

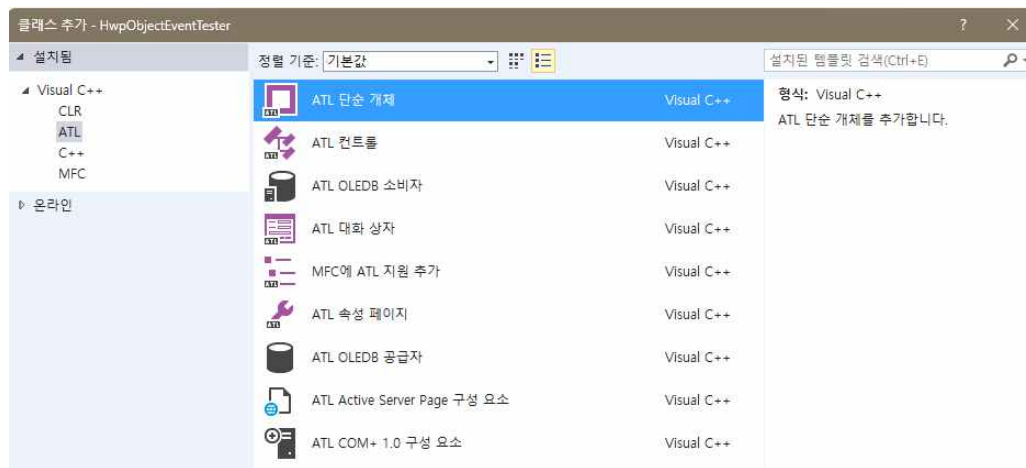
한글 오토메이션

Event Handler 추가 방법 (MFC/ATL)

1. 이벤트 핸들러 클래스 추가

(Visual Studio)

프로젝트 > 클래스 추가 > Visual C++ > ATL > ATL 단순 개체



ATL 단순 개체 마법사 - HwpObjectEventTester

?

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☒ 이중(D)

☐ 사용자 지정(I)

☐ 자동화 포함(L)

지원:

☐ ISupportErrorInfo(I)

☐ 연결 지점(P)

☐ 자유 스레드된 마샬러(M)

☐ IObjectWithSite(IE 개체 지원)(W)

지원되지 않는 스마트 장치 옵션을 보려면 여기를 클릭하십시오.

< 이전

다음 >

마침

취소

```
// CHwpEventHandler

class ATL_NO_VTABLE CHwpEventHandler :
    public CComObjectRootEx<CComSingleThreadModel>,
    public CComCoClass<CHwpEventHandler, &CLSID_HwpEventHandler>,
    public IDispatchImpl<IHwpEventHandler, &IID_IHwpEventHandler,
    &LIBID_HwpAutomationEventHandlerLib, /*wMajor */ 1, /*wMinor */ 0>
{
    BEGIN_COM_MAP(CHwpObjectEventHandler)
        COM_INTERFACE_ENTRY(IHwpObjectEventHandler)
        COM_INTERFACE_ENTRY(IDispatch)
    END_COM_MAP()
    ...
}

OBJECT_ENTRY_AUTO(_uuidof(HwpObjectEventHandler), CHwpObjectEventHandler)
```

