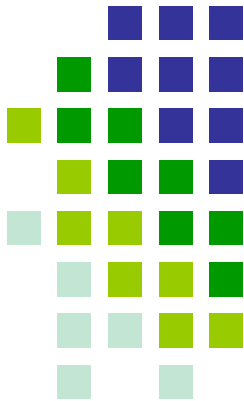




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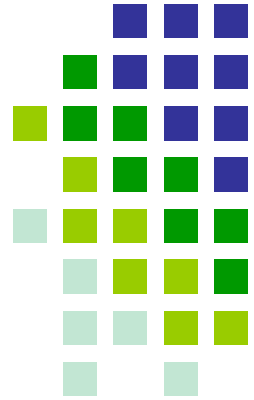
Trusted Internet Connections (TIC)



Department of Energy
Anthony Z.S. Bailey
Office of Cyber Security
Office of the Chief Information Officer



Acknowledgements



□ TIC Working Group

- HQ OCIO Staff
- Dr. R. Roy Whitney, TJ Lab
- Win Gaulding, HQ Cyber Security
- Jim Sledge, HQ IT Operations
- Bob Aiken, HQ IT Operations
- Denise Hill, HQ Ent Arch
- Bill Johnston, LBNL
- Joe Burrescia, LBNL
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- Phil DeMar, FERMI
- Vicky White, FERMI
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- Jason King, LLNL
- Win Gaulding, HQ Cyber Security
- Jim Sledge, HQ IT Operations
- Bob Aiken, HQ IT Operations
- Bill Johnston, LBNL
- Joe Burrescia, LBNL

□ Notable Mention

- The SLCCC
- Rosio Alvarez, LBNL
- Chuck Powers, NREL



What is TIC?



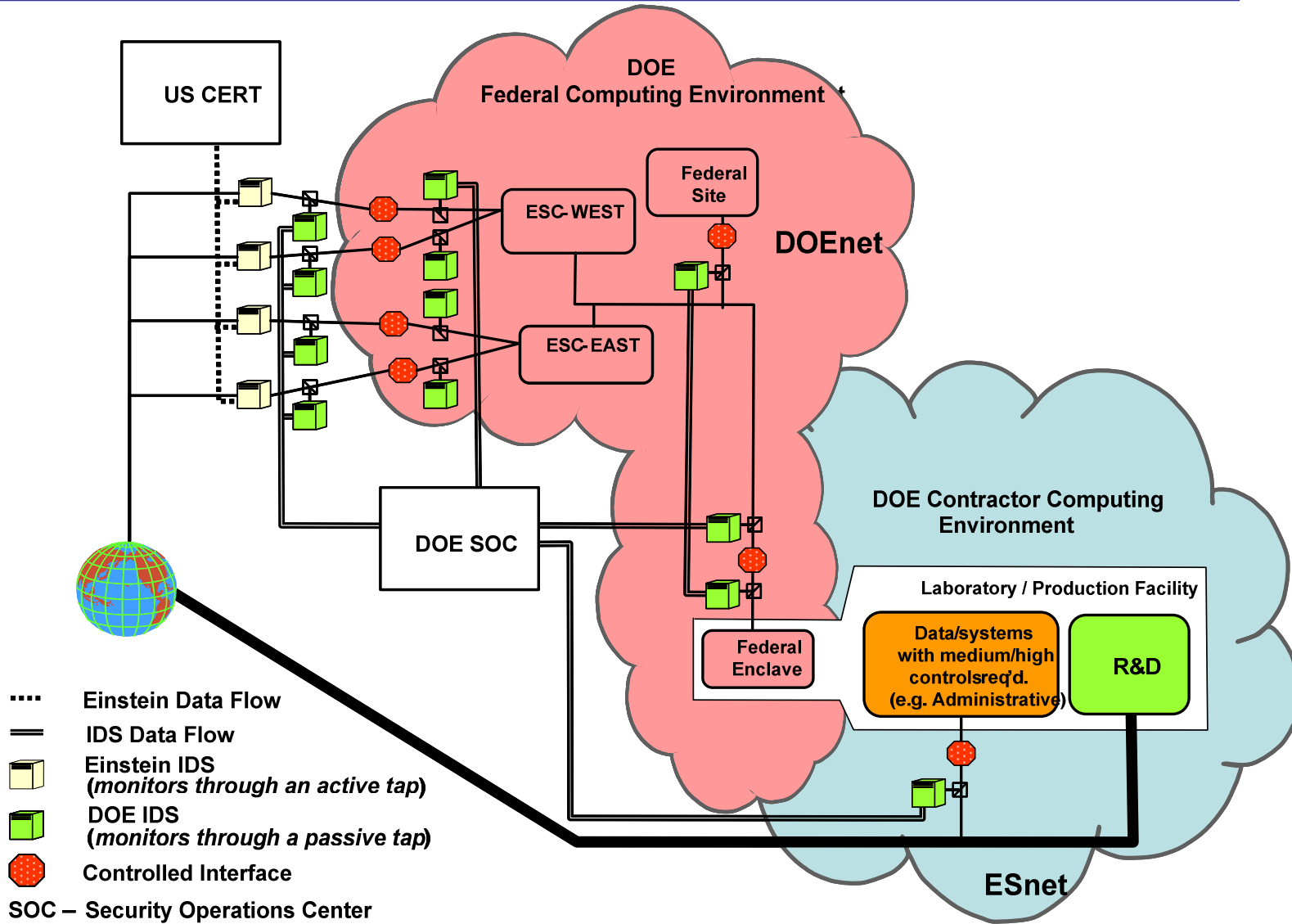
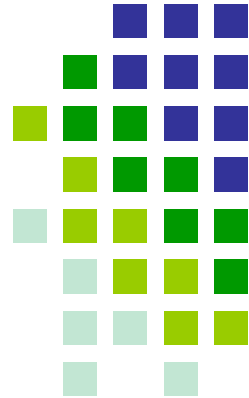
- TIC is one of 12 national level initiatives aimed at securing cyber space for the [civil] federal government
 - Reduce number of external [Internet] connections to target of 50
 - Use negotiated telecommunications contract vehicle Networx for circuits
- OMB Memo M-08-05 mandates compliant actions by June 2008
 - Identify agency-wide external connections
 - Develop an agency design that reduces number of connections
 - Establish [at least] 2x NOCs and a DOE SOC
- DOE Solution protects the mission of the department by:
 - Identifying existing infrastructures versus building anew
 - Segregating the collaborative, R&D networks from DOE production networks
- Potential DOE Gains
 - Reduction in number of circuits and costs for external connectivity
 - Economical solutions to common problems i.e. cyber security protections
 - Better identification of our telecommunications assets





