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# CFXMLNode Reference

Core Foundation



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# CFXMLNode Reference

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<b>Derived From:</b>	CType
<b>Framework:</b>	CoreFoundation/CoreFoundation.h
<b>Companion guide</b>	XML Programming Topics for Core Foundation
<b>Declared in</b>	CFXMLNode.h

## Overview

A CFXMLNode object describes an individual XML construct—like a tag, or a comment, or a string of character data. CFXMLNode is intended to be used with the CFXMLParser and CFXMLTree opaque types.

Each CFXMLNode object contains three main pieces of information—the node's type, the data string, and a pointer to an additional information data structure. A CFXMLNode object's type is one of the enumerations described in [Node Type Code](#) (page 16). The data string is always a CFString object; the meaning of the string is dependent on the node's type. The format of the additional data is also dependent on the node's type; in general, there is a custom structure for each type that requires additional data. See [Node Type Code](#) (page 16) for the mapping from a node type to meaning of the data string, and structure of the additional information. Note that these structures are versioned and may change as the parser changes. The current version can always be identified by the [kCFXMLNodeCurrentVersion](#) (page 16) constant; earlier versions can be identified and used by passing earlier values for the version number (although the older structures would have been removed from the header).

You create a CFXMLNode object using one of the create or copy functions. Use the [CFXMLNodeGetTypeCode](#) (page 8), [CFXMLNodeGetString](#) (page 7), and [CFXMLNodeGetInfoPtr](#) (page 7) functions to get the node type, data string, and additional information respectively. Use the [CFXMLNodeGetVersion](#) (page 8) function to get a node's version number.

## Functions

### **CFXMLNodeCreate**

Creates a new CFXMLNode.

```
CFXMLNodeRef CFXMLNodeCreate (
    CFAllocatorRef alloc,
    CFXMLNodeTypeCode xmlType,
    CFStringRef dataString,
    const void *additionalInfoPtr,
    CFIndex version
);
```

**Parameters***alloc*

The allocator to use to allocate memory for the new object. Pass `NULL` or `kCFAllocatorDefault` to use the current default allocator.

*xmlType*

Type identifier code for the XML structure you want this node to describe.

*dataString*

The XML data.

*additionalInfoPtr*

A pointer to a structure containing additional information about the XML data.

*version*

The version number of the CFXMLNode object you want to create. Pass one of the pre-defined constants, typically `kCFXMLNodeCurrentVersion` (page 16).

**Return Value**

A new CFXMLNode object. Ownership follows the Create Rule.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeCreateCopy**

Creates a copy of a CFXMLNode object.

```
CFXMLNodeRef CFXMLNodeCreateCopy (
    CFAllocatorRef alloc,
    CFXMLNodeRef origNode
);
```

**Parameters***alloc*

The allocator to use to allocate memory for the new object. Pass `NULL` or `kCFAllocatorDefault` to use the current default allocator.

*origNode*

The node to copy. Do not pass `NULL`.

**Return Value**

A new CFXMLNode object. Ownership follows the Create Rule.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeGetInfoPtr**

Returns the additional information pointer of a CFXMLNode object.

```
const void * CFXMLNodeGetInfoPtr (
    CFXMLNodeRef node
);
```

**Parameters**

*node*

The CFXMLNode object to examine.

**Return Value**

A pointer to a structure containing additional information. The CFXMLNode version together with the node's type determines the expected structure. See [Node Type Code](#) (page 16) for information about the possible structures returned. If the returned value is a Core Foundation object, ownership follows the Get Rule.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeGetString**

Returns the data string from a CFXMLNode.

```
CFStringRef CFXMLNodeGetString (
    CFXMLNodeRef node
);
```

**Parameters**

*node*

The CFXMLNode object to examine.

**Return Value**

The data string from *node*. Ownership follows the Get Rule.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeGetTypeCode**

Returns the XML structure type code for a CFXMLNode object.

```
CFXMLNodeTypeCode CFXMLNodeGetTypeCode (
    CFXMLNodeRef node
);
```

**Parameters**

*node*

The CFXMLNode object to examine.

