

1 System.Security.SecurityElement Class

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```
4 [ILASM]  
5 .class public sealed serializable SecurityElement extends  
6 System.Object  
  
7 [C#]  
8 public sealed class SecurityElement
```

9 Assembly Info:

- 10 • *Name:* mscorlib
- 11 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 12 • *Version:* 1.0.x.x
- 13 • *Attributes:*
 - 14 ○ CLSCompliantAttribute(true)

15 Summary

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17 Represents the XML object model for encoding security objects.

18 Inherits From: System.Object

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20 **Library:** BCL

21

22 **Thread Safety:** All public static members of this type are safe for multithreaded
23 operations. No instance members are guaranteed to be thread safe.

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25 Description

26 The simple XML object model for an element consists of the following
27 parts:

- 28 • The tag is the element name.
- 29 • The attributes are zero or more name/value attribute pairs on the
30 element.
- 31 • The children are zero or more elements nested within <tag> and
32 </tag>.

33 An attribute name must be at least one character, and cannot be **null**.
34 If element-based value representation is used, elements with a text
35 string that is **null** are represented in the <tag/> form; otherwise, text
36 is delimited by the <tag> and </tag> tokens. Both forms can be
37 combined with attributes, which are shown if present.
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The tags, attributes, and text are case-sensitive. The XML form contains quotation marks and escape sequences where necessary. String values that include characters invalid for use in XML result in a **System.ArgumentException**. These rules apply to all properties and methods.

[*Note:* This class is intended to be a lightweight implementation of a simple XML object model for use within the security system, and not for use as a general XML object model.

It is strongly suggested that properties of a security element are expressed as attributes, and property values are expressed as attribute values. Specifically, avoid nesting text within tags. For any `<tag>text</tag>` representation a representation of type `<tag value="text"/>` is usually available. Using attribute-based XML representations aids in readability.

For performance reasons, character validity is checked only when the element is encoded into XML form, and not on every set of a property or method call. Static methods allow explicit checking where needed.

This class is used only by the system; applications cannot create instances of the **System.Security.SecurityElement** type.]

1 SecurityElement.ToString() Method

```
2 [ILASM]  
3 .method public hidebysig virtual string ToString()  
4 [C#]  
5 public override string ToString()
```

6 Summary

7 Returns a **System.String** representation of the current instance.

8 Return Value

9

10 A **System.String** representation of the current instance.

11 Description

12 [*Note:* The XML in the **System.String** returned by this method
13 represents the state of a permission object. To obtain the XML schema
14 used to encode that object, see the class page for the particular
15 permission object.

16
17 This method overrides **System.Object.ToString.**]

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