| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DynUnionOperations.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/omg/DynamicAny/DynUnionHelper.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/DynamicAny/DynValue.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/DynamicAny/DynUnionOperations.html)    [**NO FRAMES**](http://docs.google.com/DynUnionOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

## **org.omg.DynamicAny**

Interface DynUnionOperations

**All Superinterfaces:** [DynAnyOperations](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html) **All Known Subinterfaces:** [DynUnion](http://docs.google.com/org/omg/DynamicAny/DynUnion.html) **All Known Implementing Classes:** [\_DynUnionStub](http://docs.google.com/org/omg/DynamicAny/_DynUnionStub.html)

public interface **DynUnionOperations**extends [DynAnyOperations](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html)

DynUnion objects support the manipulation of IDL unions. A union can have only two valid current positions:

* zero, which denotes the discriminator
* one, which denotes the active member

The component\_count value for a union depends on the current discriminator: it is 2 for a union whose discriminator indicates a named member, and 1 otherwise.

| **Method Summary** | |
| --- | --- |
| [TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) | [**discriminator\_kind**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#discriminator_kind())()            Returns the TCKind value of the discriminators TypeCode. |
| [DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) | [**get\_discriminator**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#get_discriminator())()            Returns the current discriminator value. |
| boolean | [**has\_no\_active\_member**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#has_no_active_member())()            Returns true if the union has no active member, that is, the unions value consists solely of its discriminator because the discriminator has a value that is not listed as an explicit case label. |
| [TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) | [**member\_kind**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#member_kind())()            Returns the TCKind value of the currently active members TypeCode. |
| [String](http://docs.google.com/java/lang/String.html) | [**member\_name**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#member_name())()            Returns the name of the currently active member. |
| [DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) | [**member**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#member())()            Returns the currently active member. |
| void | [**set\_discriminator**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#set_discriminator(org.omg.DynamicAny.DynAny))([DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) d)            Sets the discriminator of the DynUnion to the specified value. |
| void | [**set\_to\_default\_member**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#set_to_default_member())()            Sets the discriminator to a value that is consistent with the value of the default case of a union. |
| void | [**set\_to\_no\_active\_member**](http://docs.google.com/org/omg/DynamicAny/DynUnionOperations.html#set_to_no_active_member())()            Sets the discriminator to a value that does not correspond to any of the unions case labels. |

| **Methods inherited from interface org.omg.DynamicAny.**[**DynAnyOperations**](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html) |
| --- |
| [assign](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#assign(org.omg.DynamicAny.DynAny)), [component\_count](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#component_count()), [copy](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#copy()), [current\_component](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#current_component()), [destroy](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#destroy()), [equal](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#equal(org.omg.DynamicAny.DynAny)), [from\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#from_any(org.omg.CORBA.Any)), [get\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_any()), [get\_boolean](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_boolean()), [get\_char](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_char()), [get\_double](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_double()), [get\_dyn\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_dyn_any()), [get\_float](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_float()), [get\_long](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_long()), [get\_longlong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_longlong()), [get\_octet](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_octet()), [get\_reference](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_reference()), [get\_short](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_short()), [get\_string](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_string()), [get\_typecode](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_typecode()), [get\_ulong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ulong()), [get\_ulonglong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ulonglong()), [get\_ushort](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_ushort()), [get\_val](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_val()), [get\_wchar](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_wchar()), [get\_wstring](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#get_wstring()), [insert\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_any(org.omg.CORBA.Any)), [insert\_boolean](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_boolean(boolean)), [insert\_char](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_char(char)), [insert\_double](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_double(double)), [insert\_dyn\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_dyn_any(org.omg.DynamicAny.DynAny)), [insert\_float](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_float(float)), [insert\_long](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_long(int)), [insert\_longlong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_longlong(long)), [insert\_octet](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_octet(byte)), [insert\_reference](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_reference(org.omg.CORBA.Object)), [insert\_short](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_short(short)), [insert\_string](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_string(java.lang.String)), [insert\_typecode](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_typecode(org.omg.CORBA.TypeCode)), [insert\_ulong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ulong(int)), [insert\_ulonglong](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ulonglong(long)), [insert\_ushort](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_ushort(short)), [insert\_val](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_val(java.io.Serializable)), [insert\_wchar](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_wchar(char)), [insert\_wstring](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#insert_wstring(java.lang.String)), [next](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#next()), [rewind](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#rewind()), [seek](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#seek(int)), [to\_any](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#to_any()), [type](http://docs.google.com/org/omg/DynamicAny/DynAnyOperations.html#type()) |

