

**SignData(“”, kalkanFlags, inData, ref outSign);**

№	Входные данные - inData	InFlags	№	Выходные данные - outSign	outFlags
1	“Hello World” Тип - текст	-	1	-----BEGIN CMS----- MIIl8gYJKoZIhvcNAQc.....LPdosF/sbMMrE= -----END CMS----- Тип – CMS в формате PEM	KC_OUT_PEM
2	“SGVsbG8gV29ybGQ=” Тип - Base64	KC_IN_BASE64	2	MIIl8gYJKoZIhvcNAQcColl..... ILPdosF/sbMMrE= Тип - CMS в формате BASE64	KC_OUT_BASE64
3	“D:\Temp\ example.pdf” Тип - File	KC_IN_FILE	3	Бинарные данные Тип - CMS в формате DER	KC_OUT_DER

CMS with attached data: kalkanFlags = **KC\_SIGN\_CMS** + InFlags + outFlags;

CMS with detached data: kalkanFlags = **KC\_SIGN\_CMS** + InFlags + outFlags + **KC\_DETACHED\_DATA**;

DraftSign: kalkanFlags = **KC\_SIGN\_DRAFT** + InFlags + outFlags;

**Пример приведен в приложении №1**

## Multi-Sign

№	Входные данные		InFlags	№	Выходные данные - outSign	outFlags
	inData	outSign				
1	-	-----BEGIN CMS-----MIIl8gYJKoZIhvcNAQcC..... Dyg/X5VR3ZKQptzg=-----END CMS----- Тип – CMS в формате PEM	KC_IN_PEM	1	-----BEGIN CMS----- MIIl8gYJKoZIhvcNAQcColl..... LPdosF/sbMMrE= -----END CMS----- Тип – CMS в формате PEM	KC_OUT_PEM
				2	MIIOsgYJKo1...r8gK1NjKmBQGEjS/82jdwA= Тип - CMS в формате BASE64	KC_OUT_BASE64

CMS with attached data: kalkanFlags = **KC\_SIGN\_CMS** + InFlags + outFlags;

CMS with detached data: kalkanFlags = **KC\_SIGN\_CMS** + InFlags + outFlags + **KC\_DETACHED\_DATA**;

**Пример приведен в приложении №2**

Если необходимо установить штамп времени(TSP): kalkanFlags += **KC\_WITH\_TIMESTAMP**; (Только для CMS-подписи)

**VerifyData(" ", kalkanFlags, 0, inData, inSign, out outData, out outVerifyInfo, out outCert);**

№	Входные данные - <b>inSign</b>	InFlags	№	Выходные данные - <b>outData</b>	outFlags
1	-----BEGIN CMS----- MIIl8gYJKoZIhvcNAQcColl..... LPdosF/sbMMrE= -----END CMS----- <b>Тип – CMS в формате PEM</b>	<b>KC_IN_PEM</b>	1	"Hello World" <b>Тип - текст</b>	<b>KC_OUT_PEM</b>
2	MIlI8gYJKoZIhvcNAQcColl.....ILPdosF/sbMMrE= <b>Тип - CMS в формате BASE64</b>	<b>KC_IN_BASE64</b>	2	"SGVsbG8gV29ybGQ=" " <b>Тип - Base64</b>	<b>KC_OUT_BASE64</b>
3	"D:\Temp\ example.pdf" <b>Тип – pdf с CMS подписью</b>	<b>KC_IN_FILE+ KC_IN_DER</b>	3	Бинарные данные <b>Тип - DER</b>	<b>KC_OUT_DER</b>

*Если CMS со вложенными данными (attached data), то inData = "".*

*Если же CMS без вложенных данных (detached data), то inData = "Hello World" – подписанные данные.*

*Если при проверке подписи выходит ошибка - 0x08F00042, то сертификат просрочен. Для игнорирования данной ошибки следует добавить флаг:*

