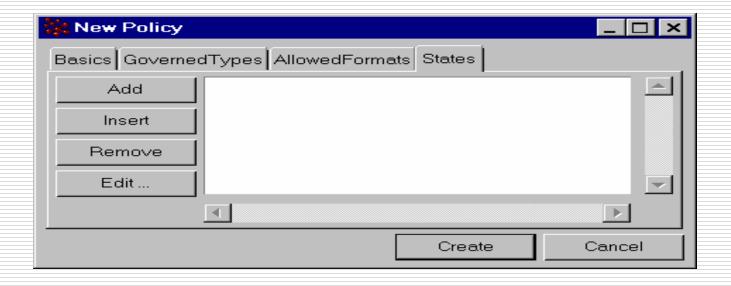
Policy Information



- Parts of a Policy
 - General Information about the Policy
 - States information about the Policy
- General Information
 - Controls the existence of the object instance
 - Provides information about the existence of the Business Object, the types of objects the Policy will govern, the types of allowed formats, the format automatically assigned to each object, where and how checked in files are managed and how revisions are labeled
- States Information
 - Controls the object's creation and what can be done to it after it has been created
 - Provides information about the states or stages in the life cycle of an object
 - The states define who has access to the object, what type of access is allowed, whether the object can be revised and the conditions required for changing state

Creating Policy States





State level user can add state inside Policy and user can insert, edit and remove after creating a state

Edit Trigger in State



Edit Trigger					
Check			Input		
Override			Input		
Action			Input		
			ОК	Cancel	

Check: Trigger program will be executed before the event

occurs

Override: Trigger program can replace the event transaction.

Action: Trigger program will be executed after the event

occurs.

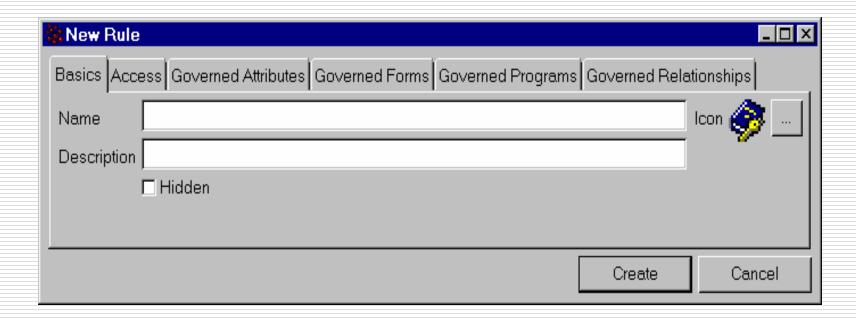
Rule



- Rules are administrative objects that define specific privileges for various Matrix users
- Rules define owner, public and user privileges as well as the Programs,
 Attributes, Forms and Relationships that they govern

Creating Rule





Rule can prevent user access for Attribute, Forms, Programs and Relationships

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Rule Access



- Public Access
- Owner Access
- User Access

Access



Public Access

- Refers to everyone in the Matrix database
- Access limits should be defined when defining Public access

Owner Access

- Owner is the person who initially created the object in the database
- Owner access refers to the specific person who is the current owner of the object instance

User Access

- User access enables to name a specific group, role, person or association who will have access to the object
- User access provides the greatest control in restricting who will or will not have access to an object

Questions







Thank You!!!

Chennai

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