**Return Value**

The type code for *node*.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeGetTypeID**

Returns the type identifier code for the CFXMLNode opaque type.

```
CTypeID CFXMLNodeGetTypeID (
    void
);
```

**Return Value**

The type identifier for the CFXMLNode opaque type.

**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeGetVersion**

Returns the version number for a CFXMLNode object.

```
CFIndex CFXMLNodeGetVersion (
    CFXMLNodeRef node
);
```

**Parameters**

*node*

The CFXMLNode object to examine.

**Return Value**

The version number of *node*.



**Availability**

Available in CarbonLib v1.1 and later.

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

## Data Types

### CFXMLAttributeDeclarationInfo

Contains information about an element attribute definition.

```
struct CFXMLAttributeDeclarationInfo {
    CFStringRef attributeName;
    CFStringRef typeString;
    CFStringRef defaultString;
};
typedef struct CFXMLAttributeDeclarationInfo CFXMLAttributeDeclarationInfo;
```

**Fields**

attributeName

The name of the attribute.

typeString

Describes the declaration of a single attribute.

defaultString

The attribute's default value.

**Discussion**

This structure is part of the definition of the [CFXMLAttributeListDeclarationInfo](#) (page 9) structure.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

### CFXMLAttributeListDeclarationInfo

Contains a list of the attributes associated with an element.

```
struct CFXMLAttributeListDeclarationInfo {
    CFIndex numberOfAttributes;
    CFXMLAttributeDeclarationInfo *attributes;
};
typedef struct CFXMLAttributeListDeclarationInfo CFXMLAttributeListDeclarationInfo;
```

**Fields**

numberOfAttributes

The number of attributes in the array.

attributes

A C array of attributes.

#### Discussion

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters an attribute declaration in the DTD. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain the pointer to this structure.

#### Availability

Available in Mac OS X v10.0 and later.

#### Declared In

CFXMLNode.h

## CFXMLDocumentInfo

Contains the source URL and text encoding information for the XML document.

```
struct CFXMLDocumentInfo {
    CFURLRef sourceURL;
    CFStringEncoding encoding;
};
typedef struct CFXMLDocumentInfo CFXMLDocumentInfo;
```

#### Fields

sourceURL

The source URL of the XML document.

encoding

The text encoding of the XML document.

#### Discussion

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters the XML declaration. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain the pointer.

#### Availability

Available in Mac OS X v10.0 and later.

#### Declared In

CFXMLNode.h

## CFXMLDocumentTypeInfo

Contains the external ID of the DTD.

```
struct CFXMLDocumentTypeInfo {
    CFXMLExternalID externalID;
};
typedef struct CFXMLDocumentTypeInfo CFXMLDocumentTypeInfo;
```

#### Fields

externalID

The external ID of the DTD.

**Discussion**

A pointer to this structure is included in the `CFXMLNode` object passed to your application when the parser encounters the beginning of the DTD. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain a pointer to this structure.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

`CFXMLNode.h`

**CFXMLElementInfo**

Contains a list of element attributes packaged as `CFDictionary` key/value pairs.

```
struct CFXMLElementInfo {
    CFDictionaryRef attributes;
    CFArrayRef attributeOrder;
    Boolean isEmpty;
};
typedef struct CFXMLElementInfo CFXMLElementInfo;
```

**Fields**

`attributes`

The dictionary of attribute values.

`attributeOrder`

An array specifying the order in which the attributes appeared in the XML document.

`isEmpty`

A flag indicating whether the element was expressed in closed form.

**Discussion**

A pointer to this structure is included in the `CFXMLNode` object passed to your application when the parser encounters an element containing attributes. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain the pointer.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

`CFXMLNode.h`

**CFXMLElementTypeDeclarationInfo**

Contains a description of the element type.

```
struct CFXMLElementTypeDeclarationInfo {
    CFStringRef contentDescription;
};
typedef struct CFXMLElementTypeDeclarationInfo CFXMLElementTypeDeclarationInfo;
```

**Fields**

`contentDescription`

A textual description of the element type.

