

# National Cybersecurity Center of Excellence

## Securing Picture Archiving and Communication System (PACS)

October 16, 2019

Safeguard Health Information: Building Assurance through HIPAA Security 2019



## > NCCoE Mission

**Accelerate adoption of secure technologies:** collaborate with innovators to provide real-world, standards-based cybersecurity capabilities that address business needs

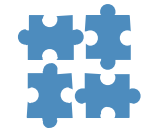


# > NCCoE Tenets



## Standards-based

Apply relevant industry standards to each security implementation; demonstrate example solutions for new standards



## Modular

Develop components that can be easily substituted with alternates that offer equivalent input-output specifications



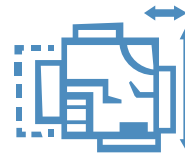
## Repeatable

Provide a detailed practice guide including a reference design, list of components, configuration files, relevant code, diagrams, tutorials, and instructions to enable system admins to recreate the example solution and achieve the same results



## Commercially available

Work with the technology community to identify commercially available products that can be brought together in example solutions to address challenges identified by industry



## Usable

Design blueprints that end users can easily and cost-effectively adopt and integrate into their businesses without disrupting day-to-day operations



## Open and transparent

Use open and transparent processes to complete work; seek and incorporate public comments on NCCoE publications

# > TYPICAL PROJECT EXECUTION

DESCRIBE > FORM TEAM > DESIGN > BUILD PLAN > BUILD > DOCUMENT > OUTREACH >



Conduct workshop to scope the project and publish the description



Form the team, build the COI, and complete the FRN, LOI, and CRADA



Design and engineer the architecture and usage scenarios taking into consideration resources



Develop the execution plan for building the demonstration based on the design



Compose, build the demonstration, and perform security functional tests



Develop the practice guide to publish as a public draft and final document



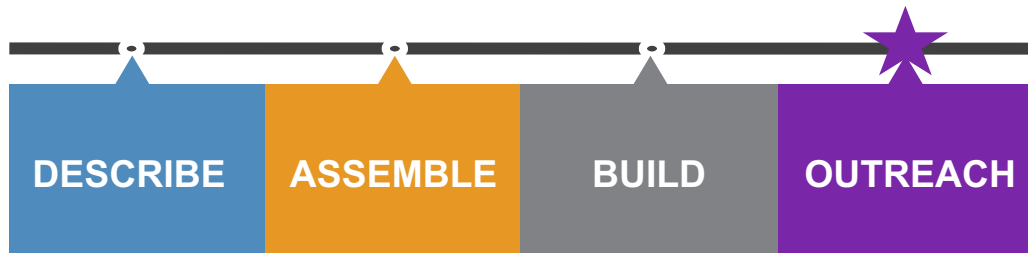
Present at public events and interact with COI

# Picture Archiving and Communications System (PACS)

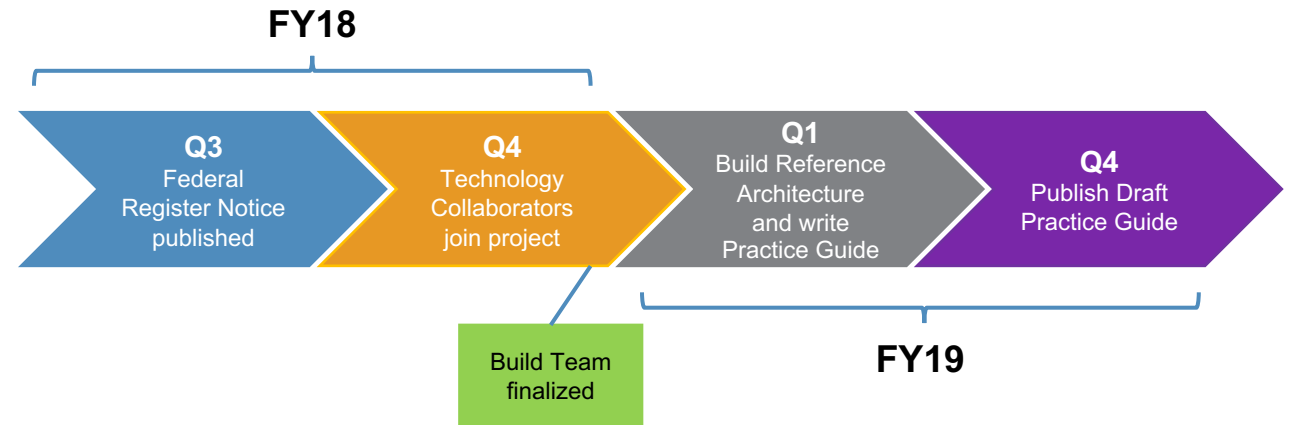
## Securing PACS – Cybersecurity for the Healthcare Sector

### Project Status

**Outreach Phase** – The draft practice guide published on September 16. The public comment period is now open. Please review and provide feedback on the guide and also share the guide with your colleagues.



### Project Timeline



### Learn more:

- Visit [Securing PACS Project Page](#)
  - Download Draft Practice Guide (SP 1800-24) and provide comments
- Email [HIT\\_nccoe@nist.gov](mailto:HIT_nccoe@nist.gov) to join the Community of Interest for this project

# > PACS Collaborators -

## Components & Security Capabilities

- PACS and VNA
  - Hyland
  - Philips Healthcare
- Asset & Risk Management
  - Clearwater
  - Tripwire
  - Virta Labs
- Enterprise Domain & Identity Management
  - DigiCert
  - Symantec
- Network Control & Security
  - Cisco
  - Forescout
  - Symantec
  - Tempered Networks
  - Zingbox
- Endpoint Protection & Security
  - Symantec
- Data Security
  - Hyland
  - Philips Healthcare
  - Other technical vendors
- Secure Remote Access
  - TDI technology + Symantec



# > Panelists

Hyland®

MITRE



VIRTA LABS™

# > PACS Final Architecture

