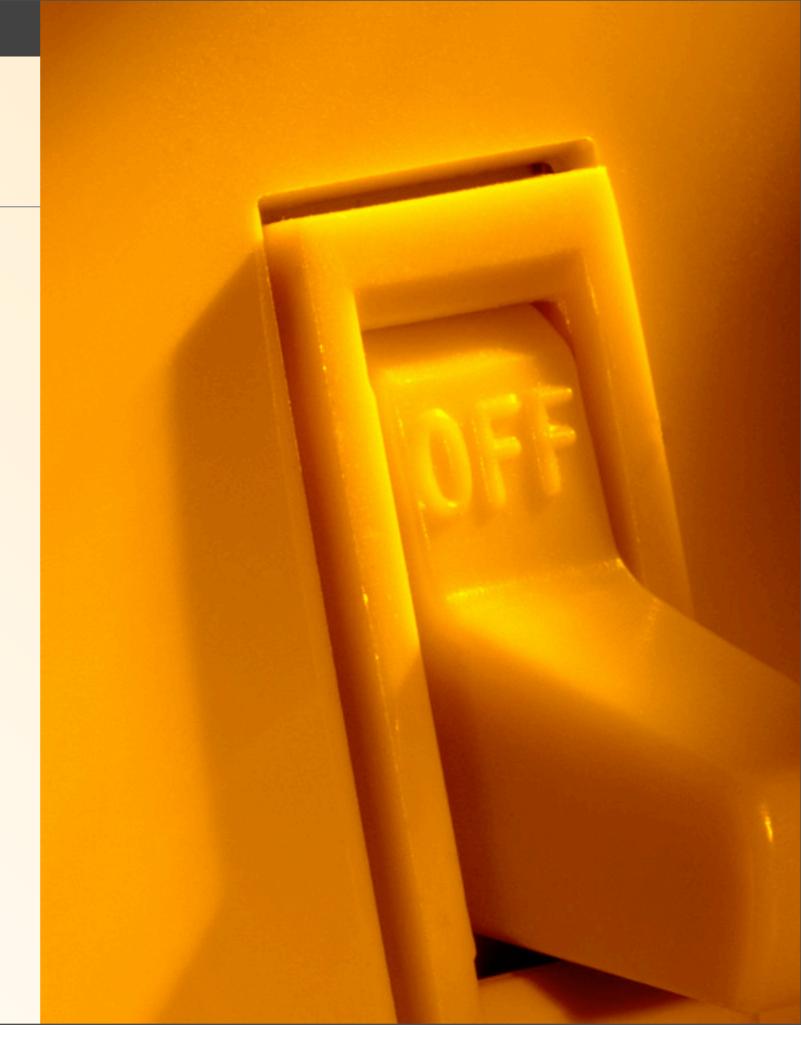
Emergency
Stop Spiral 2,
take 2





Emergency Stop for GENI

- GMOC tasked with drafting Emergency Stop system in Spiral 2
- Full draft document available on GENI wiki, on GMOC page
- Emergency Stop Drill (early version) planned shortly with ProtoGENI







Goals

- Basic, easily understood model for GENI stakeholders, which can evolve with needs
- Single PoC for stop requests
 - From campus operators, peered networks, researchers
- Coordinate communication for Stop with appropriate aggregates







