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# NX – the new waveform for 5G hype(r) technology

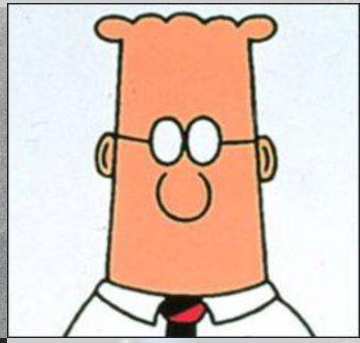
# Before we start (Dish)

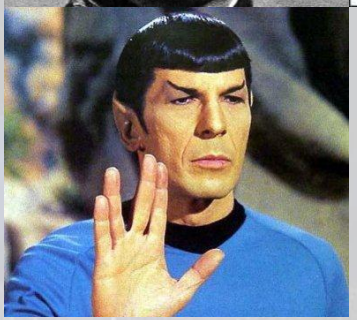
- The original scope of 3GPP in 1998 was to produce Technical Specifications for a 3G mobile system
- The scope has evolved but the name remains, should we change it to 5GPP or 10GPP?
- Or should it be renamed to something futuristic, timeless and limitless?

**NX-GPP!**

# 5GNX.COM

- For profit collaborative organization to promote NX technology
- Personnel
  - 5G general
  - Scientific advisor
  - Experienced standardization delegate
  - Contributions from several technical experts and researchers





We are always hiring!

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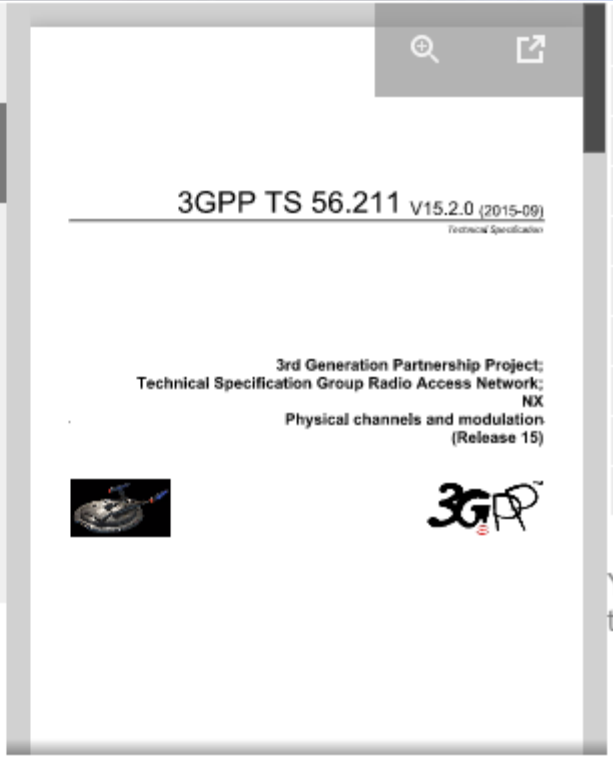
- 5GNX
- **Specifications**
- People
- Meetings
- Press
- News




| Version | Date | Notes |
|---|---|---|
| 15.2.0 | 2015-08-27 | |
| 15.1.0 | 2015-08-26 | |
| 15.0.0 | 2015-08-25 | |
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You can propose a CR to the specification by sending an email to change-requests@5gnx.com

| Cr no. | Rev. | Cat. | Rel. | Title | Source |
|---|---|---|---|---|---|
| 1 | - | F | Rel-15 | Correction of ultra-lean transmission | 5GNX.COM |

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# NX phasing

- Phased approach to NX deployment
- Phase 0
  - Hype(r)-lean carrier
  - Hype(r)-forward compatibility
  - Without-Software Defined hype(r) NW
- Later phases (1, 2, 3)
  - Full and enhanced 5G functionality

# Phase 0 availability

- 5GNX.com offers phase 0 compliant technology for immediate availability
- Solutions for both
  - network deployment
  - end-user terminals

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# Hype(r)-lean carrier

- extremely high energy efficiency for both networks and terminals
  - up to 100% of the energy cost of the network equipment
  - support for infinite terminal battery life time
- significant reduction of interference
  - eliminating up to 100% of the interference created by 5G NX technology.

# Hype(r)-forward compatibility

- Allows deployment of any future technology without impacting existing NX deployments.
- Allows operators and end-users to retain their existing equipment also for when further major technology innovations (such as “6G”) are deployed.

