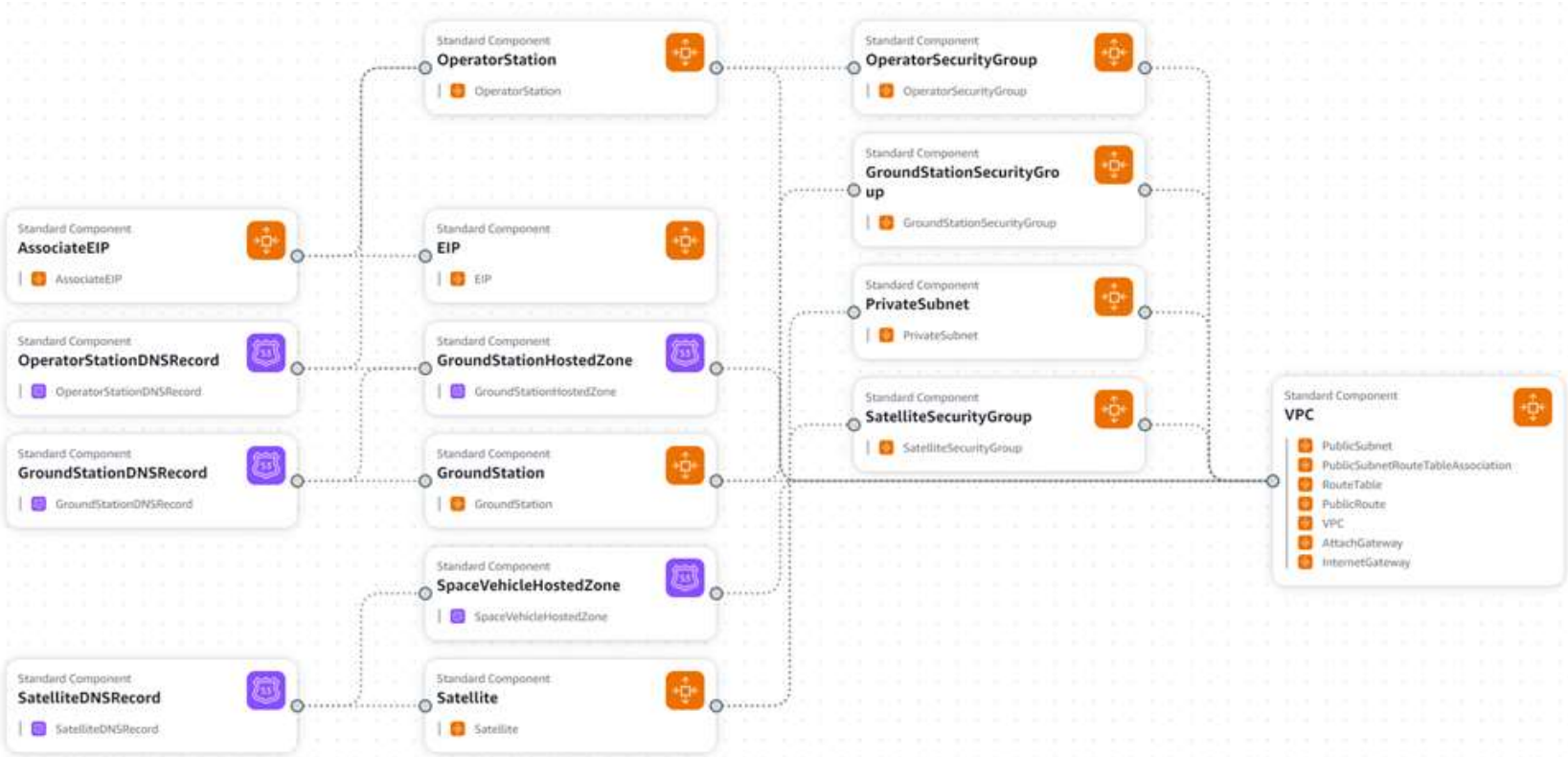
Lab Lecture One

Intro to NOS3 & Sat Ops

Infrastructure Diagram



- The NASA Operational Simulator for Small Satellites (NOS3) is a suite of tools developed by NASA's Katherine Johnson Independent Verification and Validation (IV&V) Facility to aid in areas such as software development, integration & test (I&T), mission operations/training, verification and validation (V&V), and software systems check-out. NOS3 provides a software development environment, a multi-target build system, an operator interface/ground station, dynamics and environment simulations, and software-based models of spacecraft hardware.
- This project is licensed under the NOSA (NASA Open Source Agreement) License.
- https://opensource.gsfc.nasa.gov/documents/NASA_Open_Source_Agreement_1.3.txt

