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

## **javax.management**

Class AttributeList

[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.AttributeList**

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

Represents a list of values for attributes of an MBean. The methods used for the insertion of [Attribute](http://docs.google.com/javax/management/Attribute.html) objects in the AttributeList overrides the corresponding methods in the superclass ArrayList. This is needed in order to insure that the objects contained in the AttributeList are only Attribute objects. This avoids getting an exception when retrieving elements from the AttributeList.

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

| **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** | |
| --- | --- |
| [**AttributeList**](http://docs.google.com/javax/management/AttributeList.html#AttributeList())()            Constructs an empty AttributeList. |
| [**AttributeList**](http://docs.google.com/javax/management/AttributeList.html#AttributeList(javax.management.AttributeList))([AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)            Constructs an AttributeList containing the elements of the AttributeList specified, in the order in which they are returned by the AttributeList's iterator. |
| [**AttributeList**](http://docs.google.com/javax/management/AttributeList.html#AttributeList(int))(int initialCapacity)            Constructs an empty AttributeList with the initial capacity specified. |
| [**AttributeList**](http://docs.google.com/javax/management/AttributeList.html#AttributeList(java.util.List))([List](http://docs.google.com/java/util/List.html)<[Attribute](http://docs.google.com/javax/management/Attribute.html)> list)            Constructs an AttributeList 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/AttributeList.html#add(javax.management.Attribute))([Attribute](http://docs.google.com/javax/management/Attribute.html) object)            Adds the Attribute specified as the last element of the list. |
| void | [**add**](http://docs.google.com/javax/management/AttributeList.html#add(int,%20javax.management.Attribute))(int index, [Attribute](http://docs.google.com/javax/management/Attribute.html) object)            Inserts the attribute specified as an element at the position specified. |
| void | [**add**](http://docs.google.com/javax/management/AttributeList.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. |
| boolean | [**add**](http://docs.google.com/javax/management/AttributeList.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. |
| boolean | [**addAll**](http://docs.google.com/javax/management/AttributeList.html#addAll(javax.management.AttributeList))([AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)            Appends all the elements in the AttributeList specified to the end of the list, in the order in which they are returned by the Iterator of the AttributeList specified. |
| boolean | [**addAll**](http://docs.google.com/javax/management/AttributeList.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/AttributeList.html#addAll(int,%20javax.management.AttributeList))(int index, [AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)            Inserts all of the elements in the AttributeList specified into this list, starting at the specified position, in the order in which they are returned by the Iterator of the AttributeList specified. |
| boolean | [**addAll**](http://docs.google.com/javax/management/AttributeList.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. |
| [List](http://docs.google.com/java/util/List.html)<[Attribute](http://docs.google.com/javax/management/Attribute.html)> | [**asList**](http://docs.google.com/javax/management/AttributeList.html#asList())()            Return a view of this list as a List<Attribute>. |
| void | [**set**](http://docs.google.com/javax/management/AttributeList.html#set(int,%20javax.management.Attribute))(int index, [Attribute](http://docs.google.com/javax/management/Attribute.html) object)            Sets the element at the position specified to be the attribute specified. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**set**](http://docs.google.com/javax/management/AttributeList.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. |

| **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** |
| --- |

### AttributeList

public **AttributeList**()

Constructs an empty AttributeList.

### AttributeList

public **AttributeList**(int initialCapacity)

Constructs an empty AttributeList with the initial capacity specified.

**Parameters:**initialCapacity - the initial capacity of the AttributeList, as specified by [ArrayList.ArrayList(int)](http://docs.google.com/java/util/ArrayList.html#ArrayList(int)).

### AttributeList

public **AttributeList**([AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)

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

**Parameters:**list - the AttributeList that defines the initial contents of the new AttributeList.**See Also:**[ArrayList.ArrayList(java.util.Collection)](http://docs.google.com/java/util/ArrayList.html#ArrayList(java.util.Collection))

### AttributeList

public **AttributeList**([List](http://docs.google.com/java/util/List.html)<[Attribute](http://docs.google.com/javax/management/Attribute.html)> list)

Constructs an AttributeList containing the elements of the List specified, in the order in which they are returned by the List's iterator.

**Parameters:**list - the List that defines the initial contents of the new AttributeList. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the list parameter is null or if the list parameter contains any non-Attribute objects.**Since:** 1.6 **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)<[Attribute](http://docs.google.com/javax/management/Attribute.html)> **asList**()

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

**Returns:**a List<Attribute> whose contents reflect the contents of this AttributeList.

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

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

### add

public void **add**([Attribute](http://docs.google.com/javax/management/Attribute.html) object)

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

**Parameters:**object - The attribute to be added.

### add

public void **add**(int index,  
 [Attribute](http://docs.google.com/javax/management/Attribute.html) object)

Inserts the attribute specified as an element at the position specified. Elements with an index greater than or equal to the current position are shifted up. If the index is out of range (index < 0 || index > size() a RuntimeOperationsException should be raised, wrapping the java.lang.IndexOutOfBoundsException thrown.

**Parameters:**object - The Attribute object to be inserted.index - The position in the list where the new Attribute object is to be inserted.

### set

public void **set**(int index,  
 [Attribute](http://docs.google.com/javax/management/Attribute.html) object)

Sets the element at the position specified to be the attribute specified. The previous element at that position is discarded. If the index is out of range (index < 0 || index > size() a RuntimeOperationsException should be raised, wrapping the java.lang.IndexOutOfBoundsException thrown.

**Parameters:**object - The value to which the attribute element should be set.index - The position specified.

### addAll

public boolean **addAll**([AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)

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

**Parameters:**list - Elements to be inserted into the list. **Returns:**true if this list changed as a result of the call.**See Also:**[ArrayList.addAll(java.util.Collection)](http://docs.google.com/java/util/ArrayList.html#addAll(java.util.Collection))

### addAll

public boolean **addAll**(int index,  
 [AttributeList](http://docs.google.com/javax/management/AttributeList.html) list)

Inserts all of the elements in the AttributeList specified into this list, starting at the specified position, in the order in which they are returned by the Iterator of the AttributeList specified. If the index is out of range (index < 0 || index > size() a RuntimeOperationsException should be raised, wrapping the java.lang.IndexOutOfBoundsException thrown.

**Parameters:**list - Elements to be inserted into the list.index - Position at which to insert the first element from the AttributeList specified. **Returns:**true if this list changed as a result of the call.**See Also:**[ArrayList.addAll(int, java.util.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/AttributeList.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/AttributeChangeNotificationFilter.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/AttributeNotFoundException.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/AttributeList.html)    [**NO FRAMES**](http://docs.google.com/AttributeList.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#26in1rg) | [METHOD](#2jxsxqh) |

[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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