**kalkanFlags += KC\_NOCHECKCERTTIME**

**kalkanFlags = KC\_SIGN\_CMS + InFlags + outFlags;**

*CMS with detached data:*      **kalkanFlags = KC\_SIGN\_CMS + InFlags + outFlags + KC\_DETACHED\_DATA;**

*DraftSign:*      **kalkanFlags = KC\_SIGN\_DRAFT + InFlags + outFlags;**

**Пример приведен в приложении №3**

# Приложение №1

№	Входные данные - inData	kalkanFlags	Выходные данные - outData
1	“Hello World” Тип - текст	KC_OUT_BASE64 + KC_SIGN_DRAFT	TDBKUC+pOlt1COQevNAWQXaowCMODS7jLngLUVcbkUxTVTVws8ggY22G3C1xCi4u7ZkTpMPXTTs2XN8+oiF0TLCBKzUSPQ5gzP73isDbeT3S00fh2AGSMIQ/M6O6xt0uumcs27vh2ijhvPHueSIA8e1zb42X5A+JmEkB98IOhZYIbj9gh5BIYa8STca8s6zS57gfMmEPP3PvrzeZPPuk7T4MmcfS8QNI6uhalLsm9VP5WEJGsjCrJDPpa3554XUU5xuyQGeef/bTu tlwT/ayOmBL5O3pi7bwwZnEGFMWFM/xr255wiSgBz2FwVyetJlVwbQVnnWgcPFpy8q7QD2tA==
2	“SGVsbG8gV29ybGQ=” Тип - Base64	KC_IN_BASE64 + KC_OUT_BASE64 + KC_SIGN_DRAFT	TDBKUC+pOlt1COQevNAWQXaowCMODS7jLngLUVcbkUxTVTVws8ggY22G3C1xCi4u7ZkTpMPXTTs2XN8+oiF0TLCBKzUSPQ5gzP73isDbeT3S00fh2AGSMIQ/M6O6xt0uumcs27vh2ijhvPHueSIA8e1zb42X5A+JmEkB98IOhZYIbj9gh5BIYa8STca8s6zS57gfMmEPP3PvrzeZPPuk7T4MmcfS8QNI6uhalLsm9VP5WEJGsjCrJDPpa3554XUU5xuyQGeef/bTu tlwT/ayOmBL5O3pi7bwwZnEGFMWFM/xr255wiSgBz2FwVyetJlVwbQVnnWgcPFpy8q7QD2tA==
3	“Hello World” Тип - текст	KC_OUT_PEM + KC_SIGN_CMS + KC_WITH_TIMESTAMP	-----BEGIN CMS----- MIIMLgYJKoZlhcNAQcCoIIIMHzCCDBsCAQExDjAMBggqgw4DCgEDAQUAMBoGCSqGSib3DQEHAAANBATIZWxsbyBXb3JsZKCCBEIwggQ+MIID6KADAgECAH4wVKBdBwX9Pjg6lQIdgzLWnLG9TANBgkqgw4DCgEBAQIFADBTMQswCQYDVQQGEWJLWjFEMEIG A1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckwHhcNMjAwMTMxMTIyNDU0WHcnMTMwMTMwMTIyNDU0WjCBTEEmBwGA1UEAwWVOKLQldChOKLQntCSINCiOJXQodCiMRUwEwYDVQQEADAzQotCVOKHqotCeOJlXGDAWBgNVBAUTD0lUJTEyMzQ1Njc4OTAxMTELMAkGA1UEBHMCS1oxHDAaBgNVBACME9CdOKPQoC3QodCj0JvQotCQOJ0xHDAaBgNVBAgME9CdOKPQoC3QodCj0JvQotCQOJ0xGDAWBgNVBAoMD9CQOJ4gltCiOJXQodCijEYMBYGA1UECwwPQkIOMTIzNDU2Nzg5MDIxMRkwFwYDVQQqDBDQotCVOKHqotCeOJLQmNcnMGwwJQYJKoMAOwoBAQEBAQBgGCIqDDgMKAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9nb3N0LmNyblYjaHR0cDovL2NybDEu