

October 16, 2025 maintainers meeting minutes

Minutes taken by Peter Barnes

Agenda

- Agenda/notes: <https://www.nsnam.org/wiki/MaintainersOct2025>
- Units
- ICNS3

Attendees

- Peter Barnes
- Gabriel Ferreira
- Shashwat Patni
- Stefano Avallone
- Tom Henderson
- Tommaso Pecorella
- Mohit Tahliliani

ICNS3

- TH
 - Need local organizer, to take on Alberto's job
 - Need TPC co-chair, to work with TP
 - Timing worked well, 3rd week of August
 - In Belgium would need an experienced person to work closely with local organizers
 - If hosted by one of us the issues/work already known
- TP: create list of candidate venues, organizers
 - Naples, Belgium.
 - Canada?
 - Definitely need TPC co-chair
 - Need venue organizer with experience, to work with local
- PB: once a year is valuable for the community
 - Every two years seems very long
 - TP: agree
- MT: agree on yearly
 - Seemed to have more interest this year: moving to Aug? changing name to "conference" (from "workshop") seems to have helped
 - Start planning 2027 *before* 2026, at least as far as selecting venue/host
 - So we can announce 2027 at end of 2026 meeting
 - So start working on venue for both years now

Units

- Two proposals
 - Jiwoong: https://gitlab.com/nsnam/ns-3-dev/-/merge_requests/1887
 - TH, nholtas/units: https://gitlab.com/nsnam/ns-3-dev/-/merge_requests/2085
- TH slides: <https://www.nsnam.org/wp-content/uploads/2025/maintainers-101625.pdf>
- Choice of library
 - SA: Jiwoong probably willing to share his ongoing development
 - TH: reluctant to take on maintenance and testing of a new private library, rather use something already in use externally
 - TP: concern about external library churn, forcing us to catch up.
 - TH: regarding maintenance, burden will be on all of us, no matter which we choose. It's going to permeate code-base.
- Converting power in wifi
 - Tedious, AI coding agents were not very helpful, made lots of mistakes
 - Next steps:
 - Remove some extraneous `.toDouble()`
 - Remove some extra casts in conversions (some `WToDbm()` and `DbmToW()` conversions can occur implicitly, without needing casts)
 - Port frequency quantities
 - Energy (current, power)
 - Mesh will need updating immediately
- SA: both approaches look viable
 - Keep pushing ahead, to enable a decision soon
- TH: definitely think strong types will be helpful. Also eager to make a decision and keep pushing forward.

Any other business

- PB: doxygen updates
 - Please look at these for correctness
 - [doc: doxy: \(fixes #1023\)](#) Fix various errors, reduce the maximum number of nodes in Doxygen-generated graphs
 - 2nd to last commit in https://gitlab.com/nsnam/ns-3-dev/-/merge_requests/2586/diffs?commit_id=08d664a5db67d315b7c1834057fad66dcb0797f4
 - (Last commit will *not* be merged, it's useful to find what other doxy is missing. See the MR discussion)
 - Noisy clocks
 - Not quite the integration I envisioned
 - Willing to go ahead with what's proposed, circle back later to make local clocks easier to use

- TP: Would like to prioritize getting some help (from Stefano?) to fix #1132 (NS_OBJECT_TEMPLATE_CLASS_DEFINE doesn't play nice with namespaces) and #1260 (Address comparisons)
- SP: MR !2434 on print routing tables needs some resolution on the output format
- MT: may need Stefano's assistance with some upcoming changes to Wi-Fi examples; particularly Wi-Fi TCP example