2. IHwpObjectEvents 인터페이스 구현

1에서 생성한 클래스에 IHwpObjectEvents 인터페이스 구현

```
class ATL_NO_VTABLE CHwpEventHandler :
    public CComObjectRootEx<CComSingleThreadModel>,
    public CComCoClass<CHwpEventHandler, &CLSID_HwpEventHandler>,
    public IDispatchImpl<IHwpEventHandler, &IID_IHwpEventHandler,
    &LIBID_HwpAutomationEventHandlerLib, /*wMajor =*/ 1, /*wMinor =*/ 0>,
    public IDispatchImpl<IHwpObjectEvents, &_uuidof(IHwpObjectEvents), &LIBID_HwpObjectLib, /*
wMajor = */ 1>
{
    BEGIN_COM_MAP(CHwpEventHandler)
        COM_INTERFACE_ENTRY(IHwpEventHandler)
        COM_INTERFACE_ENTRY2(IDispatch, IHwpObjectEvents)
        COM_INTERFACE_ENTRY(IHwpObjectEvents)
    END_COM_MAP()

    // IHwpObjectEvents Methods
    STDMETHOD(Quit)()
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent Quit"));
        return E_NOTIMPL;
    }

    STDMETHOD(CreateXHwpWindow)()
    {
        return E_NOTIMPL;
    }

    STDMETHOD(CloseXHwpWindow)()
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent CloseXHwpWindow"));
        return E_NOTIMPL;
    }

    STDMETHOD(NewDocument)(long newVal)
    {
        return E_NOTIMPL;
    }

    STDMETHOD(DocumentBeforeClose)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentBeforeClose"));
        return E_NOTIMPL;
    }

    STDMETHOD(DocumentBeforeOpen)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentBeforeOpen"));
    }
}
```

```

        return E_NOTIMPL;
    }

    STDMETHODCALLTYPE(DocumentAfterOpen)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentAfterOpen"));
        return E_NOTIMPL;
    }

    STDMETHODCALLTYPE(DocumentBeforeSave)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentBeforeSave"));
        return E_NOTIMPL;
    }

    STDMETHODCALLTYPE(DocumentAfterSave)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentAfterSave"));
        return E_NOTIMPL;
    }

    STDMETHODCALLTYPE(DocumentAfterClose)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentAfterClose"));
        return E_NOTIMPL;
    }

    STDMETHODCALLTYPE(DocumentChange)(long newVal)
    {
        OutputDebugString(_T("[HWP-EVENT] ObjectEvent DocumentChange"));
        return E_NOTIMPL;
    }
}

...
}

```

※ IHwpObjectEvents의 GUID value을 알기 위해서는 #import 속성에 named_guids를 추가해야 함

```

#import "progid:HWPFrame.HwpObject.2" raw_interfaces_only, raw_native_types, no_namespace,
named_guids, auto_search

```

3. 이벤트 핸들러 연결

```
...
COleException exception;

if (m_app.CreateDispatch(_T("HWPFrame.HwpObject.2"), &exception) != NULL) {
    CXHwpWindows wins = m_app.get_XHwpWindows();
    CXHwpWindow win = wins.get_Active_XHwpWindow();
    win.put_Visible(TRUE);

    IConnectionPointContainer* pCPC = NULL;
    m_app.m_lpDispatch->QueryInterface(IID_IConnectionPointContainer, (void**)&pCPC);
    if (pCPC) {
        pCPC->FindConnectionPoint(__uuidof(IHwpObjectEvents), &m_pCP);

        if (m_pCP) {
            CComObject<CHwpObjectEventHandler>::CreateInstance(&m_pHwpEventHandler);
            if (m_pHwpEventHandler) {
                m_pHwpEventHandler->SetContainerInfo(&m_app);

                LPUNKNOWN p;
                m_pHwpEventHandler->QueryInterface(IID_IDispatch, (void**)&p);
                m_pCP->Advise(p, &m_dwHwpObjectEventHandlerCookie);
            }
        }
    }
}
```

```
CComObject<CHwpObjectEventHandler>* m_pHwpEventHandler;
IConnectionPoint* m_pCP;
DWORD m_dwHwpObjectEventHandlerCookie;
```

4. 이벤트 핸들러 연결 해제

```
if (m_pCP) {  
    m_pCP->Unadvise(m_dwHwpObjectEventHandlerCookie);  
}  
if (m_pHwpEventHandler) {  
    m_pHwpEventHandler->Release();  
}
```

참고 자료

<https://learn.microsoft.com/en-us/cpp/preprocessor/hash-import-directive-cpp?view=msvc-170>

<https://learn.microsoft.com/en-us/windows/win32/api/ocidl/nn-ocidl-connectionpoint>