



SST Implementation Teams

POIWG

January 2016

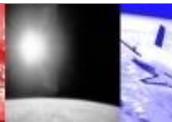
Katie Presson



Special Study Team Original Direction

- ◆ Evaluate and recommend options for managing an **average of 68.5 crew hours per week** for a 6 month planning period; 25 hours minimum per week; 100 hours maximum per week.
- ◆ Enhance operations for Investigators
- ◆ Identify roadblocks that prohibit operational paradigm shifts
- ◆ Evaluate processes, tools, training (**focus on WLP through execution**)
- ◆ Generally, current crew scheduling constraints remain intact

GOAL: Provide the right level of support for the PD in all phases of operations with increased flexibility to maximize science.



POIF Goals

- ◆ Increase operational efficiency for both POIC and PD's (operations flexibility for customer)
- ◆ Maintain capability to replan the current day to maximize research
- ◆ Proactive execution of timeline with increased payload throughput –support complex, parallel operations
- ◆ Agile response to change and anomalies to better meet customer's needs – support next worse case failure for time critical/complex/high priority payloads

GOAL: Provide the right level of support for the PD in all phases of operations with increased flexibility to maximize science.



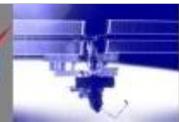
PCA-1 Assumptions

- ◆ Main focus areas
 - ◆ Training
 - ◆ Tools
 - ◆ Strategically adding positions/people
 - ◆ Task analysis – are tasks required?
- ◆ PCA-1 will focus on execution of the timeline
 - ◆ Some of the replanning and timeline/product reviews will shift to another room
 - ◆ Ensure good handover of information from planning teams to execution team



Ace Team

- ◆ Ace is a new POIC flight controller position with in-depth knowledge of the payload hardware, operations concepts, science objectives
- ◆ Assigned to partner with a some new payload teams and/or critical/complex/high priority payloads
- ◆ Consistent interface assist/guide the PD through operations product development, and during real time operations
- ◆ Ace does not eliminate requirement for PD real-time support



PREP/Back Room Assumptions

- ◆ Goal is to have a final plan at E-1 to hand over to the front room
 - ◆ PREP team manages plan from E-7 until E-1 and then hands over to realtime team
- ◆ Handover information will be enhanced to meet needs of new concept
- ◆ Additional plan review involvement from experts (Ace, SME, and Payload Developers)
- ◆ Backrooms will formally review plans earlier than E-7 in the WLP timeframe to catch major disconnects



Testing Task

- ◆ Testing these new concepts will be incremental, credible and coordinated with stakeholders.
 - ◆ Define pass criteria for each change/group of changes based on goal of change
 - ◆ Stakeholder participation (Program, FOD, IPs, PDs, each where applicable)
- ◆ Groups of changes will be tested incrementally
 - ◆ Changes Identified/Changes Pre-Coordinated with affected Parties
 - ◆ Presented at PLOT along with Testing Criteria & Evaluation Plan. Test start date set.
 - ◆ Changes will go to GJOP as required



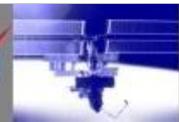
★ First Set of Changes that Affect Payloads

- ◆ Two PRO loops - PRO2 loop will be used to coordinate operations located in IP modules and externals. PRO may ask you to add PRO2 loop to your display and use that loop to coordinate with PRO.
 - ◆ For JAXA and ESA, we have replaced your PRO loop with PRO2. It will still show up at PRO loop so no impact.
- ◆ Paycom will send crew notes to Payloads (instead of OC)
- ◆ PRO and DMC will show status POIC and Payload commanding active and complete in OPTIMIS viewer
- ◆ There are a few other changes but they do not affect wide number of users so we will coordinate those changes directly with affected payloads



