Defense Travel System
Implementing DoD PKI User Credentials on Government-Issued Mobile Devices

Overview
This document describes how to use the DoD Purebred service to enable DoD Public Key Infrastructure (PKI) user credentials on Government-issued devices for accessing the Defense Travel System (DTS) test or production web applications.

Purebred is a DISA managed registration service and mobile application used to deploy and configure DoD PKI user certificates (soft certificates) to compatible mobile devices. Similar to using a Common Access Card (CAC), mobile devices enrolled using the Purebred registration process can be used to perform security functions on DoD information systems such as authentication, authorization, and generation of digital signatures.

Instructions on Device Enrollment
Purebred can be used to install test-based PKI user certificates, or official PKI user certificates associated with a valid CAC.

Note: All requests for issuing test user PKI certificates with Purebred must be directed to the DISA PKE team.

1. Contact your IT helpdesk to request Purebred RA support for device enrollment. Note – if the organization does not have a Purebred RA, or there are limited Purebred capabilities provided by the organization, the user will need to reach out to the DISA PKE team directly for support (see POC section).

2. The Purebred RA will direct the user to install the Purebred mobile application from a specified store or repository.

3. After installation of the Purebred Registration application is complete, the RA will direct the user to open the Purebred Registration application for device enrollment. These steps must be completed in coordination with the Purebred RA as they involve entering OTPs and other RA supplied information.

4. The Purebred RA will provide a 10-digit number for to enter into the Agent EDIPI field, after inputting the number press the Continue button.

5. The application will initiate the Install Profile Wizard.

6. Proceed through the Install Profile Wizard by pressing Install, entering the device password, pressing Install twice more, and pressing Done.

7. Return to the Purebred registration application and confirm that it has progressed to the Pre-Enrollment view.

8. The Purebred RA will provide an 8-digit Pre-enrollment one-time password to enter into the OTP Value field and direct to press the Continue button.

9. The Purebred registration application will proceed to the Enrollment view.
10. The Purebred RA will direct to read the Serial Number and the first few digits of the hash displayed in the application.

11. The Purebred Agent will provide an eight-digit enrollment one-time password to enter into the OTP value field, and direct the user to press the Continue button.

12. The Purebred RA will confirm the enrollment was successful and direct the user to press the User Key Management button.

The above steps (1-12) are adapted from the DISA Purebred iOS User Guide, and include obtaining the Purebred registration mobile application and obtaining one-time Passwords (OTPs) from the Purebred RA for device verification.

**Associating a DoD Managed Mobile Device with CAC Credentials**

The following section provides instructions for associating a Purebred registered mobile device with CAC credentials. These steps can only be implemented after the user has successfully completed enrollment.

In addition, these steps must be performed on DoD managed mobile devices since the device will be associated with CAC credentials. These steps are not applicable nor required for “test” DoD PKI user certificates obtained using Purebred.

Note: The following steps require access to a Personal Computer (PC)/workstation with a NIPRNet connection and CAC reader. The steps will not work from a standard Internet connection.

1. Navigate to the Purebred website in the web browser and authenticate with a CAC: https://purebred.csd.disa.mil/pb
2. Press the My Devices button in the upper left hand corner of the page
3. Locate the device on the My Devices page and compare its serial number with that displayed on the mobile device in the Purebred registration application to ensure they match.
4. Press the Generate OTP button in the actions column, next to the device
5. Press OK to acknowledge release of cryptographic keys to the device
6. The Purebred server will display an eight-digit personalization one-time password
7. Enter the one-time password into the OTP Value field of the Purebred registration application and press Download Configuration. *Note: the OTP must be submitted within three minutes of generation*
8. The Purebred registration application will initiate the Install Profile Wizard again. Proceed through the wizard by pressing Install, entering your device password, pressing Install twice more, and pressing Done
9. After completing the Install Profile Wizard, there will be a new ID certificate, a new Digital Signature certificate, and the CAC’s current email encryption certificate installed on the device - there may also be additional configuration profiles assigned by the Purebred Agent

Purebred enrollment instructions for Android and other mobile device platforms are available from DISA at https://iase.disa.mil/pki-pke/Pages/purebred.aspx. Contact information for the DoD PKE team is available at https://iase.disa.mil/pki-pke/Pages/contact.aspx.