

The logo for Grid-Interop, featuring the text "Grid-Interop" in a bright green, sans-serif font. Below the text is a white graphic of a power plug with a wavy line extending from it. A small "TM" trademark symbol is located at the bottom right of the logo.

Grid-Interop

The background is a light blue field filled with a network of white lines connecting various nodes. Some nodes are red spheres, while others are yellow or blue cubes. Several stylized figures of men in business suits are standing on the yellow cubes, some holding briefcases, suggesting a professional or corporate environment.

Innovative Architectural Models

Architecture Track

Wednesday, December 7
1:30pm to 3:00pm
Room 162

Brad Rogers – Navigant Consulting (Session Moderator)

Jeff Gooding – Southern California Edison

Eric Nelson – Synaptitude

John Teeter – People Power Company

Tony Giroti – BRIDGE Energy Group
(Architecture Track Leader)

The grid is a patchwork quilt...
but which quilt do we want?

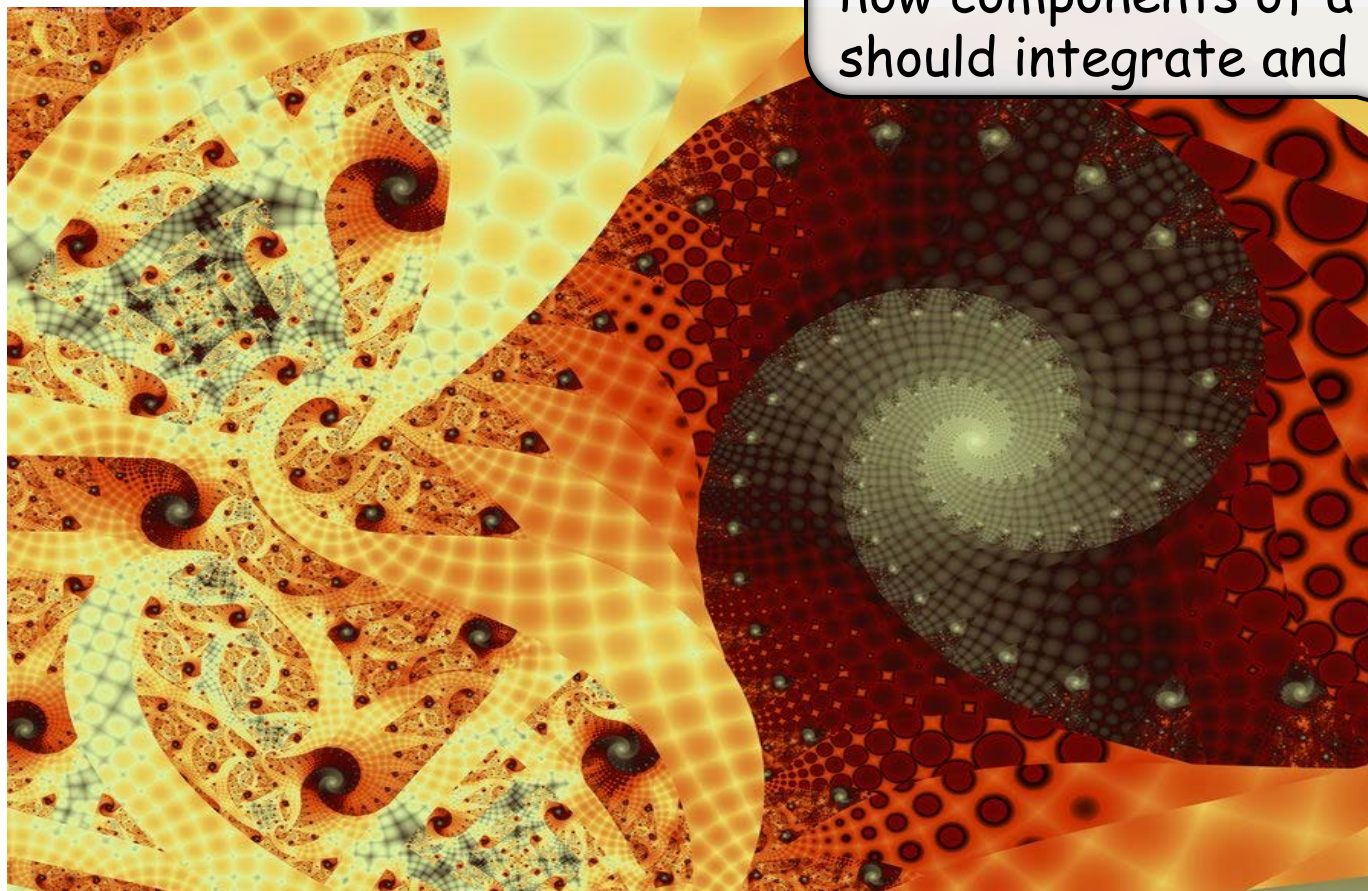


Fiberfantasies.wordpress.com



TheStitchersCupboard.com

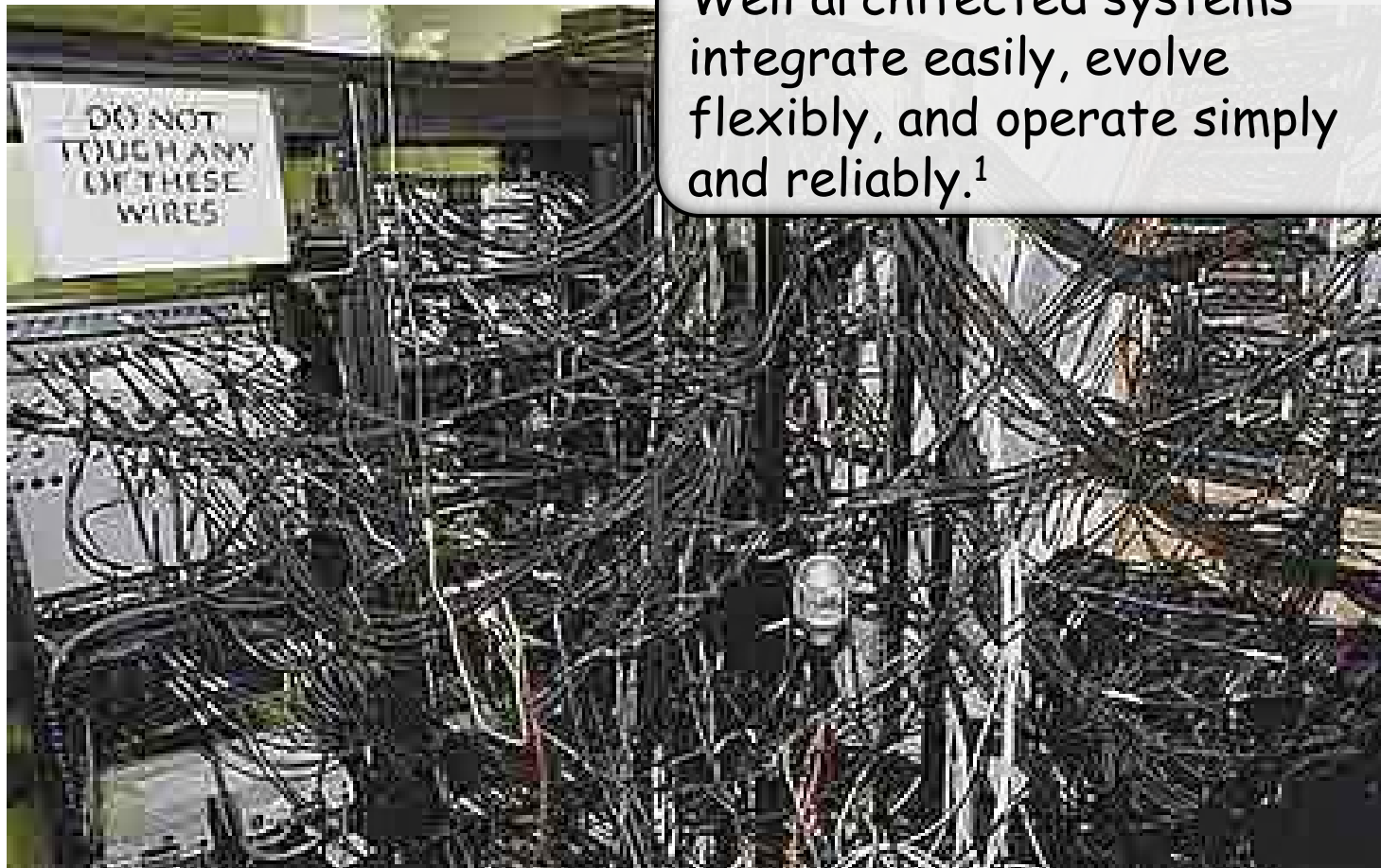
Architecture: method for the madness



Element90 www.deviantart.com

A system architecture is a set of organizing principles that establish how components of a system should integrate and interoperate.





Well architected systems integrate easily, evolve flexibly, and operate simply and reliably.¹



1. Massachusetts Institute of Technology © Ed Crawley 2007

I'm a Mac.



I'm a PC.



I'm Linux



?



Opensourcejokes.com

More Specificity

More Degrees of Freedom