Take-Aways

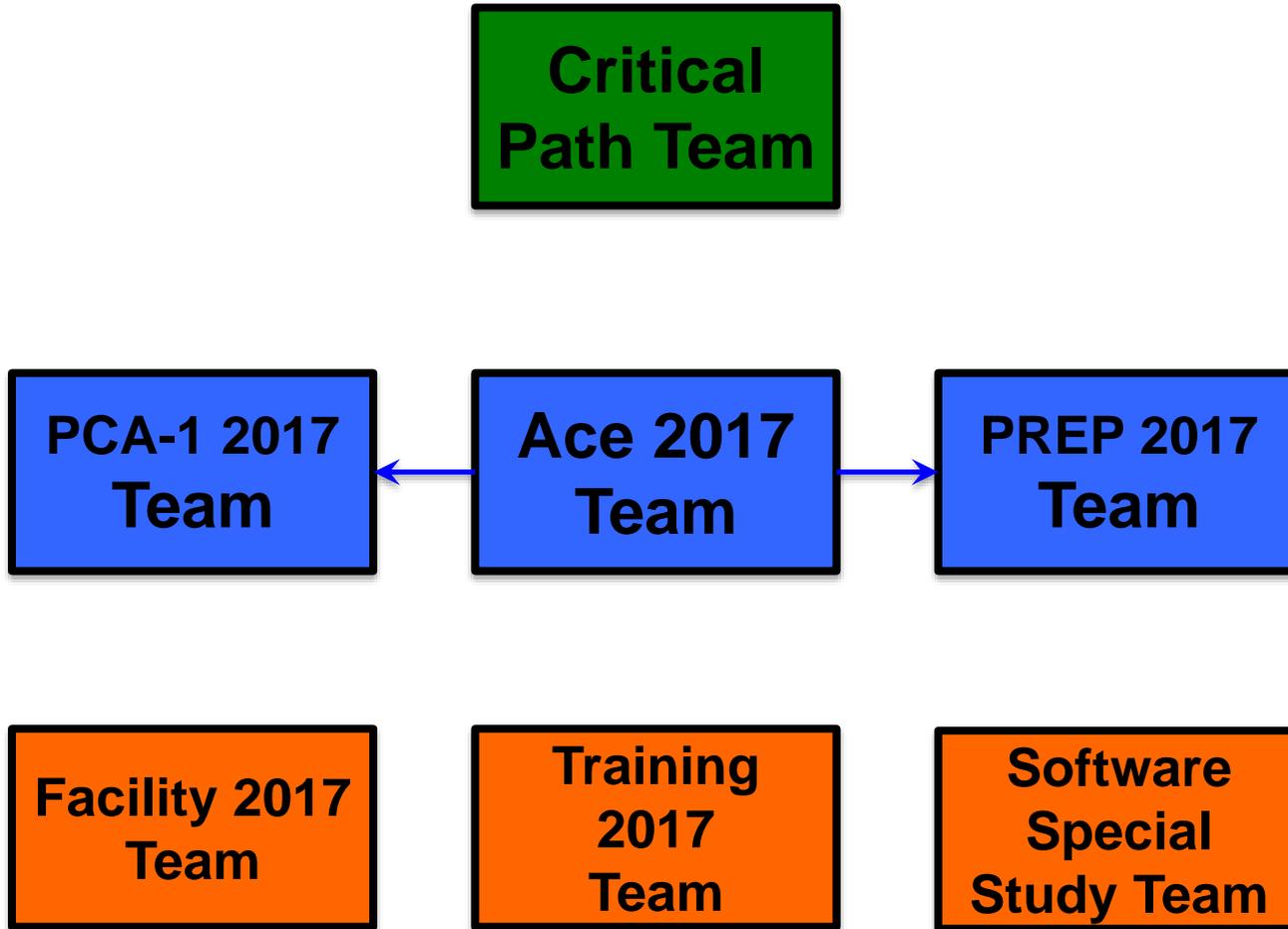
- ◆ There's a plan for payload operations to ramp up to the program goal of 68.5 hours per week and beyond
- ◆ Progress is real and is on-going
- ◆ Will update/status Program/FOD/Payloads regularly
- ◆ RISE processes will be incorporated as they are developed.
- ◆ **Will request Payload Developer feedback along the way via various methods**
 - ◆ **Goal is to make your life easier and not more difficult. If we are missing the mark ,we need to know.**
- ◆ Expect more details on positions, concepts, and realtime tests at POIWG Summer 2016



