

The Cyberspace Domain and Its Challenges to Space Systems Architecture

A “Birds of a Feather” Session

Frank Belz	The Aerospace Corporation [Moderator]
Nick Combs	EMC Federal
Josh Haines	MIT Lincoln Labs
Daryl Hild	MITRE

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Agenda

5:30 Panelist Introductions and presentations [1:00]

6:30 Q&A with panelists [:30]

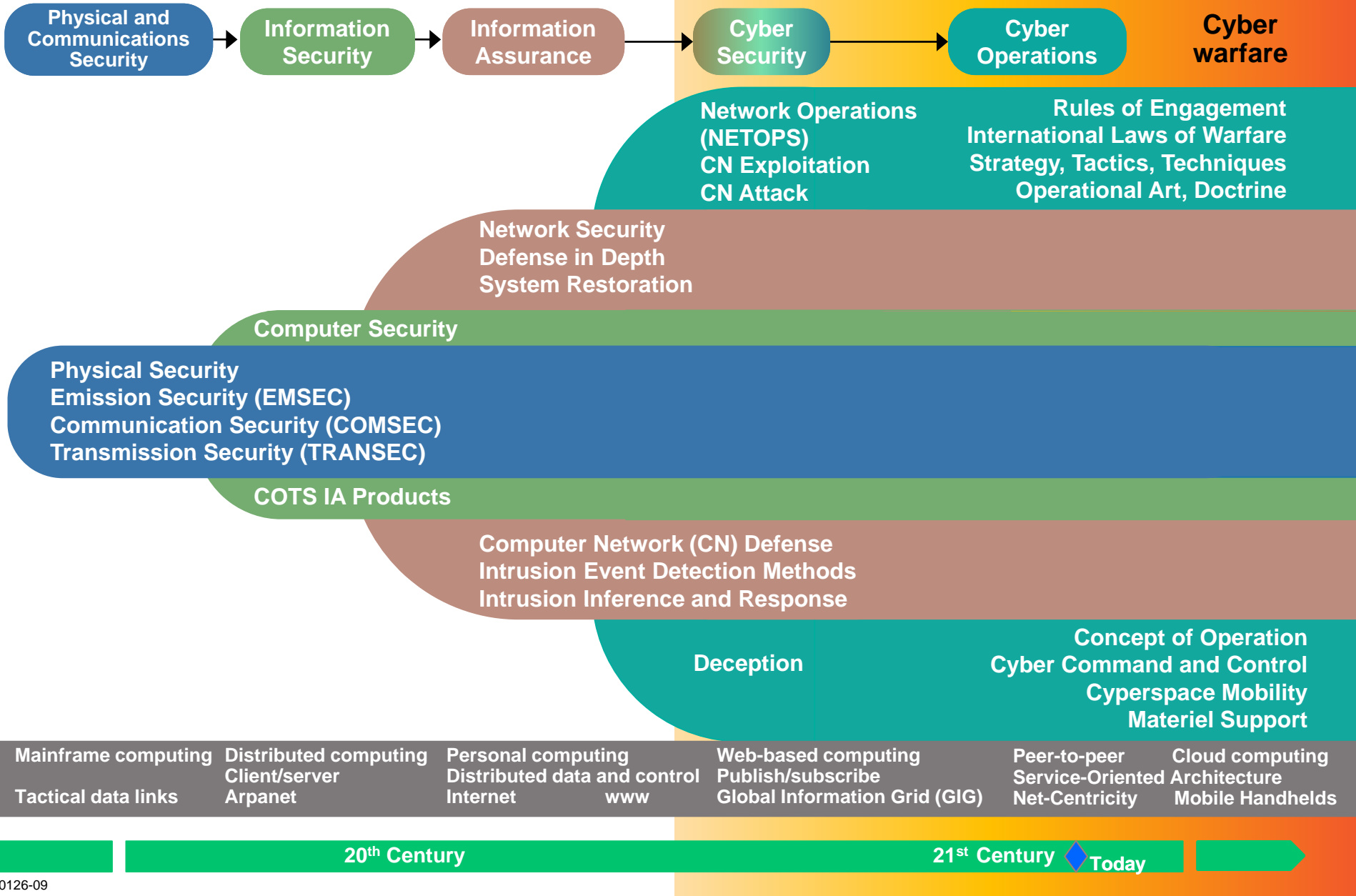
7:00 Break [:15]

