

SOA...SOL...SOS

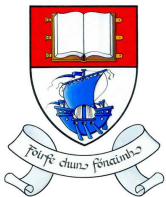
*A presentation without a **Pyramid***

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intelligence everywhere

The Good News

- Web Services are a Good Thing...
 - A standard set of extensible protocols for discovery, definition, and message passing
 - Makes marketing people happy



The Bad News

- Most people equate SOA to Web Services
- The problems are that
 - neither are a panacea
 - both have turned into placebos

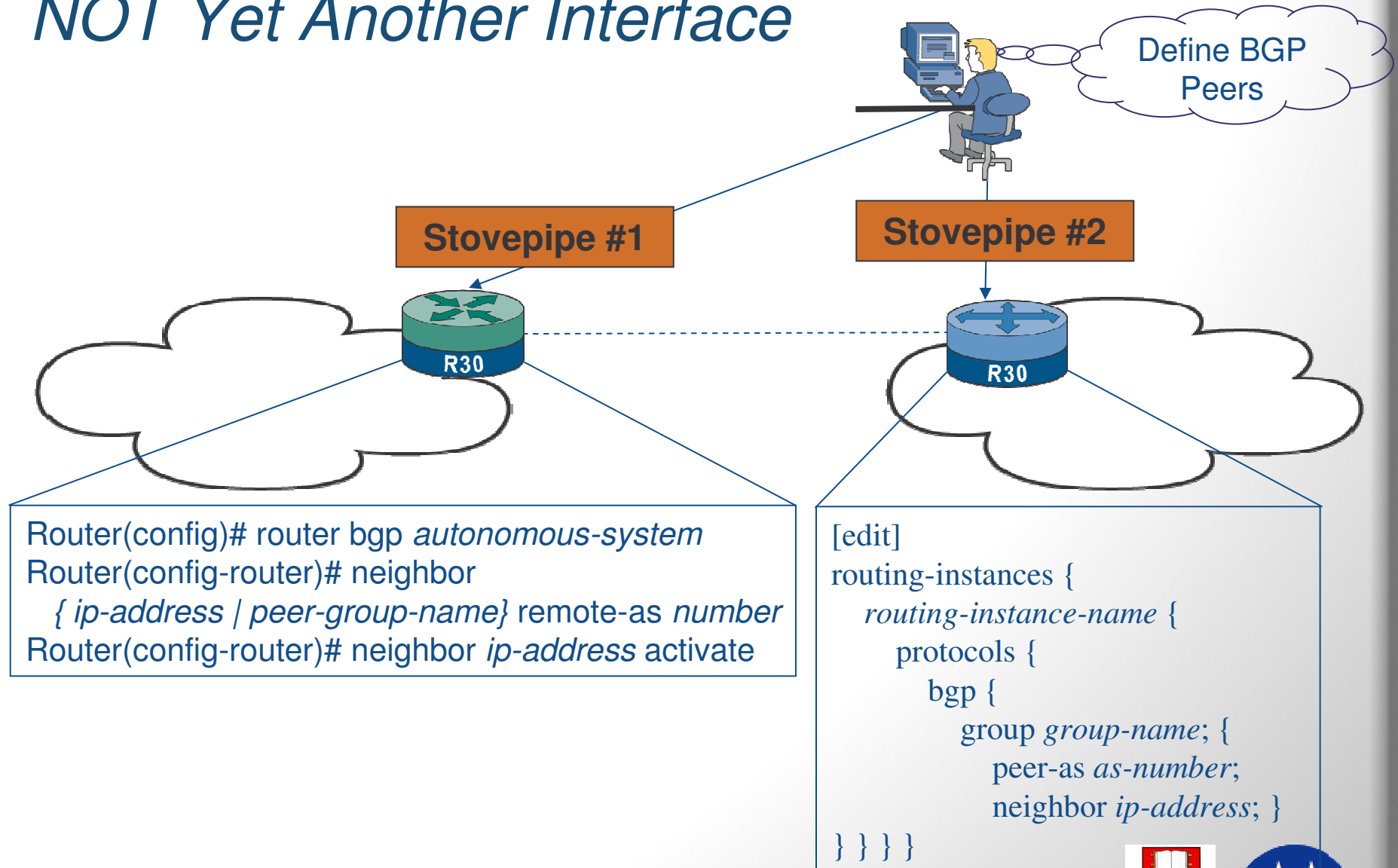


How Does SOA or WS Help This?

- The issues are complexity, stovepipe architectures, and information exchange
- Thousands of service interfaces doesn't help
- Thousands of services web service enabled also doesn't help
- It's also not about loose or fine-grained coupling
 - OSSs and BSSs systems become *brittle* when integrated
 - Fixing this is independent of WS and SOA



The Need is a Network *Lingua Franca*, *NOT Yet Another Interface*



How do SOA and WS Help This?

- Wrapping the Cisco and Juniper configs in two different Web Services is promising the Emperor new clothes
 - The syntax and semantics of the Cisco and Juniper configs are completely different
 - The programming models are completely different
 - There is no shared vocabulary definition, so the added text exacerbates this problem



And More Bad News

- Web Services is a Band-Wagon of Band-Aids
 - Encourages packaging of pre-defined functionality
 - Getting interfaces to talk is easy, but historically that isn't the problem
 - » Information exchange and semantics are the hard parts
 - How does TEXT make the problem better?
 - » For network management, does converting binary objects to text, compressing to binary, decompressing to text, and then converting to binary really necessary/desirable?
 - Non-functionals and advanced negotiation models are not supported
 - Web Services does not “give you” SOA for free
 - » Poorly defined Web Services leaves you SOL and screaming SOS



A Call to Arms

- WSDL provides a statically defined interface...
- ...is that enough? Don't we need dynamically defined interfaces?
- ...The problem is that we have *stopped innovating*



Questions?



“Create like a god. Command like a king. Work like a slave”
- Constantin Brancusi