Backups

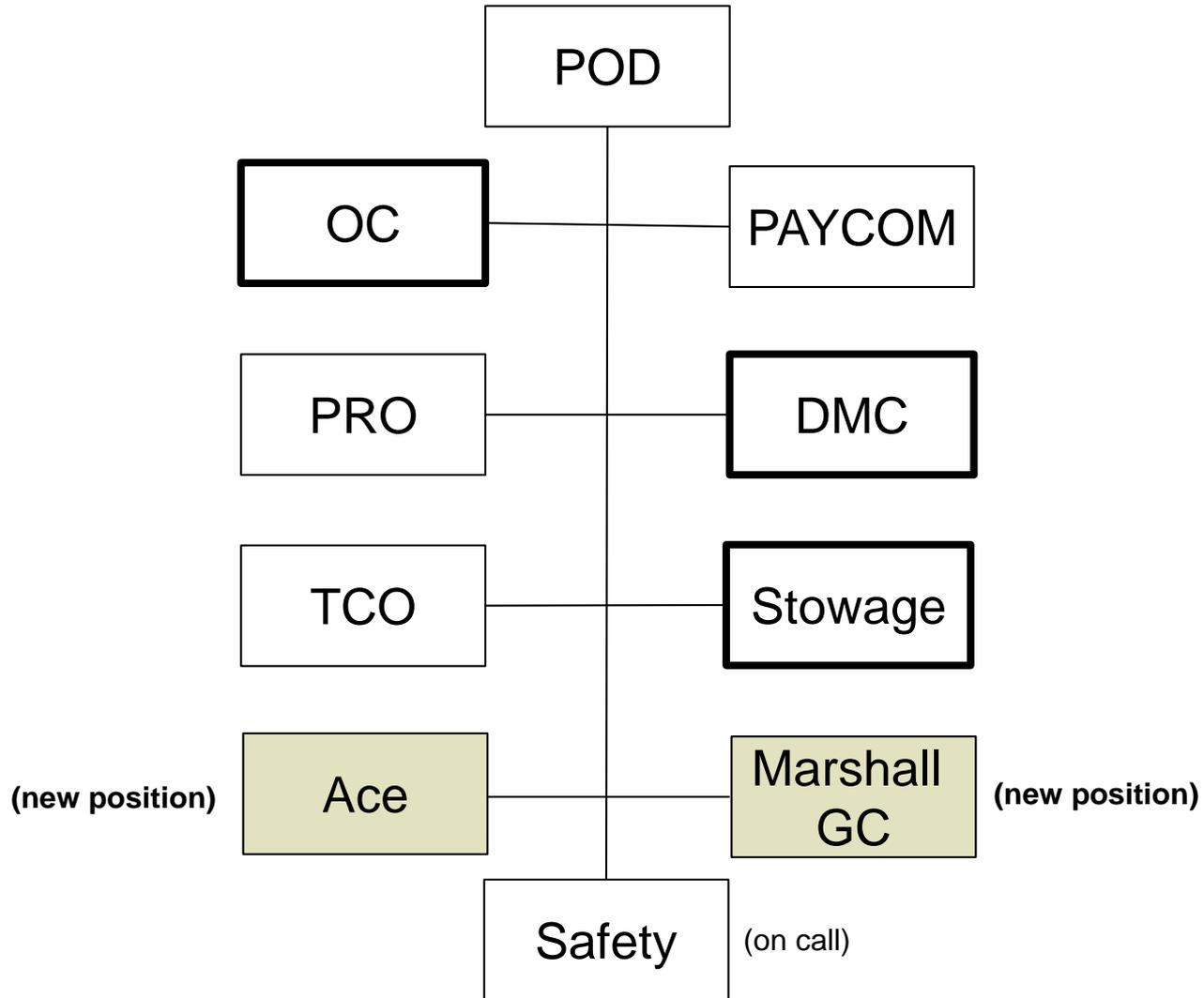


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