| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HashPrintServiceAttributeSet.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/print/attribute/HashPrintRequestAttributeSet.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/IntegerSyntax.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/HashPrintServiceAttributeSet.html)    [**NO FRAMES**](http://docs.google.com/HashPrintServiceAttributeSet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | METHOD |

## **javax.print.attribute**

Class HashPrintServiceAttributeSet

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.print.attribute.HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html)  
 **javax.print.attribute.HashPrintServiceAttributeSet**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [AttributeSet](http://docs.google.com/javax/print/attribute/AttributeSet.html), [PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html)

public class **HashPrintServiceAttributeSet**extends [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html)implements [PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

Class HashPrintServiceAttributeSet provides an attribute set which inherits its implementation from class [HashAttributeSet](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) and enforces the semantic restrictions of interface [PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html).

**See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.print.attribute.HashPrintServiceAttributeSet)

| **Constructor Summary** | |
| --- | --- |
| [**HashPrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html#HashPrintServiceAttributeSet())()            Construct a new, empty hash print service attribute set. |
| [**HashPrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html#HashPrintServiceAttributeSet(javax.print.attribute.PrintServiceAttribute))([PrintServiceAttribute](http://docs.google.com/javax/print/attribute/PrintServiceAttribute.html) attribute)            Construct a new hash print service attribute set, initially populated with the given value. |
| [**HashPrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html#HashPrintServiceAttributeSet(javax.print.attribute.PrintServiceAttribute%5B%5D))([PrintServiceAttribute](http://docs.google.com/javax/print/attribute/PrintServiceAttribute.html)[] attributes)            Construct a new print service attribute set, initially populated with the values from the given array. |
| [**HashPrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/HashPrintServiceAttributeSet.html#HashPrintServiceAttributeSet(javax.print.attribute.PrintServiceAttributeSet))([PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html) attributes)            Construct a new attribute set, initially populated with the values from the given set where the members of the attribute set are restricted to the PrintServiceAttribute interface. |

| **Method Summary** | |
| --- | --- |

| **Methods inherited from class javax.print.attribute.**[**HashAttributeSet**](http://docs.google.com/javax/print/attribute/HashAttributeSet.html) |
| --- |
| [add](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#add(javax.print.attribute.Attribute)), [addAll](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#addAll(javax.print.attribute.AttributeSet)), [clear](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#clear()), [containsKey](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#containsKey(java.lang.Class)), [containsValue](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#containsValue(javax.print.attribute.Attribute)), [equals](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#equals(java.lang.Object)), [get](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#get(java.lang.Class)), [hashCode](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#hashCode()), [isEmpty](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#isEmpty()), [remove](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#remove(javax.print.attribute.Attribute)), [remove](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#remove(java.lang.Class)), [size](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#size()), [toArray](http://docs.google.com/javax/print/attribute/HashAttributeSet.html#toArray()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [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()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [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 javax.print.attribute.**[**PrintServiceAttributeSet**](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html) |
| --- |
| [add](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html#add(javax.print.attribute.Attribute)), [addAll](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html#addAll(javax.print.attribute.AttributeSet)) |

| **Methods inherited from interface javax.print.attribute.**[**AttributeSet**](http://docs.google.com/javax/print/attribute/AttributeSet.html) |
| --- |
| [clear](http://docs.google.com/javax/print/attribute/AttributeSet.html#clear()), [containsKey](http://docs.google.com/javax/print/attribute/AttributeSet.html#containsKey(java.lang.Class)), [containsValue](http://docs.google.com/javax/print/attribute/AttributeSet.html#containsValue(javax.print.attribute.Attribute)), [equals](http://docs.google.com/javax/print/attribute/AttributeSet.html#equals(java.lang.Object)), [get](http://docs.google.com/javax/print/attribute/AttributeSet.html#get(java.lang.Class)), [hashCode](http://docs.google.com/javax/print/attribute/AttributeSet.html#hashCode()), [isEmpty](http://docs.google.com/javax/print/attribute/AttributeSet.html#isEmpty()), [remove](http://docs.google.com/javax/print/attribute/AttributeSet.html#remove(javax.print.attribute.Attribute)), [remove](http://docs.google.com/javax/print/attribute/AttributeSet.html#remove(java.lang.Class)), [size](http://docs.google.com/javax/print/attribute/AttributeSet.html#size()), [toArray](http://docs.google.com/javax/print/attribute/AttributeSet.html#toArray()) |

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

### HashPrintServiceAttributeSet

public **HashPrintServiceAttributeSet**()

Construct a new, empty hash print service attribute set.

### HashPrintServiceAttributeSet

public **HashPrintServiceAttributeSet**([PrintServiceAttribute](http://docs.google.com/javax/print/attribute/PrintServiceAttribute.html) attribute)

Construct a new hash print service attribute set, initially populated with the given value.

**Parameters:**attribute - Attribute value to add to the set. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if attribute is null.

### HashPrintServiceAttributeSet

public **HashPrintServiceAttributeSet**([PrintServiceAttribute](http://docs.google.com/javax/print/attribute/PrintServiceAttribute.html)[] attributes)

Construct a new print service attribute set, initially populated with the values from the given array. The new attribute set is populated by adding the elements of attributes array to the set in sequence, starting at index 0. Thus, later array elements may replace earlier array elements if the array contains duplicate attribute values or attribute categories.

**Parameters:**attributes - Array of attribute values to add to the set. If null, an empty attribute set is constructed. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - (unchecked exception) Thrown if any element of attributes is null.

### HashPrintServiceAttributeSet

public **HashPrintServiceAttributeSet**([PrintServiceAttributeSet](http://docs.google.com/javax/print/attribute/PrintServiceAttributeSet.html) attributes)

Construct a new attribute set, initially populated with the values from the given set where the members of the attribute set are restricted to the PrintServiceAttribute interface.

**Parameters:**attributes - set of attribute values to initialise the set. If null, an empty attribute set is constructed. **Throws:** [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - (unchecked exception) Thrown if any element of attributes is not an instance of PrintServiceAttribute.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HashPrintServiceAttributeSet.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/print/attribute/HashPrintRequestAttributeSet.html)   [**NEXT CLASS**](http://docs.google.com/javax/print/attribute/IntegerSyntax.html) | [**FRAMES**](http://docs.google.com/index.html?javax/print/attribute/HashPrintServiceAttributeSet.html)    [**NO FRAMES**](http://docs.google.com/HashPrintServiceAttributeSet.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | METHOD |

[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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