

**NAME**

gdmo – A Tcl interface to GDMO definitions.

**DESCRIPTION**

The gdmo Tcl command allows to access definitions conforming to the Guidelines for the Definition of Managed Objects (GDMO). The integrated GDMO parser converts GDMO definitions into an internal representation which can be queried using the gdmo Tcl command.

**GDMO COMMAND****gdmo load *path***

Parse the GDMO file given by *path* and store its content into internal structures. *path* may be an absolute or relative path to the desired file and the tilde ~ is also allowed for starting at an users home directory.

Example: gdmo load ~idefix/GDMO/example.gdmo

**gdmo info *option***

Show a list of all sub-options that *option* understand, where *option* is one of the following: class, package, parameter, namebinding, attribute, group, action, notification, behaviour.

Example: gdmo info class

exist superior mandatory conditional oid

**gdmo class ?*label option*?**

Get the stored information for the MANAGED OBJECT CLASS templates. If used without the optional parameters, it shows a list of stored class-labels. If used with the optional parameters, *label* should be one of the stored class-labels (gdmo class) and *option* should be a valid option (gdmo info class).

The available *options* are:

**exist** Returns "1" if the definition for the given class-label exist, else it returns "0". (that is the class-label is referenced, but there is no definition for it)

**superior** Returns a list of class-labels that are superclasses to the given class-label. (DERIVED FROM)

**mandatory** Returns a list of package-labels specifying the behaviour that characterizes all instances of the given class-label. (CHARACTERIZED BY)

**conditional** Returns a list which elements are a pair of package-label and condition-definition that are present in instances of the class under the given condition. (CONDITIONAL PACKAGES, PRESENT IF)

**oid** Returns a list which parts form the object-identifier value which identifies to the managed object class definition. (REGISTERED AS)

#### **gdmo package ?*label option*?**

Get the stored information for the PACKAGE templates. If used without the optional parameters, it shows a list of stored package-labels. If used with the optional parameters, *label* should be one of the stored package-labels (gdmo package) and *option* should be a valid option (gdmo info package).

The available *options* are:

**exist** Returns "1" if the definition for the given package-label exist, else it returns "0". (that is the package-label is referenced, but there is no definition for it)

#### **behaviours**

Returns a list of behaviour-definition-label which define the behaviour that is included in the package. (BEHAVIOUR)

**attributes** Returns a list, which elements are a list of attribute-label followed by a complex propertylist and a list of parameter-labels, the package contains. (ATTRIBUTES)

**groups** Returns a list, which elements are a list of group-label followed by a list of attribute-labels, the package contains. (ATTRIBUTE GROUP)

**actions** Returns a list, which elements are a list of action-label followed by a list of parameter-labels, the package contains. (ACTIONS)

#### **notifications**

Returns a list, which elements are a list of notification-label followed by a list of parameter-labels, the package contains. (NOTIFICATIONS)

**oid** Returns a list which parts form the object-identifier the package-label is REGISTERED AS.

#### **gdmo parameter ?*label option*?**

Get the stored information for the PARAMETER templates. If used without the optional parameters, it shows a list of stored parameter-labels. If used with the optional parameters, *label* should be one of the stored parameter-labels (gdmo parameter) and *option* should be a valid option (gdmo info parameter).

The available *options* are:

**exist** Returns "1" if the definition for the given parameter-label exist, else it returns "0". (that is the parameter-label is referenced, but there is no definition for it)

- context** Returns a context-keyword or a context-type which is one of ACTION-INFO, ACTION-REPLY, EVENT-INFO, EVENT-REPLY or SPECIFIC-ERROR. (CONTEXT)
- choice** Returns a list with two elements, one of which is empty. If the first element is not empty it is a type-reference (WITH SYNTAX), otherwise the second element is not empty and is an attribute-label (ATTRIBUTE). The given list specify the parameter.
- behaviours**  
Returns a list of behaviour-definition-labels that applies to the use of the parameter. (BEHAVIOUR)
- oid** Returns a list which parts form the object-identifier the parameter-label is REGISTERED AS.

**gdmo namebinding ?label option?**

Get the stored information for the NAME BINDING templates. If used without the optional parameters, it shows a list of stored name-binding-labels. If used with the optional parameters, *label* should be one of the stored name-binding-labels (gdmo namebinding) and *option* should be a valid option (gdmo info namebinding).

The available *options* are:

- exist** Returns "1" if the definition for the given name-binding-label exist, else it returns "0". (that is the name-binding-label is referenced, but there is no definition for it)
- subordinate**  
Returns a list with two elements, the first is an class-label of the class that is named by the superior object class and the second is "1", if the name binding applies to all sub-classes of the specified managed object class and "0" otherwise. (SUBORDINATE OBJECT CLASS)
- superior** Returns a list with two elements, the first is an class-label of the class that names the subordinate object class and the second is "1", if the name binding applies to all sub-classes of the specified managed object class and "0" otherwise. (NAMED BY SUPERIOR OBJECT CLASS)
- attribute** Returns the attribute-label that shall be used, in the context of this name binding, to construct the relative distinguished name for instances of the managed object class defined by subordinate. (ATTRIBUTE)
- behaviours**  
Returns a list of behaviour-definition-label that identifies the behaviour definition concerned for this name binding. (BEHAVIOUR)
- create** Returns a list of two elements, the first element is the create-modifier(s) (WITH-REFERENCE-OBJECT, WITH-AUTOMATIC-INSTANCE-NAMING) and the second

element is a list of parameter-labels. (CREATE)

- delete** Returns a list of two elements, the first element is the delete-modifier (ONLY-IF-NO-CONTAINED-OBJECTS, DELETES-CONTAINED-OBJECTS) and the second element is a list of parameter-labels. (DELETE)
- oid** Returns a list which parts form the object-identifier the name-binding-label is REGISTERED AS.

