

Microsoft Visual C++ Profile

Profile Name: **Microsoft Visual C++**
Profile Module Name: **C++_MS_Profile.xml**

Data type

The Microsoft Visual C++ profile includes only the data types that do not exist in the ANSI C++ profile. Microsoft C/C++ supports sized integer types. Declaration of 8-, 16-, 32-, or 64-bit integer variables can be done by using the `__intn` type specifier, where n is 8, 16, 32, or 64.

The types `__int8`, `__int16`, and `__int32` are synonyms for the ANSI types that have the same size, and are useful for writing portable code that behaves identically across multiple platforms.

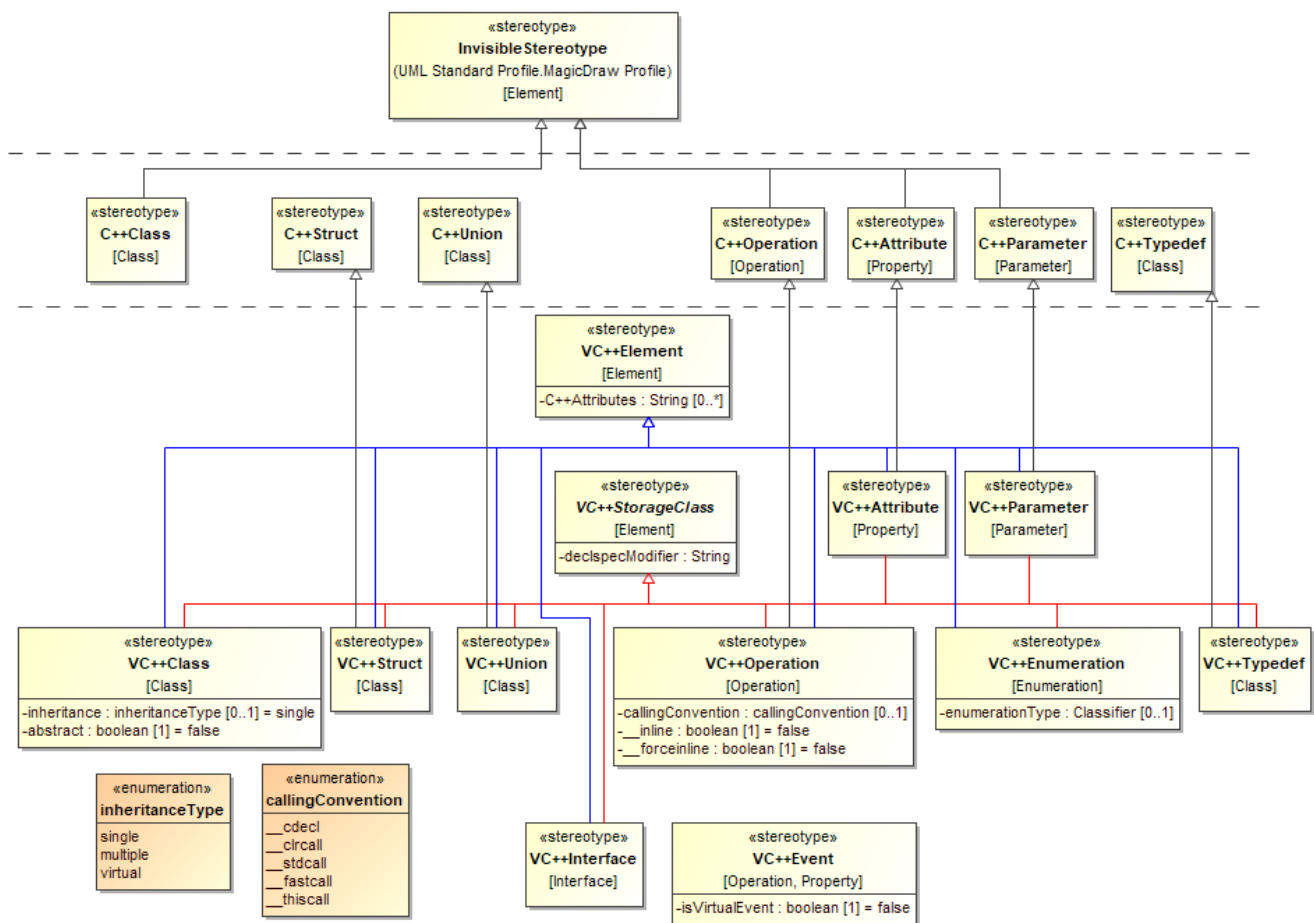
«dataType» _int8	«dataType» unsigned _int8
«dataType» _int16	«dataType» unsigned _int16
«dataType» _int32	«dataType» unsigned _int32
«dataType» _int64	«dataType» unsigned _int64
«dataType» long long	«dataType» unsigned _long long

Microsoft Visual C++ Data Type

Stereotype

**Profile Table**

The profile table and description in this section do not include the tagged value inherited from C++ ANSI profile.



