

**IETF – INTAREA WG**

<https://datatracker.ietf.org/doc/draft-jia-intarea-scenarios-problems-addressing/>

# **Challenging Scenarios and Problems in Internet Addressing**

**IETF 110 – Online**

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# Context of this Draft

- **Internet Addressing** is the core method to direct packets within the global Internet communication system
- However, large parts of the overall communication system occur in **limited domains** (RFC 8799)
- Within those limited domains, requirements, node behaviors, address semantics, and packet forwarding may be significantly different from the Internet addressing paradigm
- This often requires **additional adaptation technologies** to realize the distinguishing requirements of the specific scenarios

# Objective of this Draft

## Particularly:

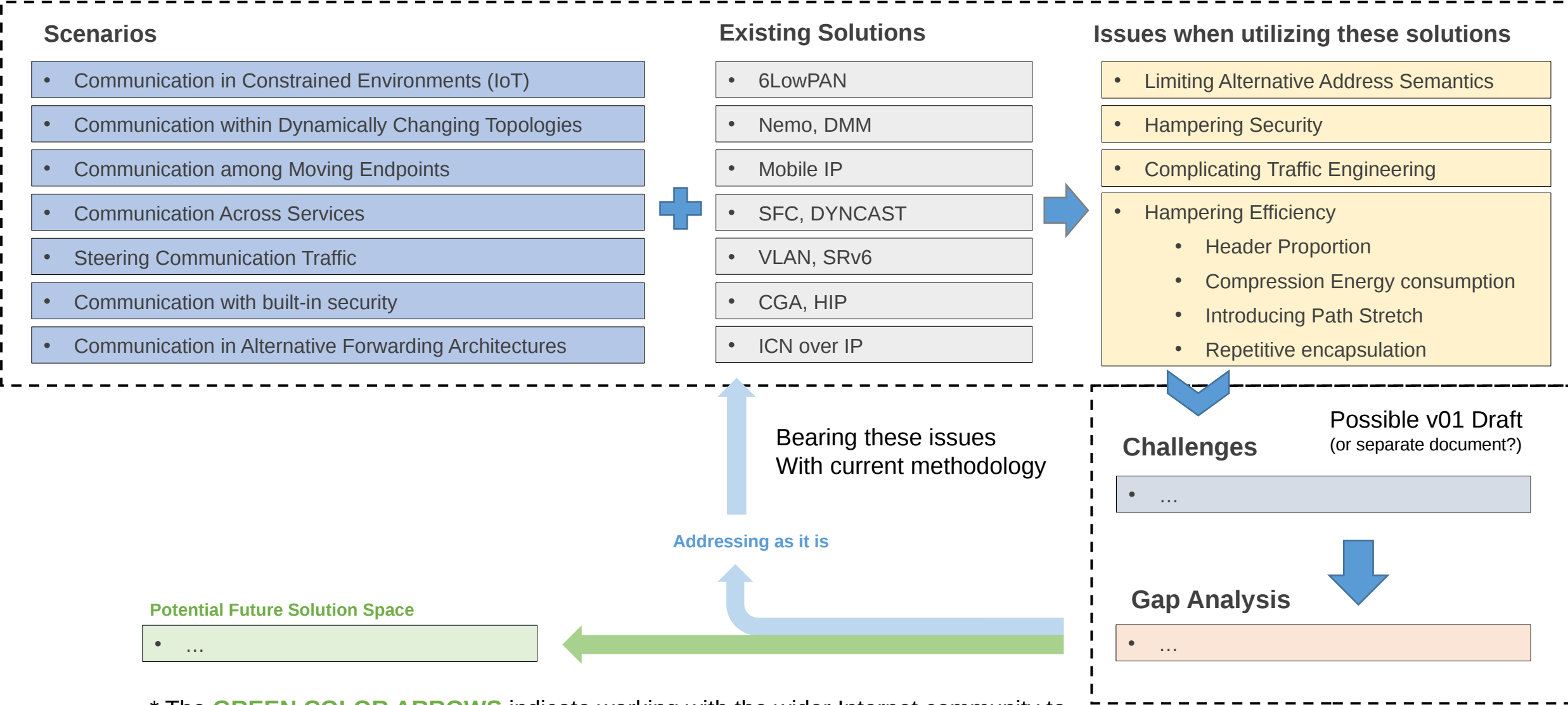
- Provide **examples** that the existing Internet addressing structure itself is a potential hindrance in solving key problems for service provisioning in some scenarios
- Revolve around following **question**:
  - > Should limited domains purely rely on IP addresses and therefore deal with the complexity of translating any semantic mismatch themselves, or should flexibility for supporting those limited domains be a key focus for an evolved Internet addressing?

## Generally:

- **Stimulate discussions** and **considerations** on the emerging needs for **evolving addressing** beyond the current objectives or paradigm.
- Goal is **NOT** to propose/promote solutions to the problems portrayed!

# Where Do We Want to Go With This?

v00 Draft



\* The **GREEN COLOR ARROWS** indicate working with the wider Internet community to gather the best insights and arguments to move forward

# Our Questions to You

- Is a discussion required on the emerging needs for addressing at large, with the possibility to re-think and evolve the addressing in the Internet?
- Are there **contributors to this discussion** who would want to work with us to push the discussion and associated material further?

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# THANKS!

Questions / Comments?