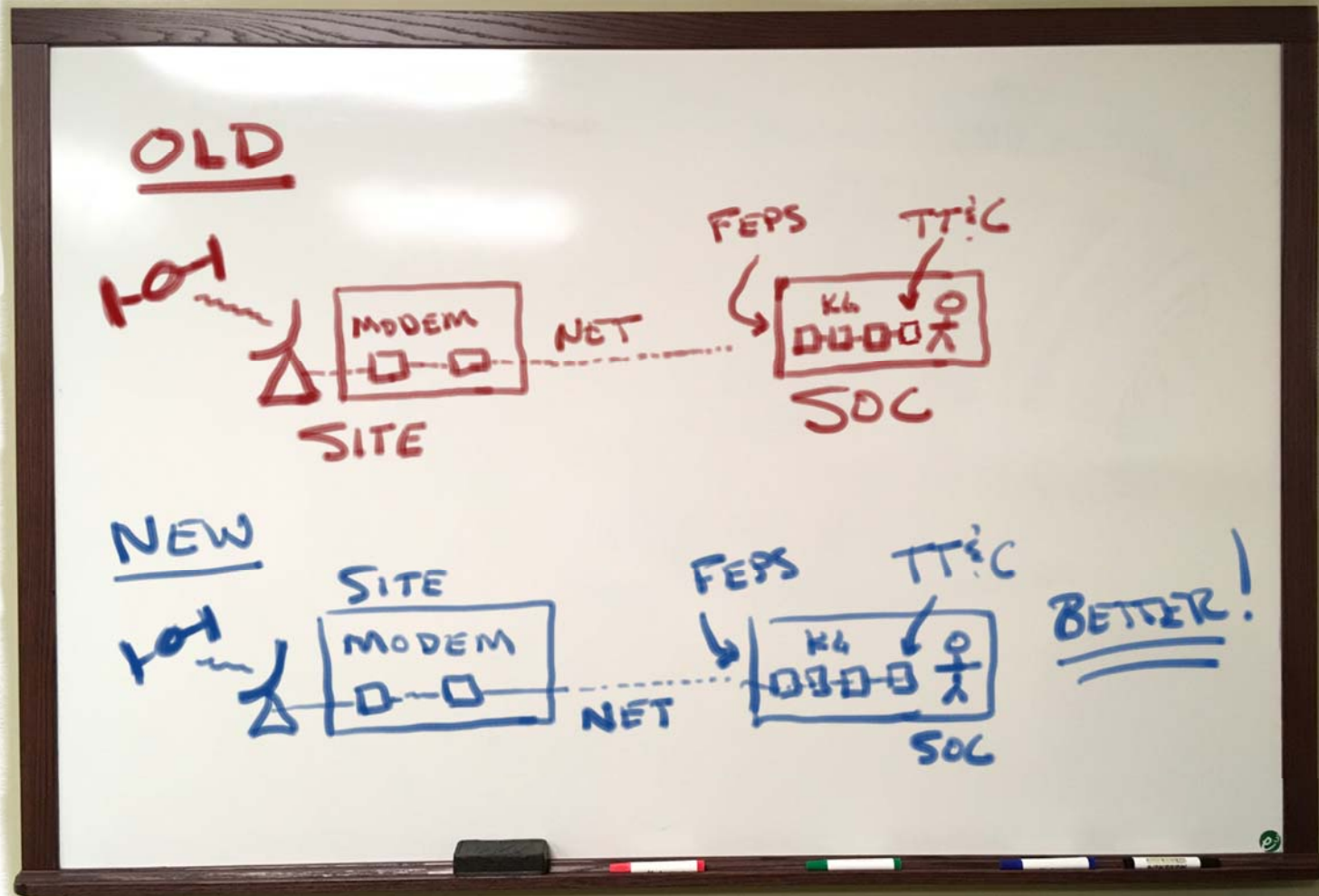

There Is No Box

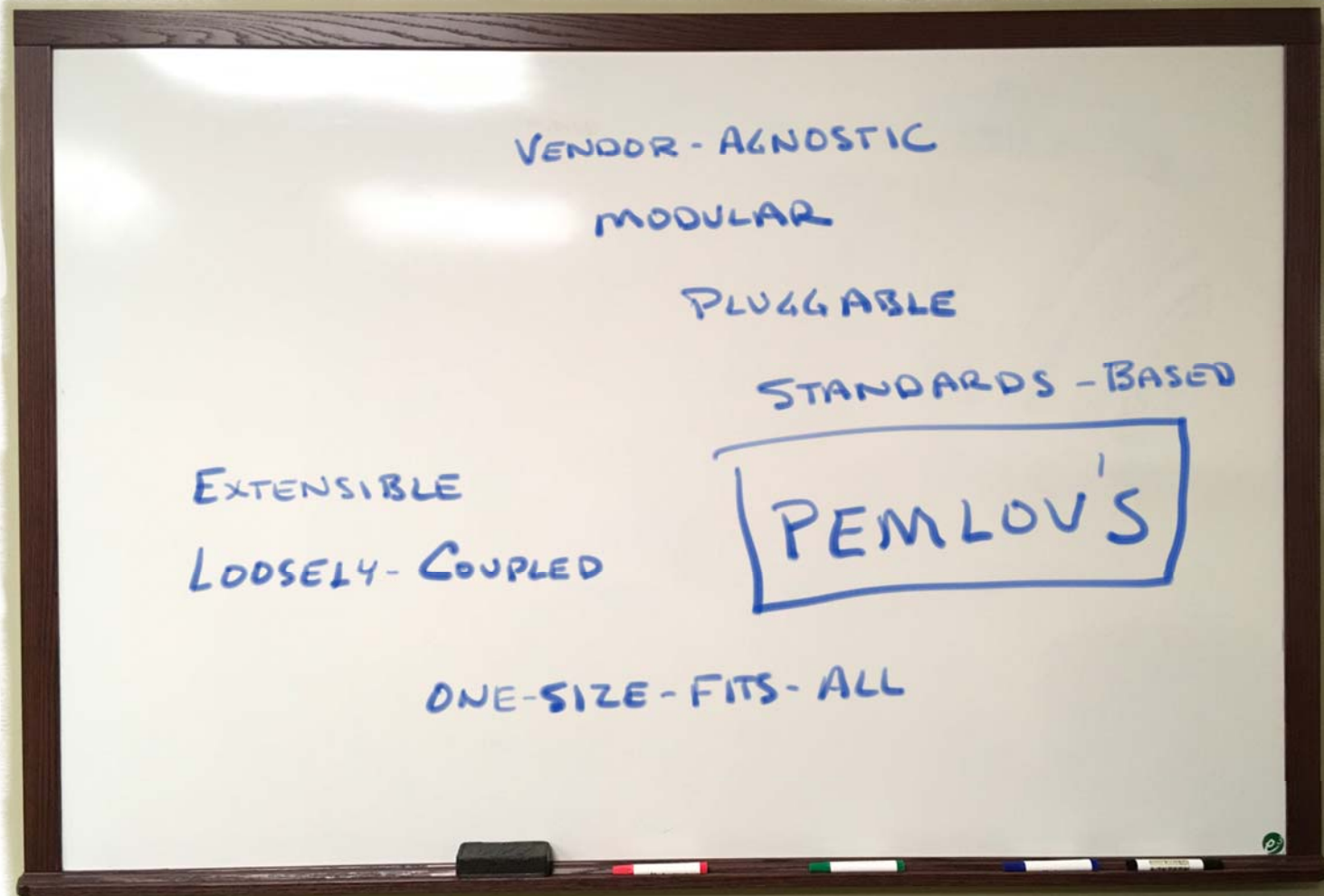
GSAW 2017
