

Goddard's 4-Cert Migrations: A New and Improved PIV Smartcard Badge

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Charlene Butler Project Manager

http://itcd.gsfc.nasa.gov/content/it-matters-talk-back-speaker-series-0



What's Happening & Why?

- Updating employee's Personal Identity Verification (PIV) Smartcard badge from a single certificate to a four certificate smartcard badge.
- The Federal Information Processing Standard (FIPS 201) revision 2 became effective on September 5, 2014, and it requires the Government to encode the following certificates onto your smartcard badge:
 - 1. PIV authentication
 - 2. Encryption
 - 3. Signing
 - 4. Card authentication



4-Cert Smartcard Benefits

Using your new 4-Cert Smartcard and PIN you will have access to the following capabilities:

Enhanced Security

- Physical Authentication (Facilities, buildings, labs, secure rooms, etc.)
- Card Authentication (Operating system, VPN, applications, etc.)
- **Email Encryption Capability**
 - Encryption for all employees with a 4-Cert
 - No longer require a NAMS PKI request for encryption

Other Enhanced Features

- **Electronic Signature Capability**
- Capability to work with existing and future CAK physical card readers





GSFC Overall 4-Cert Stats

IdMAX Cogr	nos Report as of March				
Location <a>_	PIV 7 (4-Cert) User	PIV 7 (Single Cert) User	PIV 5.2 User	Total 🔽	
GISS	4	132	7	143	
GSFC	583	9116	1075	10,774	
IVV	19	210	12	241	
WFF	127	1107	98	1,332	
WSC	10	312	43	365	
Total	743	10,877	1,235	12,855	



How do I identify My Smartcard Badge Type?

To identify your PIV badge type, look for the **number** series on the back of your badge, located in the upper right hand corner <u>or</u> under the barcode:

- A Cosmo PIV V7 badge starts with: 4820....
 (Employee <u>CAN</u> update existing badge)
- A Cosmo PIV V5.2 badge starts with: 2050....
 (Employee <u>CANNOT</u> update existing badge AND must get a new badge)





Two 4-Cert Migration Processes

There are **two** processes that will transition an employee to a 4-Cert Smartcard badge:

	NAMS Upload Migration Process	Badge Renewal Migration Process
Process Manager(s)	Code 700 (POC- Charlene Butler)	Center/Site Badging Offices
Target Users	PIV 7 (Single Cert) Cardholders (No. Series 4820)	PIV 5.2 Cardholders (No. Series 2050)



NAMS Upload Migration Process

Steps for PIV 7 (Single Cert) Smartcard Badge Holders (No. Series beginning w/4820...):

- Employee will be notified by email 1-2 weeks prior to their migration date.
 - Employee needs to review 4-Cert checklist and user guide
- 2. A reminder will be sent 1-2 days prior to their migration date.
- 3. The date of the employee's migration, their UUPIC will be uploaded into the NAMS 4-Cert Accelerator Tool to initiate the 4-Cert update process.
- 4. Employee will receive an email from NAMS informing them that their badge is ready to updated to a 4-Cert card.
- 5. Employee will follow the user guide to update their Smartcard.
- 6. Employee needs to test their new 4-Cert Smartcard.



Badge Renewal Migration Process

Steps for PIV 5.2 Smartcard Badge Holders (No. Series beginning w/2050...):

- 1. Employee is notified by email that their Smartcard badge is expiring and needs to be renewed.
- 2. Employee schedules an appointment with the badging office to initiate the process to get a new badge.
- 3. Employee needs to review the 4-Cert checklist and user guide to verify <u>all</u> the 4-Cert prerequisites prior to receiving their new 4-Cert Smartcard badge.
- 4. Employee picks up their new 4-Cert Smartcard from the badging office along with the new badge hand-out.
- 5. Employee needs to test their new 4-Cert Smartcard.



4-Cert Migrations for Remote Employees

- Employees must have their 4-Cert migration completed at one of the NASA badging offices.
- Employees need to coordinate migration date with the Goddard 4-Cert project manager.
- Employees should schedule an appointment with the badging office.
 - Best times for GSFC Greenbelt campus is after 1 p.m., Monday-Friday
 - Other GSFC Locations include GISS and WFF



Four Cert Known Impacts

- VPN Migration Issues
 - To minimized issues with your migration & work stoppage, you must be hardwired to the NASA network
- Encryption on blackberries and iPhones (iOS)
 - Mobile solution will be available around Spring 2016
 - Temporary exclusion for employees with this requirement
- Physical card readers (CAK cert)
 - Security will have to upgrade card readers before the CAK cert can be used on the smartcard badge; Code 700 will coordinate with Code 240 to address this impact
 - The new 4-cert cards will work with the existing card readers
- Entrust SDM 8.1 Build 5 for Mac Computer
 - Entrust SDM 8.1 Build 5 is recommended; SMD 8.1 4 Cert Edition is acceptable
 - Minimizes encryption certificate configuration issues
 - Available for Non-ACES community to download

