

ClearCase Domain

Introduction

The ClearCase domain lets you extract version control, activity management, workspace management, and VOB meta-data information from ClearCase.

The structure of the ClearCase domain reflects the public external interface of ClearCase, also known as CAL (ClearCase Automation Library). There is a direct correspondence between ClearCase Classes and ClearCase interfaces. Therefore, the ClearCase documentation for CAL may be helpful in understanding and using the ClearCase domain.

Aliases

The following names in the ClearCase domain are aliased in the reporting interface:

Name in Domain	Name in Interface	Item Type / Location
DisplayableConfigSpec ConfigSpec IsActive	ConfigSpec ConfigSpecNoCR IsStarted	Property / View Class
Comment	Description	Property / VOBOBJECT Class
AdditionalGroupsStringArray ReplicasStringArray ExemptUsers	AdditionalGroups Replicas ExcludedUsers	Relationship / VOB Class
ExemptUsers	ExcludedUsers	Relationship / Element Class
ExemptUsers	Excluded Users	Relationship / Branch Class
Unidirectional	IsUnidirectional	Property / Hyperlink Class
ExemptUsers	ExcludedUsers	Relationship / Activity Class
Comment NumberOfExemptUsers	Description NumberOfExcludedUsers	Property / Lock Class
ExemptUsersStringArray	ExcludedUsers	Relationship / Lock Class
EnumValuesArray	EnumValues	Relationship / AttributeType Class
ExemptUsers	ExcludedUsers	Relationship / BranchType Class
ExemptUsers	ExcludedUsers	Relationship / HyperlinkType Class
ExemptUsers	ExcludedUsers	Relationship / LabelType Class
Firing	FiringOrder	Property / TriggerType Class
ActionsArray RestrictionsArray ExemptUsersStringArray InclusionsArray OperationKindsArray ExemptUsers	Actions Restrictions ExemptUsers Inclusions OperationKinds ExcludedUsers	Relationship / TriggerType Class

Name in Domain	Name in Interface	Item Type / Location
Name	Text	Property / Name Class
Value	Text	Property / Value Class

Accessing Objects with Path Names

An object with a path name (such as Element, Version, and Branch) cannot be accessed without a ClearCase view. When a VOB is identified using only a VOB tag, no view is indicated for objects contained in that VOB. To provide a view, use the path name of the VOB as seen through a specific view in the VOBIdentifier parameter of the OPEN command instead of using the VOB tag. This view is then used to resolve the names of objects accessed via the VOB.

The OPEN commands for the ClearCase objects request a VOBIdentifier instead of a VOB tag. (VOBIdentifier signifies that either a VOB tag or a path name \ VOB tag can be entered.)

Activity

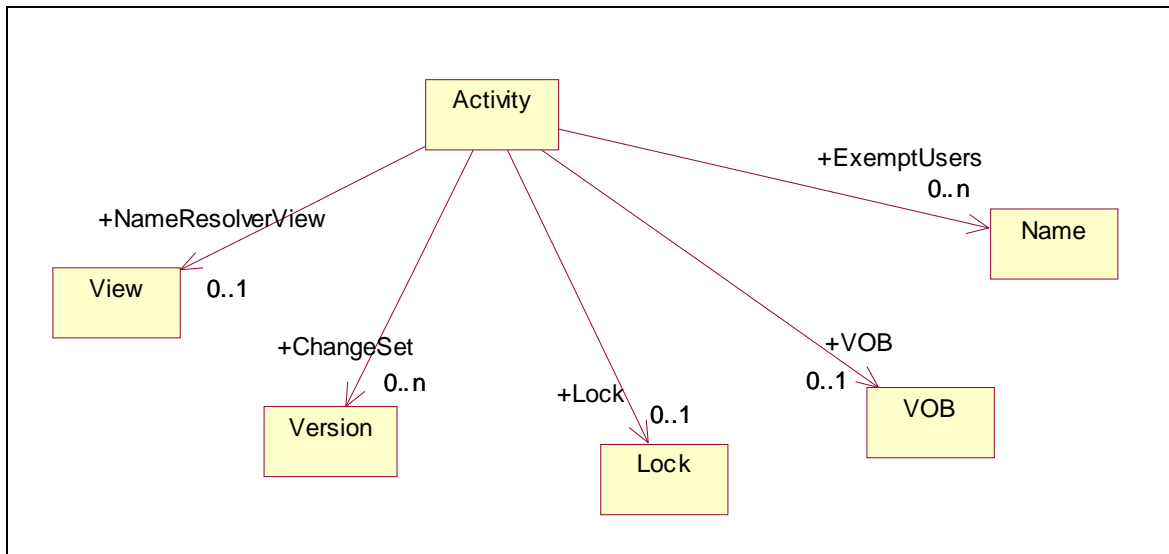
ClearCase Domain

In the UCM model, an activity is a ClearCase object that you use to track the work required to complete a development task. An activity includes a text headline, which describes the task, and a change set, which identifies the versions that you create or modify while working on the activity.

Class Hierarchy: VOBOject>Activity

SubClasses of Activity

This class has no subclasses.



Properties Specific to Activity

Properties	Inherited From	Description
ClearQuestRecordID		In a ClearQuest-enabled project, the ClearQuest record ID.
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
Group		
Headline		Title of this activity.
LockDescription		Description of the lock on this activity.
LockedBy		Name of the user who locked the activity.
LockedOn		Date the activity was locked.
Master		Master replica for this activity.
Name	VOBOject	Name of the VOB object.

Properties	Inherited From	Description
OID	VOBObject	The object identifier for the VOB object.
Owner		In a ClearQuest-enabled project, the user who owns the activity.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this activity.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Activity

Name	Kind	Class	Description
ChangeSet	0..n	Version	Versions in this activity's change set.
ExemptUsers	0..n	Name	List of users exempted from the lock.
Lock	0..1	Lock	Lock on this activity.
NameResolverView	0..1	View	A "best guess" view for resolving the names of versions in a change set.
VOB	0..1	VOB	VOB containing the activity.

Attribute

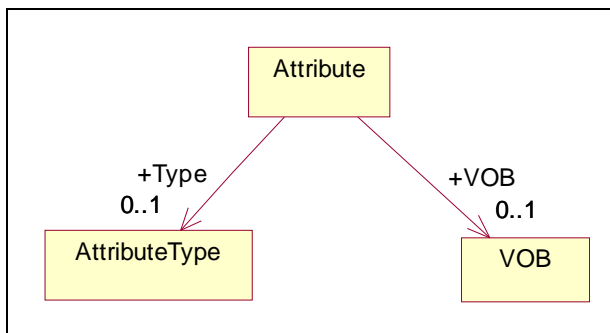
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An attribute is a meta-data annotation attached to a VOB object, in the form of a name/value pair. The names of attributes are specified by user-defined attribute types; values of these attributes can be set by users. For example, a project administrator may create an attribute type whose name is QAed. A user may then attach the attribute QAed with the value “Yes” to a version. An attribute is a VOB object.

Class Hierarchy: Attribute

SubClasses of Attribute

This class has no subclasses.



Properties Specific to Attribute

Properties	Inherited From	Description
Name		Attribute name.
TypeName		Attribute type name.
Value		Attribute value.

Relationships Specific to Attribute

Name	Kind	Class	Description
Type	0..1	AttributeType	Attribute type of this attribute.
VOB	0..1	VOB	VOB containing the object having this attribute.

AttributeType

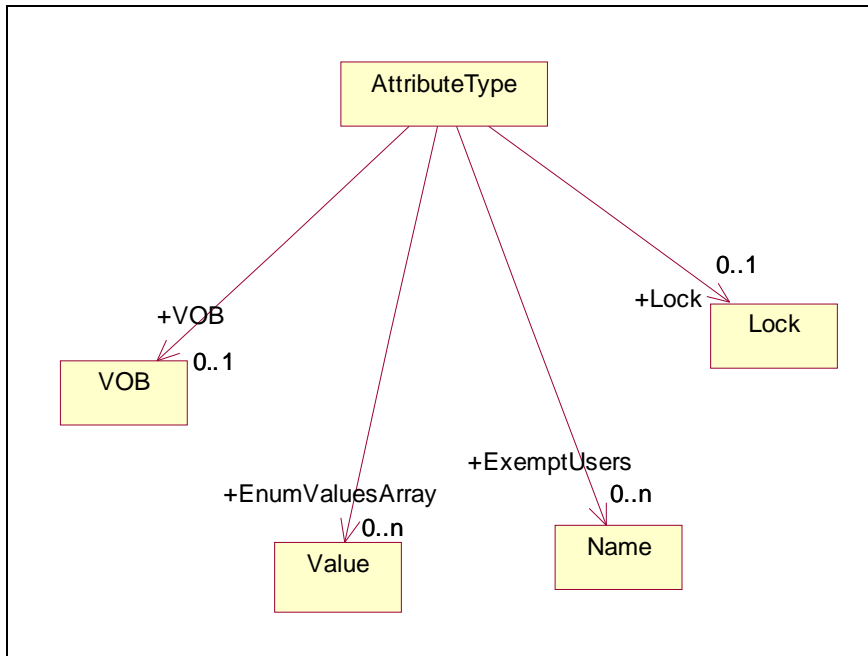
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An attribute type is a VOB object that defines an attribute name for use within a VOB. It constrains the attribute values that can be paired with the attribute name (for example, an integer in the range 1-10).

Class Hierarchy: VOBObject>AttributeType

SubClasses of AttributeType

This class has no subclasses.



