2020-09-25 ns-3 Developer Meeting

Status Updates

SPI membership

- 14 maintainers approved applying
- TomH applied
- Will be considered at SPI Board 12 Oct 2020
- Goals
    - More flexible management of funds
    - Legal advice: GPL, trademarks
- Contributors to ns-3 will be eligible to join SPI as contributing member, participate in government

NSF Project

- Awarded to UW and GT
    - Returning members
        - Brian Swenson, GTRI
        - Jared Ivey, GTRI
    - Last award ns-3 can apply for in this program
- Scalable wireless simulation
    - Coordinate with S3, SNL
- Outreach
- mmWave backhaul
- Looking for staff
    - Must be conducted in the US
    - Exchange, UW, GT

Workshop Reports

- NSF Wireless
- SIGCOM
    - Courseware
    - ns-3 needs to develop better course materials
- Broader wireless interest than we've been aware of in the past
    - NetMap, DPDK
    - Augment Powder testbed

GCI

- Google not holding GCI this year
- Not clear why

WNS3 2021

- Virtual again, June 2021
- TPC Co-Chairs: Michele Polese and Stefano Avallone

ns-3 Consortium

- Met over summer
- Attempt to be more active, working groups
    - Develop (short) training videos, YouTube and Vimeo
    - Validation, data sheets on specific technologies
    - Education materials

IETF hackathon

- Growing usage of ns-3 within IETF
- Virtual Hackathon, 2020-11-09 though -13
    - Needs a champion with an idea, gather participants

Vendor/Industry Activity

Agenda

Time	Topic / Presenter
	- various status updates - close out any ns-3.32 lingering items - possible ns-3.33 release in November? - IETF hackathon November 9-13 - lingering technical or admin issues (e.g. whitespace cleanup)

Attendees

- Stefano Avallone
- Peter Barnes
- Biljana Bojovic
- Matteo Drago
- Tom Henderson
- Mattia Lecci
- Davide Magrin
- Natale Patriciello
- Rediet
- Tommaso Pecorella
- Mohit Tahiliani
- Tommaso Zugno

Documents and Links

- nsnam wiki page

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Action Items

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- Scala Computing
- Raytheon/BBN integration of ns-3 with GnuRadio: Networked GnuRadio

ns-3 Releases

ns-3.32

- All merge requests are tagged ns-3.32
- Time::As() exposing limitations in int64x64_t printing: doesn't respect stream flags
    - End goal is to respect the stream flags, primarily `floatfield` and `precision`
    - Tommaso has a partial patch for `floatfield = float`
- NS_DEPRECATED
    - Currently breaks the build, because of `-Wall`
    - Wifi helper refactoring will make this very noticeable
    - Should we allow deprecated as warning only, not error?
        - No, but make sure the error message explains how to reconfigure
    - Post ns-3.32 release
        - Reconsider being more liberal for release builds
- Planning to close release next week

ns-3.33

- Mid November?
    - Merge window in October
    - Close and announce at IETF meeting
- Topics
    - TCP Cubic
    - L4S components
    - Table-based WiFi error models
    - Other WiFi
    - Serialize PacketTag
        - If we can resolve open threads today, Tom will accept merge for ns-3.32
    - Finish GSOC merges
- Keep plans for a release in January

Lingering Issues

- Whitespace cleanup
    - Agreed to do this
    - Need a champion to develop maintenance plan
    - Resolve on list
- Structured logging
    - Tom would like decision for ns-3.33 release
- Please propose and schedule topical meetings as needed