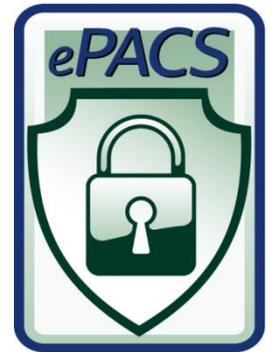




United States
Department of
Agriculture



Enterprise Physical Access Control System (ePACS) Overview Briefing

August 2013

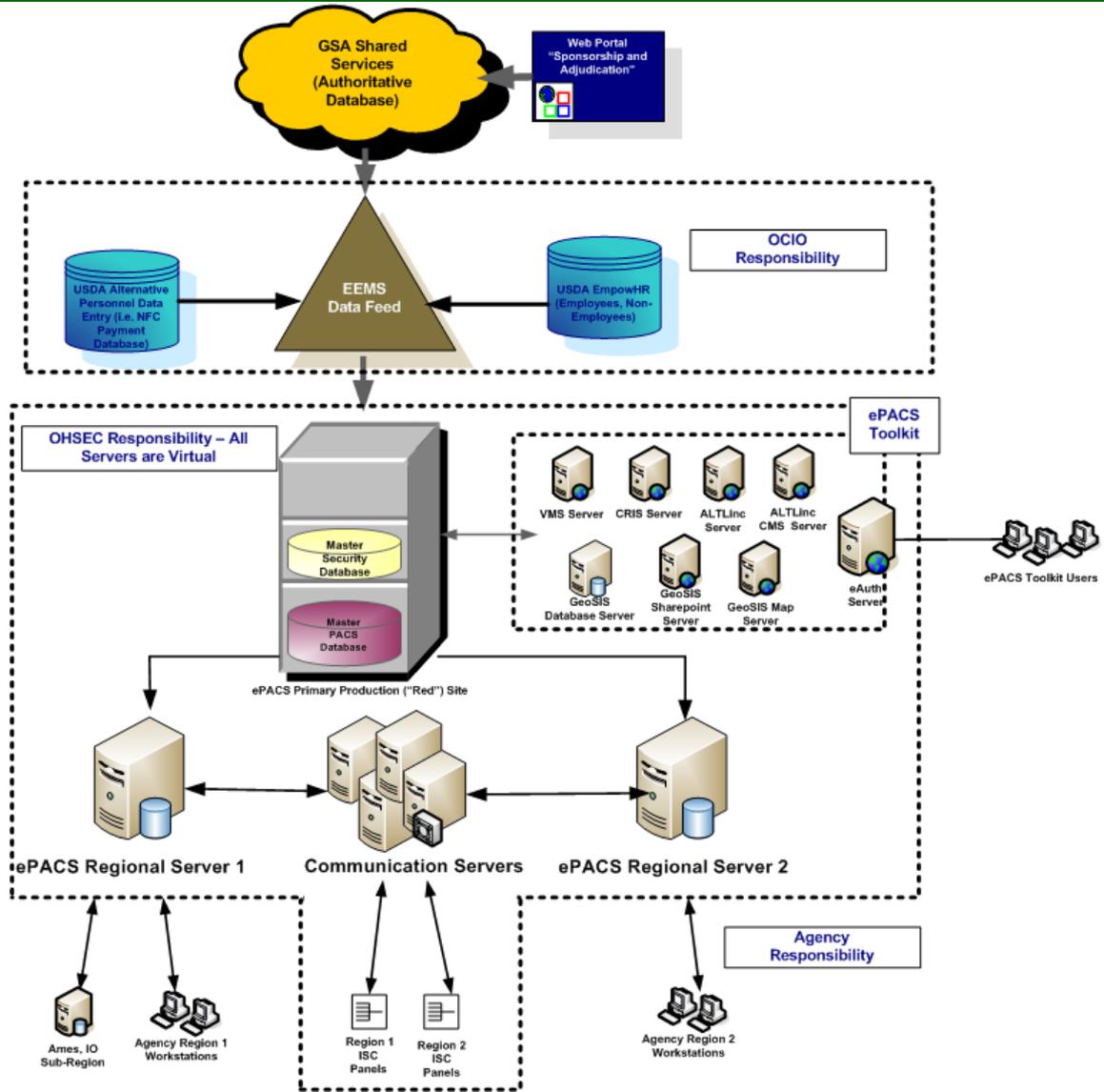


- ❑ ePACS is Enterprise Physical Access Control System, an enterprise system houses the head end components of the PACS (Physical Access Control System) at a single centralized location. In the case of ePACS all of the servers and the database are housed at single Class A data center.
- ❑ One of advantages of the an enterprise system is the ability to have multiple locations without the expense of standing up servers at every location thus reducing costs, maintenance and support.