| **Method Detail** |
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### get\_discriminator

[DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) **get\_discriminator**()

Returns the current discriminator value.

### set\_discriminator

void **set\_discriminator**([DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) d)  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html)

Sets the discriminator of the DynUnion to the specified value. Setting the discriminator to a value that is consistent with the currently active union member does not affect the currently active member. Setting the discriminator to a value that is inconsistent with the currently active member deactivates the member and activates the member that is consistent with the new discriminator value (if there is a member for that value) by initializing the member to its default value. Setting the discriminator of a union sets the current position to 0 if the discriminator value indicates a non-existent union member (has\_no\_active\_member returns true in this case). Otherwise, if the discriminator value indicates a named union member, the current position is set to 1 (has\_no\_active\_member returns false and component\_count returns 2 in this case).

**Throws:** TypeMismatch - if the TypeCode of the parameter is not equivalent to the TypeCode of the union's discriminator

### set\_to\_default\_member

void **set\_to\_default\_member**()  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html)

Sets the discriminator to a value that is consistent with the value of the default case of a union. It sets the current position to zero and causes component\_count to return 2.

**Throws:** TypeMismatch - if the union does not have an explicit default case

### set\_to\_no\_active\_member

void **set\_to\_no\_active\_member**()  
 throws [TypeMismatch](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/TypeMismatch.html)

Sets the discriminator to a value that does not correspond to any of the unions case labels. It sets the current position to zero and causes component\_count to return 1.

**Throws:** TypeMismatch - if the union has an explicit default case or if it uses the entire range of discriminator values for explicit case labels

### has\_no\_active\_member

boolean **has\_no\_active\_member**()

Returns true if the union has no active member, that is, the unions value consists solely of its discriminator because the discriminator has a value that is not listed as an explicit case label. Calling this operation on a union that has a default case returns false. Calling this operation on a union that uses the entire range of discriminator values for explicit case labels returns false.

### discriminator\_kind

[TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) **discriminator\_kind**()

Returns the TCKind value of the discriminators TypeCode.

### member\_kind

[TCKind](http://docs.google.com/org/omg/CORBA/TCKind.html) **member\_kind**()  
 throws [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Returns the TCKind value of the currently active members TypeCode.

**Throws:** InvalidValue - if the union does not have a currently active member

### member

[DynAny](http://docs.google.com/org/omg/DynamicAny/DynAny.html) **member**()  
 throws [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Returns the currently active member. Note that the returned reference remains valid only for as long as the currently active member does not change. Using the returned reference beyond the life time of the currently active member raises OBJECT\_NOT\_EXIST.

**Throws:** InvalidValue - if the union has no active member

### member\_name

[String](http://docs.google.com/java/lang/String.html) **member\_name**()  
 throws [InvalidValue](http://docs.google.com/org/omg/DynamicAny/DynAnyPackage/InvalidValue.html)

Returns the name of the currently active member. If the unions TypeCode does not contain a member name for the currently active member, the operation returns an empty string.

**Throws:** InvalidValue - if the union has no active member

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DynUnionOperations.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/omg/DynamicAny/DynUnionHelper.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/DynamicAny/DynValue.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/DynamicAny/DynUnionOperations.html)    [**NO FRAMES**](http://docs.google.com/DynUnionOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#tyjcwt) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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