| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RoleList.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/javax/management/relation/RoleInfoNotFoundException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RoleNotFoundException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RoleList.html)    [**NO FRAMES**](http://docs.google.com/RoleList.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#44sinio) |

## **javax.management.relation**

Class RoleList

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.AbstractCollection](http://docs.google.com/java/util/AbstractCollection.html)<E>  
 [java.util.AbstractList](http://docs.google.com/java/util/AbstractList.html)<E>  
 [java.util.ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)>  
 **javax.management.relation.RoleList**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Iterable](http://docs.google.com/java/lang/Iterable.html)<[Object](http://docs.google.com/java/lang/Object.html)>, [Collection](http://docs.google.com/java/util/Collection.html)<[Object](http://docs.google.com/java/lang/Object.html)>, [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>, [RandomAccess](http://docs.google.com/java/util/RandomAccess.html)

public class **RoleList**extends [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)>

A RoleList represents a list of roles (Role objects). It is used as parameter when creating a relation, and when trying to set several roles in a relation (via 'setRoles()' method). It is returned as part of a RoleResult, to provide roles successfully retrieved.

**Since:** 1.5 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.management.relation.RoleList)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.util.**[**AbstractList**](http://docs.google.com/java/util/AbstractList.html) |
| --- |
| [modCount](http://docs.google.com/java/util/AbstractList.html#modCount) |

| **Constructor Summary** | |
| --- | --- |
| [**RoleList**](http://docs.google.com/javax/management/relation/RoleList.html#RoleList())()            Constructs an empty RoleList. |
| [**RoleList**](http://docs.google.com/javax/management/relation/RoleList.html#RoleList(int))(int initialCapacity)            Constructs an empty RoleList with the initial capacity specified. |
| [**RoleList**](http://docs.google.com/javax/management/relation/RoleList.html#RoleList(java.util.List))([List](http://docs.google.com/java/util/List.html)<[Role](http://docs.google.com/javax/management/relation/Role.html)> list)            Constructs a RoleList containing the elements of the List specified, in the order in which they are returned by the List's iterator. |

| **Method Summary** | |
| --- | --- |
| void | [**add**](http://docs.google.com/javax/management/relation/RoleList.html#add(int,%20java.lang.Object))(int index, [Object](http://docs.google.com/java/lang/Object.html) element)            Inserts the specified element at the specified position in this list. |
| void | [**add**](http://docs.google.com/javax/management/relation/RoleList.html#add(int,%20javax.management.relation.Role))(int index, [Role](http://docs.google.com/javax/management/relation/Role.html) role)            Inserts the role specified as an element at the position specified. |
| boolean | [**add**](http://docs.google.com/javax/management/relation/RoleList.html#add(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Appends the specified element to the end of this list. |
| void | [**add**](http://docs.google.com/javax/management/relation/RoleList.html#add(javax.management.relation.Role))([Role](http://docs.google.com/javax/management/relation/Role.html) role)            Adds the Role specified as the last element of the list. |
| boolean | [**addAll**](http://docs.google.com/javax/management/relation/RoleList.html#addAll(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html)<?> c)            Appends all of the elements in the specified collection to the end of this list, in the order that they are returned by the specified collection's Iterator. |
| boolean | [**addAll**](http://docs.google.com/javax/management/relation/RoleList.html#addAll(int,%20java.util.Collection))(int index, [Collection](http://docs.google.com/java/util/Collection.html)<?> c)            Inserts all of the elements in the specified collection into this list, starting at the specified position. |
| boolean | [**addAll**](http://docs.google.com/javax/management/relation/RoleList.html#addAll(int,%20javax.management.relation.RoleList))(int index, [RoleList](http://docs.google.com/javax/management/relation/RoleList.html) roleList)            Inserts all of the elements in the RoleList specified into this list, starting at the specified position, in the order in which they are returned by the Iterator of the RoleList specified. |
| boolean | [**addAll**](http://docs.google.com/javax/management/relation/RoleList.html#addAll(javax.management.relation.RoleList))([RoleList](http://docs.google.com/javax/management/relation/RoleList.html) roleList)            Appends all the elements in the RoleList specified to the end of the list, in the order in which they are returned by the Iterator of the RoleList specified. |
| [List](http://docs.google.com/java/util/List.html)<[Role](http://docs.google.com/javax/management/relation/Role.html)> | [**asList**](http://docs.google.com/javax/management/relation/RoleList.html#asList())()            Return a view of this list as a List<Role>. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**set**](http://docs.google.com/javax/management/relation/RoleList.html#set(int,%20java.lang.Object))(int index, [Object](http://docs.google.com/java/lang/Object.html) element)            Replaces the element at the specified position in this list with the specified element. |
| void | [**set**](http://docs.google.com/javax/management/relation/RoleList.html#set(int,%20javax.management.relation.Role))(int index, [Role](http://docs.google.com/javax/management/relation/Role.html) role)            Sets the element at the position specified to be the role specified. |