- ❑ HSPD-12 requires that all departments and agencies shall require the use of the HSPD-12 credential to gain access to federally controlled facilities

- ❑ The overall intent of ePACS is to provide the functionality to coordinate USDA PACS nationwide which includes providing:
 - Global Real Time Revocation
 - Electronic Authentication
 - An authoritative PACS Database
 - Auditable Transactions
 - Future Scalability and Cost Savings





- The Departmental Manual (DM) 4620-002 requires that all USDA agencies comply with HSPD-12 PACS requirements

4. PHYSICAL ACCESS CONTROL SYSTEMS (PACS)

To comply with one of the four tenants of HSPD-12 (rapidly authenticate electronically), USDA has developed and implemented a FIPS 201-1 compliant enterprise PACS infrastructure in order to rapidly provision and deprovision LincPasses (and all USDA issued electronic badges) based on the PIV process. All authentication mechanism standards described in FIPS 201-1 are to be met, by October 2011, as mandated by the Office of Management and Budget (OMB), for all existing legacy and newly installed PACS. All USDA PACS must interface with the USDA enterprise Physical Access Control System (ePACS) infrastructure.

All USDA agencies need to establish implementation plans for this integration for the following scenarios:

- Continued Use of Existing Compliant PACS
- Converting an Existing PACS to meet Compliancy
- Purchase and Install of a new Compliant PACS

Procedures for integrating PACS into ePACS are as follows:

- Contact the ePACS Program Management Office (PMO) before the integration of an existing PACS or new PACS installation for pre-planning and implementation guidance.
- Before procuring PACS hardware and software for a new PACS installation the ePACS Cost Benefit Analysis spreadsheet must be filled out to ensure USDA agencies select the most cost effective manner to meet HSPD-12 and ePACS compliance while meeting their operational security needs.
- Notify the ePACS PMO of any PACS-related hardware/software that is involved in the integration with ePACS or planned to be added to ensure budget numbers are captured for software licensing for the following fiscal year. USDA agencies must submit change requests through their agency Change Control Board (CCB) member. A telephone call to the ePACS Help Desk at 888-212-9309 can provide Agency POC information and answer any other questions that may arise.
- Review and comply with the GSA Approved Products List when ordering PACS hardware/software or services (implementers).
- PACS that are chosen must meet not only HSPD-12 compliance and interoperability requirements but also ePACS requirements.
- Agency's must submit an IT Acquisition Approval Request (AAR) to OSS for approval for all PACS components before purchase and install.



- The following cost savings and avoidance factors are realized for USDA facilities that migrate into ePACS:
 - No server hardware costs
 - No annual software licensing costs
 - No Disaster Recovery infrastructure costs
 - No cost for Security Assessment and Accreditation (SA&A)
 - Limited cost for system management (FISMA Reporting, Patching, Server System Administration, Updating Software, etc.)

- ❑ A Cost Benefit Analysis (CBA) must be conducted before the purchase or migration of a facility/agency PACS per USDA policy

Baseline Cost Savings/Cost Avoidance for integration with the Enterprise Physical Access Control System (ePACS)					
New System					
Description	Initial Purchase	Year 1 Savings	Year 2 Savings	Year 3 Savings	Notes
PACS Server	\$ 10,000.00	\$ -	\$ -	\$ -	
Initial Software Purchase	\$ 22,000.00	\$ -	\$ -	\$ -	
Ongoing Software Licensing		\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	Site Dependent (how large a system)
Disaster Recovery Server	\$ 10,000.00	\$ -	\$ -	\$ -	
Certification & Accreditation	\$ 35,000.00	\$ -		\$ 35,000.00	
FTE Resources	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	Includes FISMA Reporting, POA&M Mitigation, Patching, Updating Software, Server System Administration
Annual Total Savings	\$ 97,000.00	\$ 37,000.00	\$ 37,000.00	\$ 72,000.00	
Total Four Year Cost Avoidance for New PACS				\$ 243,000.00	
Existing Level System					
Description	Initial Purchase	Year 1 Savings	Year 2 Savings	Year 3 Savings	Notes
PACS Server	\$ -	\$ -	\$ -	\$ -	Depends on need for Hardware Refresh
Initial Software Purchase	\$ -	\$ -	\$ -	\$ -	
Ongoing Software Licensing	\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	\$ 17,000.00	Site Dependent (how large a system)
Disaster Recovery Server	\$ 10,000.00	\$ -	\$ -	\$ -	
Certification & Accreditation	\$ 35,000.00	\$ -		\$ 35,000.00	
FTE	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	Includes FISMA Reporting, POA&M Mitigation, Patching, Updating Software, Server System Administration
Annual Total Savings	\$ 82,000.00	\$ 37,000.00	\$ 37,000.00	\$ 72,000.00	
Total Four Year Cost Savings for Existing PACS				\$ 228,000.00	