Properties Specific to AttributeType

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
Constraint		The constraint for this attribute type.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
DefaultValue		Default value for this attribute type.
Group		Group to which this attribute type belongs.
HasSharedMastership		Whether this attribute type is shared or can be mastered.
LockDescription		User comment for the lock

Properties	Inherited From	Description
LockedBy		Name of the user who locked this attribute type.
LockedOn		The date this attribute type was locked.
LowerIsInRange		Whether or not the lower value is in the range of legal values for this attribute type.
LowerValue		Lower value for this attribute type.
Master		Master replica for this attribute type.
Name	VOBObject	Name of the VOB object.
NumberOfEnumValues		Number of enumerated values for this attribute type.
OID	VOBObject	The object identifier for the VOB object.
Owner		Owner of this attribute type.
Scope		Scope of this attribute type (for example, local to this VOB).
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this attribute type.
TypeName	VOBObject	The VOBObject type name.
UpperIsInRange		Whether or not the upper value is in the range of legal values for this attribute type.
UpperValue		Upper value for this attribute type.
ValueType		Value type for this attribute.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to AttributeType

Name	Kind	Class	Description
EnumValuesArray	0..n	Value	The enumerated values for this attribute type.
ExemptUsers	0..n	Name	List of users who are exempt from the lock.
Lock	0..1	Lock	The lock on this attribute type.
VOB	0..1	VOB	VOB containing this attribute type.

Baseline

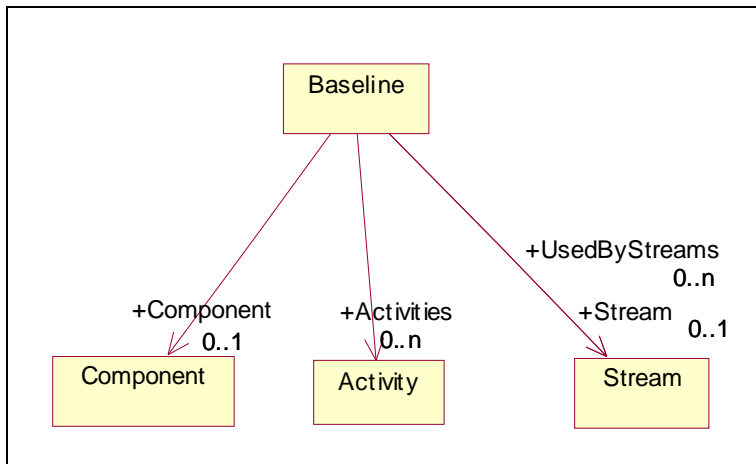
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A ClearCase UCM object that typically represents a stable configuration for one or more components. A baseline identifies activities and one version of every element visible in one or more components.

Class Hierarchy: UCMObject>Baseline

SubClasses of Baseline

This class has no subclasses.



Properties Specific to Baseline

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
Group	UCMObject	Group to which the UCM object belongs.
LabelStatus		Label status for the baseline UCM object.
LockDescription	UCMObject	Comment of the user who locked this UCMObject.
LockedBy	UCMObject	User who locked this UCMObject.
LockedOn	UCMObject	Date on which this UCMObject was locked.
Master	UCMObject	The master replica for the UCM object.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.

Properties	Inherited From	Description
Owner	UCMObject	Owner of the UCM object.
PromotionLevel		Promotion level for the baseline UCM object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	UCMObject	State of the lock on this UCMObject.
Title	UCMObject	Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Baseline

Name	Kind	Class	Description
Activities	0..n	Activity	Activities included in the baseline UCM object.
Component	0..1	Component	Component containing the baseline UCM object.
Stream	0..1	Stream	Stream in which the baseline UCM object was created.
UsedByStreams	0..n	Stream	All of the streams for which the baseline UCM object serves as a foundation.

Branch

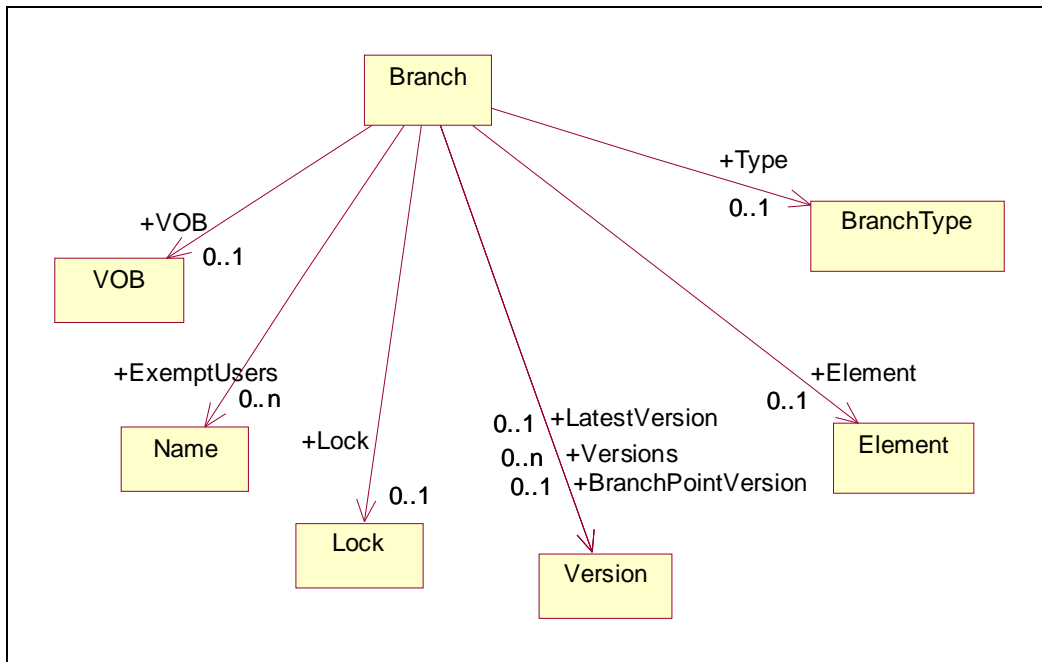
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A branch is an object that specifies a linear sequence of versions of an element. The entire set of versions of an element is called a version tree; it always has a single main branch, and may also have subbranches. Each branch is an instance of a branch type object. A branch is a VOBOject, and thus may have a lock-preventing modification.

Class Hierarchy: VOBOject>Branch

SubClasses of Branch

This class has no subclasses.



Properties Specific to Branch

Properties	Inherited From	Description
BranchPath		Pathname of this branch.
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
ExtendedPath		Extended pathname of the branch.
LockDescription		Description of the current lock on the branch.
LockedBy		Name of the user who locked the branch.
LockedOn		Date the branch was locked.

Properties	Inherited From	Description
Master		Master replica for this branch.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this branch.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Branch

Name	Kind	Class	Description
BranchPointVersion	0..1	Version	Version from which this branch sprouts.
Element	0..1	Element	The element to which this branch belongs.
ExemptUsers	0..n	Name	List of users exempt from the lock.
LatestVersion	0..1	Version	Latest version of this branch
Lock	0..1	Lock	Lock on this branch.
Type	0..1	BranchType	Branch type of this branch.
Versions	0..n	Version	An enumeration of all versions along this branch.
VOB	0..1	VOB	VOB containing this branch.

BranchType

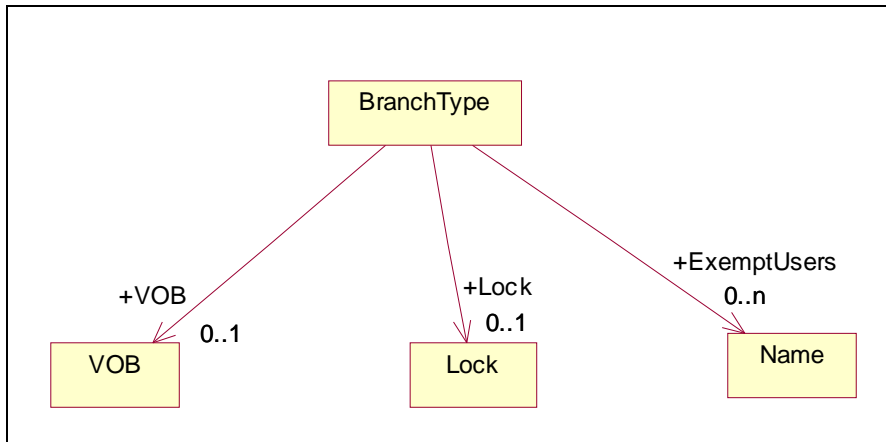
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A branch type defines a branch name for use within a VOB.

Class Hierarchy: VOBOject>BranchType

SubClasses of BranchType

This class has no subclasses.



Properties Specific to BranchType

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
Constraint		The constraint for this branch type.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
Group		The group to which this branch type belongs.
LockDescription		User comment for the lock on this branch type.
LockedBy		Name of the user who locked this branch type.
LockedOn		Date on which this branch type was locked.
Master		The master replica for this branch type.
Name	VOBOject	Name of the VOB object.
OID	VOBOject	The object identifier for the VOB object.
Owner		Owner of this branch type.

Properties	Inherited From	Description
Scope		The scope of this branch type (for example, local to this VOB)
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this branch type.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to BranchType

Name	Kind	Class	Description
ExemptUsers	0..n	Name	List of users who are exempt from the lock on this branch type.
Lock	0..1	Lock	Lock on this branch type.
VOB	0..1	VOB	VOB containing this branch type.