Rob Andzik

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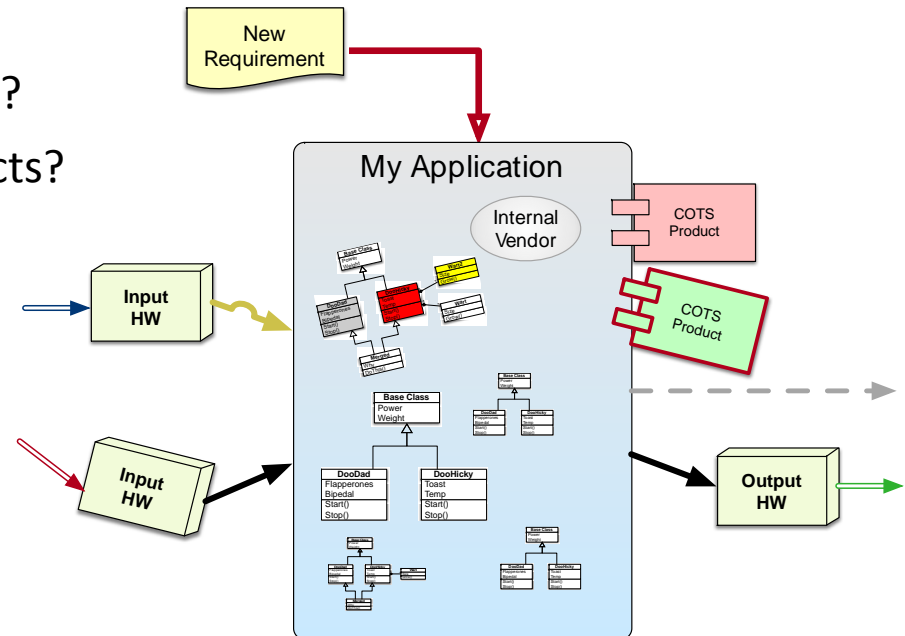