And where in the stack are we?



- As interoperability efforts advance, the architectural vision for the future grid has not yet fully come into focus. New products, services, and standards are coming to market, each typically with implicit architectural assumptions. Important questions remain:
 - Can the existing patchwork of grid architectures ever converge?
 - Is there a place for a unified vision for grid architecture?
 - Should the approach to grid architecture be more specified or more open?
 - What decisions can utilities make today in spite of architectural uncertainty?
- This session advances the GridWise Architecture Council's goal to "identify the concepts and architectures needed to make interoperability possible" by offering unique perspectives on the future of grid architecture.

- **Smart Grid Reference Architecture Drives Information Management at SCE** (Jeff Gooding)
will describe a unique tool that helps utilities navigate the world of grid architecture and interoperability to make decisions today.
- **Identifying Architectural Modularity in the Smart Grid** (Brad Rogers)
asks if the organization of grid architectures can be improved and offers a tool to help organize grid systems.
- **Utilizing Telecom Operations Frameworks in Energy Utilities** (Eric Nelson)
will demonstrate how utilities are similar to telecoms and will offer architectural insights from the telecom companies around the world.
- **Open Source and the Smart Grid** (John Teeter)
asks what role 'open source' can play in bringing about interoperability and ultimately delivering on the promises of a smarter grid.