RESEARCH COMPUTING, INFORMATION SECURITY OMPLIANCE REQUIREMENTS, AND IMPACTS TO COST ACCOUNTING

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INFORMATION SECURITY & COMPLIANCE

Questions Leaders are Asking



President, Chancellor, Provost Are we in compliance with all of these regulations related to information security?

Do we know where all of our sensitive data is located today?



CFO

Are we adequately funding information security?

What are the costs of responding to impacts of attack?



CIO / CTO

Am I implementing solutions bigger, faster, cheaper and in a more secure way?

How do I balance the need for access and the need for protection?



CISO

Is the institution enabling me to be successful?

How do I help educate and oversee an effective security program?



Risks by the Numbers

Dramatic increase in data security threats:



A Greater Focus on Technology

Institutions are concentrating on:



IT Security Requirements



Snapshot: Compliance Crosswalk

RESEARCH COMPUTING

Research Computing

In order to centralize and streamline the IT infrastructure, many institutions have established high performance computing centers to provide cutting edge technical capabilities to the research community across a variety of academic disciplines.

These services can include:

- High performance computing
- High throughput computing
- Cloud-based computing services
- Storage of large data sets
- Data backup and security
- Performance networking capabilities





High Performance Research Computing

IT costs have increased exponentially for services that benefit the entire research enterprise.

Establishing and maintaining highperformance computing centers can be extremely expensive for the institution.

> Software licenses and maintenance

Technical staff and IT security personnel Facilities costs (can include the usage of space and utility costs)

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Servers and other hardware

→ How can an institution recover some of these costs on an ongoing basis while continuing to provide critical support to the research mission?

COST ACCOUNTING

Growth in Compliance and Research Computing Costs

IT costs have increased exponentially for services that benefit the entire research enterprise.



government to pay its fair share?

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How to Recover

Potential Options to Treat a Cost



Survey Results

If your Institution offers High Performance Research	Subsidize the er proposal	ntire operation, ar	nd include these co	sts in your F&A	
	Operate this activity as a Service Center				
Computing Services, do you: If you treat High Performance Research Computing as a Service Center or SSF, what are the rate(s) based on:	Operate this activity as a Specialized Service Facility				
	Server usage				
	Storage capacity				
	Annual payment				
Related to other IT Security]				
costs such as FISMA, NIST,	Subsidize the entire operation, and include these costs in your F&A properties				
EU GDPR, etc. do you:					
	1	2	3	4	

Treatment of Compliance and Research Computing Costs

Challenges/Issues/Questions



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Treatment of Compliance and Research Computing Costs

Considerations for Including Costs in F&A

Cost Separation

• How are administrative costs separated from facility costs?

Cost Allocation

- What is the right basis for allocation of costs?
- Are there costs that may be directly allocated to specific awards?

Cost Incentivization

 If grants and PIs are not charged for research computing, how may behavior be incentivized (e.g. most economical manner of storage)?



Treatment of Compliance and Research Computing Costs

Considerations of IT Security Costs



- Are there other options for IT Security than to include it in an F&A rate?
- Could NIST or FISMA costs be charged directly?
- If not considered F&A, how is CAS compliance ensured?

- What components may be included in Facilities?
- Does IT security cover all institutional areas?

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Additional Thoughts

Separating Services and Tracking Usage

- Should institutions charge for these services?
 - Should these operations be subsidized?
- What costs should be included in the billing rates?
- What should be the rate base?
- What constitutes a specific "service?"
- How can the costs for each be separated?



THANK YOU



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