



PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 2.40 Errata 01

Committee Specification Draft 01

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This prose specification is one component of a Work Product that also includes:

- *PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 2.40 Plus Errata 01*. Edited by Susan Gleeson, Chris Zimman, Robert Griffin, and Tim Hudson. 09 December 2015. OASIS Standard Incorporating Draft 01 of Errata 01. <http://docs.oasis-open.org/pkcs11/pkcs11-curr/v2.40/errata01/csd01/pkcs11-curr-v2.40-errata01-csd01-complete.html>.

Related work:

This specification is related to:

- Normative computer language definition files for PKCS #11 v2.40:
 - <http://docs.oasis-open.org/pkcs11/pkcs11-base/v2.40/errata01/csd01/include/pkcs11-v2.40/pkcs11.h>

- <http://docs.oasis-open.org/pkcs11/pkcs11-base/v2.40/errata01/csd01/include/pkcs11-v2.40/pkcs11t.h>
- <http://docs.oasis-open.org/pkcs11/pkcs11-base/v2.40/errata01/csd01/include/pkcs11-v2.40/pkcs11f.h>

Abstract:

This document contains corrections to errors and omissions in the *PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 2.40*, OASIS Standard.

Status:

This document was last revised or approved by the OASIS PKCS 11 TC on the above date. The level of approval is also listed above. Check the “Latest version” location noted above for possible later revisions of this document. Any other numbered Versions and other technical work produced by the Technical Committee (TC) are listed at https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=pkcs11#technical.

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1 Introduction

[All text is normative unless otherwise labeled]

1.1 Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in **[RFC2119]** Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.

[.

1.2 Normative References

- [RFC2119]** Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.
- [PKCS #11-Curr]** *PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 2.40*. Edited by Susan Gleeson and Chris Zimman. 14 April 2015. OASIS Standard. <http://docs.oasis-open.org/pkcs11/pkcs11-curr/v2.40/os/pkcs11-curr-v2.40-os.html>. Latest version: <http://docs.oasis-open.org/pkcs11/pkcs11-curr/v2.40/pkcs11-curr-v2.40.html>.
- [PKCS #11-Curr-Rev01]** *PKCS #11 Cryptographic Token Interface Current Mechanisms Specification Version 2.40 Plus Errata 01*. Edited by Susan Gleeson, Chris Zimman, Robert Griffin, and Tim Hudson. 09 December 2015. OASIS Standard Incorporating Draft 01 of Errata 01. <http://docs.oasis-open.org/pkcs11/pkcs11-curr/v2.40/errata01/csd01/pkcs11-curr-v2.40-errata01-csd01-complete.html>.

2 Errata for PKCS #11 Current Mechanisms Specification v2.40 OS

2.1 Removal of Manifest Constants from Appendix B

To minimize the risk of errors, values for PKCS #11 manifest constants in [PKCS #11-Curr-Rev01] are specified only in the normative computer language definition files associated with that specification. The table of manifest constant definitions that was included in Appendix B of the [PKCS #11-Curr] is not included in [PKCS #11-Curr-Rev01]. Corrections to errors in Appendix B of [PKCS #11-Curr] have been incorporated into the normative computer language definition files specified in [PKCS #11-Curr-Rev01].

See the following normative computer language definition files (linked from the “[Related work](#)” section above) for the manifest constants:

- include/pkcs11-v2.40/pkcs11.h
- include/pkcs11-v2.40/pkcs11t.h
- include/pkcs11-v2.40/pkcs11f.h

2.2 Corrections to TLS V1.2 Mechanisms

Implementers of the TLS V1.2 mechanisms as specified in [PKCS #11-Curr] should consult the PKCS 11 TC wiki at <https://wiki.oasis-open.org/pkcs11/> for the latest informative guidance prior to implementing these mechanisms. Refinements to the specification of the TLS V1.2 mechanisms are anticipated as part of PKCS #11 V2.41.

