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| **WG:** | Security Activity | | Web CryptoAPI Working Group | |
|  | PROPOSAL CONTRIBUTION | | | |
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| **Title:** | **Propose to adding text in Section 23 Algorithms** | | | |

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1. Overview

This proposal proposes to add text for the SEED algorithm in Section 23 Algorithms and Section 27 References

1. Proposed adding text in Section 23

23.16. SEED

**23.16.1. Description**

This “SEED” a 128-bit symmetric key block cipher that has been developed by KISA (Korea Information Security Agency) since 1998, as specified by [RFC4269]. SEED is a national standard encryption algorithm in the Republic of Korea [TTASSEED] and is designed to use the S-boxes and permutations that balance with the current computing technology,

**23.16.2. Registration**

The [recognized algorithm name](http://www.w3.org/TR/WebCryptoAPI/#recognized-algorithm-name) for this algorithm is "SEED".

| [**Operation**](http://www.w3.org/TR/WebCryptoAPI/#supported-operations) | [**Parameters**](http://www.w3.org/TR/WebCryptoAPI/#algorithm-specific-params) | [**Result**](http://www.w3.org/TR/WebCryptoAPI/#algorithm-result) |
| --- | --- | --- |
| encrypt | [SeedCbcParams](http://www.w3.org/TR/WebCryptoAPI/#dfn-RsaOaepParams) | ArrayBufferView? |
| decrypt | [SeedCbcParams](http://www.w3.org/TR/WebCryptoAPI/#dfn-RsaOaepParams) | ArrayBufferView? |
| generateKey | [SeedKeyGenParams](http://www.w3.org/TR/WebCryptoAPI/#dfn-RsaKeyGenParams) | Key? |

#### 23.16.3. SeedCbcParams dictionary

**IDL**

dictionary *SeedKeyGenParams* : [AlgorithmParameters](http://www.w3.org/TR/WebCryptoAPI/#dfn-AlgorithmParameters) {

// Seed Key length, in bits, of the key

[EnforceRange] unsigned short length;

};

dictionary SeedCbcParams : AlgorithmParameters {

// The initialization vector. MUST be 16 bytes.

ArrayBufferView iv;

}

#### 23.16.4. Operations

* Encrypt
* Decrypt
* Generate Key

1. Proposed adding text in Section 27 References

**RFC4269**

[*The SEED Encryption Algorithm*](http://www.ietf.org/rfc/rfc3447), H.J. Lee, S.J. Lee, J.H. Yoon, D.H. Cheon, J.I. Lee, KISA, IETF.