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Canvas Credentials

- Satclass@finalfrontiersecurity.com / space_pirate11!!

- https://canvas.finalfrontiersecurity.com

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Regarding the lab…

- Why no Kali?
- Mantle of insider access necessary whether insider threat or APT
- Adds complexity
- Nothing space specific
- Surely would be incorporated for red team or longer classes or a true range / lab scenario

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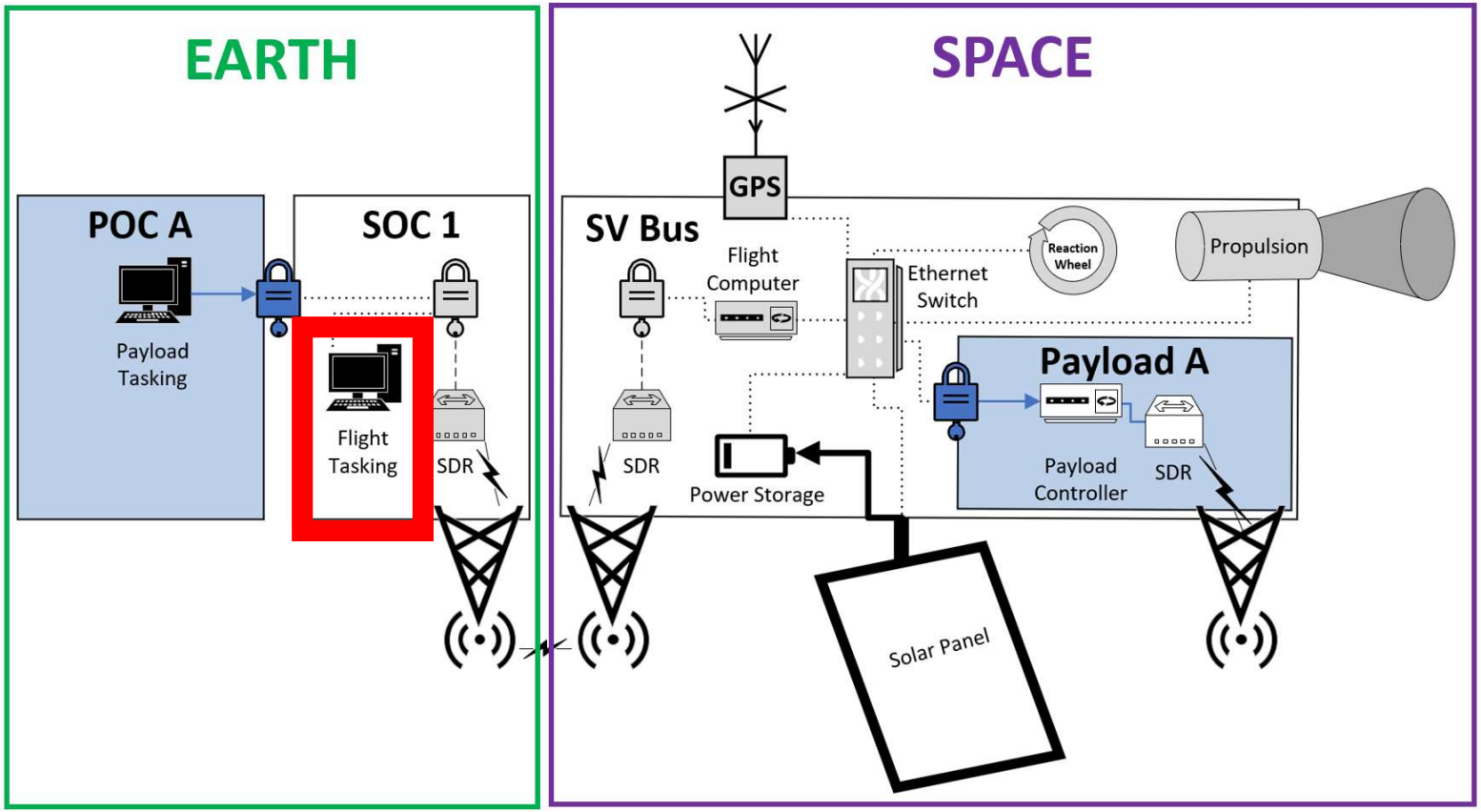
Lab component reference: COSMOS



