



ASSURANCE LEVEL ¹

| Level 1 | Level 2 | Level 3 | Level 4 |
|---------|-----------|---------|-----------|
| SOME | SOME PLUS | HIGH | VERY HIGH |

AUTHENTICATION FACTORS

1-FACTOR (Credential Only)

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|---|------------|------------|--|--|
| CONTACT (EntryPoint™) | 74-01-1001 | | | |
| CONTACTLESS (EntryPoint™) | 74-01-3001 | | | |
| CONTACTLESS w/ PKI CHALLENGE (CAK) (TrustPoint™) | | 74-01-4000 | | |
| DUAL INTERFACE (EntryPoint™) | 74-01-2002 | | | |
| DUAL INTERFACE w/ PKI CHALLENGE (CAK) (TrustPoint™) | | 74-01-4012 | | |

2-FACTOR (Credential + Pin or PIN)

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|--|------------|------------|------------|--|
| CONTACTLESS + Pin to System (EntryPoint™) (2) | 74-01-3002 | | | |
| CONTACTLESS + Pin to SYSTEM w/ PKI CHALLENGE (TrustPoint™) (2) | | 74-01-4002 | | |
| CONTACT + PIN (EntryPoint™) | 74-01-1002 | | | |
| CONTACT + PIN w/ PKI CHALLENGE (TrustPoint™) | | | 74-01-4001 | |
| DUAL INTERFACE: Contactless Mode w/ Pin to SYSTEM (EntryPoint™) (2) | 74-01-2003 | | | |
| DUAL INTERFACE: Contact Mode w/ PIN to CARD (EntryPoint™) | 74-01-2003 | | | |
| DUAL INTERFACE: Contactless Mode w/ CAK CHALLENGE (TrustPoint™) | | 74-01-4003 | | |
| DUAL INTERFACE: Contact Mode w/ PIN to CARD w/ PKI CHALLENGE (TrustPoint™) | | | 74-01-4003 | |

3-FACTOR

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|--|--|------------|--|------------|
| DUAL INTERFACE + PIN + BIO (TURNSTILE INSTALLATION) (3) | | 71-02-2122 | | |
| DUAL INTERFACE + PIN + BIO (WALL MOUNT) (3) | | 71-02-2222 | | |
| DUAL INTERFACE + PIN + BIO w/ PKI CHALLENGE (TURNSTILE INSTALLATION) (3) | | | | 71-02-3122 |
| DUAL INTERFACE + PIN + BIO w/ PKI CHALLENGE (WALL MOUNT) (3) | | | | 71-02-3222 |

NOTES

- (1) ASSURANCE LEVEL from OMB 04-04 & NIST 800-116 (1)
 - Level 1 = Little or Some confidence in the asserted identity
 - Level 2 = Some Plus confidence in the asserted identity
 - Level 3 = High Confidence in the asserted identity
 - Level 4 = Very High Confidence in the asserted identity
- (2) Pin to System is not a recognized Use Case by OMB, FISMA, NIST or FICAM
- (3) BIO match requires Contact Interface to enter PIN for 3-Factor Authentication

DEFINITIONS

- PIN: Indicates PIN is Sent to the Credential in Contact Mode per FIPS-201 and NIST 800-116 Guidance
- Pin: Indicates Pin is sent to System Controller in Contactless Mode (Not Recognized by Federal Guidance). It should be noted that the User's PIN to credential is personal information and must not be stored in any database including a PACS. This means that a Pin must be different than the User's PIN for the credential which introduces multiple pins for the User to remember.
- CAK: Card authentication Key Challenge - Does not Require Pin Entry and can be Contractless or Contact
- PAK: Personal Authentication Key Challenge - Requires PIN Entry in Contact Mode Only