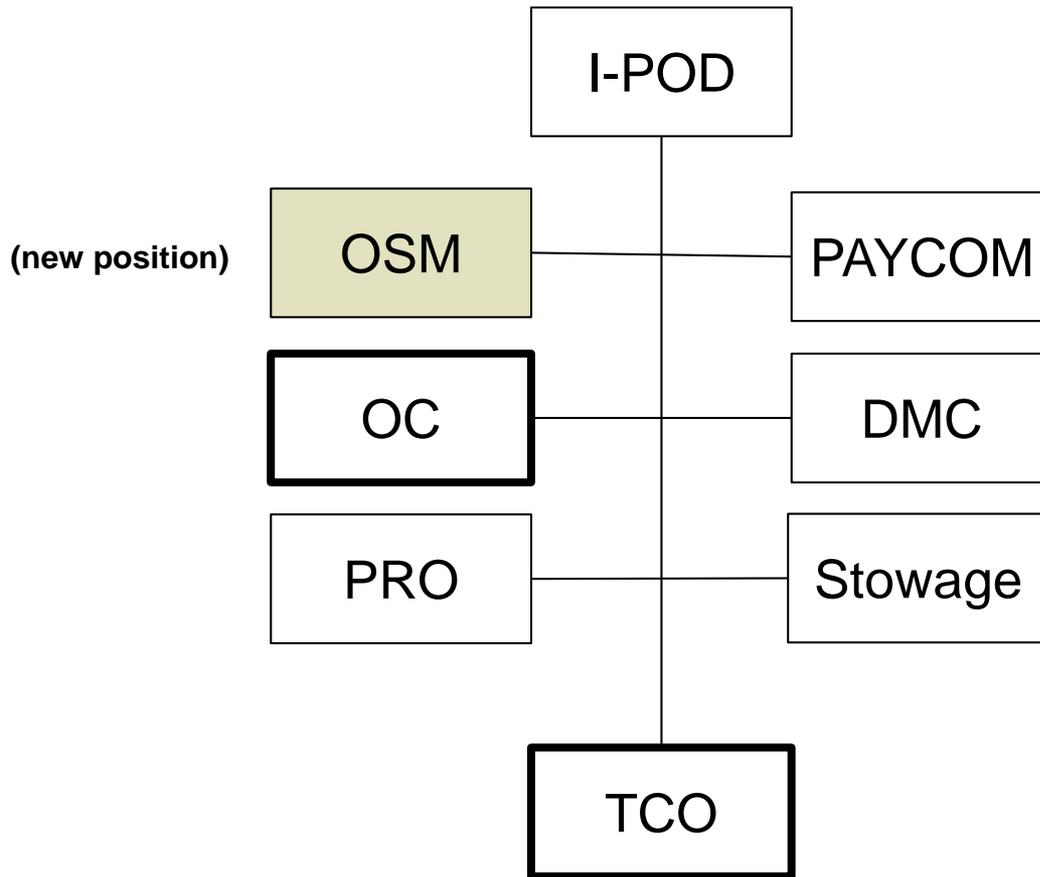
2017 POIC Front Room