Goddard's 4-Cert Migration Schedule

	Dates*	Milestone Activities	Status		
	February-May 2015	Agency 4-Certs on a Card Pilot	Completed		
	August 27-September 11, 2015	Goddard 4-Cert Pilot Migration	Completed		
	August 27-October 9, 2015	Goddard 4-Cert Pilot Testing	Completed		
	December 2015-March 2016	Goddard's Early Adopters Migration	Underway		
	Spring 2016	Mobile Solution for 4-Certs on a Card	Upcoming		
	March-September 2016	Goddard's General 4-Cert Smartcard Migrations			
	Wave 1	ACES Windows Migration & Testing	March 2016		
	Wave 2	ACES Mac Migration & Testing	May 2016		
	Wave 3	ACES Linux Migration & Testing	July 2016		
	Wave 4	Non-ACES Windows Migration & Testing	June 2016		
	Wave 5	Non-ACES Mac Migration & Testing	July 2016		
	Wave 6	Non-ACES Linux Migration & Testing	August 2016		
	October-November 2016	Users w/Mobile Devices w/Encryption Migration & Testing	October 2016		





GSFC 4-Cert ACES Migrations

- ACES migrations are scheduled to begin during the month of March 2016.
 - The remaining Code 700 ACES Windows employees will be the first group scheduled
- Employees will be informed of their migration date by email.
 - If there are issues with the scheduled migration date, the employee should email <u>GSFC-DL-4-Certs@mail.nasa.gov</u> to reschedule.
- VIPs with ACES machines will be given the option to schedule an appointment with a 4-Cert Customer Care Team Member to assist them with updating their smartcard.





GSFC 4-Cert Non-ACES Migrations

- The Goddard 4-Cert Project Manager will work the Directorate IT Managers to schedule the migrations for their non-ACES employees.
- Non-ACES migrations are scheduled to begin during the month of June 2016.
- The schedule for Non-ACES 4-cert migrations will have to be emailed to Charlene.T.Butler@nasa.gov no later than Thursday, May 5, 2016.
- Migrations for VIPs with non-ACES machines will be coordinated with a local non-ACES System Admin within their directorate.



Preparing for Your 4-Cert Migration

- Things you need to know <u>BEFORE</u> your 4-cert migration:
 - Identify which Smartcard badge you have:
 - PIV 5.2
 - PIV 7 (4-Cert)
 - PIV 7 (Single Cert)
 - Preview the checklist and user guide for your operating system
 - Verify that you have the required middleware/software client for your operating system







Preparing for Your 4-Cert Migration

GSFC I	CAM
Information Dissemi	ination
Home Blog GSFC 4-0	Pert Resource Portal FAQ ICAM Resources NAMS Contact Us Q
	GSFC 4-Cert Resource Portal Table of Contents [show]
	Checklists and User Guides Please click on one of the user guides below for instructions to update your PIV Smartcard to a Four Certificate Smartcard.
	Windows 4-Cert PIV Checklist Mac 4-Cert PIV Checklist Linux 4-Cert PIV Checklist (coming soon)
	Windows 4-Cert PIV User Guide Mac 4-Cert PIV User Guide Linux 4-Cert PIV User Guide



https://icamblog.gsfc.nasa.gov/4cert





GSFC Non-ACES 4-Cert Resource Portal





Technology and

After Your Migration

Using Your New 4-Cert Smartcard

 The 4-Cert user guides provides information about using your new 4-Cert Smartcard. Refer to Section 6: Using the Four Cert Smartcard: What to Expect for more details.

Testing Your New 4-Cert Smartcard

The Goddard 4-Cert Resource portal has information about testing your

new 4-Cert Smartcard.

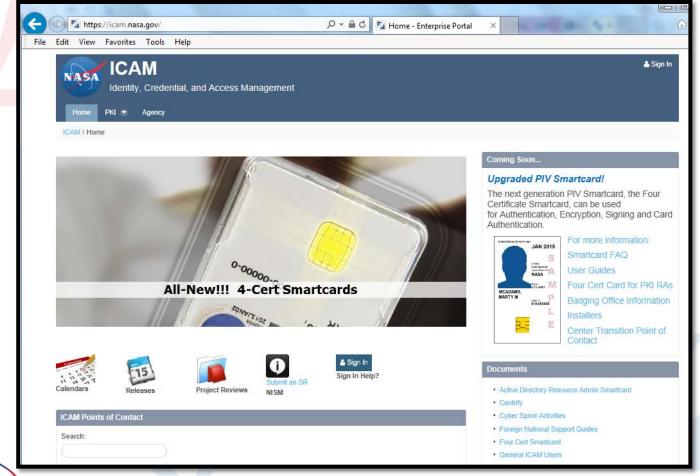








Agency 4-Cert Resource Portal





Technology and Communications Directorat



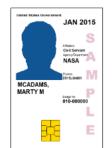
Important 4-Cert Resources

- GSFC Transition Manager
 - Charlene.T.Butler@nasa.gov
 - 301-286-5869
- GSFC 4-Cert Project Team Distribution List
 - GSFC-DL-4-Certs@mail.nasa.gov
- GSFC 4-Cert Portal
 - https://icamblog.gsfc.nasa.gov/4cert
 - Resources, Communication Notices, Important Migration Info, Contacts, etc.
- Agency ICAM
 - https://icam.nasa.gov

Coming Soon...

Upgraded PIV Smartcard!

The next generation PIV Smartcard, the Four Certificate Smartcard, can be used for Authentication, Encryption, Signing and Card Authentication.



For more information:

Smartcard FAQ

User Guides

Four Cert Card for PKI RAs

Badging Office Information

Installers

Center Transition Point of Contact







THANKS FOR YOUR ATTENTION!







QUESTIONS?





Please visit the 4-Cert Kiosk in the lobby for additional assistance.

