



What is Cyber?



NEW Joint Pub 3-12 (Cyberspace Operations) Definitions



- **Cyberspace Operations** - CO comprise the military, national, and ordinary business operations of DOD in and through cyberspace
- **DODIN Operations** - The DODIN operations mission includes operational actions taken to secure, configure, operate, extend, maintain, and sustain DOD cyberspace and to create and preserve the confidentiality, availability, and integrity of the DODIN.
- **Defensive Cyber Operations** - DCO missions are executed to defend the DODIN, or other cyberspace DOD cyberspace forces have been ordered to defend, from active threats in cyberspace.
- **Offensive Cyber Operations** - OCO are CO missions intended to project power in and through foreign cyberspace through actions taken in support of CCDR or national objectives.

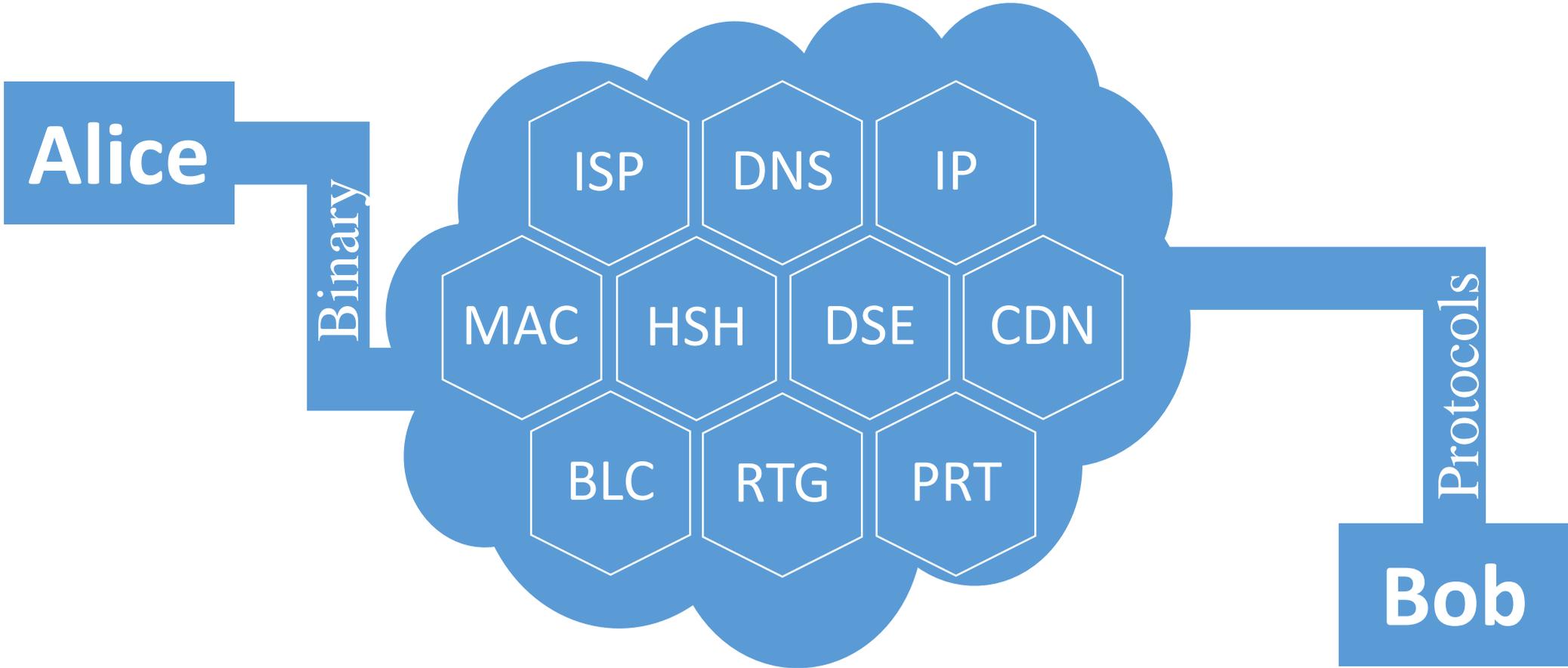


I say "Cyber," you think...