Please note: The Ongoing Software Licensing is Site Dependent (how large a system is)

Facilities/End Users Responsibilities

One time installation

Fund necessary upgrades to legacy PACS system software & hardware and Lenel PES migration costs (if applicable) to enable migration to ePACS

Contract with Lenel VAR for Migration Support

- Create site specific programming elements in new ePACS site segment
- Training for local SA's
- Perform System Upgrades

Maintain a Maintenance Agreement for local Lenel service support

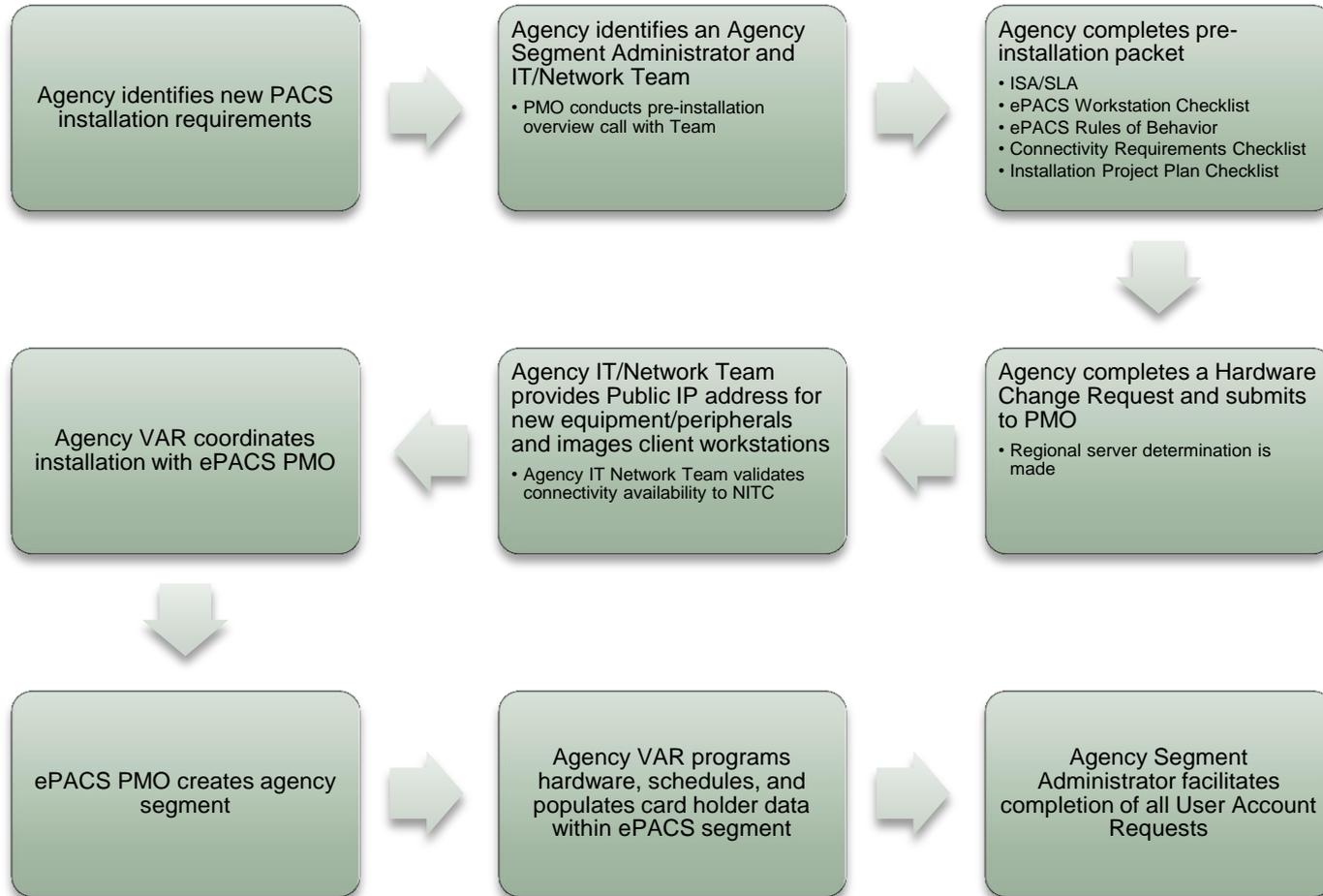
- Local PACS Hardware Only

Manage local access rights to facilities

Ongoing maintenance

New Installation Process – New Agency ePACS Segment

□ All new PACS installations will be integrated directly into ePACS





- ❑ Utilizing your LincPass will also benefit the USDA as a whole
- ❑ All Federal employees and Affiliates must obtain a LincPass
- ❑ Employee LincPass' must be displayed at all times in USDA controlled facilities
- ❑ A LincPass should be utilized at all times as opposed to legacy badges
- ❑ Increased physical (facility) access security
 - Allows for authorized access to facilities at any time, within USDA and across the Federal Government workspace
 - For facilities equipped with Electronic Physical Access Control System (ePACS), it allows for automatic facility lock-down and automatic deprovisioning of access for terminated employees





- ❑ ePACS SharePoint Change Request (CR) Workflow
- ❑ Automated mechanism for submitting CR forms
 - ❑ Form fillable PDF CR forms
- ❑ ASA receives automatic email notifications for CR approval and completion
- ❑ Allows the ASA to track the status of a CR within the workflow
- ❑ Agency based access for the ASA
 - ❑ Example: APHIS ASA will only see APHIS CRs
- ❑ To access use the following URL: <https://portal.epacs.usda.gov/epacs>
 - ❑ Login using your eAUTH Level 2 User ID and Password or Login with your USDA LincPass
 - ❑ First time login will require activation by ePACS PMO