Let's Be Honest!

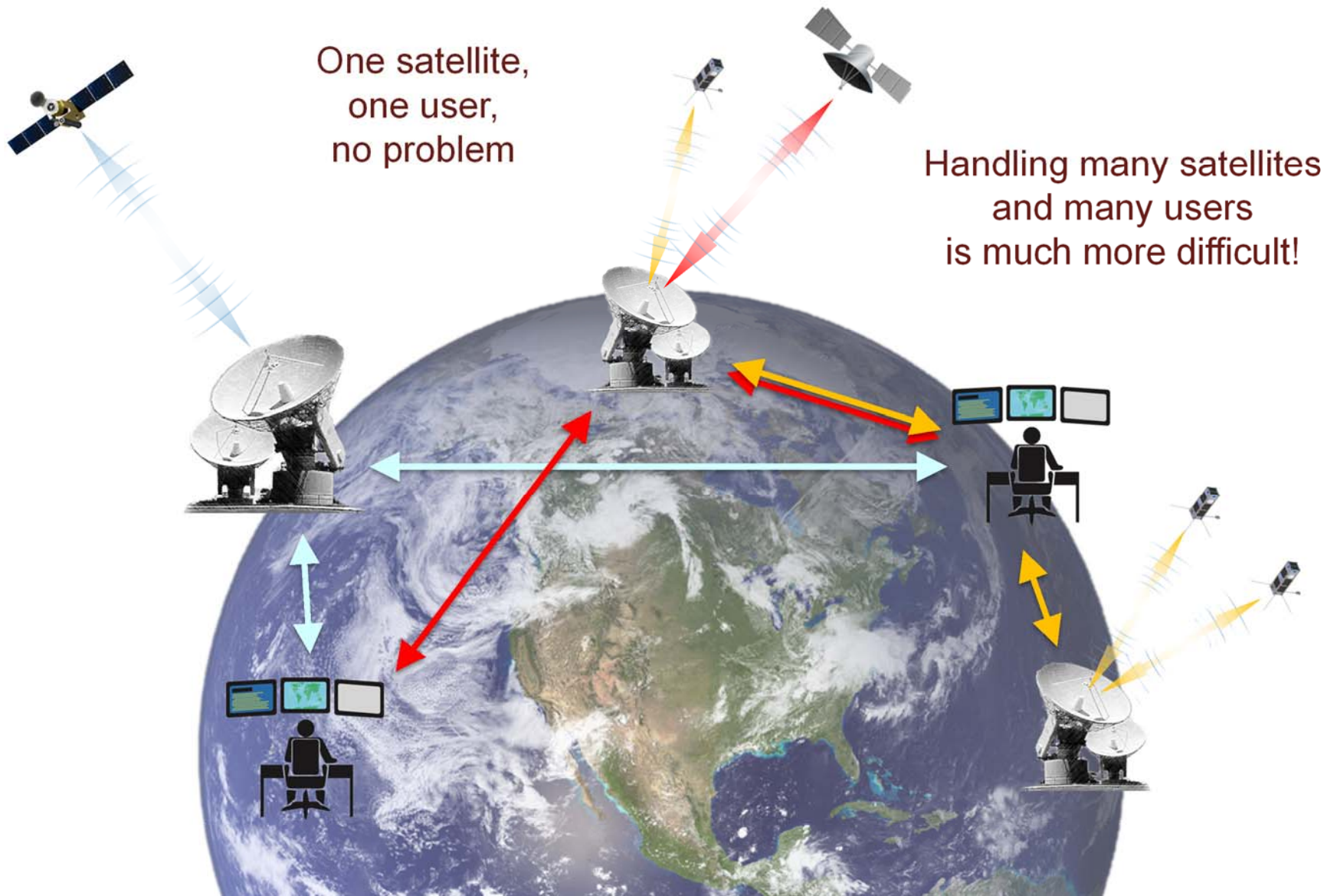
- **Did You Really Achieve Those Goals?**

- Is it loosely-coupled?
- Did you work around your standards?
- Did you get locked in to COTS Products?
- Did you get it done on time?