**Discussion**

A pointer to this structure is included in the CFXMLNode passed to your application when the parser encounters an element type declaration. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain a pointer to this structure.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLEntityInfo**

Contains information describing an XML entity.

```
struct CFXMLEntityInfo {
    CFXMLEntityTypeCode entityType;
    CFStringRef replacementText;
    CFXMLExternalID entityID;
    CFStringRef notationName;
};
typedef struct CFXMLEntityInfo CFXMLEntityInfo;
```

**Fields**

entityType

The entity type code.

replacementText

NULL if entityType is external or unparsed, otherwise the text that the entity should be replaced with.

entityID

entityID.systemID will be NULL if entityType is internal.

notationName

NULL if entityType is parsed.

**Discussion**

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters an entity declaration. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain a pointer to this structure.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLEntityReferenceInfo**

Contains information describing an XML entity reference.

```
struct CFXMLEntityReferenceInfo {
    CFXMLEntityTypeCode entityType;
};
typedef struct CFXMLEntityReferenceInfo CFXMLEntityReferenceInfo;
```

**Fields**

entityType

The entity type code.

**Discussion**

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters an entity reference. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain the pointer.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLExternalID**

Contains the system and public IDs for an external entity reference.

```
struct CFXMLExternalID {
    CFURLRef systemID;
    CFStringRef publicID;
};
typedef struct CFXMLExternalID CFXMLExternalID;
```

**Fields**

systemID

The systemID URL.

publicID

The publicID string.

**Discussion**

This structure is part of the definition of the [CFXMLDocumentTypeInfo](#) (page 10), [CFXMLNotationInfo](#) (page 14), and [CFXMLEntityInfo](#) (page 12) structures.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNodeRef**

A reference to a CFXMLNode object.

```
typedef const struct __CFXMLNode *CFXMLNodeRef;
```

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLNotationInfo**

Contains the external ID of the notation.

```
struct CFXMLNotationInfo {
    CFXMLExternalID externalID;
};
typedef struct CFXMLNotationInfo CFXMLNotationInfo;
```

**Fields**

externalID

The external ID of the notation.

**Discussion**

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters a notation element. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain a pointer to this structure.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

**CFXMLProcessingInstructionInfo**

Contains the text of the processing instruction.

```
struct CFXMLProcessingInstructionInfo {
    CFStringRef dataString;
};
typedef struct CFXMLProcessingInstructionInfo CFXMLProcessingInstructionInfo;
```

**Fields**

dataString

The text of the processing instruction.

**Discussion**

A pointer to this structure is included in the CFXMLNode object passed to your application when the parser encounters a processing instruction. Use the [CFXMLNodeGetInfoPtr](#) (page 7) function to obtain the pointer.

**Availability**

Available in Mac OS X v10.0 and later.

**Declared In**

CFXMLNode.h

## Constants

### Entity Type Code

The entity type identification codes that the parser uses to describe XML entities.

```
enum CFXMLEntityTypeCode {
    kCFXMLEntityTypeParameter = 0,
    kCFXMLEntityTypeParsedInternal = 1,
    kCFXMLEntityTypeParsedExternal = 2,
    kCFXMLEntityTypeUnparsed = 3,
    kCFXMLEntityTypeCharacter = 4
};
typedef enum CFXMLEntityTypeCode CFXMLEntityTypeCode;
```

#### Constants

`kCFXMLEntityTypeParameter`

Implies a parsed, internal entity.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLEntityTypeParsedInternal`

Indicates a parsed, internal entity.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLEntityTypeParsedExternal`

Indicates a parsed, external entity.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLEntityTypeUnparsed`

Indicates an unparsed entity.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLEntityTypeCharacter`

Indicates a character entity type.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

#### Discussion

These codes are used with the [CFXMLEntityInfo](#) (page 12) and [CFXMLEntityReferenceInfo](#) (page 12) structures.