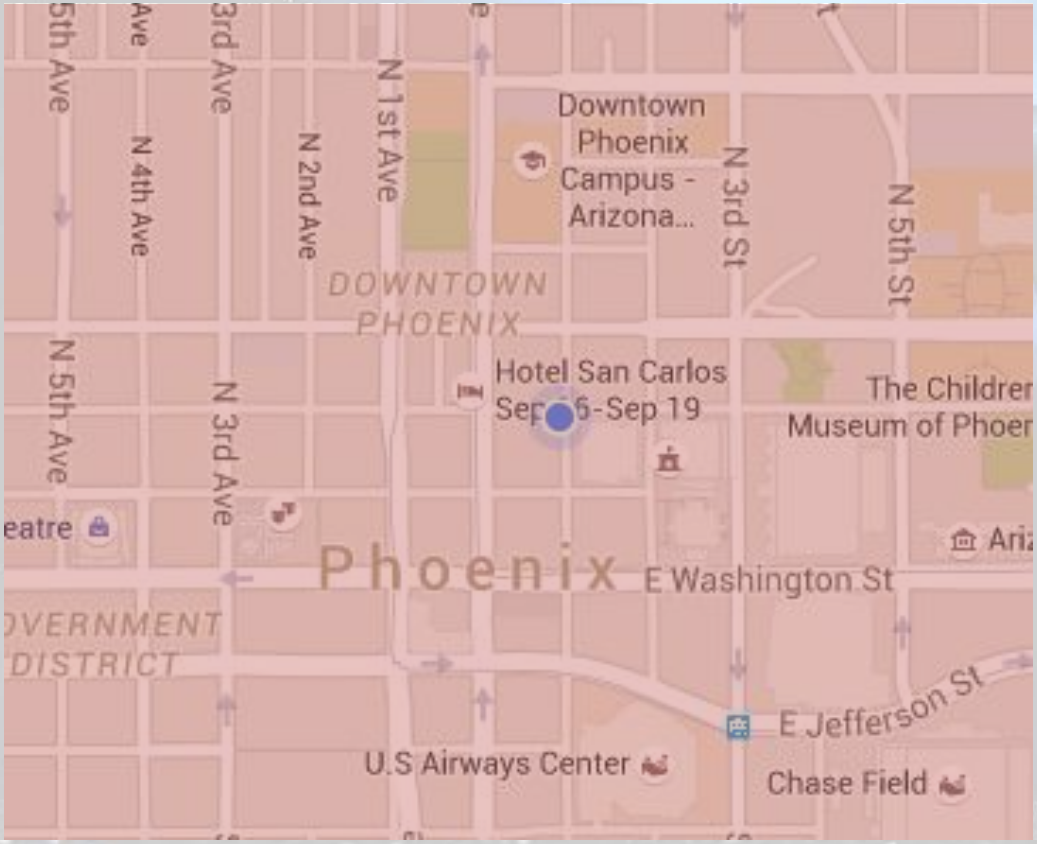
# Without-Software Defined hype(r) NW

- Legacy technology like NFV and SDN need to be evolved
- WSDN has proved very efficient for developers
  - Hyper-quick time to market
  - Hyper low code size and code complexity
  - Good for hype(r) low cost devices
  - Minimization of bugs