❑ ePACS User Account Request (eUAR)

For Official ePACS Application Toolkit Use Only			
ePACS User Account Request (EUAR)			
INFORMATION TO BE PROVIDED BY EUAR ORIGINATOR			
1a. Users First Name:		2a. Phone:	
1b. Users Last Name:		2b. Email:	
3a. Date Requested:		3b. Implementation Date:	
4. LOCATION INFORMATION		5. REQUIRED DOCUMENTS/INFORMATION	
4a. Region: <input type="checkbox"/> Master <input type="checkbox"/> Region1 <input type="checkbox"/> Region2 <input type="checkbox"/> Region3		5a. Have you completed the USDA information security awareness training?: <input type="checkbox"/> Yes <input type="checkbox"/> No	
4b. Segment Name:		5b. Has individual received LincPass or appropriate BI? <input type="checkbox"/> Yes <input type="checkbox"/> No	
6. Agency:			
7. Action Required: <input type="checkbox"/> Assign Access <input type="checkbox"/> Revoke Access			
8. Role: <input type="checkbox"/> ASA <input type="checkbox"/> Facility Administrator <input type="checkbox"/> Badge Operator <input type="checkbox"/> Guard <input type="checkbox"/> System Programmer			
8a. Account Type: <input type="checkbox"/> Standard Workstation Access <input type="checkbox"/> VPN Workstation Access			
9. ACTIVATE/DEACTIVATE DATE FOR ACCOUNT			
9a. Activate Date (MM/DD/YY):		9b. Deactivate Date (MM/DD/YY):	
10. Reason for Account Change:			
ePACS PROGRAM MANAGER (PM) REVIEW AND APPROVAL			
11. Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Withdrawn			
12. Implementation Date:		13. Priority: <input type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency	
14. Comments:			
15a. Authorizing Signatures:		15b. Signature Date:	
INFORMATION TO BE PROVIDED BY CONFIGURATION SPECIALIST (CM)			
16. eUAR Number:		17. Date Received:	
18. Open Date:		19. Closed Date:	
20a. Authorizing Signatures:		20b. Signature Date:	
INFORMATION TO BE PROVIDED BY THE ePACS SYSTEM ADMINISTRATOR			
21a. System Administrator Name:		21b. Signature Date:	
22. User Name Created:		23. Temporary Password:	
24. Comments:			

