Intent-Based Networking (IBN) Use Cases

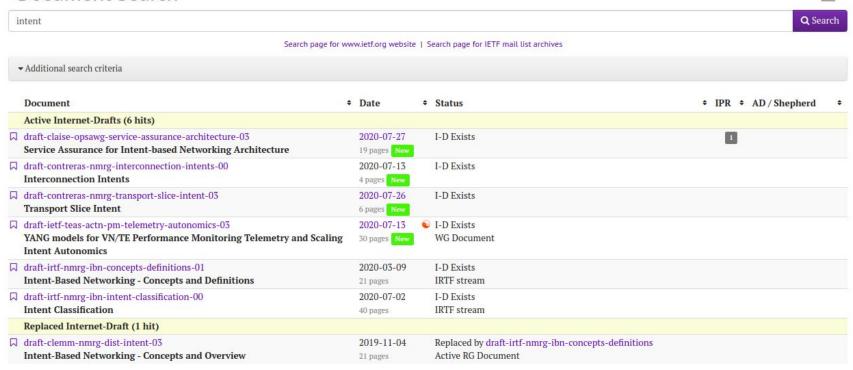
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Introduction

- NMRG Charter
 - "In this area, Intent-Based Networking (IBN) provides high-level, user-friendly abstractions to describe business and operational goals, and alleviates the need for the user to know and derive the technical details on how to achieve those goals. IBN is an essential component of self-driving networks but requires the introduction of intelligent mechanisms to properly process intents with as little human involvement as possible."
- Related efforts in different IETF WG and IRTF RG
 - NMRG, ANIMA, SUPA...

IBN @ IETF

Document Search



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IBN @ NMRG

- IBN Work Items
 - Define appropriate validation scenarios and use cases describing concrete examples of intent expressions and functions.
 - Goal: assess the quality and completeness of specifications and evaluate intent-based systems functionalities in experimental settings.
- Similar past experience: UCAN BoF (IETF 90)
 - Important outcome of the NMRG work (ANIMA WG)
 - UCAN docs (e.g., RFC 8316)

Outlook for IBN Use Cases @ NMRG

- Example: UCAN "template"
 - Problem statement
 - Intended User & Administrator Experience
 - Parameters and Information
 - Interaction with other devices
- What are the items for a IBN use case?
- Who is willing to contribute?
- How can we move this conversation forward?

Thank you.

Questions?