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Policy and Charging Control (PCC);
Congestion reporting over Np reference point
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650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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1 Scope

The present document provides the stage 3 specification of the Np reference point. The functional requirements and the stage 2 specifications of the Np reference point are contained in 3GPP TS 23.203 [2]. The Np reference point lies between the RAN Congestion Awareness Function (RCAF) and the Policy and Charging Rules Function (PCRF) for the non-roaming case, between the RCAF and the H-PCRF for the home-routed scenario and between the RCAF and the V-PCRF for the visited access scenario.

NOTE: If not specified explicitly, the PCRF also means H-PCRF for the home-routed scenario or V-PCRF in the visited access scenario in the specification.

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.203: "Policy and charging control architecture".
- [3] 3GPP TS 29.213: "Policy and Charging Control signalling flows and QoS parameter mapping".
- [4] IETF RFC 4005: "Diameter Network Access Server Application".
- [5] IETF RFC 4006: "Diameter Credit Control Application".
- [6] 3GPP TS 29.229: "Cx and Dx interfaces based on Diameter protocol; Protocol details".
- [7] Void.
- [8] 3GPP TS 23.401: "GPRS enhancements for E-UTRAN access".
- [9] 3GPP TS 23.060: "General Packet Radio Service (GPRS); Service description; Stage 2".
- [10] 3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
- [11] 3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
- [12] 3GPP TS 29.274: "3GPP Evolved Packet System. Evolved GPRS Tunnelling Protocol for EPS (GTPv2)".
- [13] ITU-T Recommendation E.212: "The international identification plan for mobile terminals and mobile users".
- [14] 3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
- [15] IETF RFC 7683: "Diameter Overload Indication Conveyance".
- [16] IETF RFC 7944: "Diameter Routing Message Priority".
- [17] IETF draft-ietf-dime-load-03: "Diameter Load Information Conveyance".

Editor's note: The above document cannot be formally referenced until it is published as an RFC.