| **Methods inherited from class java.util.**[**ArrayList**](http://docs.google.com/java/util/ArrayList.html) |
| --- |
| [clear](http://docs.google.com/java/util/ArrayList.html#clear()), [clone](http://docs.google.com/java/util/ArrayList.html#clone()), [contains](http://docs.google.com/java/util/ArrayList.html#contains(java.lang.Object)), [ensureCapacity](http://docs.google.com/java/util/ArrayList.html#ensureCapacity(int)), [get](http://docs.google.com/java/util/ArrayList.html#get(int)), [indexOf](http://docs.google.com/java/util/ArrayList.html#indexOf(java.lang.Object)), [isEmpty](http://docs.google.com/java/util/ArrayList.html#isEmpty()), [lastIndexOf](http://docs.google.com/java/util/ArrayList.html#lastIndexOf(java.lang.Object)), [remove](http://docs.google.com/java/util/ArrayList.html#remove(int)), [remove](http://docs.google.com/java/util/ArrayList.html#remove(java.lang.Object)), [removeRange](http://docs.google.com/java/util/ArrayList.html#removeRange(int,%20int)), [size](http://docs.google.com/java/util/ArrayList.html#size()), [toArray](http://docs.google.com/java/util/ArrayList.html#toArray()), [toArray](http://docs.google.com/java/util/ArrayList.html#toArray(T%5B%5D)), [trimToSize](http://docs.google.com/java/util/ArrayList.html#trimToSize()) |

| **Methods inherited from class java.util.**[**AbstractList**](http://docs.google.com/java/util/AbstractList.html) |
| --- |
| [equals](http://docs.google.com/java/util/AbstractList.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/AbstractList.html#hashCode()), [iterator](http://docs.google.com/java/util/AbstractList.html#iterator()), [listIterator](http://docs.google.com/java/util/AbstractList.html#listIterator()), [listIterator](http://docs.google.com/java/util/AbstractList.html#listIterator(int)), [subList](http://docs.google.com/java/util/AbstractList.html#subList(int,%20int)) |

| **Methods inherited from class java.util.**[**AbstractCollection**](http://docs.google.com/java/util/AbstractCollection.html) |
| --- |
| [containsAll](http://docs.google.com/java/util/AbstractCollection.html#containsAll(java.util.Collection)), [removeAll](http://docs.google.com/java/util/AbstractCollection.html#removeAll(java.util.Collection)), [retainAll](http://docs.google.com/java/util/AbstractCollection.html#retainAll(java.util.Collection)), [toString](http://docs.google.com/java/util/AbstractCollection.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Methods inherited from interface java.util.**[**List**](http://docs.google.com/java/util/List.html) |
| --- |
| [containsAll](http://docs.google.com/java/util/List.html#containsAll(java.util.Collection)), [equals](http://docs.google.com/java/util/List.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/List.html#hashCode()), [iterator](http://docs.google.com/java/util/List.html#iterator()), [listIterator](http://docs.google.com/java/util/List.html#listIterator()), [listIterator](http://docs.google.com/java/util/List.html#listIterator(int)), [removeAll](http://docs.google.com/java/util/List.html#removeAll(java.util.Collection)), [retainAll](http://docs.google.com/java/util/List.html#retainAll(java.util.Collection)), [subList](http://docs.google.com/java/util/List.html#subList(int,%20int)) |

| **Constructor Detail** |
| --- |

### RoleList

public **RoleList**()

Constructs an empty RoleList.