### Node Current Version

The version of a `CFXMLNode` object.

```
enum {
    kCFXMLNodeCurrentVersion = 1
};
```

**Constants**

**kCFXMLNodeCurrentVersion**  
 The current version of CFXMLNode objects.  
 Available in Mac OS X v10.0 and later.  
 Declared in CFXMLNode.h.

**Node Type Code**

The various XML data type identification codes that the parser uses to describe XML structures.

```
enum CFXMLNodeTypeCode {
    kCFXMLNodeTypeDocument = 1,
    kCFXMLNodeTypeElement = 2,
    kCFXMLNodeTypeAttribute = 3,
    kCFXMLNodeTypeProcessingInstruction = 4,
    kCFXMLNodeTypeComment = 5,
    kCFXMLNodeTypeText = 6,
    kCFXMLNodeTypeCDATASection = 7,
    kCFXMLNodeTypeDocumentFragment = 8,
    kCFXMLNodeTypeEntity = 9,
    kCFXMLNodeTypeEntityReference = 10,
    kCFXMLNodeTypeDocumentType = 11,
    kCFXMLNodeTypeWhitespace = 12,
    kCFXMLNodeTypeNotation = 13,
    kCFXMLNodeTypeElementTypeDeclaration = 14,
    kCFXMLNodeTypeAttributeListDeclaration = 15
};
typedef enum CFXMLNodeTypeCode CFXMLNodeTypeCode;
```

**Constants**

**kCFXMLNodeTypeDocument**  
 Indicates a document where the data string is NULL and the additional information is a pointer to a [CFXMLDocumentInfo](#) (page 10) structure.  
 Available in Mac OS X v10.0 and later.  
 Declared in CFXMLNode.h.

**kCFXMLNodeTypeElement**  
 Indicates an element where the data string is the name of the tag and the additional information is a pointer to a [CFXMLElementInfo](#) (page 11) structure.  
 Available in Mac OS X v10.0 and later.  
 Declared in CFXMLNode.h.

**kCFXMLNodeTypeAttribute**  
 Currently not used.  
 Available in Mac OS X v10.0 and later.  
 Declared in CFXMLNode.h.



`kCFXMLNodeTypeProcessingInstruction`

Indicates a processing instruction where the data string is the name of the target and the additional information is a pointer to a [CFXMLProcessingInstructionInfo](#) (page 14) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeComment`

Indicates a comment section where the data string is the text of the comment and the additional information is NULL.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeText`

Indicates a text section where the data string is the text's contents and the additional information is NULL.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeCDATASection`

Indicates a CDATA section where the data string is the text of the CDATA and the additional information is NULL.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeDocumentFragment`

Currently not used.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeEntity`

Indicates an entity where the data string is the name of the entity and the additional information is a pointer to a [CFXMLEntityInfo](#) (page 12) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeEntityReference`

Indicates an entity reference where the data string is the name of the referenced entity and the additional information is a pointer to a [CFXMLEntityReferenceInfo](#) (page 12) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeDocumentType`

Indicates a document type where the data string is the name given to the top-level element and the additional information is a pointer to a [CFXMLDocumentTypeInfo](#) (page 10) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeWhitespace`

Indicates white space where the data string is the text of the white space and the additional information is NULL.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeNotation`

Indicates a notation where the data string is the notation name and the additional information is a pointer to a [CFXMLNotationInfo](#) (page 14) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeElementTypeDeclaration`

Indicates an element type declaration where the data string is the tag name and the additional information is a pointer to a [CFXMLElementTypeDeclarationInfo](#) (page 11) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

`kCFXMLNodeTypeAttributeListDeclaration`

Indicates an attribute list declaration where the data string is the tag name and the additional information is a pointer to a [CFXMLAttributeListDeclarationInfo](#) (page 9) structure.

Available in Mac OS X v10.0 and later.

Declared in `CFXMLNode.h`.

**Discussion**

When the parser encounters a new XML structure, its data type and contents are placed in a `CFXMLNode` object.

# Document Revision History

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This table describes the changes to *CFXMLNode Reference*.

Date	Notes
2006-02-07	Made formatting changes.
2005-08-11	Cosmetic changes to conform to documentation guidelines.
2003-01-01	First version of this document.

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