Statement of Understanding:

I understand that my (END USER) access to ePACS client workstations is limited to Agency named above access, and does not include global system access rights. In addition I understand that all associated client workstations VPN connections, and any subsequent actions I take are monitored by the USDA, OHSEC and Agency named in the eUAR. I understand that I must acquire and use sensitive information only in accordance with my official duties and in accordance with these ePACS Applications Toolkit Rules of Behavior and the Federal Privacy ACT. I further acknowledge that I understand the requirements for an ePACS client workstation USERID and PASSWORD and/or VPN Workstation access, and will comply with the Rules of Behavior delineated herein.

Printed Name: _____

Agency: _____

Signature: _____

Date: _____

Change Request to grant or revoke access to the Lenel OnGuard system

Rules of Behavior will need to be signed by all users accepting responsibility for access into the system

Will need to be completed for all end users (i.e., guards, badge operators, etc.)

❑ ePACS Change Request (eCR)

For Official ePACS Use Only

ePACS Change Request (ECR)

INFORMATION TO BE PROVIDED BY ECR ORIGINATOR			
1a. Requestors First Name:		2a. Phone:	3a. Date Requested:
1b. Requestors Last Name:		2b. Email:	3b. Implementation Date:
4. Organization/Agency:	4a. Facility:	4b. Region: <input type="checkbox"/> Master <input type="checkbox"/> Region 1 <input type="checkbox"/> Region 2 <input type="checkbox"/> Region 3	
4c. Physical Address:		4d. Segment Name:	
5. Change Type:	<input type="checkbox"/> System Modification	<input type="checkbox"/> Data Fix	<input type="checkbox"/> Custom Report
6. Change Priority:	<input type="checkbox"/> Routine	<input type="checkbox"/> Urgent	<input type="checkbox"/> Emergency
7. Description of Proposed Change:			
ePACS PROGRAM MANAGER (PM) REVIEW AND APPROVAL			
8. Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> CCB Approval Required <input type="checkbox"/> Disapproved <input type="checkbox"/> Withdrawn			
9. Implementation Date:		10. Priority: <input type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency	
11. Comments:			
12a. Authorizing Signature:		12b. Signature Date:	
CHANGE CONTROL BOARD (CCB) REVIEW AND APPROVAL (If Required)			
13. Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> CCB Vote Required <input type="checkbox"/> Disapproved <input type="checkbox"/> Withdrawn			
14. Comments:			
15a. Authorizing Signature:		15b. Signature Date:	
INFORMATION TO BE PROVIDED BY CONFIGURATION SPECIALIST (CM)			
16. ECR Number:	17. Date Received:	18. Open Date:	19. Closed Date:
20a. Authorizing Signatures:		20b. Signature Date:	
INFORMATION TO BE PROVIDED BY THE ePACS SYSTEM ADMINISTRATOR			
21a. System Administrator Signature:		21b. Signature Date:	
22. System Security Impact: <input type="checkbox"/> No Impact Confidentiality <input type="checkbox"/> No Impact Integrity <input type="checkbox"/> No Impact Availability	23. Require a Full Download: <input type="checkbox"/> Yes <input type="checkbox"/> No	24. Require Testing in Lab: <input type="checkbox"/> Yes <input type="checkbox"/> No	
25. System Security Testing & Impact Statement:			
26. Level of Effort/Time Estimate:	27. Projected Start Date:	28. Projected End Date:	
29. Configurable Items (CIs) Affected:			
30. Completion Date:			

Change Request to create a new segment into the system

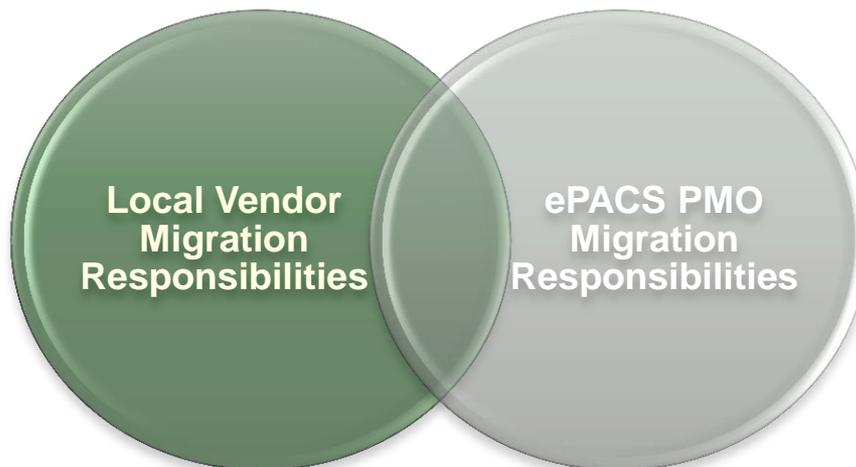
Needs to be completed prior to migration of facilities