### RoleList

public **RoleList**(int initialCapacity)

Constructs an empty RoleList with the initial capacity specified.

**Parameters:**initialCapacity - initial capacity

### RoleList

public **RoleList**([List](http://docs.google.com/java/util/List.html)<[Role](http://docs.google.com/javax/management/relation/Role.html)> list)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Constructs a RoleList containing the elements of the List specified, in the order in which they are returned by the List's iterator. The RoleList instance has an initial capacity of 110% of the size of the List specified.

**Parameters:**list - the List that defines the initial contents of the new RoleList. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the list parameter is null or if the list parameter contains any non-Role objects.**See Also:**[ArrayList.ArrayList(java.util.Collection)](http://docs.google.com/java/util/ArrayList.html#ArrayList(java.util.Collection))

| **Method Detail** |
| --- |

### asList

public [List](http://docs.google.com/java/util/List.html)<[Role](http://docs.google.com/javax/management/relation/Role.html)> **asList**()

Return a view of this list as a List<Role>. Changes to the returned value are reflected by changes to the original RoleList and vice versa.

**Returns:**a List<Role> whose contents reflect the contents of this RoleList.

If this method has ever been called on a given RoleList instance, a subsequent attempt to add an object to that instance which is not a Role will fail with an IllegalArgumentException. For compatibility reasons, a RoleList on which this method has never been called does allow objects other than Roles to be added.

**Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if this RoleList contains an element that is not a Role.**Since:** 1.6

### add

public void **add**([Role](http://docs.google.com/javax/management/relation/Role.html) role)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html)

Adds the Role specified as the last element of the list.

**Parameters:**role - the role to be added. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the role is null.

### add

public void **add**(int index,  
 [Role](http://docs.google.com/javax/management/relation/Role.html) role)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html)

Inserts the role specified as an element at the position specified. Elements with an index greater than or equal to the current position are shifted up.

**Parameters:**index - The position in the list where the new Role object is to be inserted.role - The Role object to be inserted. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the role is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if accessing with an index outside of the list.

### set

public void **set**(int index,  
 [Role](http://docs.google.com/javax/management/relation/Role.html) role)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html)

Sets the element at the position specified to be the role specified. The previous element at that position is discarded.

**Parameters:**index - The position specified.role - The value to which the role element should be set. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the role is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if accessing with an index outside of the list.

### addAll

public boolean **addAll**([RoleList](http://docs.google.com/javax/management/relation/RoleList.html) roleList)  
 throws [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html)

Appends all the elements in the RoleList specified to the end of the list, in the order in which they are returned by the Iterator of the RoleList specified.

**Parameters:**roleList - Elements to be inserted into the list (can be null) **Returns:**true if this list changed as a result of the call. **Throws:** [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if accessing with an index outside of the list.**See Also:**[ArrayList.addAll(Collection)](http://docs.google.com/java/util/ArrayList.html#addAll(java.util.Collection))

### addAll

public boolean **addAll**(int index,  
 [RoleList](http://docs.google.com/javax/management/relation/RoleList.html) roleList)  
 throws [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html),  
 [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html)

Inserts all of the elements in the RoleList specified into this list, starting at the specified position, in the order in which they are returned by the Iterator of the RoleList specified.

**Parameters:**index - Position at which to insert the first element from the RoleList specified.roleList - Elements to be inserted into the list. **Returns:**true if this list changed as a result of the call. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the role is null. [IndexOutOfBoundsException](http://docs.google.com/java/lang/IndexOutOfBoundsException.html) - if accessing with an index outside of the list.**See Also:**[ArrayList.addAll(int, Collection)](http://docs.google.com/java/util/ArrayList.html#addAll(int,%20java.util.Collection))

### add

public boolean **add**([Object](http://docs.google.com/java/lang/Object.html) o)

**Description copied from class:** [**ArrayList**](http://docs.google.com/java/util/ArrayList.html#add(E)) Appends the specified element to the end of this list.

