

National Cybersecurity Center of Excellence

Joshua M Franklin

Technical Guidelines & Development Committee
February 14, 2017

ABOUT THE NCCOE





VISION

ADVANCE CYBERSECURITY

A secure cyber infrastructure that inspires technological innovation and fosters economic growth

MISSION

ACCELERATE ADOPTION OF SECURE TECHNOLOGIES

Collaborate with innovators to provide real-world, standards-based cybersecurity capabilities that address business needs



GOAL 1

PROVIDE PRACTICAL CYBERSECURITY

Help people secure their data and digital infrastructure by equipping them with practical ways to implement standards-based cybersecurity solutions that are modular, repeatable and scalable

GOAL 2

INCREASE RATE OF ADOPTION

Enable companies to rapidly deploy commercially available cybersecurity technologies by reducing technological, educational and economic barriers to adoption

GOAL 3

ACCELERATE INNOVATION

Empower innovators to creatively address businesses' most pressing cybersecurity challenges in a state-of-the-art, collaborative environment



SPONSORS

Advise and facilitate the center's strategy



White House

NIST

National Institute of Standards and Technology



U.S. Department of Commerce



U.S. Congress



Montgomery County



State of Maryland



TEAM MEMBERS

Collaborate to build real-world cybersecurity capabilities for end users



NCCoE



Tech firms



Academia



Project managers



National Cybersecurity Excellence Partners (NCEP)

NIST

NIST ITL



Industry



Government



Project-specific collaborators



END USERS

Work with center on use cases to address cybersecurity challenges



Business sectors



Academia



Cybersecurity IT community



Individuals



Government



Systems integrators

- 

Standards-based

Apply relevant local, national and international standards to each security implementation and account for each sector's individual needs; demonstrate reference designs for new standards
- 

Modular

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

Repeatable

Enable anyone to recreate the NCCoE builds and achieve the same results by providing a complete practice guide including a reference design, bill of materials, configuration files, relevant code, diagrams, tutorials and instructions
- 

Commercially available

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

Usable

Design usable 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, and seek and incorporate public comments on NCCoE documentation, artifacts and results