#### **gdmo attribute ?label option?**

Get the stored information for the ATTRIBUTE templates. If used without the optional parameters, it shows a list of stored attribute-labels. If used with the optional parameters, *label* should be one of the stored attribute-labels (gdmo attribute) and *option* should be a valid option (gdmo info attribute).

The available *options* are:

- exist** Returns "1" if the definition for the given attribute-label exist, else it returns "0". (that is the attribute-label is referenced, but there is no definition for it)
- choice** Returns a list with two elements, one of which is empty. If the first element is not empty it is an attribute-label (DERIVED FROM), otherwise the second element is not empty and is a type-reference (WITH ATTRIBUTE SYNTAX). The given list specify the attribute.
- matchesfor** Returns a list of value matching types. The value matching types are EQUALITY, ORDERING, SUBSTRINGS, SET-COMPARISON and SET-INTERSECTION. (MATCHES FOR)
- behaviours** Returns a list of behaviour-definition-labels that specify the behaviour of the attribute. (BEHAVIOUR)
- parameters** Returns a list parameter-labels that specify attribute-specific error parameters associated with management operations on the attribute type used for processing failures. (PARAMETERS)
- oid** Returns a list which parts form the object-identifier the attribute-label is REGISTERED AS.

#### **gdmo group ?label option?**

Get the stored information for the ATTRIBUTE GROUP templates. If used without the optional parameters, it shows a list of stored group-labels. If used with the optional parameters, *label* should be one of the stored group-labels (gdmo group) and *option* should be a valid option (gdmo

info group).

The available *options* are:

<b>exist</b>	Returns "1" if the definition for the given group-label exist, else it returns "0". (that is the group-label is referenced, but there is no definition for it)
<b>attributes</b>	Returns a list of attribute-labels that constitute the group. (GROUP ELEMENTS)
<b>fixed</b>	Returns "1", if the FIXED-token has been given in the attribute group template and "0" otherwise. (FIXED)
<b>description</b>	Returns a string that describes the attribute group. (DESCRIPTION)
<b>oid</b>	Returns a list which parts form the object-identifier the group-label is REGISTERED AS.

#### **gdmo action ?*label option*?**

Get the stored information for the ACTION templates. If used without the optional parameters, it shows a list of stored action-labels. If used with the optional parameters, *label* should be one of the stored action-labels (gdmo action) and *option* should be a valid option (gdmo info action).

The available *options* are:

<b>exist</b>	Returns "1" if the definition for the given action-label exist, else it returns "0". (that is the action-label is referenced, but there is no definition for it)
<b>behaviours</b>	Returns a list of behaviour-definition-labels which define the behaviour of the action. (BEHAVIOUR)
<b>mode</b>	Returns "1", if the MODE CONFIRMED-token has been given in the action template and "0" otherwise. (FIXED)
<b>parameters</b>	Returns a list of parameter-labels that identify the action information or action reply parameters, or processing failures associated with the action type. (PARAMETERS)
<b>infosyntax</b>	Returns a type-reference that identifies the ASN.1 data type that describes the structure of the action information parameter that is carried in management protocol. (WITH INFORMATION SYNTAX)

**replysyntax**

Returns a type-reference that identifies the ASN.1 data type that describes the structure of the action reply parameter that is carried in management protocol. (WITH REPLY SYNTAX)

**oid**

Returns a list which parts form the object-identifier the action-label is REGISTERED AS.

**gdmo notification ?label option?**

Get the stored information for the NOTIFICATION templates. If used without the optional parameters, it shows a list of stored notification-labels. If used with the optional parameters, *label* should be one of the stored notification-labels (gdmo notification) and *option* should be a valid option (gdmo info notification).

The available *options* are:

**exist**

Returns "1" if the definition for the given notification-label exist, else it returns "0". (that is the notification-label is referenced, but there is no definition for it)

**behaviours**

Returns a list of behaviour-definition-labels which shall specify the circumstances under which a notification of the type is generated. (BEHAVIOUR)

**parameters**

Returns a list of parameter-labels associated with the notification type. (PARAMETERS)

**infosyntaxandids**

Returns a list with a type-reference as the first element and if present the second element is a list of field-name and attribute-label pairs. (WITH INFORMATION SYNTAX ... [AND ATTRIBUTE IDS])

**replysyntax**

Returns a type-reference that identifies the ASN.1 data type that describes the structure of the notification reply that is carried in management protocol. (WITH REPLY SYNTAX)

**oid**

Returns a list which parts form the object-identifier the notification-label is REGISTERED AS.

**gdmo behaviour ?label option?**

Get the stored information for the BEHAVIOUR templates. If used without the optional parameters, it shows a list of stored behaviour-labels. If used with the optional parameters, *label* should be one of the stored behaviour-labels (gdmo behaviour) and *option* should be a valid option (gdmo info behaviour).

The available *options* are:

**exist** Returns "1" if the definition for the given behaviour-label exist, else it returns "0".  
(that is the behaviour-label is referenced, but there is no definition for it)

**definition** Returns a textual definition of the behaviour-label. (DEFINED AS)

## SEE ALSO

scotty(1), Tcl(n)

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