CheckedOutFile

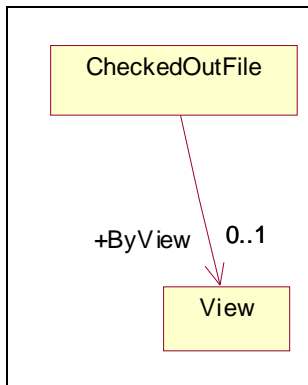
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A checked out file is a placeholder in the VOB database created by the checkout command. This object corresponds to the view-private object (file or directory) that you work with after checking out an element. A checkout will be marked reserved if reserved checkout has been performed (meaning the file is exclusively locked for one user).

Class Hierarchy: VOBOBJECT>File>Version>CheckedOutFile

SubClasses of CheckedOutFile

This class has no subclasses.



Properties Specific to CheckedOutFile

Properties	Inherited From	Description
Comment	VOBOBJECT	Comment associated with the VOB object.
CreatedBy	VOBOBJECT	User who created the object.
CreatedOn	VOBOBJECT	Date the object was created.
ExtendedPath	File	VOB-extended path of this file system object.
Extension	File	File extension (the portion after the final dot).
Identifier	Version	The version's identifier string.
IsCheckedOut	Version	Whether or not this object represents a checked-out file.
IsDifferent	Version	Whether or not this version is different from its predecessor.
IsDirectory	File	Whether or not the file is a directory.
IsHijacked	Version	Whether or not this version is hijacked.
IsLatest	Version	Whether or not this version is the latest on its branch.

Properties	Inherited From	Description
IsReserved		Whether or not this checkout is reserved.
Name	VOBObject	Name of the VOB object.
NameMinusExtension	File	Simple name of the file without the extension and final dot.
OID	VOBObject	The object identifier for the VOB object.
Path	File	Path to this file system object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
SimpleName	File	Simple name of the file, that is, the name of the file without the path.
TypeName	VOBObject	The VOBObject type name.
VersionNumber	Version	This version's version number.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to CheckedOutFile

Name	Kind	Class	Description
ByView	0..1	View	The view to which this file is checked out.

Component

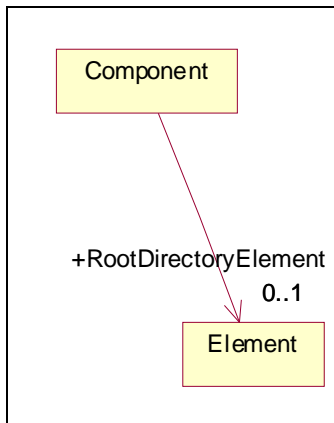
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A ClearCase object that you use to group a set of related directory and file elements within a UCM project. Typically, you develop, integrate, and release the elements that make up a component together. A project must contain at least one component, and it can contain multiple components. Projects can share components.

Class Hierarchy: UCMObject>Component

SubClasses of Component

This class has no subclasses.



Properties Specific to Component

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
Group	UCMObject	Group to which the UCM object belongs.
LockDescription	UCMObject	Comment of the user who locked this UCMObject.
LockedBy	UCMObject	User who locked this UCMObject.
LockedOn	UCMObject	Date on which this UCMObject was locked.
Master	UCMObject	The master replica for the UCM object.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Owner	UCMObject	Owner of the UCM object.

Properties	Inherited From	Description
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	UCMObject	State of the lock on this UCMObject.
Title	UCMObject	Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Component

Name	Kind	Class	Description
RootDirectoryElement	0..1	Element	The root directory for the component.

Element

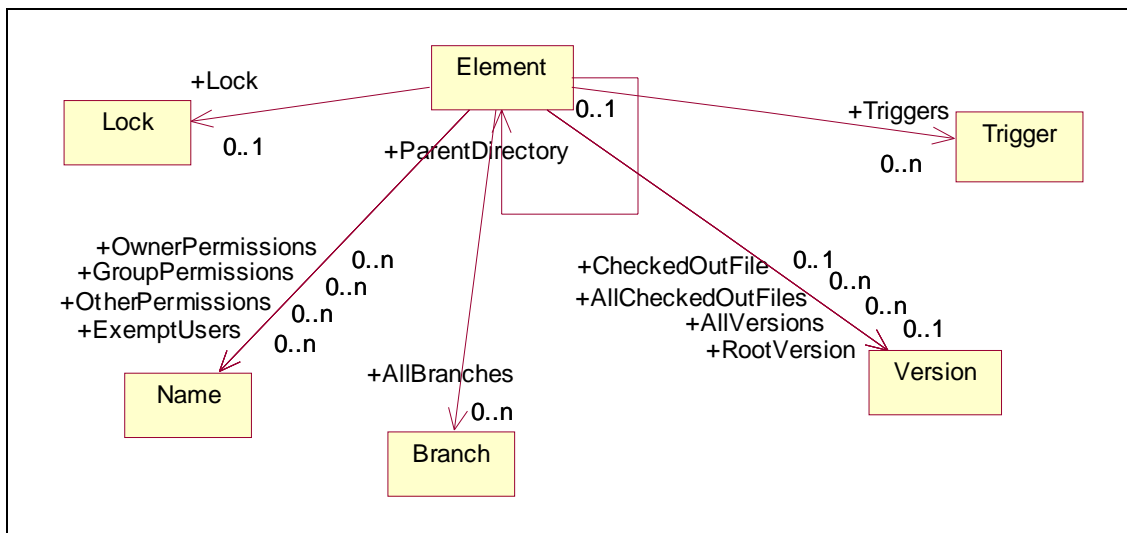
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An element is an object that encompasses a set of versions, organized into a version tree. An element may have a lock if a version of the element is checked out in a view.

Class Hierarchy: VOBOject>File>Element

SubClasses of Element

This class has no subclasses.



Properties Specific to Element

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
ElementType		Element type of this element.
ExtendedPath	File	VOB-extended path of this file system object.
Extension	File	File extension (the portion after the final dot).
Group		Group to which this element belongs.
IsDirectory	File	Whether or not the file is a directory.
LockDescription		Comment associated with the history record for the lock.
LockedBy		User who locked this element.
LockedOn		Date the element was locked.

Properties	Inherited From	Description
Master		Master replica for this element.
Name	VOBObject	Name of the VOB object.
NameMinusExtension	File	Simple name of the file without the extension and final dot.
OID	VOBObject	The object identifier for the VOB object.
Owner		Owner of the element.
Path	File	Path to this file system object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
SimpleName	File	Simple name of the file, that is, the name of the file without the path.
State		Current state of the lock on this element.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Element

Name	Kind	Class	Description
AllBranches	0..n	Branch	All branches in the version tree for this element.
AllCheckedOutFiles	0..n	Version	The versions of the element checked out to any view.
AllVersions	0..n	Version	Versions in the version tree for this element.
CheckedOutFile	0..1	Version	Version of the element checked out to the associated view.
ExemptUsers	0..n	Name	Array of string values containing the names of users exempted from the lock being created.
GroupPermissions	0..n	Name	The group permissions of the element (users within the same group have these permissions).
Lock	0..1	Lock	The lock on this element.
OtherPermissions	0..n	Name	Other permissions of the element (all users).
OwnerPermissions	0..n	Name	The owner permissions of the element (the owner has these permissions).
ParentDirectory		Element	This element's parent directory element.

Name	Kind	Class	Description
RootVersion	0..1	Version	The particular version of this element specified by the version selector.
Triggers	0..n	Trigger	The collection of triggers attached to this file of directory element.

File

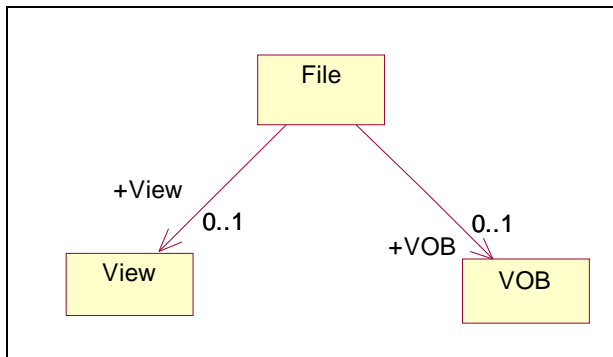
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The File class represents all VOB objects, which are physical files such as elements and versions. A File object does not include view-private objects.

Class Hierarchy: VOBOBJECT>File

SubClasses of File

Element
Version



Properties Specific to File

Properties	Inherited From	Description
Comment	VOBOBJECT	Comment associated with the VOB object.
CreatedBy	VOBOBJECT	User who created the object.
CreatedOn	VOBOBJECT	Date the object was created.
ExtendedPath		VOB-extended path of this file system object.
Extension		File extension (the portion after the final dot).
IsDirectory		Whether or not the file is a directory.
Name	VOBOBJECT	Name of the VOB object.
NameMinusExtension		Simple name of the file without the extension and final dot.
OID	VOBOBJECT	The object identifier for the VOB object.
Path		Path to this file system object.
Selector	VOBOBJECT	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).

Properties	Inherited From	Description
SimpleName		Simple name of the file, that is, the name of the file without the path.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to File

Name	Kind	Class	Description
View	0..1	View	The view associated with this file.
VOB	0..1	VOB	The VOB associated with this file.

Folder

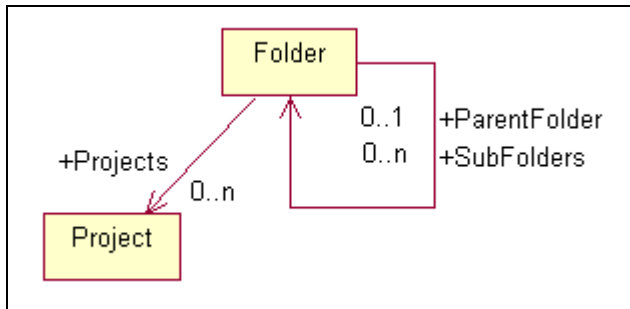
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Folder is a ClearCase UCM object that contains one or more projects.

