ISO/IEC 21559-2:2023-01 (E)

Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 2: Proxy model-based quality of service

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms, definitions and abbreviated terms **1**
3.1 Terms and definitions 1
3.2 Abbreviated terms 2

4 Protocol mechanisms in BFS **3**
4.1 Description of BFS 3
4.2 General interactive nature for FHR 4
4.2.1 FNProxy pairing situations 4
4.2.2 Active and passive functions of FNProxy 4
4.2.3 Interaction model of BFS with engines 4
4.2.4 FPDU definition of BFS 6
4.2.5 Strategy processing scheme in FNProxy 8
4.2.6 Concept of the procedures in BFS 9
4.2.7 Function invoke descriptions to domains of FNQoS system 12

5 Protocol mechanisms in SFS **12**
5.1 Description of SFS 12
5.2 Operations by using operator in SFS 13
5.3 Service transition by FNProxy strategy or FLM 15
5.3.1 Description of FLM for FIB 15
5.3.2 FNProxy strategy or FLM determining the service transition 15
5.4 Sequence diagram overview related to SFS 16
5.4.1 General description of sequence diagram to SFS 16
5.4.2 Main elements in the sequence diagram 17
5.5 Narrative of AI dynamically enabling interaction 18
5.5.1 General 18
5.5.2 Dynamism caused by FNProxy link topology change 19
5.5.3 Dynamism by driving the external environment 20
5.6 General framework of SFSP 20

Annex A (informative) **Representation reference of FNProxy collaboration effects** **24**

Annex B (informative) **Bi-S operator Example between two FNProxies with C++** **29**

Annex C (informative) **Methods for the domains** **31**

Annex D (informative) **FNProxy Link Modes (FLMs) for SFS** **33**

Annex E (informative) **Collaboration between FNQoS systems** **35**

Annex F (informative) **Multi FNProxies making effect of dynamic MFHR** **36**

Annex G (informative) **Avoiding SFS infinite transitions and overservice** **37**

Annex H (informative) **General framework of FNQoS protocol** **40**

Bibliography **43**