**Specified by:**[add](http://docs.google.com/java/util/Collection.html#add(E)) in interface [Collection](http://docs.google.com/java/util/Collection.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Specified by:**[add](http://docs.google.com/java/util/List.html#add(E)) in interface [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Overrides:**[add](http://docs.google.com/java/util/ArrayList.html#add(E)) in class [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**o - element to be appended to this list **Returns:**true (as specified by [Collection.add(E)](http://docs.google.com/java/util/Collection.html#add(E)))

### add

public void **add**(int index,  
 [Object](http://docs.google.com/java/lang/Object.html) element)

**Description copied from class:** [**ArrayList**](http://docs.google.com/java/util/ArrayList.html#add(int,%20E)) Inserts the specified element at the specified position in this list. Shifts the element currently at that position (if any) and any subsequent elements to the right (adds one to their indices).

**Specified by:**[add](http://docs.google.com/java/util/List.html#add(int,%20E)) in interface [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Overrides:**[add](http://docs.google.com/java/util/ArrayList.html#add(int,%20E)) in class [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**index - index at which the specified element is to be insertedelement - element to be inserted

### addAll

public boolean **addAll**([Collection](http://docs.google.com/java/util/Collection.html)<?> c)

**Description copied from class:** [**ArrayList**](http://docs.google.com/java/util/ArrayList.html#addAll(java.util.Collection)) Appends all of the elements in the specified collection to the end of this list, in the order that they are returned by the specified collection's Iterator. The behavior of this operation is undefined if the specified collection is modified while the operation is in progress. (This implies that the behavior of this call is undefined if the specified collection is this list, and this list is nonempty.)

**Specified by:**[addAll](http://docs.google.com/java/util/Collection.html#addAll(java.util.Collection)) in interface [Collection](http://docs.google.com/java/util/Collection.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Specified by:**[addAll](http://docs.google.com/java/util/List.html#addAll(java.util.Collection)) in interface [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Overrides:**[addAll](http://docs.google.com/java/util/ArrayList.html#addAll(java.util.Collection)) in class [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**c - collection containing elements to be added to this list **Returns:**true if this list changed as a result of the call**See Also:**[AbstractCollection.add(Object)](http://docs.google.com/java/util/AbstractCollection.html#add(E))

### addAll

public boolean **addAll**(int index,  
 [Collection](http://docs.google.com/java/util/Collection.html)<?> c)

**Description copied from class:** [**ArrayList**](http://docs.google.com/java/util/ArrayList.html#addAll(int,%20java.util.Collection)) Inserts all of the elements in the specified collection into this list, starting at the specified position. Shifts the element currently at that position (if any) and any subsequent elements to the right (increases their indices). The new elements will appear in the list in the order that they are returned by the specified collection's iterator.

**Specified by:**[addAll](http://docs.google.com/java/util/List.html#addAll(int,%20java.util.Collection)) in interface [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Overrides:**[addAll](http://docs.google.com/java/util/ArrayList.html#addAll(int,%20java.util.Collection)) in class [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**index - index at which to insert the first element from the specified collectionc - collection containing elements to be added to this list **Returns:**true if this list changed as a result of the call

### set

public [Object](http://docs.google.com/java/lang/Object.html) **set**(int index,  
 [Object](http://docs.google.com/java/lang/Object.html) element)

**Description copied from class:** [**ArrayList**](http://docs.google.com/java/util/ArrayList.html#set(int,%20E)) Replaces the element at the specified position in this list with the specified element.

**Specified by:**[set](http://docs.google.com/java/util/List.html#set(int,%20E)) in interface [List](http://docs.google.com/java/util/List.html)<[Object](http://docs.google.com/java/lang/Object.html)>**Overrides:**[set](http://docs.google.com/java/util/ArrayList.html#set(int,%20E)) in class [ArrayList](http://docs.google.com/java/util/ArrayList.html)<[Object](http://docs.google.com/java/lang/Object.html)> **Parameters:**index - index of the element to replaceelement - element to be stored at the specified position **Returns:**the element previously at the specified position

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RoleList.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/javax/management/relation/RoleInfoNotFoundException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/relation/RoleNotFoundException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/relation/RoleList.html)    [**NO FRAMES**](http://docs.google.com/RoleList.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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[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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