



Status: **“Define input and output data rates for the External Wireless Network and define the management of those data rates.”**

Project Title: EWC  
Presenter:  
Chatwin Lansdowne

Date: 7/15

- Work in Progress
  - EWC Network Load Projection
    - Multi-user performance interaction test completed recently, analysis in progress for traffic model
    - Hidden Node issue is being addressed by protocol requirements changes; one existing user may now require a lightly loaded network
    - Preliminary EWC Network load projection is being developed
  - EWC System expansion planning
    - US Lab Nadir coverage antennas (Orb4 launch)
    - 802.11ac COTS WAPs/clients (approved; selection in progress, inventory in 1Q16)
    - Early expansion candidates: 802.11n coverage from Node 3 location, or EHDC camera locations (unapproved)
    - Long-term expansion “100% coverage” (unapproved)
- Future Work-flow
  - EWC commitments to payloads will be managed through the EWC SPRT, which includes representation from ISS program, Operations, and Engineering
  - EWC network traffic management within capacity will require real-time coordination of payload schedules