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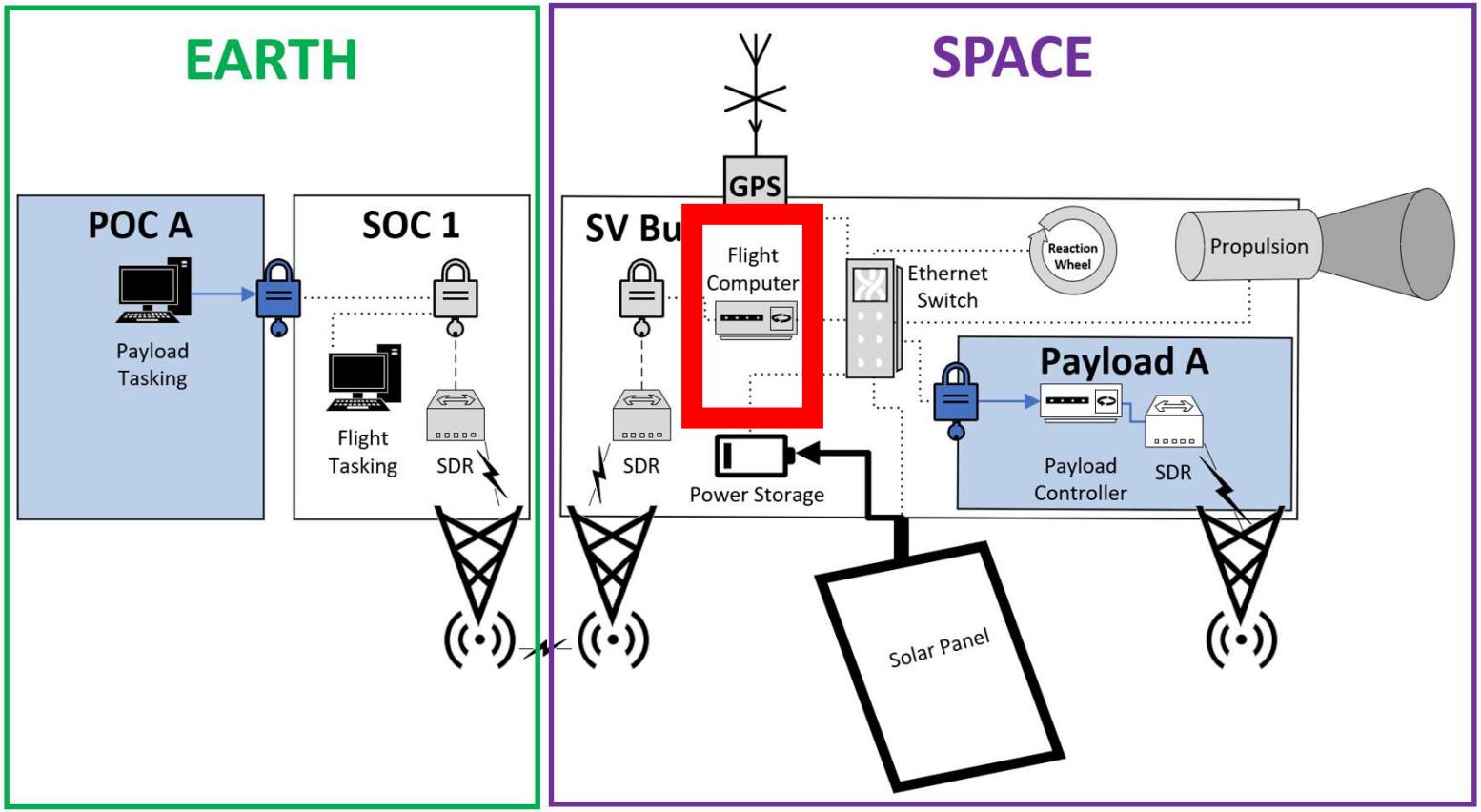
Lab component reference: Telemetry source for 42