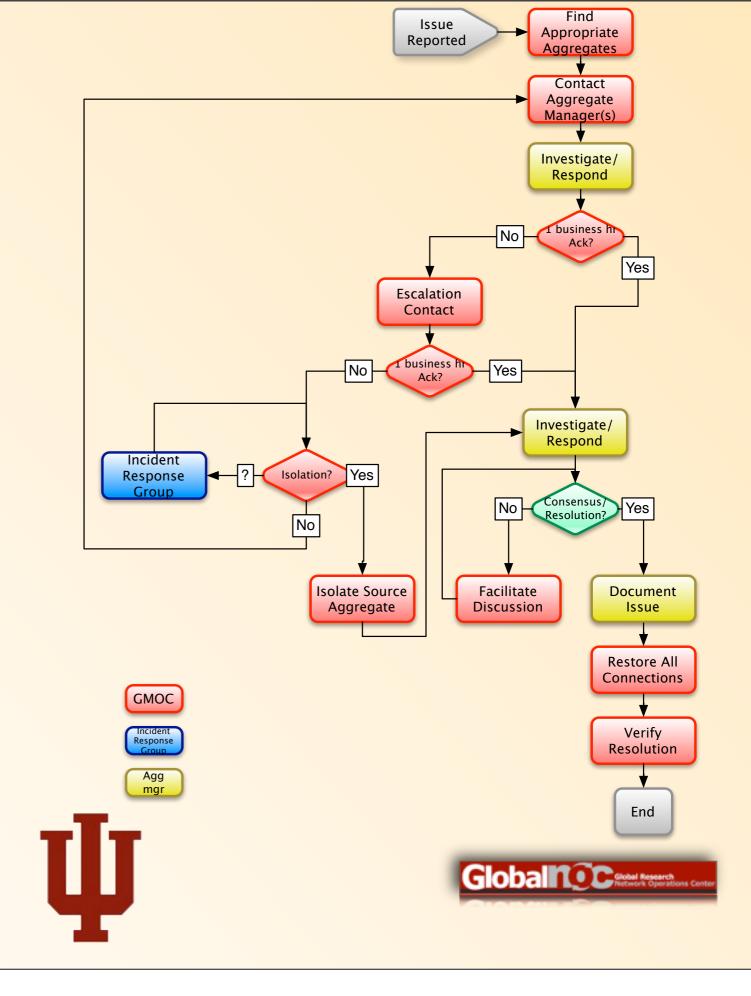
Stop Cases for Spiral 2

- For multi-aggregate, multi-cluster slices -
 - Unexpected Resource Exhaustion: resources in one aggregate are being unexpectedly affected by another aggregate
 - Non-GENI Network Effects: GENI slices are unexpectedly negatively impacting a campus or other non-GENI network
 - Legal requests: Cease & Desist, subpoena, AUP violations
- Assuming no authorization method for requests yet
- If stop request is made to an aggregate, that aggregate should redirect the request, unless it is an intra-aggregate issue, and not relevant to GENI as a whole.





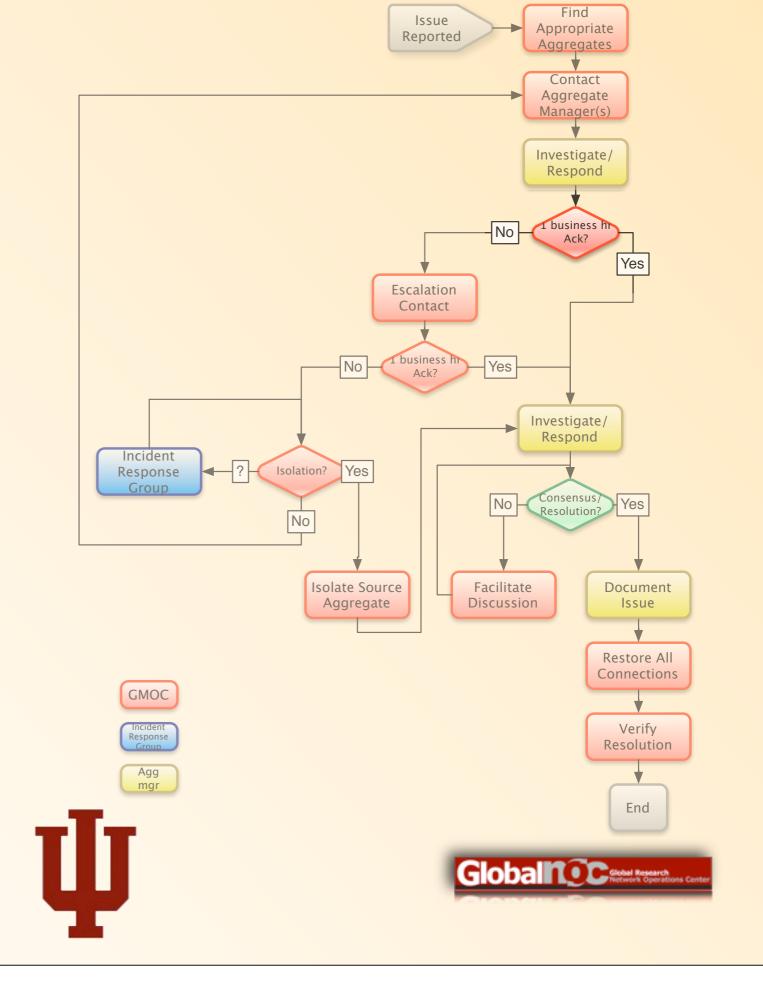






Response Expectations for acknowledgement (not for fix) -

What's a good number?