Class Hierarchy: UCMObject>Folder

SubClasses of Folder

This class has no subclasses.



Properties Specific to Folder

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
Group	UCMObject	Group to which the UCM object belongs.
IsRootFolder		TRUE if the folder is the root of the project hierarchy in its project VOB.
LockDescription	UCMObject	Comment of the user who locked this UCMObject.
LockedBy	UCMObject	User who locked this UCMObject.
LockedOn	UCMObject	Date on which this UCMObject was locked.
Master	UCMObject	The master replica for the UCM object.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Owner	UCMObject	Owner of the UCM object.

Properties	Inherited From	Description
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	UCMObject	State of the lock on this UCMObject.
Title	UCMObject	Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Folder

Name	Kind	Class	Description
ParentFolder		Folder	Name of the parent folder.
Projects	0..n	Project	Projects contained in the folder.
SubFolders		Folder	Folders contained within the folder.

HistoryRecord

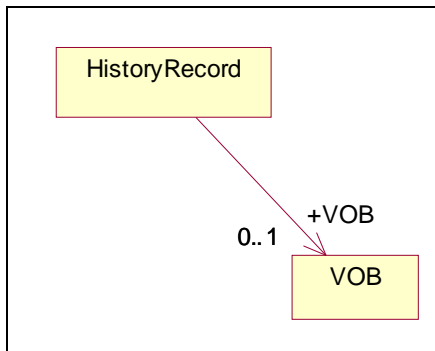
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A history record is meta-data in a VOB, representing an event record involving a VOB object. The history of a file element includes history records for creation of the element, creation of each version of the file, creation of each branch, assignment of attribute to the element and/or its versions, attaching of hyperlinks to the element and/or its versions, and so on.

Class Hierarchy: HistoryRecord

SubClasses of HistoryRecord

This class has no subclasses.



Properties Specific to HistoryRecord

Properties	Inherited From	Description
Comment		Comment associated with the operation indicated by this history record.
Date		Date and time the operation was executed.
EventKind		Indicates the type of operation that was executed.
Group		Name of the login group that performed the operation indicated by this history record.
Host		Name of the host machine from which the operation indicated by this history record was executed.
Selector		An expression used by ClearCase's file typing mechanism to match a file system object (or just the name of one).
UserFullName		Full name of the user who performed the operation indicated by this history record.

Properties	Inherited From	Description
UserLoginName		The login name of the user who performed the operation indicated by this history record.

Relationships Specific to HistoryRecord

Name	Kind	Class	Description
VOB	0..1	VOB	The VOB containing the object to which the operation was applied.

Hyperlink

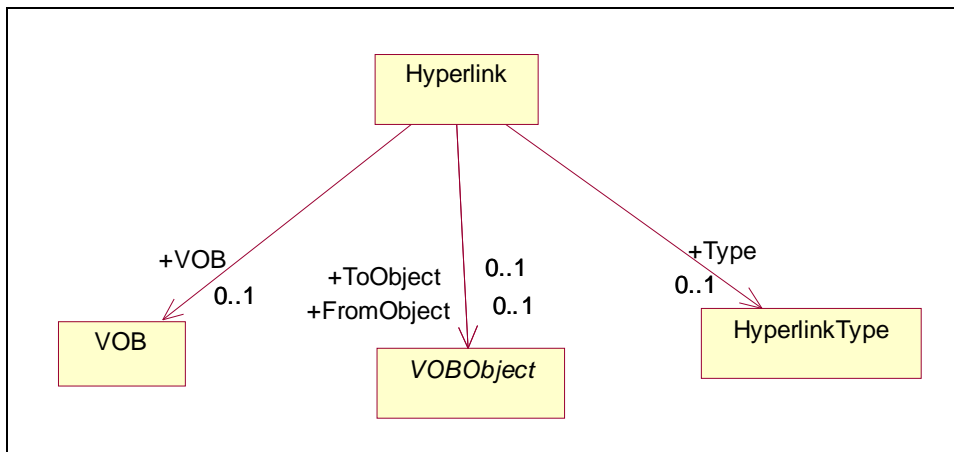
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A hyperlink is a logical pointer between two objects. A hyperlink is a VOB object, it derives its name by referencing another VOB object, a hyperlink type. A hyperlink can have FromText and ToText, which are technically string-valued attributes on the hyperlink object. A hyperlink has a From-object and To-object, which are VOB objects. A hyperlink may be bidirectional, indicating that it can be traversed both from To-object to From-object and From-object to To-object. The IsUnidirectional selector will be False if a hyperlink is bidirectional.

Class Hierarchy: VOBObject>Hyperlink

SubClasses of Hyperlink

This class has no subclasses.



Properties Specific to Hyperlink

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
FromText		The from-text on the from-object of the hyperlink.
Group		The group to which this hyperlink belongs.
IDString		String identifying the hyperlink (type-name@id@vob-selector).
Master		Master replica for this hyperlink.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Owner		Owner of this hyperlink.

Properties	Inherited From	Description
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
ToText		The to-text on the to-object of the hyperlink.
TypeName	VOBObject	The VOBObject type name.
Unidirectional		Whether or not the hyperlink object can be navigated only in one direction (From-object > To-object).
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Hyperlink

Name	Kind	Class	Description
FromObject	0..1	VOBObject	The From-object of the hyperlink.
ToObject	0..1	VOBObject	The To-object of the hyperlink.
Type	0..1	HyperlinkType	The hyperlink type of this hyperlink.
VOB	0..1	VOB	The VOB containing this hyperlink.

HyperlinkType

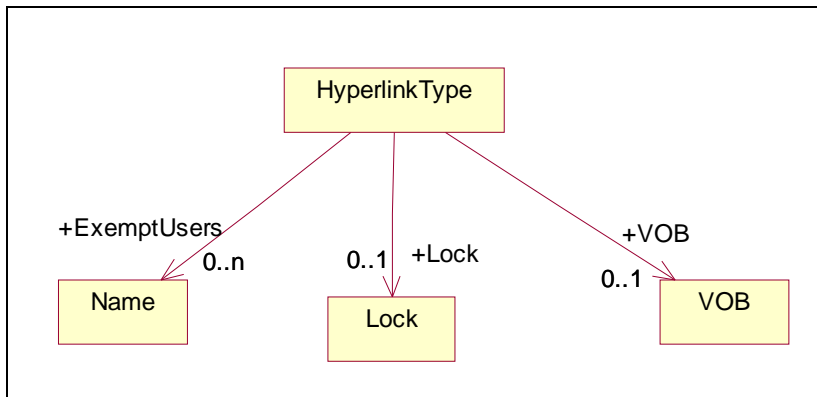
ClearCase Domain

A HyperlinkType is an object that defines a hyperlink name for use within a VOB. A HyperlinkType may be shared or local.

Class Hierarchy: VOBOject>HyperlinkType

SubClasses of HyperlinkType

This class has no subclasses.



Properties Specific to HyperlinkType

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
Group		Group to which this hyperlink type belongs.
HasSharedMastership		Whether this hyperlink type is shared or can be mastered.
LockDescription		The comment of the user who locked this hyperlink type.
LockedBy		Name of the user who locked this hyperlink type.
LockedOn		Date on which this hyperlink type was locked.
Master		The master replica for this hyperlink type.
Name	VOBOject	Name of the VOB object.
OID	VOBOject	The object identifier for the VOB object.
Owner		Owner of this hyperlink type.
Scope		Scope of this hyperlink type (for example, local to this VOB).

Properties	Inherited From	Description
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this hyperlink type.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to HyperlinkType

Name	Kind	Class	Description
ExemptUsers	0..n	Name	The list of users who are exempt from the lock.
Lock	0..1	Lock	Lock on this hyperlink type
VOB	0..1	VOB	The VOB containing this hyperlink type.

Label

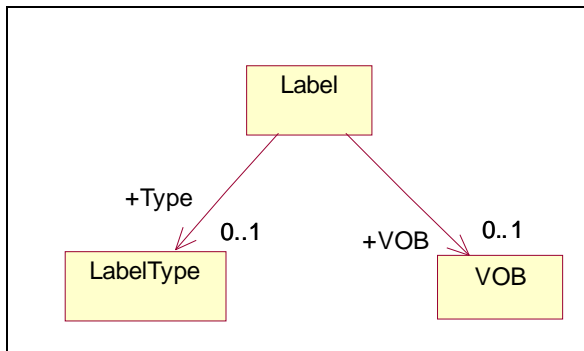
ClearCase Domain

A label is an instance of a LabelType object, supplying a user-defined name for a version. One or more labels may be assigned to a given version.

Class Hierarchy: Label

SubClasses of Label

This class has no subclasses.



Properties Specific to Label

Properties	Inherited From	Description
TypeName		Label type name.

Relationships Specific to Label

Name	Kind	Class	Description
Type	0..1	LabelType	The label type of this label.
VOB	0..1	VOB	The VOB containing the labeled version.