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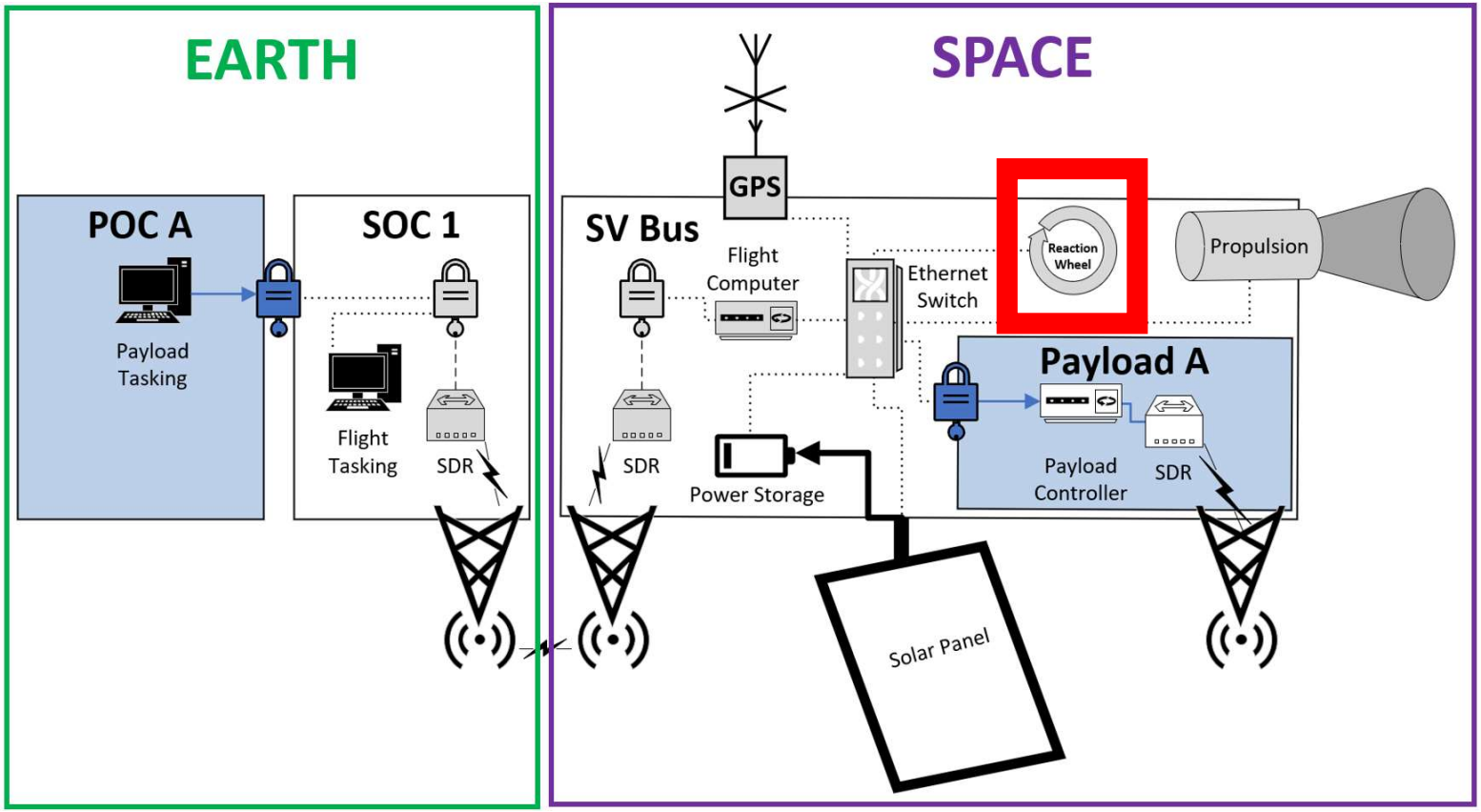
Lab component reference: Target Device