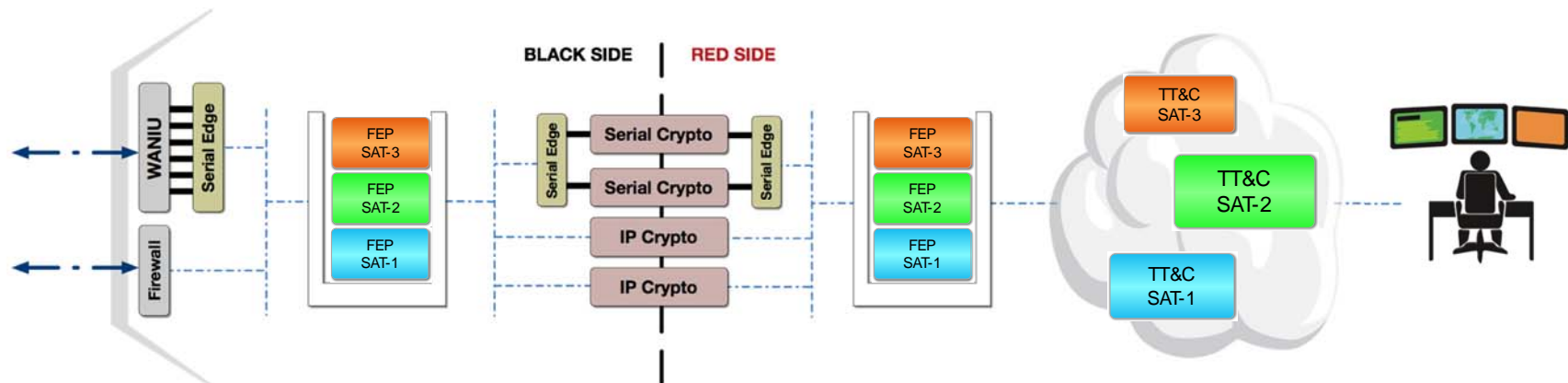
- **The Hardest is One-Size-Fits-All**

- How did the 2nd and 3rd users do?
- Are you handling those legacy interfaces?
- When does version 2.17 come out?