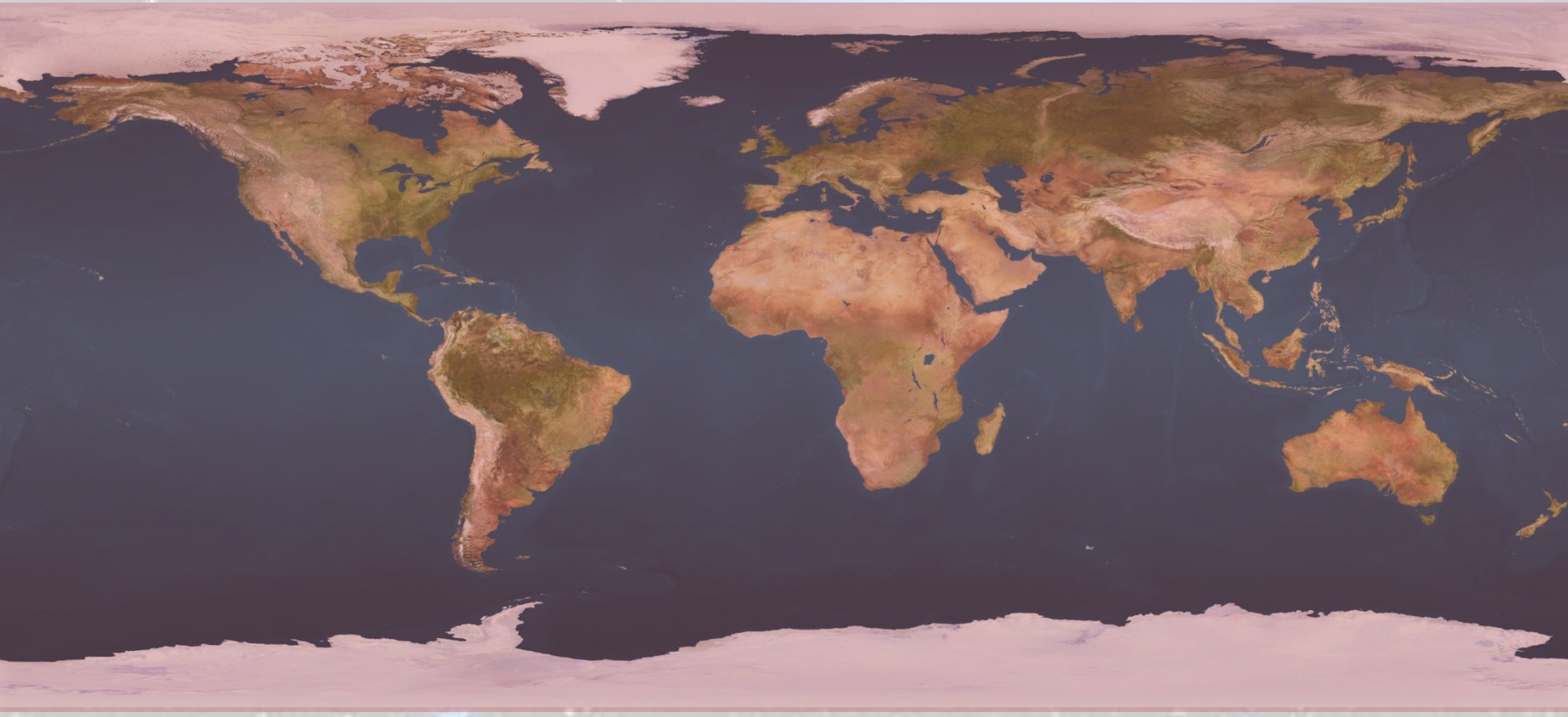
# Trials

- Small scale unversal trials conducted, testing the phase 0 technology operation

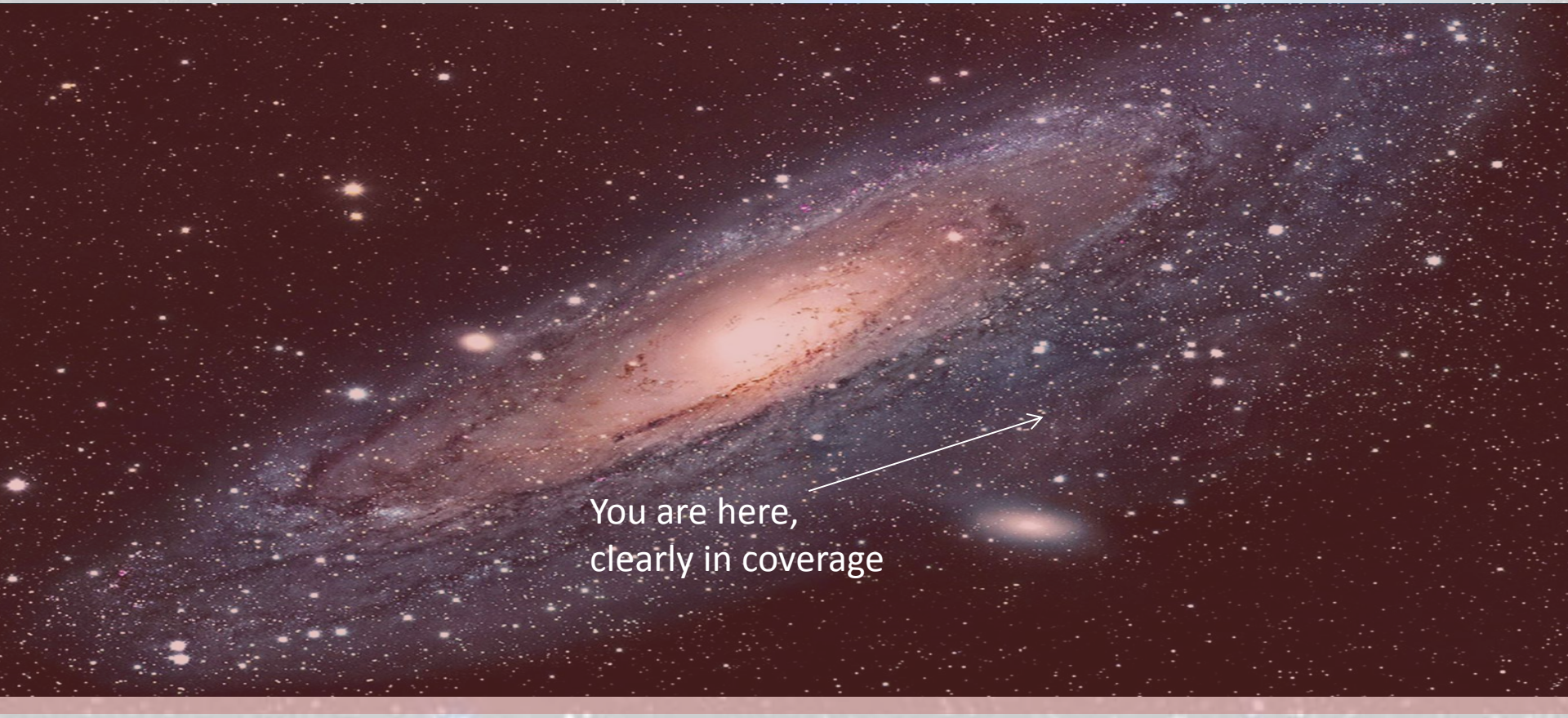
# Local coverage



# Global coverage



# Universal coverage



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# THANK YOU!