7:15 Moderated discussion among all participants

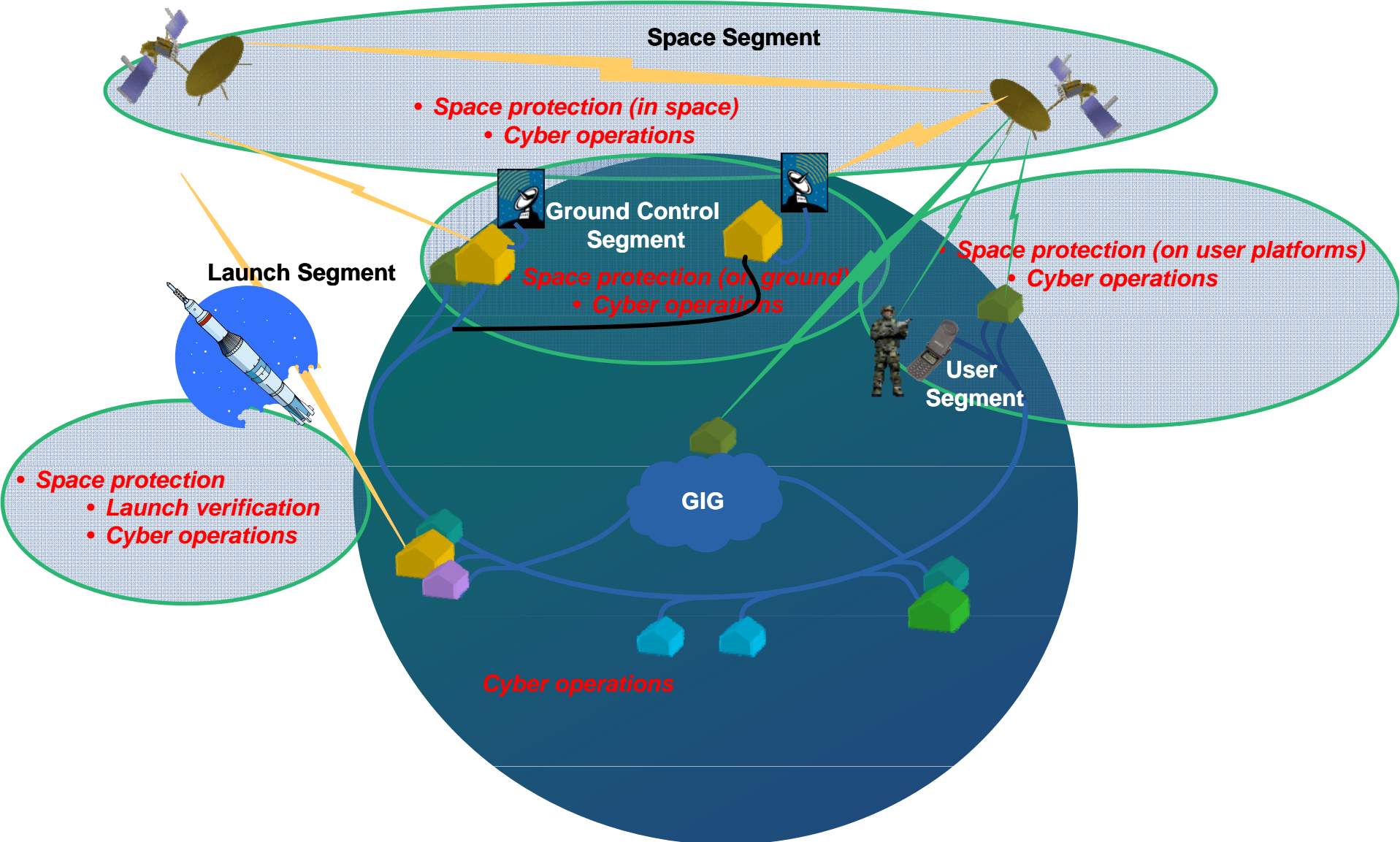
What is the Cyberspace Domain? Why do we care?

