Intent Classification

draft-irtf-nmrg-ibn-intent-classification-01
draft-irtf-nmrg-ibn-intent-classification-02

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The draft proposes an intent classification methodology to be used to identify the scope and priorities of individual projects, PoCs, research initiatives, or open-source projects.

The output of the intent classification is the intent taxonomy, and describes intent solutions, intent user types, intent types, intent scopes, network scopes, abstractions and life-cycle.

Three classifications have been proposed in this draft following the classification workflow:

- Carrier solution
- Data Center solution
- Enterprise solution

IETF 108 PoC "A multi-layer approach for IBN" solution has been successfully used as an example for our proposed classification methodology.

RG Adoption:

• 1st July – Intent Classification draft adopted by the RG

Addressing Comments draft-irtf-nmrg-ibn-intent-classification-01

• 2nd November - uploaded to IETF
• 33 comments addressed since the RG adoption call

Addressing Comments draft-irtf-nmrg-ibn-intent-classification-02

• Work in progress
• 3 comments addressed and merged into Git
• 2 comments outstanding
Draft -01 updates

• Provided detailed description of the intent classification methodology workflow, and how it can be extended (expanded section 6.1).

• Provided intent classification examples based on the IETF 108 PoC “A multi-layer approach for IBN” ¹, for the Carrier use-case and DC use-case (new sections added: 6.3.3, and 6.4.3).

• Updated intent descriptions with additional information on how intents manifest from an operational point of view (Sections 6.3.1, 6.4.1, 6.5.1).

• Sharpen our draft’s position in relation to “Intent-Based Networking - Concepts and Overview” ² draft.

• Section ‘Involvement of intent in the application of AI to Network Management’ has been removed and would be used in future draft proposals that focus on ‘how’.

• Various readability improvements.

Draft -02 updates

• Continue discussion on PoC’s integration into draft with Barbara and Walter.
• Clarification on requirements for different intent types based on context (Section 4.2)
• Addressing the benefits of intents to network requirements (Section 4.3)

Outstanding:
  • Add a scope Section, within Introduction, for identifying the scope and priorities of projects.
  • Include a Definitions section.
Acknowledgements

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Next steps

• We believe the draft is reasonably stable.
• Will address the few remaining outstanding items in -02 version.
• Solicit draft reviews.
Thank You