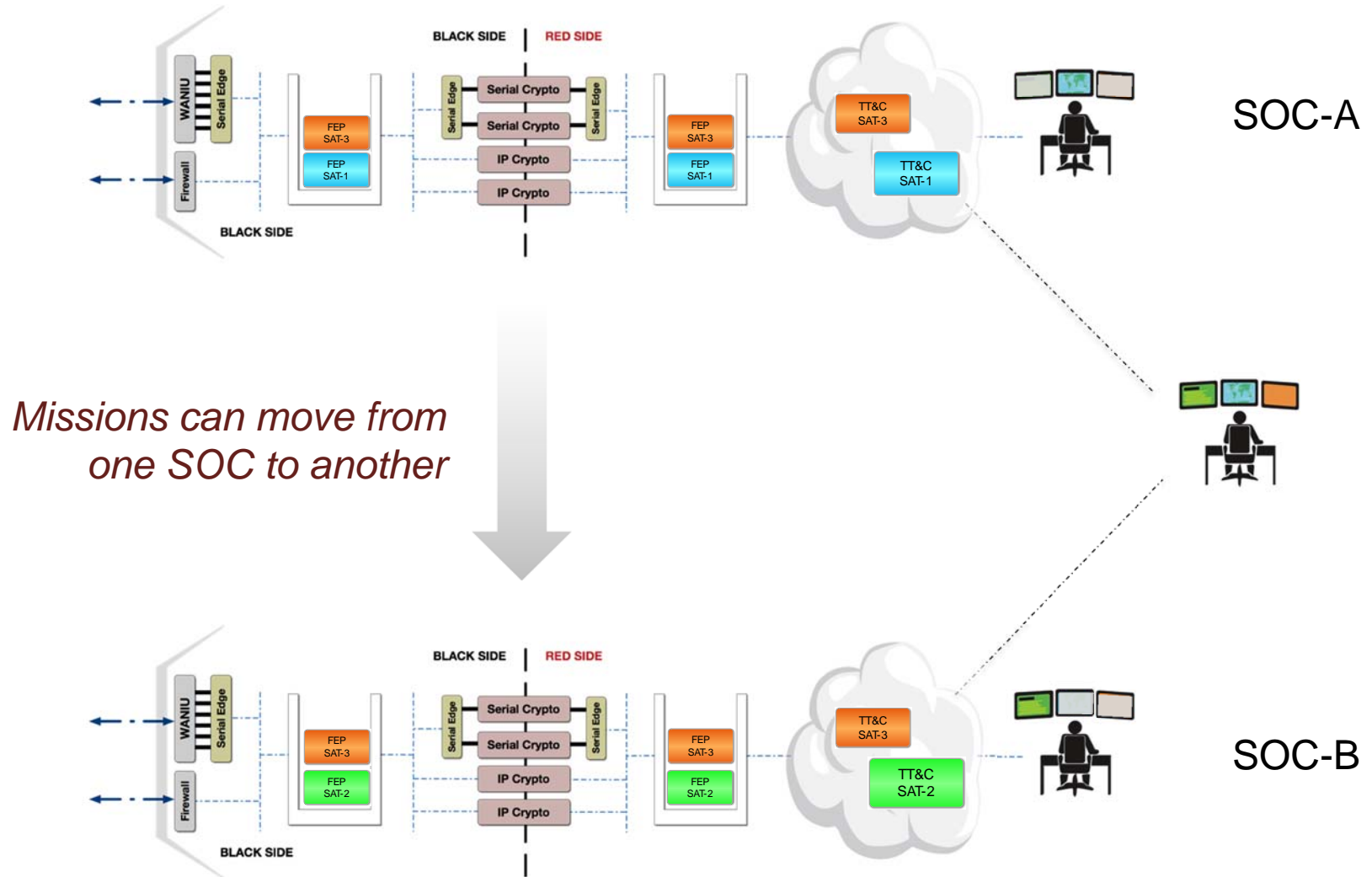
*Reduce The Problem Down To
Physical & Security Constraints*