❑ ePACS Hardware Change Request (eHCR)

For Official ePACS Use Only

ePACS Hardware Change Request (EHCR)						
INFORMATION TO BE PROVIDED BY EHCR ORIGINATOR						
1a. Requestor First Name:		2a. Phone:		3a. Date Requested:		
1b. Requestor Last Name:		2b. Email:		3b. Implementation Date:		
4. Organization/Agency:		4a. Facility:		4b. Region: <input type="checkbox"/> Master <input type="checkbox"/> Region1 <input type="checkbox"/> Region2 <input type="checkbox"/> Region3		
4c. Physical Address:		4d. Segment Name:				
5. Change Priority: <input type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency			6. PO Number:			
7. Description of Proposed Change:						
8. Client Workstation						
Computer Name	Private IP Address	Public IP Address	Subnet Mask	Gateway	Compliant	Lenel Licensed
9. ISC Panels						
Panel Type	Private IP Address	Public IP Address	Subnet Mask	Gateway	ISC Encrypted	
10. PIV-II Card Readers						
Card Reader Type	Card Reader Quantity	APL Approved		200 Bit (Y/N)		
11. Digital Video Recorders (DVR) / Network Video Recorders (NVR)						
Recorder Type	Computer Name	Private IP Address	Public IP Address	Subnet Mask	Gateway	Channels
12. Camera (Analog)						
Number of Cameras	Connected To Existing (Y/N)			Existing DVR Name		
13. Camera (Network)						
IP Address	Connected To Existing (Y/N)			Existing NVR Name		
ePACS PROGRAM MANAGER (PM) REVIEW AND APPROVAL						
14. Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Withdrawn						
15. Implementation Date:		16. Priority: <input type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Emergency				
17. Comments:						
18a. Authorizing Signatures:				18b. Signature Date:		
INFORMATION TO BE PROVIDED BY CONFIGURATION SPECIALIST (CM)						
19. EHCR Number:		20. Date Received:		21. Open Date:		22. Closed Date:
23a. Authorizing Signatures:				23b. Signature Date:		
INFORMATION TO BE PROVIDED BY THE ePACS SYSTEM ADMINISTRATOR						
24a. System Administrator Signature:				24b. Signature Date:		
25. System Security Impact:		26. Require a Full Download:		27. Require Testing in Lab:		
<input type="checkbox"/> No Impact Confidentiality <input type="checkbox"/> No Impact Integrity <input type="checkbox"/> No Impact Availability		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		
28. System Security Testing & Impact Statement:						
29. Level of Effort/Time Estimate:		30. Projected Start Date:		31. Projected End Date:		
32. Configurable Items (CIs) Affected:						
33. Completion Date:						

Change Request required for adding/modifying hardware (card readers, panels)



- Must be a certified technician of the migrating PACS system and under USDA ePACS non-disclosure
- Provide site coordination and local PM function
- Perform all necessary system hardware and software upgrades to meet ePACS requirements
- Participate in all ePACS migration planning meetings as needed
- Create local site programming in new ePACS segment.
- Facilitate all local testing and validation during migration
- Provide follow-on local support to site (Maintenance Contract)
- Provide local SA training support (factory or on-site)
- Coordinate local network communications testing

- Provide overall SA support to site SA
- Coordinate migration planning sessions and provide requirements to local PACS integrator
- Create new local segment in ePACS system
- Provide Service Level support to local PACS integrator and Site SA
- Provide Help Desk functions
- Coordinate migration tasks and timelines
- Facilitate network communications testing



- Addresses the need and methodology for the interconnection
- Requires authorization from the two Designated Approval Authorities



- Outlines the operational responsibilities for the two Designated Approval Authorities
- Requires an agreement between the two Designated Approval Authorities