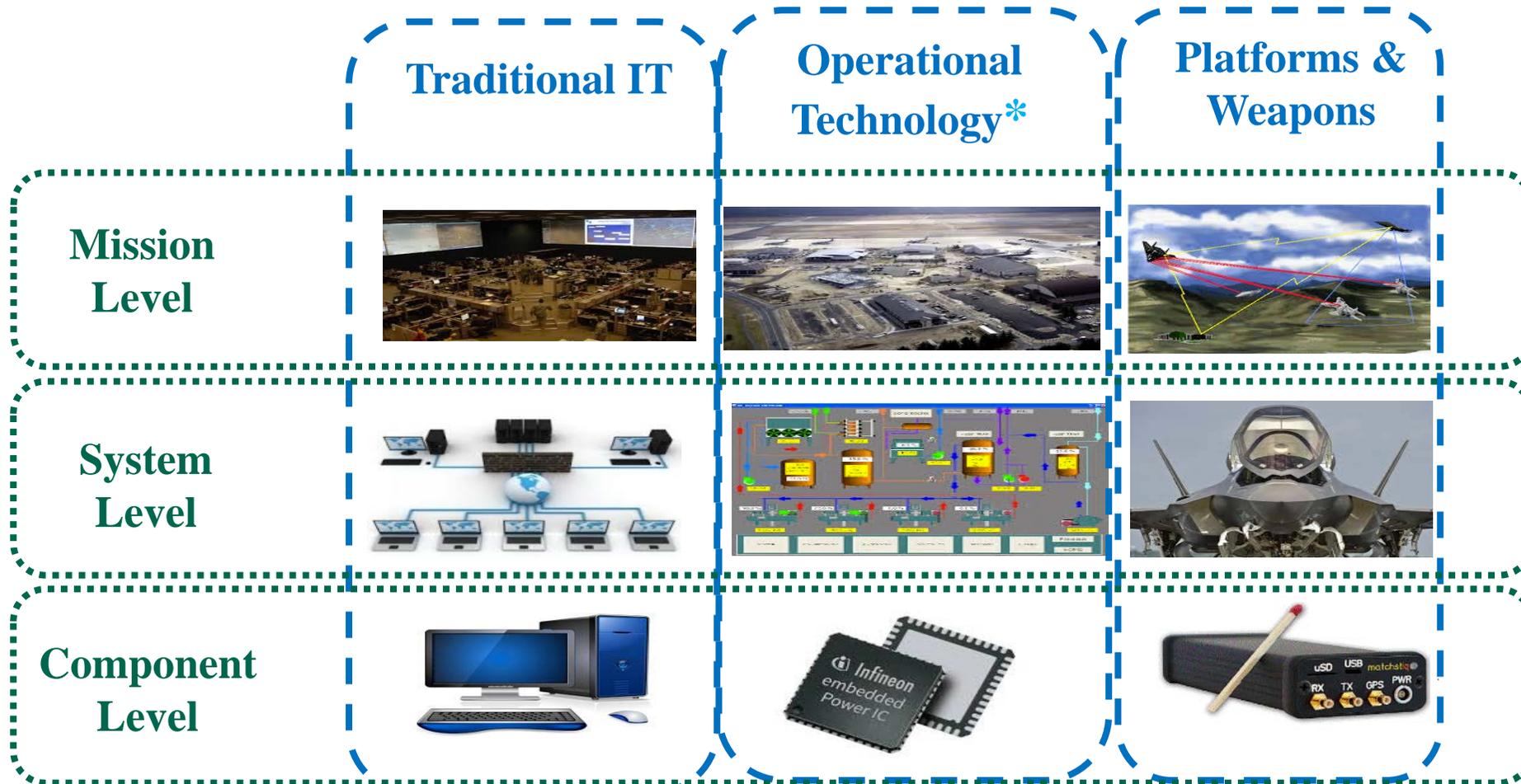


You say Cyber I think....





Information Technology (IT), Operational Technology (OT) and Platform IT (PIT)



**OT = Operational Technology – Computer controlled physical processes such as ICS (i.e. power, water) logistics (i.e. fuel systems) or other control systems (i.e. building automation, security alarms)*



IT, OT and PIT Explanations



- Information Technology (IT)
 - Consists of those devices and technologies used in traditional business activities such as word processing, email, data presentations and spreadsheet development
- Operational Technology
 - Consists of those systems, devices and software typically referred to as Industrial Control Systems (ICS) or Supervisory Control and Data Acquisition Systems (SCADA).
- Platform Information Technology
 - Consists of those systems, devices and software that execute air and space missions as independent segments of a network or as a connected piece of larger network.\



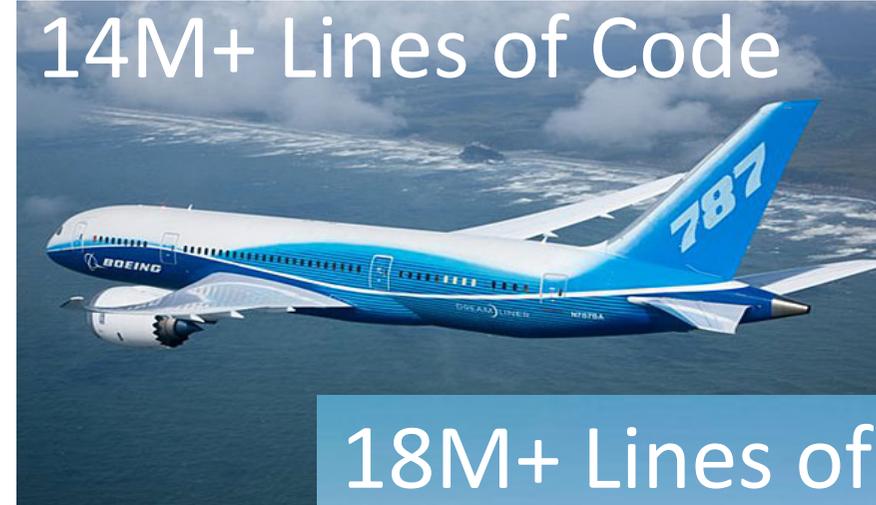
Platform IT



1M+ Lines of Code



14M+ Lines of Code



18M+ Lines of Code



9M+ Lines of Code



100M+ Lines of Code





Operational Technology



HVAC



BULK FUEL



SECURITY



CRAC



AIRFIELD LIGHTING



WATER



Activities in Cyberspace



Espionage, Crime, Disruption & War



Cyber Espionage: The act of securing information of a military or political nature that a competing nation holds secret.

Cyber Crime*: Any interference with the functioning of a computer system, with fraudulent or dishonest intent of procuring, without right, an economic benefit for oneself or for another person.

Cyber Disruption*: the serious hindering without right of the functioning of a computer system by inputting, transmitting, damaging, deleting, deteriorating, altering or suppressing computer data.

Cyber War: A political decision.





Clarifying the word Cyber-Attack



Cyber Attack

Cyber operation, whether offensive or defensive, that is reasonably **expected to cause injury or death to persons or damage or destruction to objects.**”

(Tallinn Manual)

This could include:

- Sabotage
- Widespread destruction
- Death to persons