Security, Federation and Authentication
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Why address these

• They are important to science users community (emphasis on community).
• The solicitation asks you to speak to these.
Security

• Your campus CISO will have hissy fit if you don’t explain your intentions to break his wonderfully secured campus.
• You should understand the implications of what you are building and how it works so you can explain your intentions.
• Build scenarios and describe how the data flows in/out of your new environment if you are building one.
• Show how you will limit the damage if there is a problem (isolation/passive monitoring etc)
Security

• Figure out what the community using this new network ‘space’ will accept as limitations.
• Science DMZ can mean many things to different people (ESnet to .....)
• You campus ‘normals’ will want to use resources, how will you inject/extract data from new space to the ‘protected’ space.
• Not all campuses are locked down today at their border.
Federation

• In last day we have talked about ‘team science’.

• Federation is a way to build space(s) that span between different control domains.

• The IDM solutions should be able to build federations. (Incommon) Award talks about this.

• VOs are a hot thing.
Federation

- If we don’t build communities in some automated way there is a huge human overhead. (secret— if we don’t do it well security becomes bad too)
- How do you build ad-hoc communities. If this is hard researchers will ignore your solution.
Authentication

• How do we know someone knocking on your virtual door is who they say they are.
• This is not authorization.
What does this mean to proposal

• When you tell you story you should create as part of your narrative how these are going to be handled in you new infrastructure.

• Don’t over analyze the problem.

• Be realistic. Reviewer know what is possible today. Don’t over promise.

• This is not a IDM/security solicitation. (except for when it is). Just be sure to talk in realistic terms about what sort of simple/doable solutions you will attempt.

• Simple is not bad.