Microsoft Visual C++ Stereotypes

VC++Class

«VC++Class» inherits from the «C++Class» and «VC++StorageClass»

Name	Meta Class	Constraints
VC++Class	Class	
Tag	Type	Description
inheritance	inheritanceType[0..1] = single (Enumeration) See <i>inheritanceType</i>	Represents the utilization of VC++ keywords, __single_inheritance, __multiple_inheritance, and __virtual_inheritance.
abstract	boolean[1] = false	Represents the utilization of keyword __abstract or abstract, depending on C++ dialects.
Inherited tag	Type	Description
declspecModifier «VC++StorageClass»	String	For keeping an extended declaration modifier of __declspec See Extended storage-class attributes with __declspec
C++Attributes «VC++Element»	String	For keeping C++ Attributes

«VC++Struct» inherits from «C++Struct» and «VC++StorageClass»

Name	Meta Class	Constraints
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VC++Struct	Class	
Inherited Tag	Type	Description
declspecModifier «VC++StorageClass»	String	For keeping an extended declaration modifier of __declspec See Extended storage-class attributes with __declspec
C++Attributes «VC++Element»	String	For keeping C++ Attributes
VC++Union		
Name	Meta Class	Constraints
VC++Union	Class	
Inherited Tag	Type	Description
declspecModifier «VC++StorageClass»	String	For keeping an extended declaration modifier of __declspec See Extended storage-class attributes with __declspec
C++Attributes «VC++Element»	String	For keeping C++ Attributes
VC++Enumeration		
Name	Meta Class	Constraints
VC++Enumeration	Enumeration	
Tag	Type	Description
Type	Classifier[0..1]	Represents the type of enumeration literal
VC++Typedef <<VC++Typedef>> inherits from <<C++Typedef>> and <<VC++StorageClass>>		
Name	Meta Class	Constraints
VC++Typedef	Class	
Inherited Tag	Type	Description
C++Attributes «VC++Element»	String	For keeping C++ Attributes
VC++Attribute		
Name	Meta Class	Constraints
VC++Attribute	Proeprty	
Inherited Tag	Type	Description
C++Attributes «VC++Element»	String	For keeping C++Attributes
VC++Operation		
Name	Meta Class	Constraints
VC++Operation	Operation	
Tag	Type	Description
callingConvention	callingConvention [0..1] (Enumeration) See callingConvention	Represents the utilization of keywords. • __cdecl • __clrcall • __stdcall • __fastcall • __thiscall
__inline	boolean[1] = false	Represents the utilization of the __inline keyword.

__forceinline	boolean[1] = false	Represents the utilization of the __forceinline keyword.
Inherited Tag	Type	Description
declspecModifier «VC++StorageClass»	String	For keeping an extended declaration modifier of __declspec See Extended storage-class attributes with __declspec
C++Attributes «VC++Element»	String	For keeping C++ Attributes
VC++Parameter		
Name	Meta Class	Constraints
VC++Parameter	Parameter	
Inherited Tag	Type	Description
C++Attributes «VC++Element»	String	For keeping C++ Attributes
VC++StorageClass		
«VC++StorageClass» is an abstract stereotype corresponding to extended declaration modifier of __declspec .		
Name	Meta Class	Constraints
VC++StorageClass	Element	
Tag	Type	Description
declspeModifier	String	For keeping an extended declaration modifier of __declspec . See <u>Extended storage-class attributes with __declspec</u>
VC++Element		
Name	Meta Class	Constraints
VC++Element	Element	
Tag	Type	Description
C++Attributes	String	For keeping C++Attributes
VC++Interface		
Name	Meta Class	Description
VC++Interface	Interface	Represents interface declaration with __interface keyword.
VC++Event		
Name	Meta Class	Description
VC++Event	Operation, Property	Represents interface, method or member declaration with __event keyword.
Tag	Type	Description
isVirtualEvent	boolean[1] = false	Supports virtual event as shown in the example below. // data member as event virtual __event ClickEventHandler*OnClick;

Enumeration

inheritanceType

inheritanceType will be used as the value of the tag named "inheritance" under «VC++Class».

Literal	Description
single	Representation of __single_inheritance keyword.

multiple	Representation of __multiple_inheritance keyword.
virtual	Representation of __virtual_inheritance keyword.

callingConvention

callingConvention will be used as the value of the tag named "**calling convention**" under «**VC++Operation**»

Literal	Description
__cdecl	Represents the utilization of __cdecl modifier.
__clrcall	Represents the utilization of __clrcall modifier.
__stdcall	Represents the utilization of __stdcall modifier.
__fastcall	Represents the utilization of __fastcall modifier.
__thiscall	Represents the utilization of __thiscall modifier.