LabelType

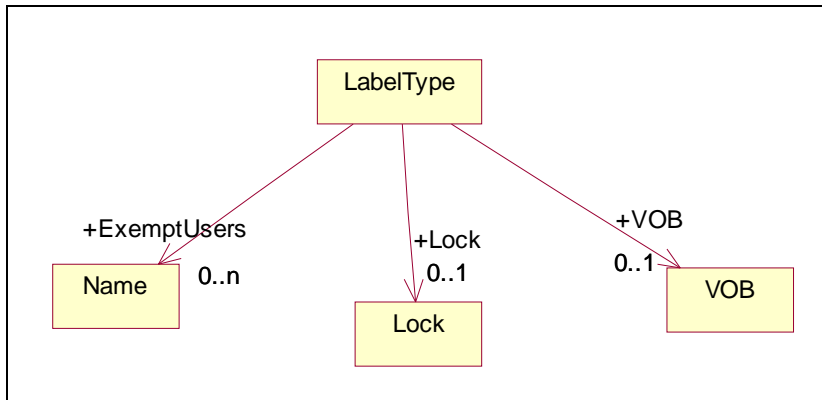
ClearCase Domain

A label type is a type object that defines a version label for use within a VOB.

Class Hierarchy: VOBOject>LabelType

SubClasses of LabelType

This class has no subclasses.



Properties Specific to LabelType

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
Constraint		Constraint for this label type.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
Group		Group to which this label type belongs.
HasSharedMastership		Whether this label type is shared or can be mastered.
LockDescription		Comment of the user who locked this label type.
LockedBy		Name of the user who locked this label type.
LockedOn		Date on which this label type was locked.
Master		The master replica for this label type.
Name	VOBOject	Name of the VOB object.
OID	VOBOject	The object identifier for the VOB object.
Owner		Owner of this label type.

Properties	Inherited From	Description
Scope		Whether this label type is global for VOBs using this as an admin VOB or local to this VOB.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this label type.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to LabelType

Name	Kind	Class	Description
ExemptUsers	0..n	Name	The list of users who are exempt from the lock on this label type.
Lock	0..1	Lock	The lock on this label type.
VOB	0..1	VOB	The VOB containing this label type.

Lock

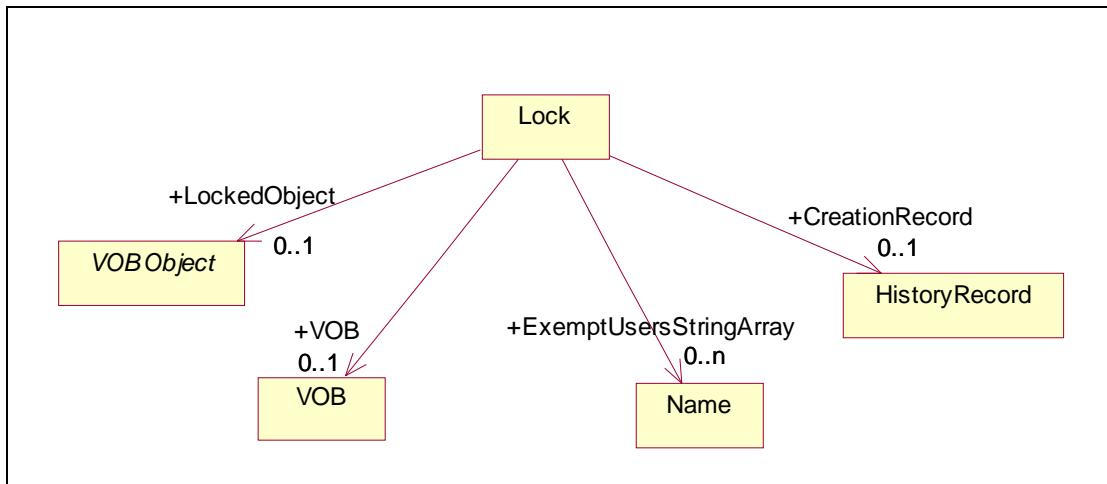
ClearCase Domain

A lock is a mechanism that prevents a VOB object from being modified (for file system objects) or from being instantiated (for type objects).

Class Hierarchy: Lock

SubClasses of Lock

This class has no subclasses.



Properties Specific to Lock

Properties	Inherited From	Description
Comment		User's comment for the lock.
CreatedBy		Name of the user who created the lock.
CreatedOn		Date the lock was created.
Index		An index to the lock.
IsObsolete		Whether the locked object is marked as obsolete.
NumberOfExemptUsers		The number of users who are exempt from this lock.
Selector		An expression used by ClearCase's file typing mechanism to match a file system object (or just the name of one).

Relationships Specific to Lock

Name	Kind	Class	Description
CreationRecord	0..1	HistoryRecord	Creation record for this lock.
ExemptUsersStringArray	0..n	Name	Users who are exempt from this lock.
LockedObject	0..1	VOBObject	The object held by this lock.
VOB	0..1	VOB	The VOB in which this lock resides.

Name

ClearCase Domain

A string representing a name in a list such as the name of a user or the name of a permission on a file. The meaning depends on the context in which it is used.

Class Hierarchy: Name

SubClasses of Name

This class has no subclasses.

Properties Specific to Name

Properties	Inherited From	Description
Name		Simple name string.

Relationships Specific to Name

This class has no relationships.

Project

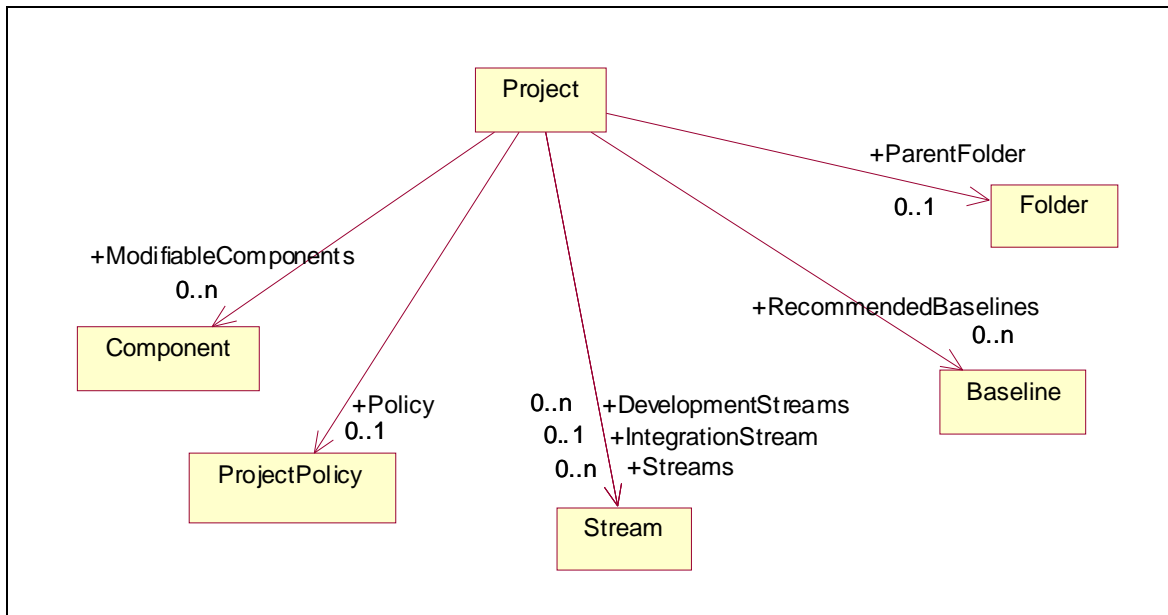
ClearCase Domain

A Project defines a set of development policies and a set of configurations used in a development effort.

Class Hierarchy: UCMObject>Project

SubClasses of Project

This class has no subclasses.



Properties Specific to Project

Properties	Inherited From	Description
ClearQuestDatabaseName		Name of the ClearQuest database linked to the CRM-enabled project.
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
Group	UCMObject	Group to which the UCM object belongs.
HasStreams		TRUE if there are any streams associated with the project.
IsCRMEEnabled		TRUE if the project is CRM enabled (that is, it is linked to a ClearQuest database).

Properties	Inherited From	Description
LockDescription	UCMObject	Comment of the user who locked this UCMObject.
LockedBy	UCMObject	User who locked this UCMObject.
LockedOn	UCMObject	Date on which this UCMObject was locked.
Master	UCMObject	The master replica for the UCM object.
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Owner	UCMObject	Owner of the UCM object.
RequiredPromotionLevel		The minimum promotion level a baseline must have to be a recommended baseline in a rebase operation.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	UCMObject	State of the lock on this UCMObject.
Title	UCMObject	Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Project

Name	Kind	Class	Description
DevelopmentStreams	0..n	Stream	The development streams of the project.
IntegrationStream	0..1	Stream	Integration stream for the project.
ModifiableComponents	0..n	Component	The set of components that can be modified by the project.
ParentFolder	0..1	Folder	Folder containing the project.
Policy	0..1	ProjectPolicy	Policy settings associated with the project.
RecommendedBaselines	0..n	Baseline	The project's list of recommended baselines.
Streams	0..n	Stream	Streams for the project.

ProjectPolicy

ClearCase Domain

A project's policies specifies how developers access and modify sets of source files and directories (called components). To record and configure the development work that proceeds on components, projects use the following objects:

Baseline
Stream
Activity

Class Hierarchy: ProjectPolicy

SubClasses of ProjectPolicy

This class has no subclasses.

Properties Specific to ProjectPolicy

Properties	Inherited From	Description
DeliverRequireCheckin		TRUE if delivery is denied from a development stream that has checkouts.
DeliverRequireRebase		TRUE if development stream must be based on the current recommended baselines before it can be used to deliver changes to the integration stream.
UNIXDevelopmentSnapshot		Recommended snapshot views for development work on UNIX platforms.
UNIXIntegrationSnapshot		Recommended snapshot views for integration work on UNIX platforms.
WinDevelopmentSnapshot		Recommended snapshot views for development work on Window platforms.
WinIntegrationSnapshot		Recommended snapshot views for integration work on Window platforms.