cGtpLmdvdI5rei9uY2FfZ29zdC5jcmwwXAYDVROuBFUwUzBRoe+gTYkAHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH MAGGFmh0dHA6Ly9vY3NwLnBra55nb3Yua3owDQYJKoMAOwoBAQEBCBAAQDQk1dk8sY7e1KS6h3hGhEUfSLlbgHaFmPjgrotAjQfUhfKFs5xSipJA1J0SvUGtb/RmIfF5IGfsp5wdz0Q6F7ym+8MYIHojCCB54CAQEwazBTMQswCQYDVQQGEWJLWjFEMEIGA1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckCFDjBUoF0HBf08mDohCiodMTacsb1MAwGCgCgDgMKAQMBBQCGgalwGAYJKoZlhcNAQkDMQsGCSqGSib3DQEHATAcBgkqhkiG9w0BCQUxUdxcnMjAwMjA1MDY0ZTI5WjAvBgkqhkiG9w0BCQXlgQgE90Xx3rvbBdtDDks3w6eHqgSeHKRo9Y62BZWaVxSy8wNwYlKoZlhcNAQkQAI8xKdAmMCQwlgQgoz+VLBBNkyhPUZ1HW3HiiYQrYvUEmdcimY57pS/qByAwDQYJKoMAOwoBAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH MAGGFmh0dHA6Ly9vY3NwLnBra55nb3Yua3owDQYJKoMAOwoBAQEBCBAAQDQk1dk8sY7e1KS6h3hGhEUfSLlbgHaFmPjgrotAjQfUhfKFs5xSipJA1J0SvUGtb/RmIfF5IGfsp5wdz0Q6F7ym+8MYIHojCCB54CAQEwazBTMQswCQYDVQQGEWJLWjFEMEIGA1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckCFDjBUoF0HBf08mDohCiodMTacsb1MAwGCgCgDgMKAQMBBQCGgalwGAYJKoZlhcNAQkDMQsGCSqGSib3DQEHATAcBgkqhkiG9w0BCQUxUdxcnMjAwMjA1MDY0ZTI5WjAvBgkqhkiG9w0BCQXlgQgE90Xx3rvbBdtDDks3w6eHqgSeHKRo9Y62BZWaVxSy8wNwYlKoZlhcNAQkQAI8xKdAmMCQwlgQgoz+VLBBNkyhPUZ1HW3HiiYQrYvUEmdcimY57pS/qByAwDQYJKoMAOwoBAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH MAGGFmh0dHA6Ly9vY3NwLnBra55nb3Yua3owDQYJKoMAOwoBAQEBCBAAQDQk1dk8sY7e1KS6h3hGhEUfSLlbgHaFmPjgrotAjQfUhfKFs5xSipJA1J0SvUGtb/RmIfF5IGfsp5wdz0Q6F7ym+8MYIHojCCB54CAQEwazBTMQswCQYDVQQGEWJLWjFEMEIGA1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckCFDjBUoF0HBf08mDohCiodMTacsb1MAwGCgCgDgMKAQMBBQCGgalwGAYJKoZlhcNAQkDMQsGCSqGSib3DQEHATAcBgkqhkiG9w0BCQUxUdxcnMjAwMjA1MDY0ZTI5WjAvBgkqhkiG9w0BCQXlgQgE90Xx3rvbBdtDDks3w6eHqgSeHKRo9Y62BZWaVxSy8wNwYlKoZlhcNAQkQAI8xKdAmMCQwlgQgoz+VLBBNkyhPUZ1HW3HiiYQrYvUEmdcimY57pS/qByAwDQYJKoMAOwoBAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH MAGGFmh0dHA6Ly9vY3NwLnBra55nb3Yua3owDQYJKoMAOwoBAQEBCBAAQDQk1dk8sY7e1KS6h3hGhEUfSLlbgHaFmPjgrotAjQfUhfKFs5xSipJA1J0SvUGtb/RmIfF5IGfsp5wdz0Q6F7ym+8MYIHojCCB54CAQEwazBTMQswCQYDVQQGEWJLWjFEMEIGA1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckCFDjBUoF0HBf08mDohCiodMTacsb1MAwGCgCgDgMKAQMBBQCGgalwGAYJKoZlhcNAQkDMQsGCSqGSib3DQEHATAcBgkqhkiG9w0BCQUxUdxcnMjAwMjA1MDY0ZTI5WjAvBgkqhkiG9w0BCQXlgQgE90Xx3rvbBdtDDks3w6eHqgSeHKRo9Y62BZWaVxSy8wNwYlKoZlhcNAQkQAI8xKdAmMCQwlgQgoz+VLBBNkyhPUZ1HW3HiiYQrYvUEmdcimY57pS/qByAwDQYJKoMAOwoBAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH MAGGFmh0dHA6Ly9vY3NwLnBra55nb3Yua3owDQYJKoMAOwoBAQEBCBAAQDQk1dk8sY7e1KS6h3hGhEUfSLlbgHaFmPjgrotAjQfUhfKFs5xSipJA1J0SvUGtb/RmIfF5IGfsp5wdz0Q6F7ym+8MYIHojCCB54CAQEwazBTMQswCQYDVQQGEWJLWjFEMEIGA1UEAwW70rDQm9Ci0KLQ9KaINCaOKPTmNCb0JDQndCUOKvQoNCj0KJQyDQntCgOKLQkNCb0KvSmiAoR09TVckCFDjBUoF0HBf08mDohCiodMTacsb1MAwGCgCgDgMKAQMBBQCGgalwGAYJKoZlhcNAQkDMQsGCSqGSib3DQEHATAcBgkqhkiG9w0BCQUxUdxcnMjAwMjA1MDY0ZTI5WjAvBgkqhkiG9w0BCQXlgQgE90Xx3rvbBdtDDks3w6eHqgSeHKRo9Y62BZWaVxSy8wNwYlKoZlhcNAQkQAI8xKdAmMCQwlgQgoz+VLBBNkyhPUZ1HW3HiiYQrYvUEmdcimY57pS/qByAwDQYJKoMAOwoBAQEBAQEGCIqDDgMKAQMBAAQADQwAEQPt7+Toyzfr2ET3VNkb2oDF+Fj0HqW5oGMEK/g+hH4OwTAofNsiO2XSBJN6TUukmfPtx9Jot6DI4eJvOLJ2sHJKjggHrMIIB5A0BGNVHQ8BAf8EBAMCBsAwKAYDVROIBCEwHwYlKwYBBQUHAAQCCEqDDgMDBAECBgkqgw4DAWQBAGewDwYDVROjBAGwBoAEW2pz6TAdBgNVHQ4EFgQUF2KDAKdW1I2OibmNdsK3QBY2W7YwXgYDVROjBAGwBFCwWVTBTBgcgagw4DAwIBMEGwIYKwYBBQUHAAQEFWFh0dHA6Ly9wa2kuZ292Lmt6L2NwczAjBggrBgEFBQcCAjAXDBVodHRwOi8vcGtpLmdvdI5rei9jcHMwWAYDVROjBFewTzBNoEug5SYiaHR0cDovL2NybC5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JshiVodHRwOi8vY3JsMS5wa2kuZ292Lmt6L25jYV9kX2dvc3QuY3JsMGMGMCsGAQUFBwEBBFcwVTAwBggrBgEFBQcwAoYjaHR0cDovL3Bra55nb3Yua3ovY2Vydc9uY2FfZ29zdC5jZlwiYlKwYBBQUH 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