2.3 Corrections to PKCS #11 Current Mechanisms Specification V2.40 OS

The following corrections have been made in [PKCS #11-Curr-Rev01]:

- The definition of CK_SEED_CBC_ENCRYPT_DATA_PARAMS was omitted from the specification text.

```
typedef struct CK_SEED_CBC_ENCRYPT_DATA_PARAMS {
    CK_BYTE      iv[16];
    CK_BYTE_PTR  pData;
    CK_ULONG     length;
} CK_SEED_CBC_ENCRYPT_DATA_PARAMS;

typedef CK_SEED_CBC_ENCRYPT_DATA_PARAMS CK_PTR
CK_SEED_CBC_ENCRYPT_DATA_PARAMS_PTR;
```

- References to CK_PARAM_TYPE have been corrected to CK_OTP_PARAM_TYPE.
- The corrected definition of CK_PKCS5_PBKDF2_PARAMS2 that replaces the deprecated CK_PKCS5_PBKD2_PARAMS was omitted from the specification text.

```
typedef struct CK_PKCS5_PBKD2_PARAMS2 {
    CK_PKCS5_PBKDF2_SALT_SOURCE_TYPE saltSource;
    CK_VOID_PTR  pSaltSourceData;
```

```

    CK_ULONG ulSaltSourceDataLen;
    CK_ULONG iterations;
    CK_PKCS5_PBKD2_PSEUDO_RANDOM_FUNCTION_TYPE prf;
    CK_VOID_PTR pPrfData;
    CK_ULONG ulPrfDataLen;
    CK_UTF8CHAR_PTR pPassword;
    CK_ULONG ulPasswordLen;
} CK_PKCS5_PBKD2_PARAMS2;

```

- References to CKM_X9_42_DH_PKCS_PARAMETER_GEN have been corrected to CKM_X9_42_DH_PARAMETER_GEN
- Typographical error of CKM_AES_XCBC_MAC-96 has been corrected to CKM_AES_XCBC_MAC_96
- In section 2.41.5.1 the CKA_OTP_CHALLENGE_REQUIREMENT table entry had an incorrect line break.
- References to CKA_OTP_CHALLENGE_REQUIEMENT have been corrected to CKA_OTP_CHALLENGE_REQUIREMENT
- References to CK_CBC_ENCRYPT_DATA_PARAMS have been corrected to CK_SEED_CBC_ENCRYPT_DATA_PARAMS
- References to CK_CBC_ENCRYPT_DATA_PARAMS_PTR have been corrected to CK_SEED_CBC_ENCRYPT_DATA_PARAMS_PTR
- Missing text in section 2.2.1 CK_DSA_PARAMETER_GEN_PARAM has been included
 - CK_DSA_PARAMETER_GEN_PARAM_PTR is a pointer to a CK_DSA_PARAMETER_GEN_PARAM
- Typographical error with an extra space in "CK_ECMQV_DERIVE_PARAMS"
- Missing text in section 2.45.5 CK_GOSTR3410_DERIVE_PARAMS has been included
 - CK_GOSTR3410_DERIVE_PARAMS_PTR is a pointer to a CK_GOSTR3410_DERIVE_PARAMS
- Missing text in section 2.45.5 CK_GOSTR3410_KEY_WRAP_PARAMS has been included
 - CK_GOSTR3410_KEY_WRAP_PARAMS_PTR is a pointer to a CK_GOSTR3410_KEY_WRAP_PARAMS
- References to CKM_DSA_PROBABALISTIC_PARAMETER_GEN have been corrected to CKM_DSA_PROBABLISTIC_PARAMETER_GEN
- References to CKM_GOSTR3410_WITH_GOST3411 have been corrected to CKM_GOSTR3410_WITH_GOSTR3411
- References to CKM_SHA1 have been corrected to CKM_SHA_1
- References to CK_OTP_FORMAT have been corrected to CK_OTP_OUTPUT_FORMAT
- References to CK_PKCS5_PBKD2_PARAM have been corrected to CK_PKCS5_PBKD2_PARAMS

3 Conformance

PKCS #11 Implementation Conformance is defined in Section 3 of **[PKCS #11-Curr]**.

Appendix A. Acknowledgments

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

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Appendix B. Revision History

Revision	Date	Editor	Changes Made
wd01	9 Dec 2015	Robert Griffin / Tim Hudson	First draft, incorporating v2.40 errata from the PKCS 11 TC wiki into template document