Relationships Specific to ProjectPolicy

This class has no relationships.

ProjectVOB

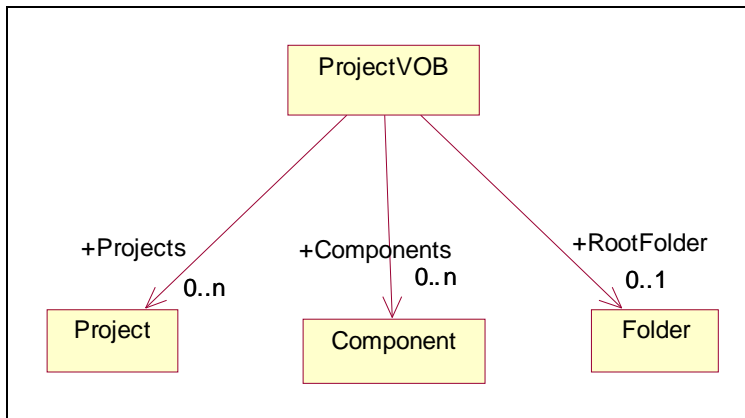
ClearCase Domain

A special type of VOB used in the Unified Configuration Management (UCM) facilities of ClearCase. Contains some additional properties that a VOB does not.

Class Hierarchy: VOB>ProjectVOB

SubClasses of ProjectVOB

This class has no subclasses.



Properties Specific to ProjectVOB

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
DefaultPromotionLevel		Default promotion level in the project VOB.
Group	VOB	Group to which this VOB belongs.
HasMSDOSTextMode	VOB	Whether or not this VOB has MS-DOS text mode enabled.
Host	VOB	Host on which the storage area for this VOB resides.
IsMounted	VOB	Whether or not the VOB is mounted.
IsReplicated	VOB	Whether or not this VOB is replicated.
LockDescription	VOB	Description of the lock for the VOB.
LockedBy	VOB	Name of the user who locked the VOB.
LockedOn	VOB	Date the VOB was locked

Properties	Inherited From	Description
Name	VOBObject	Name of the VOB object.
NumberOfAdditionalGroups	VOB	Number of additional groups to which this VOB belongs.
NumberOfPromotionLevels		Number of promotion levels in the project VOB.
NumberOfReplicas	VOB	The number of replica names for the VOB family of this VOB, if this VOB is replicated.
OID	VOBObject	The object identifier for the VOB object.
Owner	VOB	Owner of the VOB.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	VOB	State of the lock on the VOB.
TagName	VOB	The VOB-tag name.
ThisReplica	VOB	Replica name for this VOB, if the VOB is replicated.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to ProjectVOB

Name	Kind	Class	Description
Components	0..n	Component	Components in the project VOB.
Projects	0..n	Project	Projects in the project VOB.
RootFolder	0..1	Folder	The root folder in the project VOB.

Region

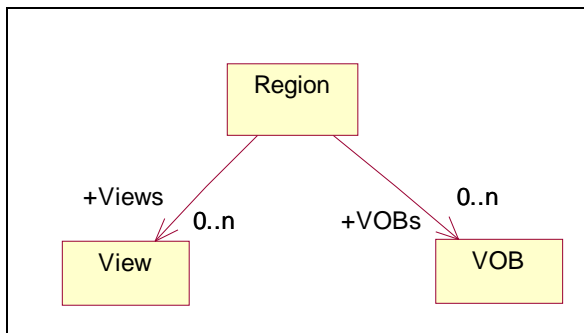
ClearCase Domain

Region is a ClearCase file. A network region is a logical subset of a local area network, within which all hosts refer to VOB storage directories and view storage directories with the same network path. The ClearCase domain supports retrieval of VOBs and Views within a region.

Class Hierarchy: Region

SubClasses of Region

This class has no subclasses.



Properties Specific to Region

Properties	Inherited From	Description
Region		Name of the region.

Relationships Specific to Region

Name	Kind	Class	Description
Views	0..n	View	Views contained within the region.
VOBs	0..n	VOB	VOBs contained within the region.

Stream

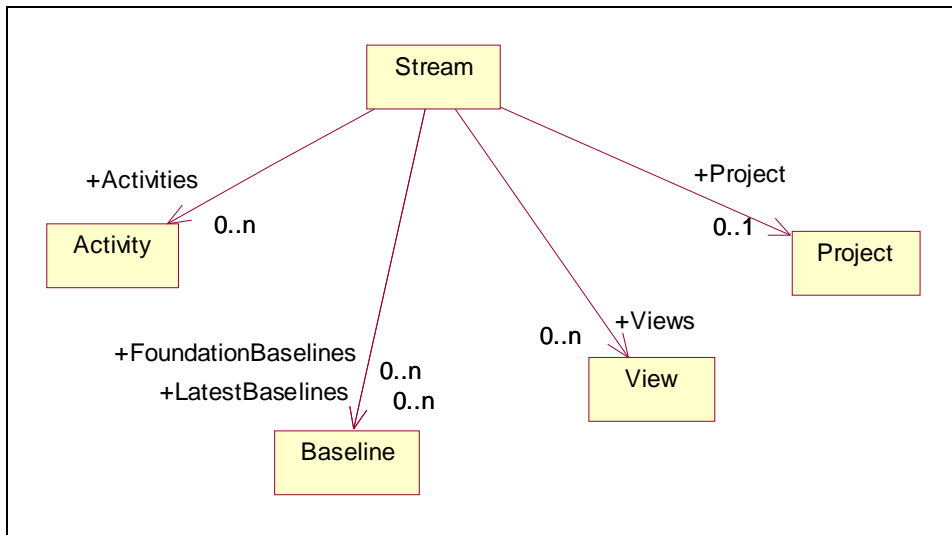
ClearCase Domain

Stream is a mechanism for creating and recording configurations. A stream identifies the exact set of versions currently available for you to view, modify, or build.

Class Hierarchy: UCMObject>Stream

SubClasses of Stream

This class has no subclasses.



Properties Specific to Stream

Properties	Inherited From	Description
Comment	VOBObject	Comment associated with the VOB object.
CreatedBy	VOBObject	User who created the object.
CreatedOn	VOBObject	Date the object was created.
Group	UCMObject	Group to which the UCM object belongs.
HasActivities		TRUE if there are any activities associated with the stream.
IsIntegrationStream		TRUE if the stream is an integration stream in the project.
LockDescription	UCMObject	Comment of the user who locked this UCMObject.
LockedBy	UCMObject	User who locked this UCMObject.
LockedOn	UCMObject	Date on which this UCMObject was locked.
Master	UCMObject	The master replica for the UCM object.

Properties	Inherited From	Description
Name	VOBObject	Name of the VOB object.
OID	VOBObject	The object identifier for the VOB object.
Owner	UCMObject	Owner of the UCM object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State	UCMObject	State of the lock on this UCMObject.
Title	UCMObject	Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Stream

Name	Kind	Class	Description
Activities	0..n	Activity	Activities associated with the Stream.
FoundationBaselines	0..n	Baseline	The foundation baselines for the stream for all components.
LatestBaselines	0..n	Baseline	The latest baselines in the stream for all components.
Project	0..1	Project	Project for the stream.
Views	0..n	View	The set of views associated with the stream.

Trigger

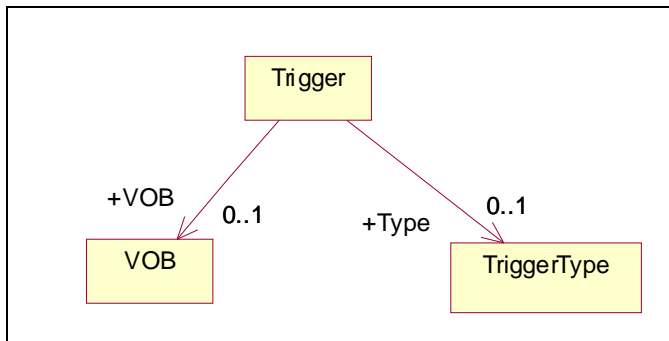
ClearCase Domain

A trigger is a monitor that specifies one or more standard programs or built-in actions to be executed automatically whenever a certain ClearCase operation is performed. A trigger is associated with a TriggerType object, which groups triggers of similar properties.

Class Hierarchy: Trigger

SubClasses of Trigger

This class has no subclasses.



Properties Specific to Trigger

Properties	Inherited From	Description
IsOnAttachedList		Whether this trigger is on the attached list of the element.
IsOnInheritanceList		Whether this trigger is on the inheritance list of an element, if the element is a directory element.
TypeName		The trigger type name.

Relationships Specific to Trigger

Name	Kind	Class	Description
Type	0..1	TriggerType	Trigger type of this element trigger.
VOB	0..1	VOB	The VOB containing this element trigger.

