



# draft-ietf-6tisch-6top-protocol

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# Status

- Last Update: 27 June 2017
- Version: 07
- Status: Very stable draft.
- Implementations exist
- Interoperability tests at the ETSI Plugtest
- Next
  - WGLC ?

# Minor Changes

- Reviewed return codes;
  - Inverting NORES and BUSY error codes for concurrent transactions.
  - Changing error code from RESET to CELLLIST\_ERR when deleting unscheduled cells.
  - Adding missing implementations.
- Received and addressed WG reviewers comments:
  - Jonathan Munoz
  - Charlie Perkins
- Since last IETF meeting:
  - Reordered sections. Merged protocol behavior and command description
  - Renamed STATUS to COUNT
  - Written-out IANA section

# Plugtest Outcome

- 6P ADD
  - Always returns SUCCESS.
  - Cell List Size tells if success, partial success or failure to add
  - Proposed Change:
    - Use return code SUCCESS when fully or partially allocated
      - List will tell if total or partial
    - Use NO\_RES code as a return code if none of the cells could be allocated.

# Plugtest Outcome

- Correcting GEN errors without CLEAR.
  - Problem: CLEAR is costly and GEN error comes from previous transaction.
  - Before CLEAR we can do some things which require some small change:
  - Proposal:
    - In LIST and COUNT operations.
      - Do GEN checking
      - BUT also return the results of the operation.
    - Add text in 4.4.7.3 (see next slide)

# Plugtest Outcome

When a schedule generation inconsistency is detected:

- o If the code of the 6P Request is different from CLEAR, the node MUST reply with error code GEN\_ERR.
- o If the code of the 6P Request is COUNT or LIST, the node MUST execute the operations and return the requested values. This can be used by the SF to correct the inconsistency.
- o If the code of the 6P Request is CLEAR, the schedule generation inconsistency MUST be ignored.

# Next Steps

- Clarify use of IETF IE together with 6top Information Element
- Resolve Plugtest outcome
- WGLC?