*Everything else is networking,
and a place to run software*

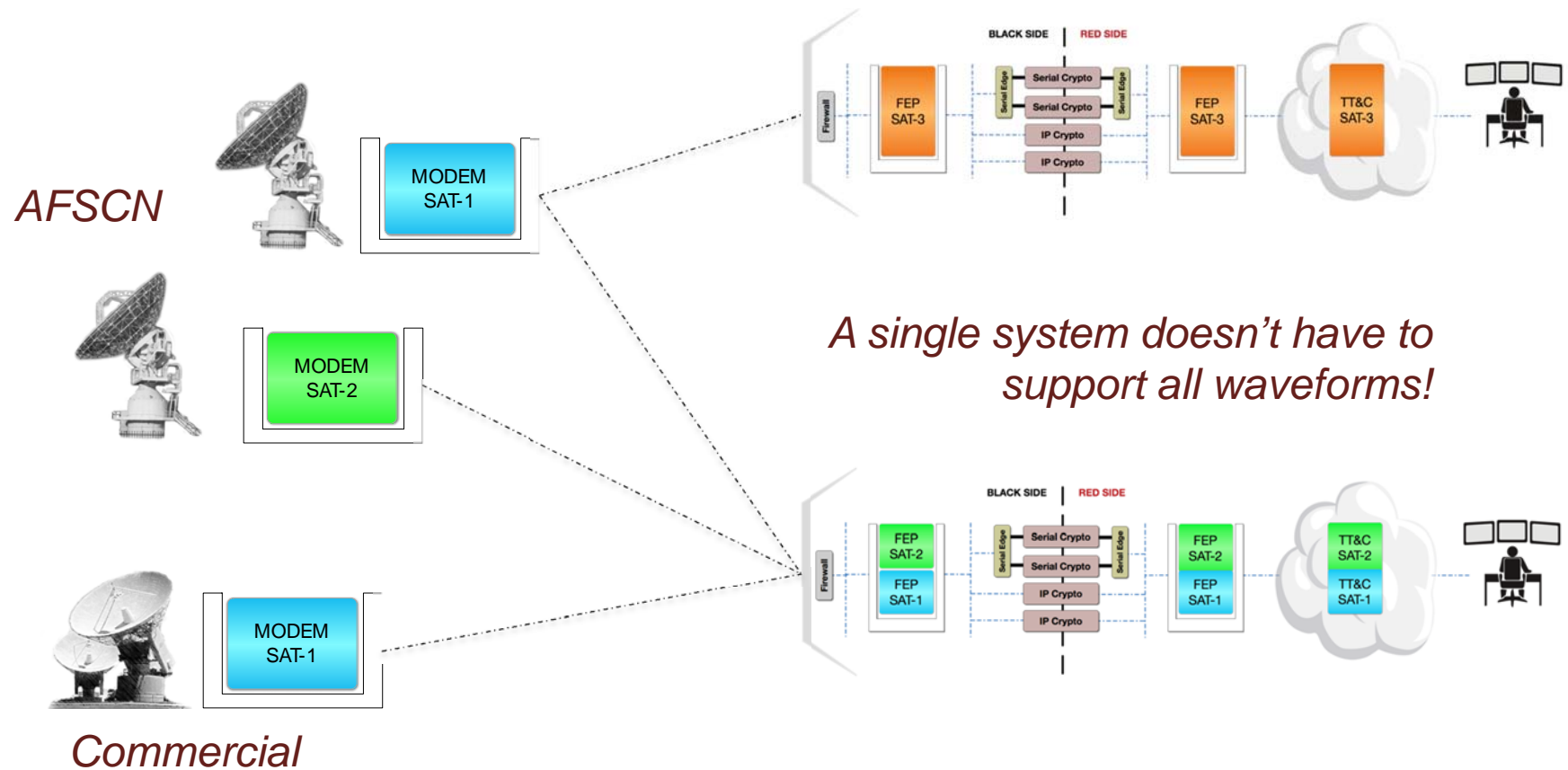


*This is your
“One-Size-Fits-All” Architecture*

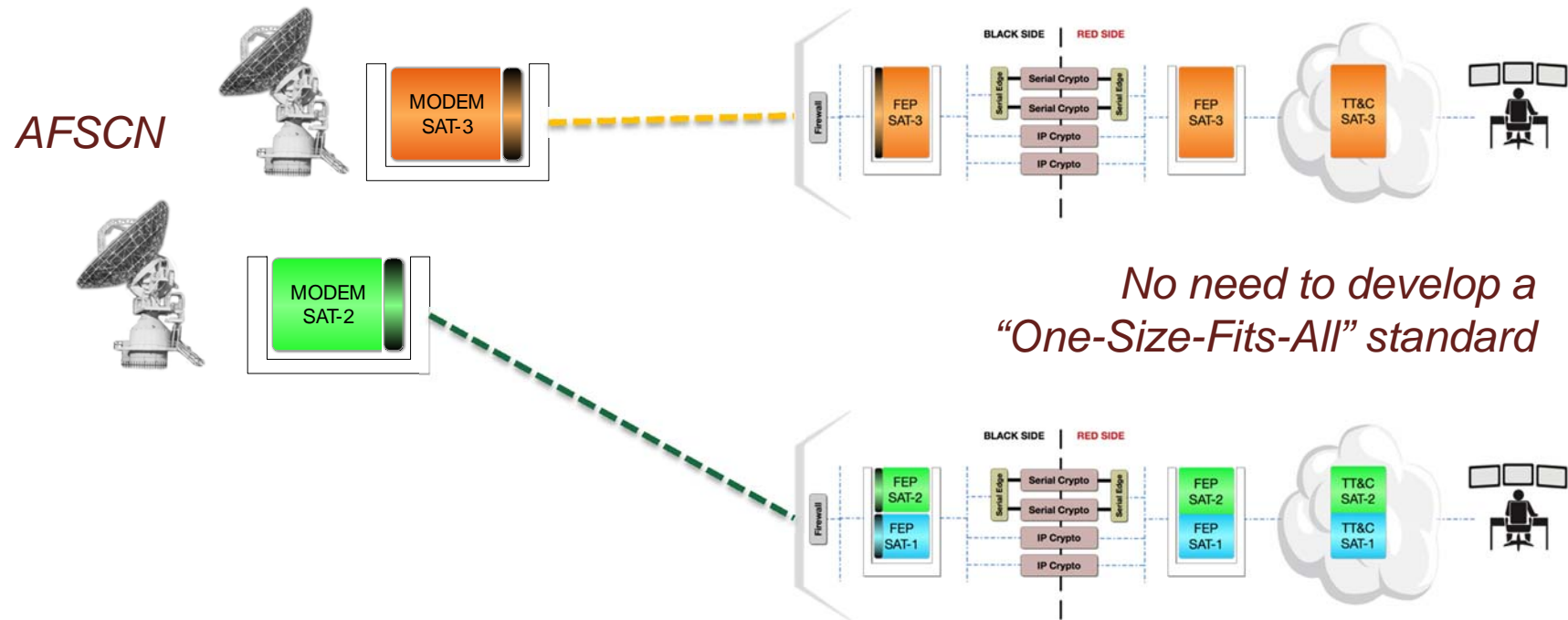
*Then add virtualized, software-based functionality
Unique To Each Mission*