TriggerType

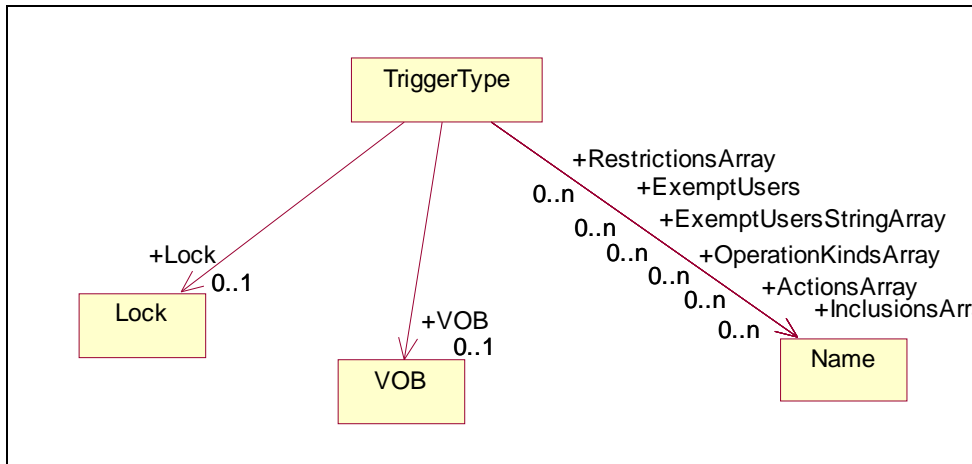
ClearCase Domain

A trigger type is an object through which triggers are defined. The trigger kind for a trigger type includes element, all-element, and type. Instances of an element trigger type can be attached to one or more individual elements. An all-element trigger type is implicitly attached to all elements in a VOB. A type trigger type is attached to a specified collection of type object.

Class Hierarchy: VOBOject>TriggerType

SubClasses of TriggerType

This class has no subclasses.



Properties Specific to TriggerType

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
DebugPrinting		Whether or not debug printing happens when the trigger fires.
Firing		The trigger type firing order, before or after the operation (pre-op or post-op).
Group		Group to which this trigger type belongs.
KindOfTrigger		The kind of trigger for this trigger type.
LockDescription		Comment of the user who locked this trigger type.
LockedBy		User who locked this trigger type.
LockedOn		Date on which this trigger type was locked.

Properties	Inherited From	Description
Name	VOBObject	Name of the VOB object.
NumberOfActions		Number of actions for this trigger type.
NumberOfExemptUsers		Number of users for whom this trigger type does not fire.
NumberOfInclusions		Number of inclusions for this element trigger type.
NumberOfOperationKinds		Number of operation kinds which fire this trigger type.
NumberOfRestrictions		Number of restrictions for this trigger type
OID	VOBObject	The object identifier for the VOB object.
Owner		Owner of this trigger type.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this trigger type.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to TriggerType

Name	Kind	Class	Description
ActionsArray	0..n	Name	An array of action/value pairs for this trigger type (that is, a type followed by one or two values).
ExemptUsers	0..n	Name	The users exempted from the firing of triggers for this trigger type.
ExemptUsersStringArray	0..n	Name	Array of users who are exempt from this trigger type.
InclusionsArray	0..n	Name	The inclusion list for this trigger type.
Lock	0..1	Lock	The lock on this trigger type.
OperationKindsArray	0..n	Name	Array of kinds of operations which fire this trigger type.
RestrictionsArray	0..n	Name	The restriction list for this element trigger type.
VOB	0..1	VOB	The VOB containing this trigger type.

UCMObject

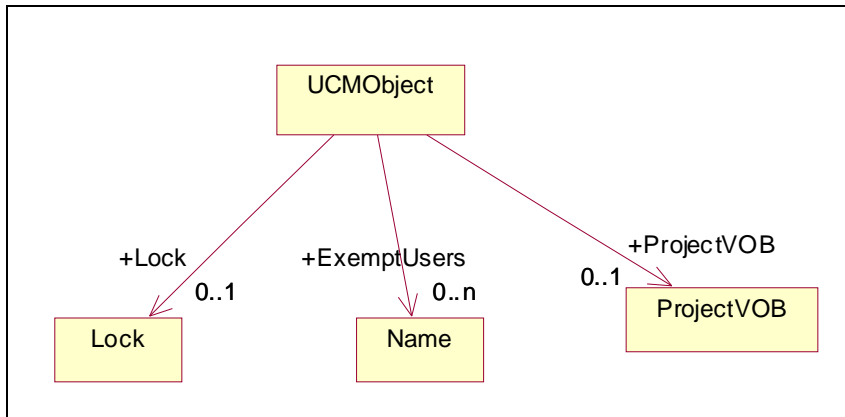
ClearCase Domain

The UCMObject class is the class from which all UCM objects are based. For historical reasons, the Activity class is based on VOBOject instead.

Class Hierarchy: VOBOject>UCMObject

SubClasses of UCMObject

Baseline
Component
Folder
Project
Stream



Properties Specific to UCMObject

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
Group		Group to which the UCM object belongs.
LockDescription		Comment of the user who locked this UCMObject.
LockedBy		User who locked this UCMObject.
LockedOn		Date on which this UCMObject was locked.
Master		The master replica for the UCM object.
Name	VOBOject	Name of the VOB object.
OID	VOBOject	The object identifier for the VOB object.

Properties	Inherited From	Description
Owner		Owner of the UCM object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on this UCMObject.
Title		Title of the UCM object.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to UCMObject

Name	Kind	Class	Description
ExemptUsers	0..n	Name	The users exempted from this UCMObject.
Lock	0..1	Lock	The lock for the UCM object.
ProjectVOB	0..1	ProjectVOB	The project VOB for the UCM object.

Value

ClearCase Domain

The value class represents a string value occurring within a collection of values.

Class Hierarchy: Value

SubClasses of Value

This class has no subclasses.

Properties Specific to Value

Properties	Inherited From	Description
Value		Simple value string.

Relationships Specific to Value

This class has no relationships.

Version

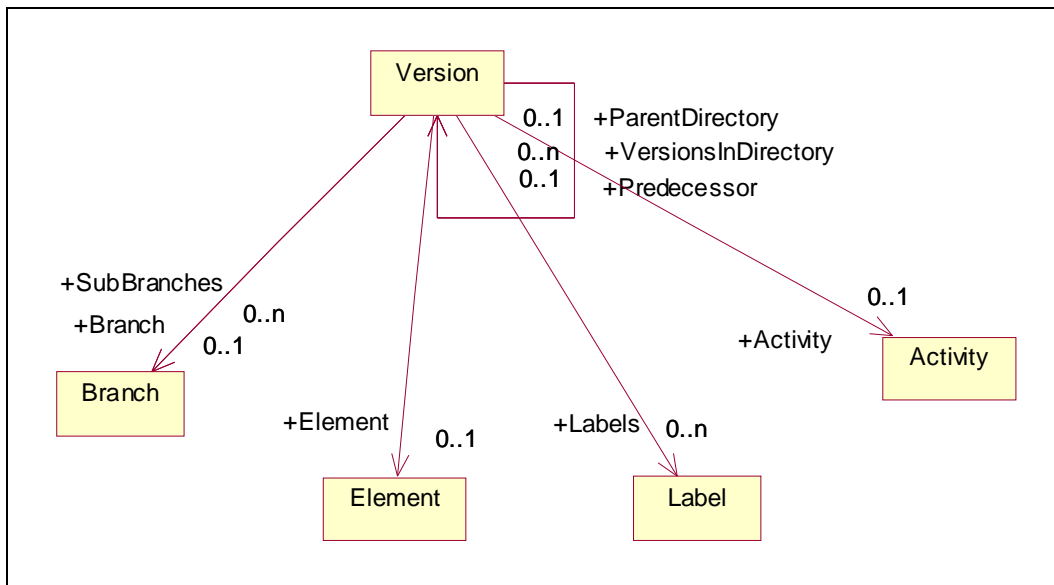
ClearCase Domain

A version is an object that implements a particular revision of an element. The versions of an element are organized into a version tree structure. Also, a checked-out version can refer to the view-private file that corresponds to the object created in a VOB database by the checkout command. If a version is a directory, it may contain subversions corresponding to those versions within the directory.

Class Hierarchy: VOBOject>File>Version

SubClasses of Version

CheckedOutFile



Properties Specific to Version

Properties	Inherited From	Description
Comment	VOBOject	Comment associated with the VOB object.
CreatedBy	VOBOject	User who created the object.
CreatedOn	VOBOject	Date the object was created.
ExtendedPath	File	VOB-extended path of this file system object.
Extension	File	File extension (the portion after the final dot).
Identifier		The version's identifier string.
IsCheckedOut		Whether or not this object represents a checked-out file.
IsDifferent		Whether or not this version is different from its predecessor.

Properties	Inherited From	Description
IsDirectory	File	Whether or not the file is a directory.
IsHijacked		Whether or not this version is hijacked.
IsLatest		Whether or not this version is the latest on its branch.
Name	VOBObject	Name of the VOB object.
NameMinusExtension	File	Simple name of the file without the extension and final dot.
OID	VOBObject	The object identifier for the VOB object.
Path	File	Path to this file system object.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
SimpleName	File	Simple name of the file, that is, the name of the file without the path.
TypeName	VOBObject	The VOBObject type name.
VersionNumber		This version's version number.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to Version

Name	Kind	Class	Description
Activity	0..1	Activity	The activity associated with this version.
Branch	0..1	Branch	The branch for this version.
Element	0..1	Element	This version's element.
Labels	0..n	Label	The collection of labels associated with this version.
ParentDirectory		Version	The current view's version of this version's parent directory.
Predecessor		Version	This version's predecessor version.
SubBranches	0..n	Branch	Any branches sprouting from this version.
VersionsInDirectory		Version	Represents the file and directory versions contained in this (directory) version.

