

# Re: CertAddCertificateContextToStore CERT\_STORE\_ADD\_REPLACE\_EXISTING crashing CertGetCertificateContextProperty

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*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.embedded/2008-09/msg00118.html>

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After trying to come up with a minimal sample, It looks like the problem may not occur until the certificate is freed. The call to CryptFindCertificateKeyProvInfo is returning TRUE that it found a private key for the public-key-only certificate:

```
void import(_TCHAR* filename, PCCERT_CONTEXT* result)
{
HANDLE cf = CreateFile(filename, GENERIC_READ,
0, NULL, OPEN_EXISTING, 0, NULL);
if (cf != INVALID_HANDLE_VALUE)
{
DWORD len = GetFileSize(cf, NULL);
BYTE* cfData = new BYTE[len];
if (cfData)
{
ReadFile(cf, cfData, len, &len, NULL);

CRYPT_DATA_BLOB cdb = { len, cfData };
HCERTSTORE store = PFXImportCertStore(&cdb,
_T("SSLCertificateDemo"), CRYPT_USER_KEYSET | CRYPT_EXPORTABLE);
PCCERT_CONTEXT cert = CertEnumCertificatesInStore(store, NULL);

HCERTSTORE dest = CertOpenStore(CERT_STORE_PROV_SYSTEM, 0, NULL,
CERT_STORE_OPEN_EXISTING_FLAG | CERT_SYSTEM_STORE_CURRENT_USER,
L"My");
CertAddCertificateContextToStore(dest, cert,
CERT_STORE_ADD_REPLACE_EXISTING, result);

CertFreeCertificateContext(cert);
CertCloseStore(store, 0);
CertCloseStore(dest, 0);

delete[] cfData;
```

Re: CertAddCertificateContextToStore CERT\_STORE\_ADD\_REPLACE\_EXISTING crashing CertGetCertificateContextPr

```
}
CloseHandle(cf);
}
}

int _tmain(int argc, _TCHAR* argv[])
{
CRYPT_KEY_PROV_INFO provInfo;
BYTE overflow[1024]; // don't do this
PCCERT_CONTEXT cert;

import(_T("\\output.pfx"), &cert);
CertFreeCertificateContext(cert);

//same cert; no private key
import(_T("\\outputPublic.pfx"), &cert);
BOOL keyResult = CryptFindCertificateKeyProvInfo(cert, 0, NULL);

DWORD pcbData = sizeof(overflow) / 2;
memset(&provInfo, NULL, sizeof(provInfo));
memset(overflow, NULL, sizeof(overflow));
SetLastError(0);
BOOL propResult = CertGetCertificateContextProperty(cert,
CERT_KEY_PROV_INFO_PROP_ID, &provInfo, &pcbData);
DWORD err = GetLastError();

CertFreeCertificateContext(cert);

return 0;
}
.
```

Re: CertAddCertificateContextToStore CERT\_STORE\_ADD\_REPLACE\_EXISTING crashing CertGetCertificate