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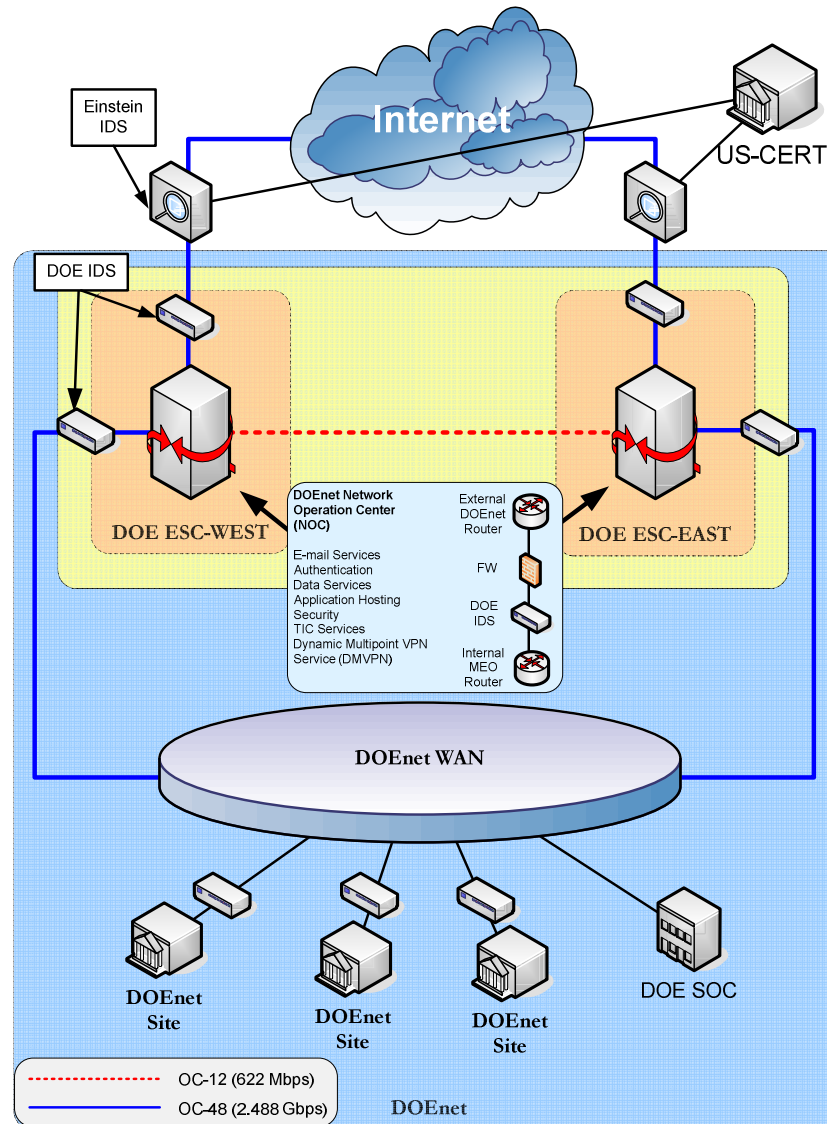
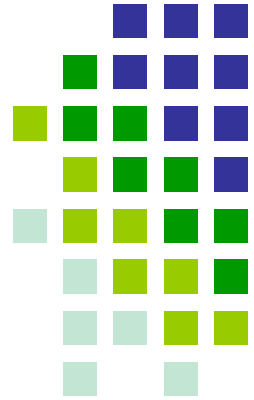
DOE Notional Architecture





DOENET Enhanced w/ TIC Services

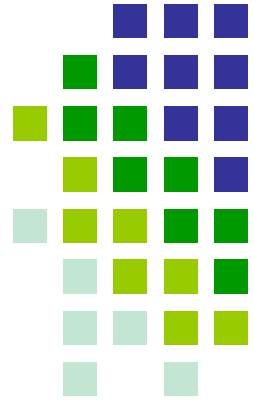
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TIC Cost Implications



- ❑ Telecommunications Cost
 - Sites/Programs currently bear and will continue to do so
 - Enhancement of DOENET w/ TIC will ensure current b/width usage
- ❑ Infrastructure Upgrades
 - Site Routers (as required) for enhanced services—Working Capital Fund
 - DOE Network Operations Centers--OCIO bears costs as part of DOENET
 - DOE Security Operations Center—OCIO bears costs as part of Cyber
- ❑ Intrusion Detection Systems--sensors
 - DOE IDS i.e. CPP—IM-30 bears cost as ongoing program enhancement
 - US-CERT sensors—provided by DHS with annual costs by DOENET
- ❑ Other
 - VPN software—case by case basis



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Q&A

