OMNICheck® is a mobile validation software application that verifies PIV, PIV-I, TWIC, FRAC, CAC, CIV, Prox, and DESFire credentials over the reader’s contact or contactless interface. OMNICheck is designed to be hands-free and works with all types of FIPS 201 cards. The card’s authenticity is verified by issuing a cryptographic challenge to the card. The CHUID signature and biometric signatures are verified, and the revocation status of the X.509 Certificate for PIV (or Card) Authentication and the CHUID signing certificates are checked using a flexible combination of Microsoft’s Cryptographic API, OCSP, or SCVP. For TWICs, OMNICheck can be configured to verify that the cardholder’s FASC-N is not on the current TWIC CCL.

When configured in one of the four TWIC authentication modes, it functions as a TSA ICE-listed mobile TWIC reader. When operating in “Non-TWIC” mode, OMNICheck determines the card type and applies appropriate validation rules for that card type’s data model and the interface mode (contact or contactless).

To ensure that the credential is issued to the person presenting it, a fingerprint image is acquired and the resulting template is matched with the template encoded on the credential.

OMNICheck Plus adds network-based functionality and PACS integration, including:
- Database synchronization (photos, names, PACS card numbers, access rights, TWIC privacy keys)
- Audit trail exporting to a database server (in real-time or batch mode)
- Downloading server-based configuration policies

OMNICheck Plus Edition is designed to operate offline after downloading cached cardholder data from the PACS. The OMNICheck Data Import module extracts cards, access rights, user-defined cardholder information from the PACS so that it is available to OMNICheck Plus when a card is presented. Allows operator to verify that a card is registered in the PACS and has appropriate access rights. Ideal for use with proximity, DESFire and FIPS 201 cards.

OMNICheck Plus with PACS Registration adds the following abilities:
- Able to switch from authentication/verification mode to registration mode instantly
- Adds pivCLASS Registration Engine functionality to OMNICheck, authenticating and validating FIPS 201 credentials, harvesting the data, and provisioning a credential into the PACS.
- Works with over 30 Physical Access Control systems.
**OMNICHECK VALIDATION PROCESS**

**CONTACTLESS**
The reader switches to the contactless state whenever it is idle and a new card is presented to the outside of the unit as shown in the graphic to the left.

**CONTACT**
The reader switches to the contact state under the following two conditions:
- The operator explicitly clicks this image.
- The operator inserts a smart card into the contact reader.

**BIOMETRIC SCAN**

**TWIC Mode**
- The reader is in TWIC Authentication Mode 3 or 4 and is prompting the cardholder to place his finger on the sensor.
- Non-TWIC Mode:
  - The reader is in Non-TWIC Authentication Mode and is prompting the cardholder to place his finger on the sensor.

**NOT AUTHENTICATED**
This is the result of one of the following conditions:
- Card read error
- Expired smart card
- Invalid CHUID signature
- Invalid (possible forged or cloned) card
- Invalid PIN
- Biometric mismatch
- Failed PKI check(s)
- FASC-N is on the TWIC CCL
- Operator cancels the verification

**AUTHENTICATED**
The card was determined to be valid using the methods supported for the given smart card. The following is known:
- CHUID is valid
- PIN Verification (Only for cards which are PIN protected, and the card is inserted in the contact interface)
- Smart card is not expired
- Smart card is not forged or cloned
- Cardholder is linked to the smart card
- Smart card has not been revoked

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**SPECSIFICATIONS**

| Models                          | OMNICheck Basic  
|---------------------------------| OMNICheck Plus  
|                                 | OMNICheck Plus with PACS Registration 
|                                 | OMNICheck Data Import  
| Random Access Memory            | Minimum of 32 MB RAM. Recommended 128 MB RAM or greater  
| Persistent Memory               | Minimum of 256 MB Internal CF  
| Monitor                         | Color digital transflective touch screen with stylus  
| Supported Dimensions            | 240 horizontal x 320 vertical (portrait)  
|                                 | 320 horizontal x 240 vertical (landscape) 
|                                 | 640 horizontal x 480 vertical (landscape)  
| Fingerprint Sensor              | Must be FIPS 201 Approved Product List (APL) certified  
| Biometric Matching Algorithm    | Must be FIPS 201 Approved Product List (APL) certified  
| Smart Card Interface            | Contact interface - Must be FIPS 201 Approved Product List (APL) certified.  
|                                 | Contactless interface - Must be FIPS 201 Approved Product List (APL) certified.  
| Wireless Protocol               | WiFi 802.11b/g  
| Supported Mobile Devices        | DAP CE3240BWE, Datastrip DSV-2+ Turbo  
|                                 | Datastrip DSV-3, MorphoTrak MorphoCheck  
| Supported OS*                   | Windows CE 5.0, Windows Mobile 6  
| Biometric Matching Algorithm    | Must be FIPS 201 Approved Product List (APL) certified  

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