

# seL4 CoE Progress and Plans

**2nd Annual seL4 Summit  
Hyatt Regency Dulles  
Herndon, VA  
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# Presentation Outline

- Griffiss Institute
- seL4 Center of Excellence (CoE)
  - Vision
  - Scope
  - Coordination with seL4 Foundation
- Progress on CoE Governance
- Community Survey
- Summary

# Griffiss Institute



- An independent 501(c)(3) entity
- Established in 2002 with NY State funding to bring together AFRL/RI, Industry and Academia to facilitate and grow the technology base of the region

Today, making major impacts in **technology transfer, training & education,** and **economic development** in the Mohawk Valley Region

# Vision: seL4 Center of Excellence

- Why a CoE? We want to make seL4 more accessible and useable for developers of trustworthy systems.
- Mission: *The mission of the CoE is to build a sustainable ecosystem around the open source secure embedded L4 micro-kernel (seL4), to promote the adoption of seL4 and the principled development of trustworthy embedded systems.*
- Scope:
  - Improving Documentation
  - Training and Certification
  - Community Outreach (annual Summit, workshops, online forums)
  - Coordinating community development activity
  - Maintaining a private US-based repository for code with special distribution limitations (e.g., ITAR restricted)

# Coordinating with seL4 Foundation

- CoE Imperative: Protect seL4 micro-kernel from fragmentation
  - Protect the integrity seL4 kernel
- Kernel code baseline is the purview of the seL4 Foundation (Trustworthy Systems Grp)
- CoE emphasis is on user community needs and minimizing duplication of effort
- Ensure community feedback is brought to the attention of the Trustworthy Systems Group

# CoE Progress

- **CoE Governance and Business Model –**
  - Socialized a general organization structure and membership model
  - Exploring ways to fund self-sustainment
- **Training class in Rome NY, June 2019, focused on AFRL's visiting summer faculty**
- **CoE Organizing Committee ramping up - Committee to be presented on Wednesday**

# CoE Repository – We’re moving!

- **seL4-US public repository**

<https://github.com/sel4-us/>

**will move to a private space**

- **Removed from github following the 2019 Summit**
- **New {private} repository to be established by end of 2019:**
  - **Access limited to CoE members**
  - **Some content further controlled – limited to DoD authorized users only**
  - **Rules and procedures to be determined, details to follow**

# CoE Community Survey

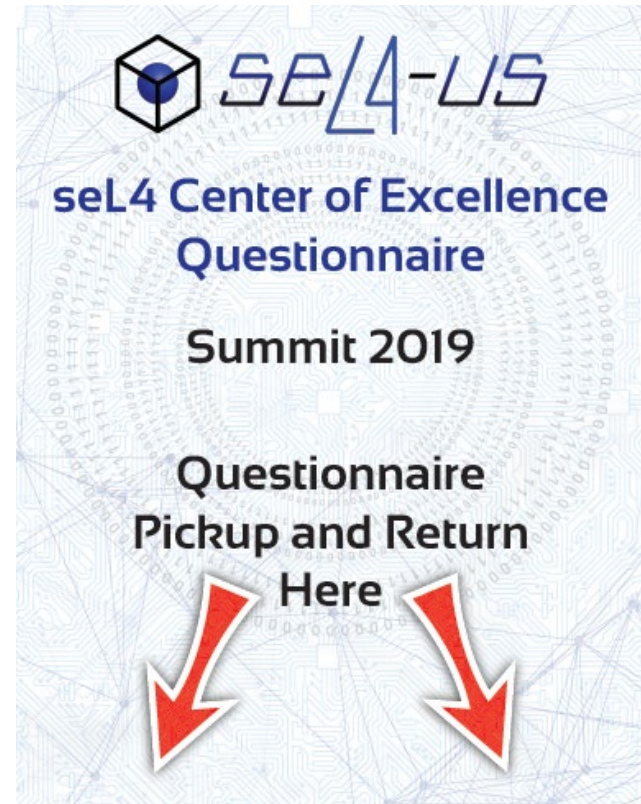
- Conducted on behalf of the CoE, at the 2019 Summit (Mon-Tues)
- An initial indicator of stakeholder needs and priorities – to inform the CoE organizing committee
- Voluntary and anonymous
- Collected in hardcopy – single sheet, front & back
- Summary results\* will be presented on Wednesday for 2019 Summit attendees

\*Assuming we're able to collect a significant number of responses.



# CoE Community Survey

- Blank forms will be available at the back of the conference room.
- Please complete and return a form by 5 pm on Tuesday!
- Please do not enter any personal information on your form.
- Thank you for participating!



\*Assuming we're able to collect a significant number of responses.

# Summary

- CoE is about an ecosystem to promote and support wider adoption of seL4 and coordinate development among stakeholder communities
- Governance and structure of the CoE is in a formative stage, driven by community interest and constraints
- Please give us feedback on community needs and priorities
- Questions or recommendations?
  - E-mail: [JDussault@griffissinstitute.org](mailto:JDussault@griffissinstitute.org)