With A Software-based MODEM, the SOC can “own” the DSP function



If the gateway function is embedded in both ends, then the protocols can be unique



*No need to develop a
“One-Size-Fits-All” standard*

*All that's needed is an IP network
and a set of
IA and Governance Standards*

*Improves Cyber Security Too
Its not there when its not used!
And it can be quickly Reconstituted!*

- **Evolves With Time**

- New programs can come with new technologies
- Changes can be rapid and have little ripple effect
- Both operational and experimental capabilities can coexist

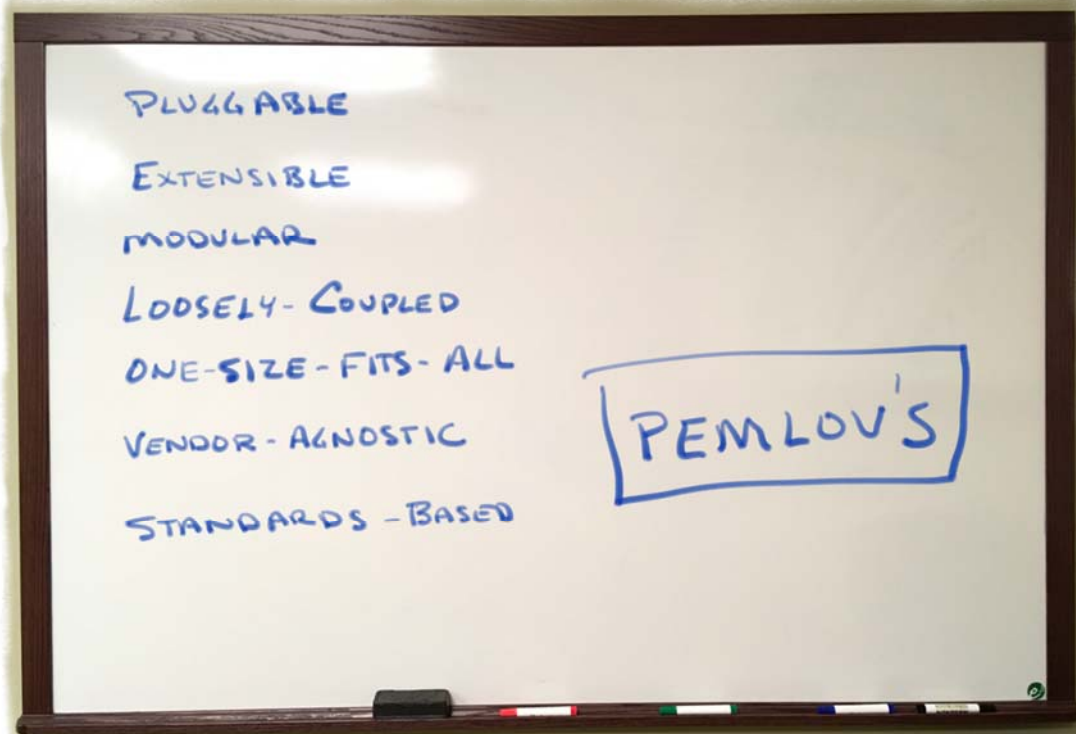
- **What's Holding Us Back?**

- The non-technical challenges are likely the bigger issue
- Cyber security and governance are already challenges

- **The Best Part**

- Does not require a Big Bang to get started

Maybe PEMLOV'S Architecture Is Possible After All



*This is already deployed
on numerous
Government, Civil, and
Commercial Satellite
Programs!*

Rob Andzik

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