Note: Bold boxes indicate increases from today's staffing

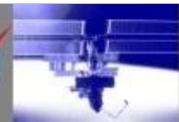


2017 POIC PREP Team

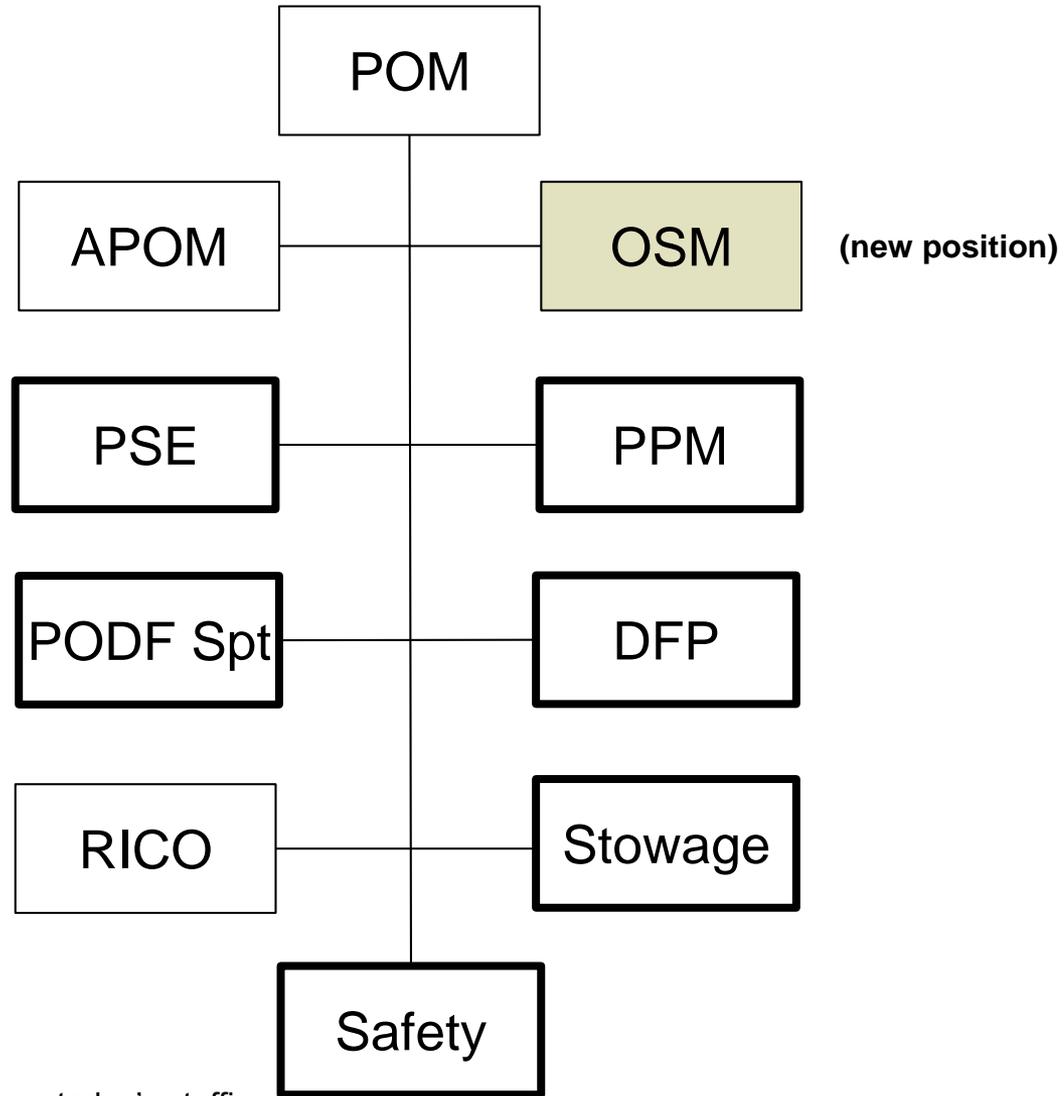


Notes: Bold boxes indicate increases from today's staffing

PREP team keeps the timeline until the end of Orbit-2 shift on E-1



2017 POIC Back Rooms



Note: Bold boxes indicate increases from today's staffing