View

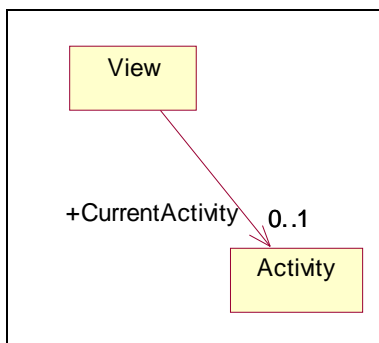
ClearCase Domain

A View is a ClearCase object that provides a work area for one or more users. Users in different views can work with the same files without interfering with each other. For each element in a VOB, a view's configspec selects one version from the element's version tree, which is visible within the view. Each view can also store view-private files and view-private directories, which do not appear in other views. View-private objects and directories are not represented by any class within the ClearCase domain, however, they may be documented through the File System domain. The ClearCase domain enables you to identify snapshot and dynamic views, as well as views that build nonshareable derived objects

Class Hierarchy: View

SubClasses of View

This class has no subclasses.



Properties Specific to View

Properties	Inherited From	Description
BuildsShareableDOs		Whether or not this view builds non-shareable derived objects.
ConfigSpec		Configuration spec for this view.
DisplayableConfigSpec		Displayable form of the config spec for this view.
Host		Host on which the storage area for this view resides.
IsActive		Whether or not the view is started on the local system.
IsSnapShot		Whether or not this view is a snapshot view.
IsUCMView		Whether or not this view is a UCM view.
TagName		The view-tag name.

Relationships Specific to View

Name	Kind	Class	Description
CurrentActivity	0..1	Activity	Name of the associated activity.

VOB

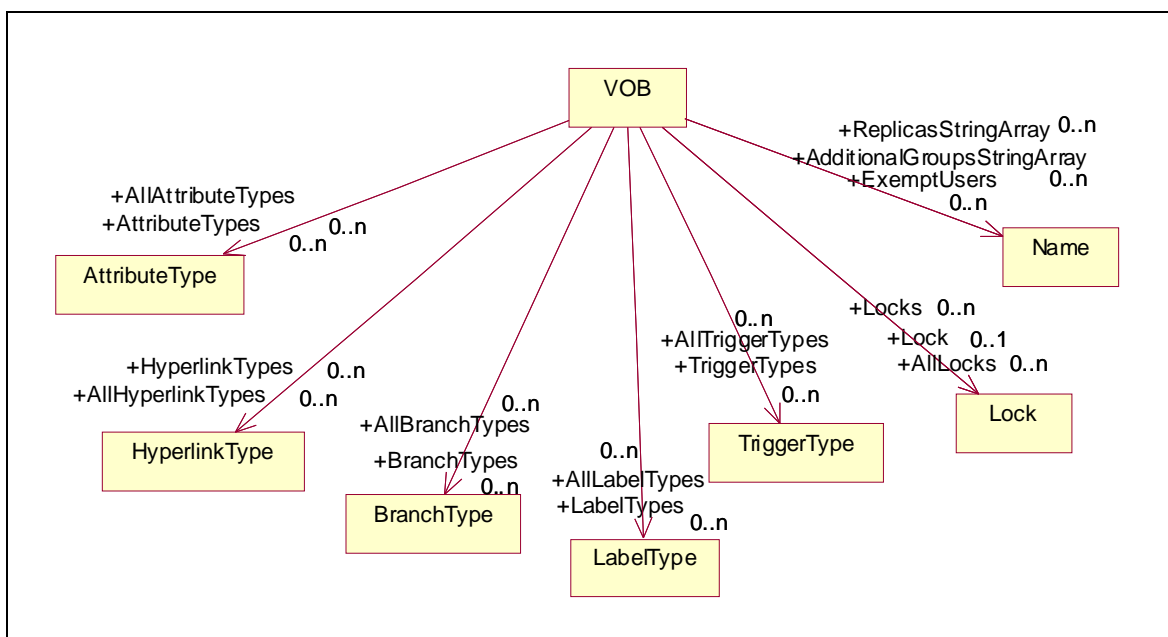
ClearCase Domain

A VOB is the database that stores your project's files. A VOB, or versioned object base, is a repository that stores versions for file elements, directory elements, derived objects, and meta-data associated with these objects. SoDA and Template Builder support MultiSite by enabling retrieval of a list of replicas (by name) for a given VOB. A template can include an OPEN command for a VOB, which must identify the VOB by full path, VOB-tag, or VOB family UUID.

Class Hierarchy: VOBOBJECT>VOB

SubClasses of VOB

ProjectVOB



Properties Specific to VOB

Properties	Inherited From	Description
Comment	VOBOBJECT	Comment associated with the VOB object.
CreatedBy	VOBOBJECT	User who created the object.
CreatedOn	VOBOBJECT	Date the object was created.
Group		Group to which this VOB belongs.
HasMSDOSTextMode		Whether or not this VOB has MS-DOS text mode enabled.
Host		Host on which the storage area for this VOB resides.

Properties	Inherited From	Description
IsMounted		Whether or not the VOB is mounted.
IsReplicated		Whether or not this VOB is replicated.
LockDescription		Description of the lock for the VOB.
LockedBy		Name of the user who locked the VOB.
LockedOn		Date the VOB was locked
Name	VOBObject	Name of the VOB object.
NumberOfAdditionalGroups		Number of additional groups to which this VOB belongs.
NumberOfReplicas		The number of replica names for the VOB family of this VOB, if this VOB is replicated.
OID	VOBObject	The object identifier for the VOB object.
Owner		Owner of the VOB.
Selector	VOBObject	Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
State		State of the lock on the VOB.
TagName		The VOB-tag name.
ThisReplica		Replica name for this VOB, if the VOB is replicated.
TypeName	VOBObject	The VOBObject type name.
VOBFamilyUUID	VOBObject	The VOB family UUID for the VOB of this VOB object.

Relationships Specific to VOB

Name	Kind	Class	Description
AdditionalGroupsStringArray	0..n	Name	Additional groups to which this VOB belongs.
AllAttributeTypes	0..n	AttributeType	All existing attribute types in the VOB, including obsolete types.
AllBranchTypes	0..n	BranchType	All existing branch types in the VOB, including obsolete types.
AllHyperlinkTypes	0..n	HyperlinkType	All existing hyperlink types in the VOB, including obsolete types.
AllLabelTypes	0..n	LabelType	All existing label types in the VOB, including obsolete types.

Name	Kind	Class	Description
AllLocks	0..n	Lock	An enumeration of all the locks in this VOB, including obsolete locks.
AllTriggerTypes	0..n	TriggerType	All existing trigger types in the VOB, including obsolete types.
AttributeTypes	0..n	AttributeType	All existing attribute types in the VOB.
BranchTypes	0..n	BranchType	All existing branch types in the VOB.
ExemptUsers	0..n	Name	The list of users exempted from the lock on the VOB.
HyperlinkTypes	0..n	HyperlinkType	All existing hyperlink types in the VOB.
LabelTypes	0..n	LabelType	All existing label types in the VOB.
Lock	0..1	Lock	The lock on this VOB, if there is one.
Locks	0..n	Lock	An enumeration of all the locks in this VOB.
ReplicasStringArray	0..n	Name	The array of replica names for the VOB family of this VOB, if this VOB is replicated.
TriggerTypes	0..n	TriggerType	All existing trigger types in the VOB.

VOBObject

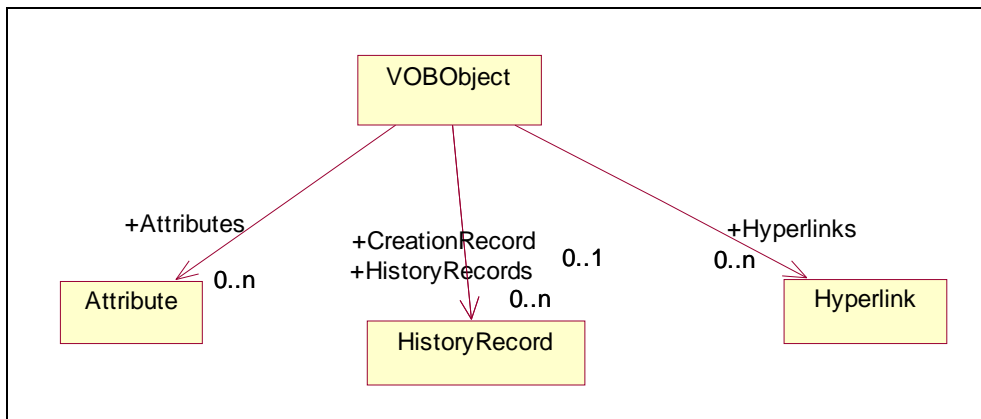
ClearCase Domain

A VOB Object represents an object stored in a VOB, including elements, versions, types, hyperlinks, branches, activities, and so on. VOBObject is the base class from which all other VOB object classes derive.

Class Hierarchy: VOBObject

SubClasses of VOBObject

Activity
AttributeType
Branch
BranchType
File
Hyperlink
HyperlinkType
LabelType
TriggerType
UCMObject
VOB



Properties Specific to VOBObject

Properties	Inherited From	Description
Comment		Comment associated with the VOB object.
CreatedBy		User who created the object.
CreatedOn		Date the object was created.
Name		Name of the VOB object.
OID		The object identifier for the VOB object.

Properties	Inherited From	Description
Selector		Expression used by the ClearCase file typing mechanism to match a file system object (or just the name of one).
TypeName		The VOBObject type name.
VOBFamilyUUID		The VOB family UUID for the VOB of this VOB object.

Relationships Specific to VOBObject

Name	Kind	Class	Description
Attributes	0..n	Attribute	The collection of attributes associated with this VOB object.
CreationRecord	0..1	HistoryRecord	Creation record for the VOB object.
HistoryRecords	0..n	HistoryRecord	The collection of history records for this object.
Hyperlinks	0..n	Hyperlink	The collection of hyperlinks associated with this VOB object.