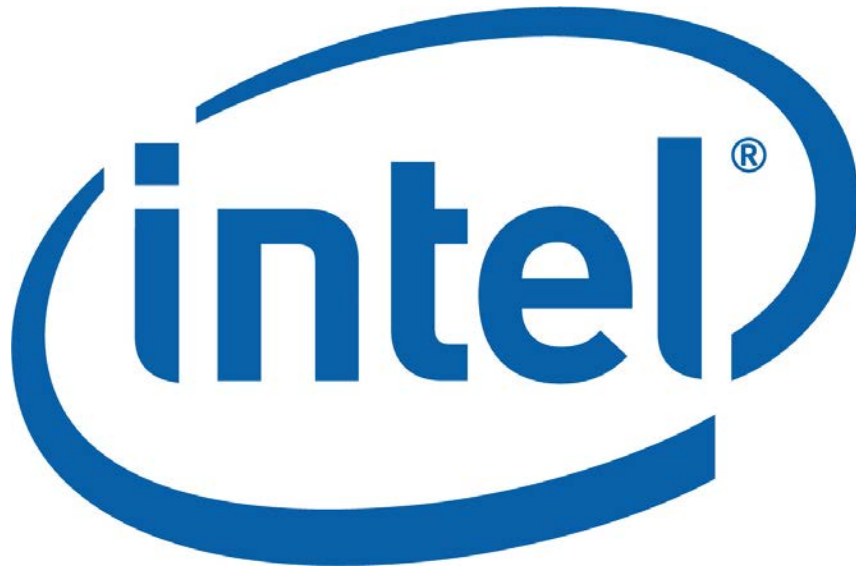


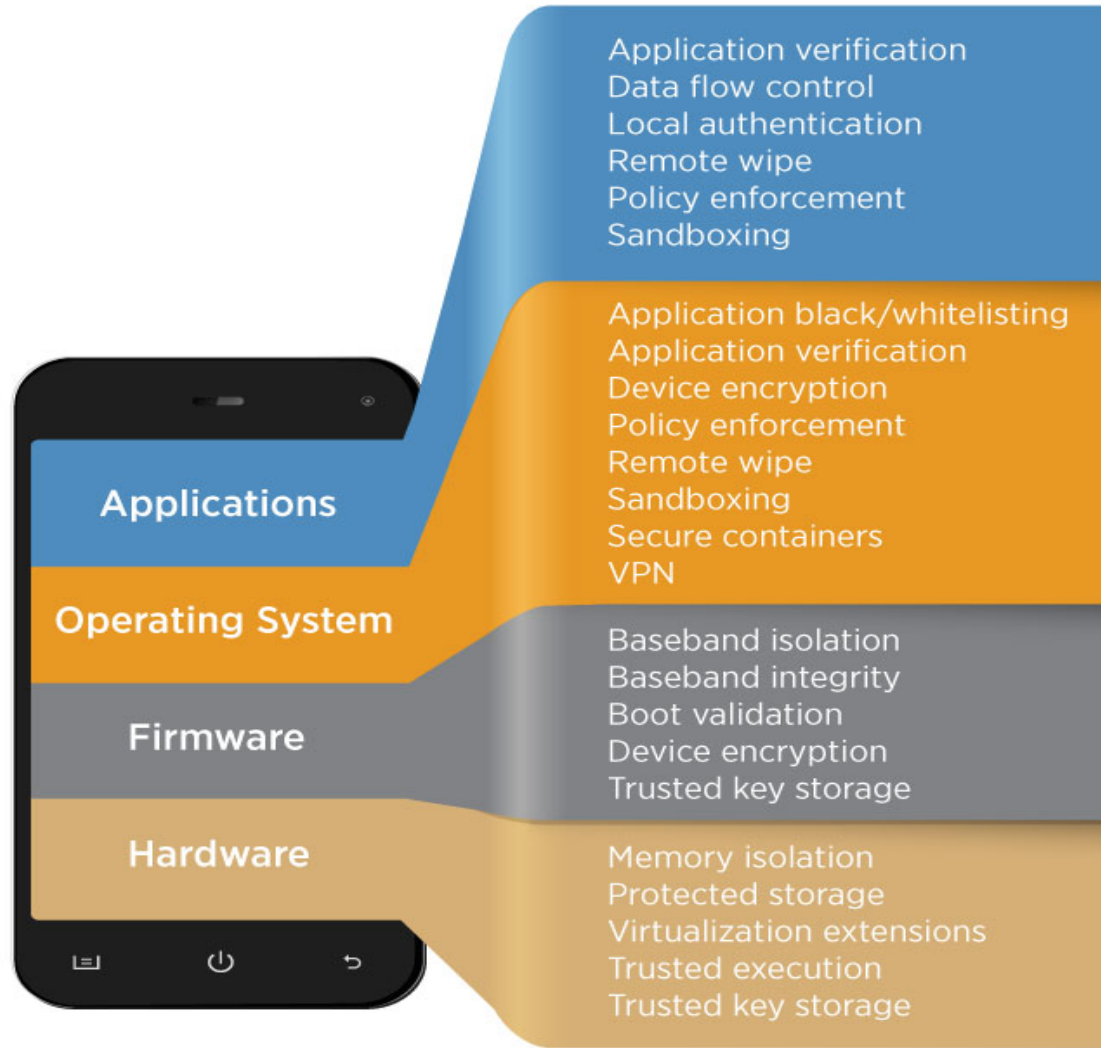
MOBILE SECURITY

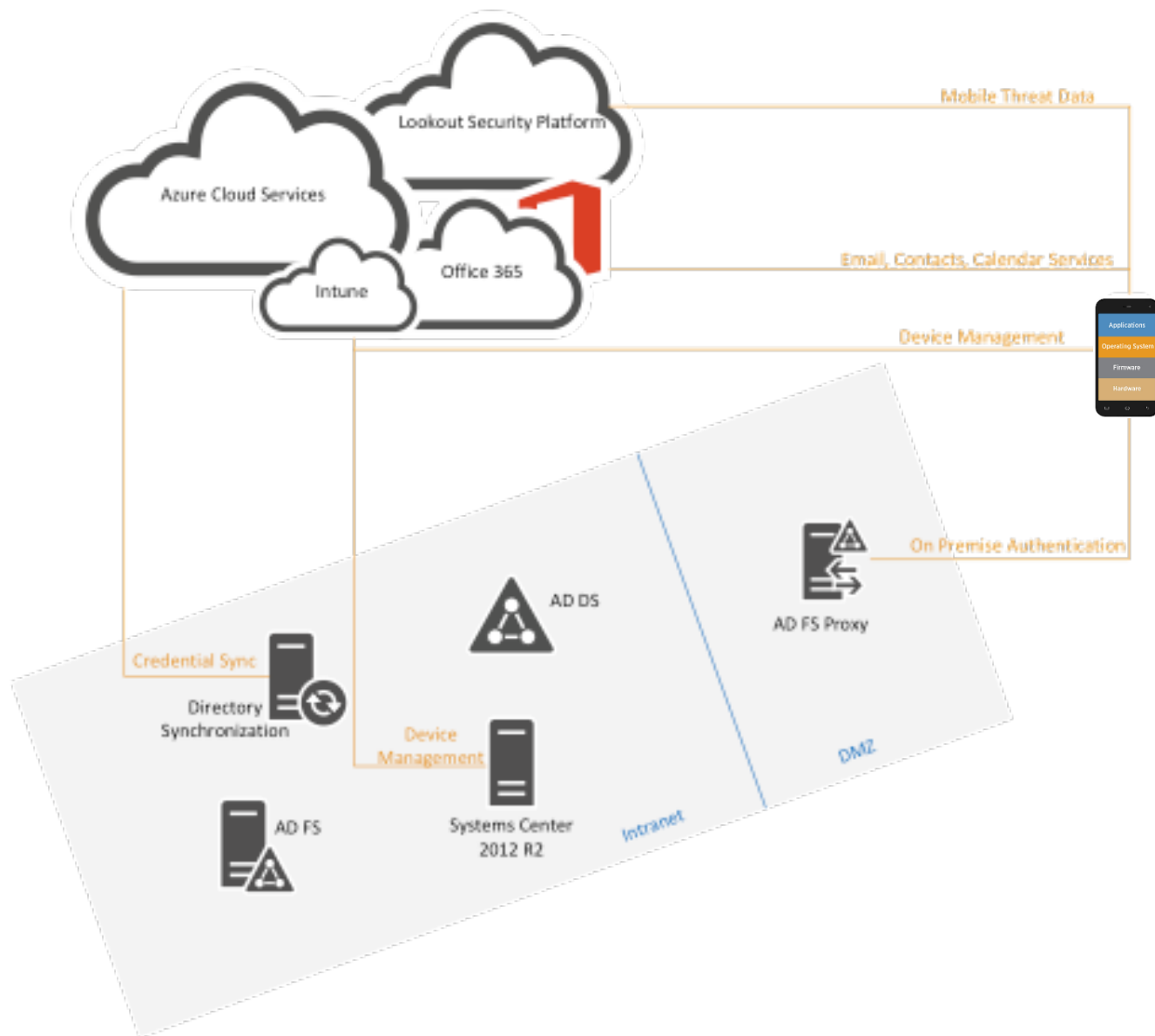


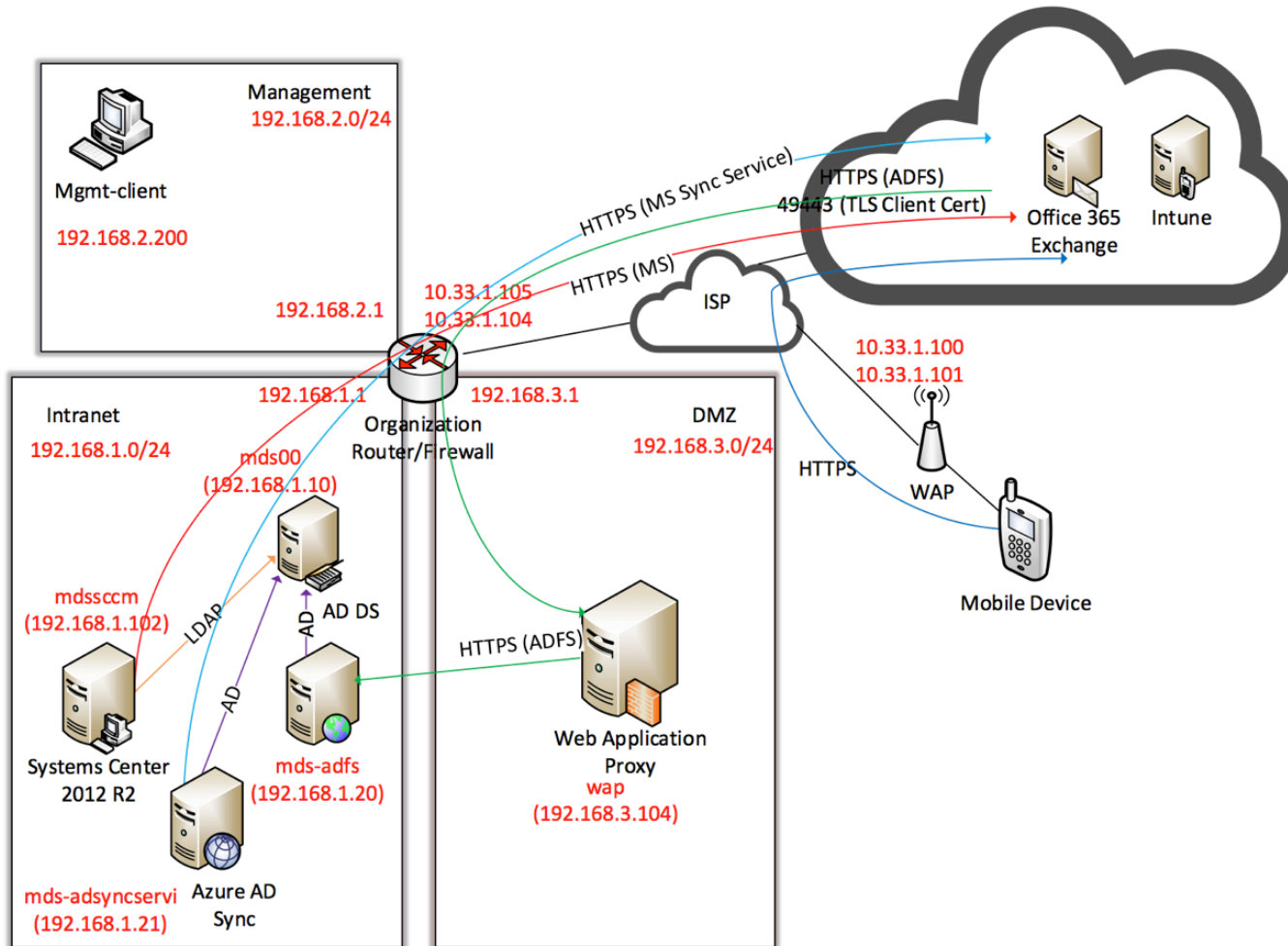
To demonstrate commercially available technologies that provide protection to both organization-issued and personally-owned mobile platforms, thereby:

- ▶ **Securely enable basic email, calendar and contacts**
- ▶ Enabling users to work inside and outside the corporate network with a securely configured mobile device
- ▶ Allowing for granular control over the enterprise network boundary
- ▶ Minimizing the impact on function





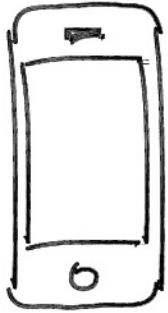




APPLICATION TO VOTING



- Architect and build an elections deployment
 - Document the process, show how it's done – step by step
 - Election officials across the nation could benefit
- Need to decide which systems to focus on
 - Epollbooks, vote capture & tabulation, voter registration
- Need the right players to participate
 - Would manufacturers sign *Cooperative Research and Development Agreements (CRADAS)*?
- Only worth it if election officials are able to use the output.



240-314-6800

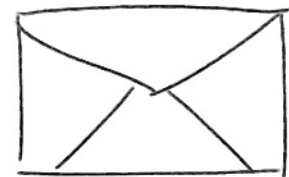


josh@nist.gov

Participate



<http://nccoe.nist.gov>



9600 Gudelsky Drive
Rockville, MD 20850