- **Cyberspace Domain: Interdependent distributed infrastructure of sensor, computer and network, hardware and software and transmission media that collects, carries, stores, transforms and uses information**
- **The Cyberspace Domain is essential to effect operations in land, maritime, air and space domains**
- **Mission success must be achieved even when under Cyber attack**
- **Asymmetric battlespace: advantage goes to the offense today and for the foreseeable future**
- **Achieving and maintaining supremacy in Cyberspace is very challenging**

Evolving to Cyberspace Operations



Space Cyber Spans All Space Segments



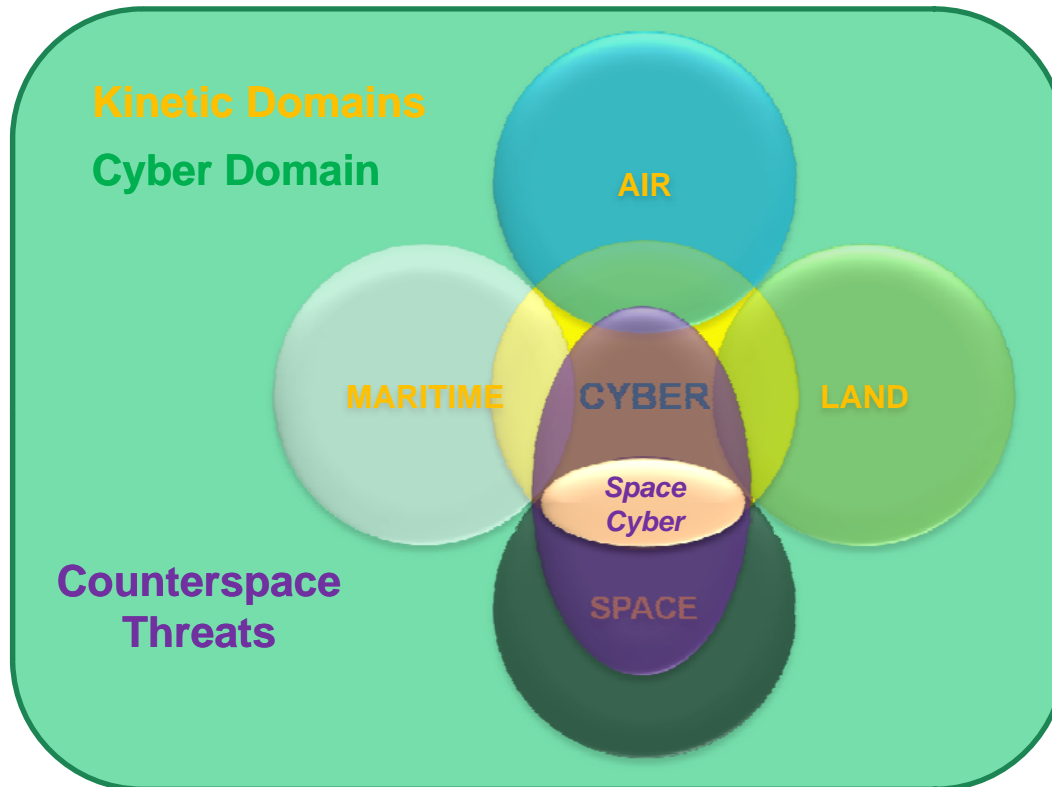
Speakers

- **Nick Combs, Chief Technology Officer, EMC Federal**
 - *Access Control & Security in Virtualized & Cloud Systems*
- **Josh Haines, Ass't Group Leader, MIT Lincoln Labs**
 - *Cyber Mission Survivability*
- **Daryl Hild, MITRE**
 - *Mission, Systems, Information, & Cyber Assurance*

Backup Charts



Space Cyber Emphasis



Traditional Domains are characterized by kinetic activity

Cyberspace Domain is embedded in traditional domains, but is characterized by “virtual activity”

Threats against NSS assets and information may involve any/all domains

Gen. Kehler: “...look at the intersection of Cyberspace and Space Domains”



Thank you