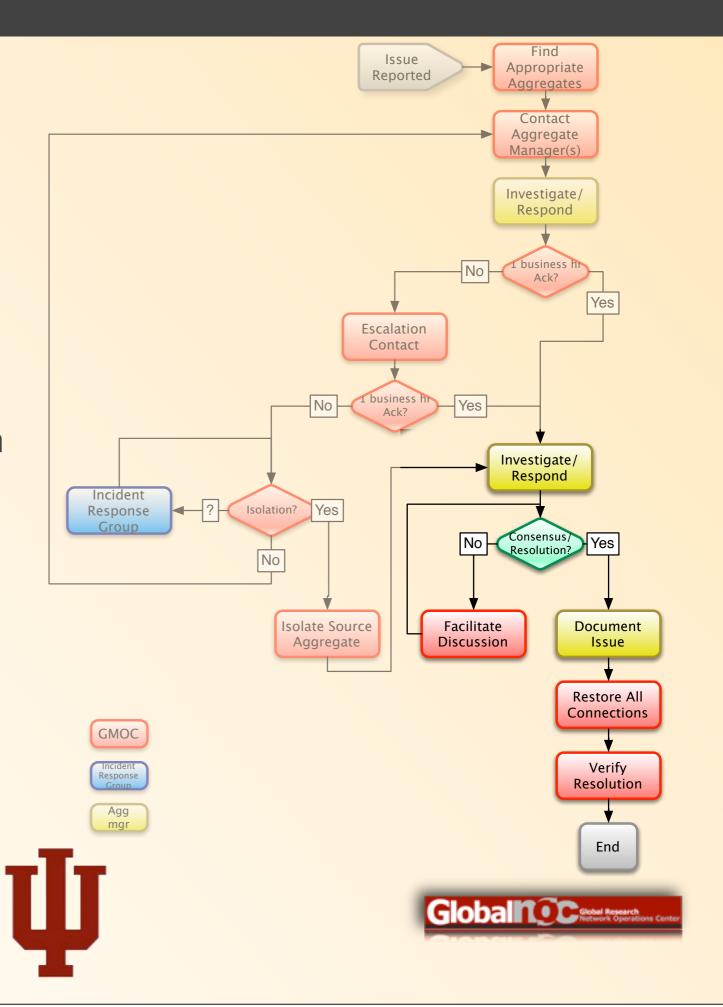




Resolution side (yay!):

- 1.Do all parties involved agree problem is resolved?
- 2.Document, report & confirm resolution to user
- 3.Beer

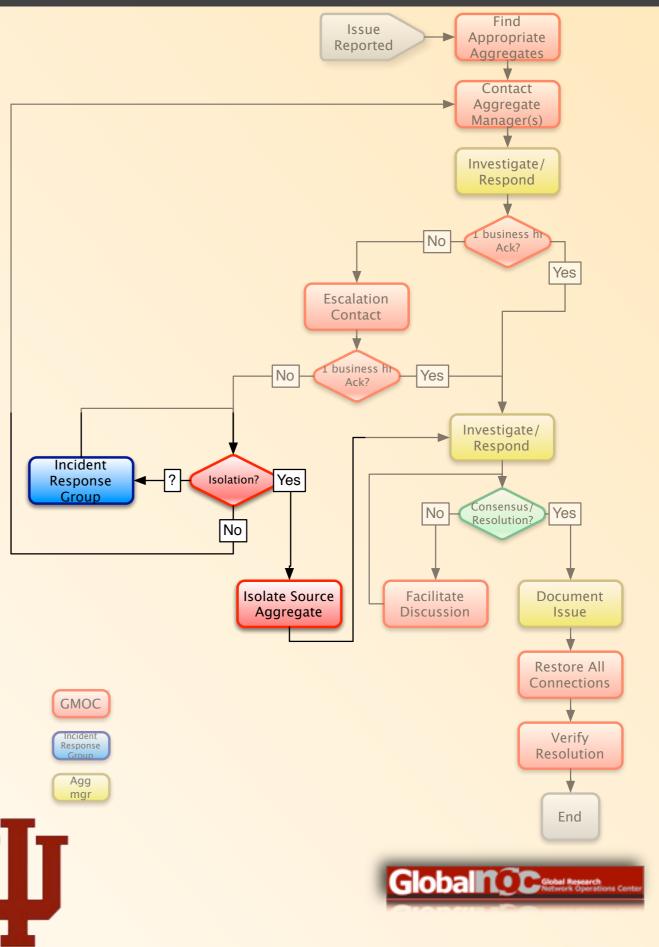




If no responses after escalation:

Should the aggregate be quarantined in some way?

sometimes decision will be difficult, so who should decide?





The Incident Response Group - a strawman

- group responsible for stop-related immediate decisions (called to conf call)
- group may also provide policy guidelines ahead of time
- Not too big or too small
- possible participants:
 - GPO
 - Security
 - 1 delegate from each cluster
 - GMOC







Expectations for Aggregate Operators

- Right now: provide emergency contact phone & email to GMOC
- Ongoing: timely response to emergency stop requests from GMOC
 - investigation/confirmation of the issue
 - intervention/shutdown of the source of the issue
 - reporting results back to GMOC for tracking/service/reporting







Other things to consider

- Authentication/Authorization of communications
- How might the communication be made more efficient?
 - Automate communication? Federate management plane access?