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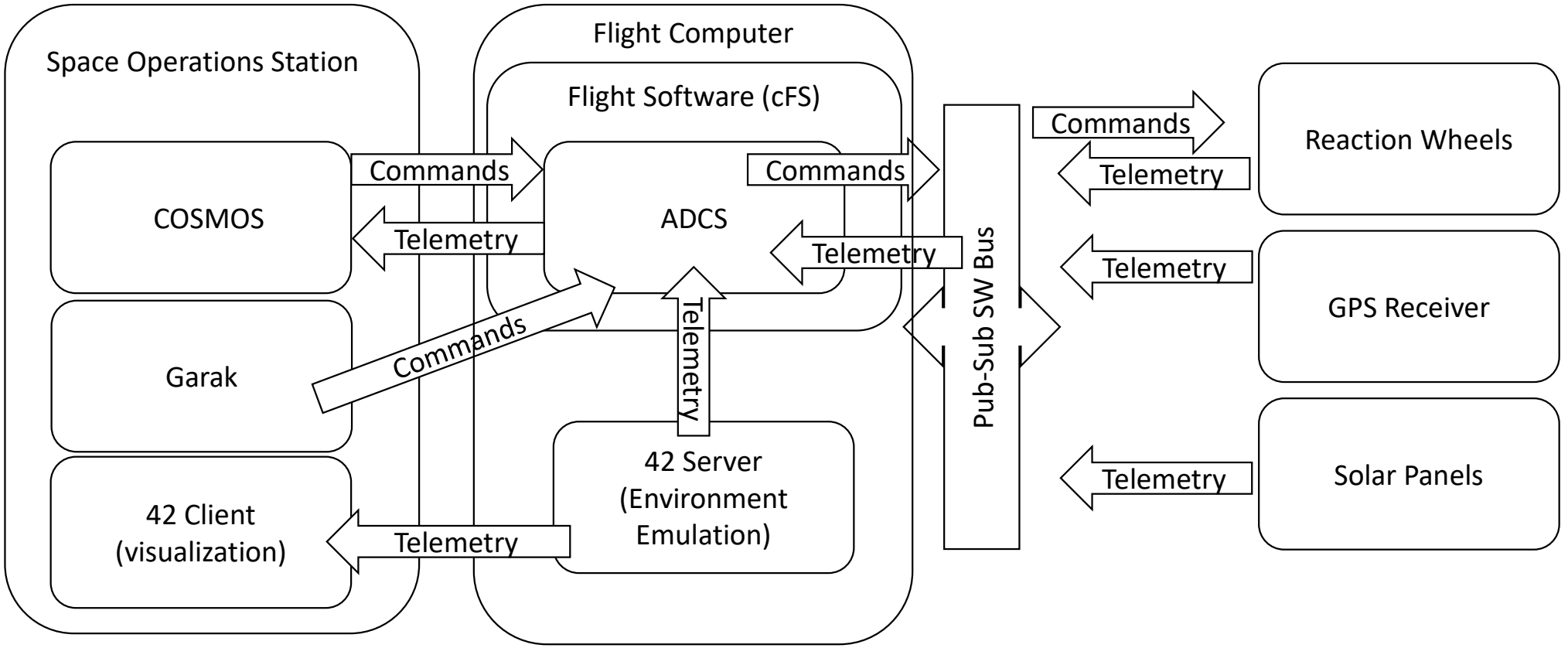

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Following students please refresh the table and grab your new IP

- Students:
- 27
- 38
- 39
- 40
- 41
- 42
- 43
- 45

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