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1 Scope

The present specification provides the stage 3 definition of the Access and Mobility Policy Control Service (Npcf_AMPolicyControl) of the 5G System.

The stage 2 definition and procedures of the Access and Mobility Policy Control Service are contained in 3GPP TS 23.502 [3] and 3GPP TS 23.503 [4]. The 5G System Architecture is defined in 3GPP TS 23.501 [2].

Stage 3 call flows are provided in 3GPP TS 29.513 [7].

The Technical Realization of the Service Based Architecture and the Principles and Guidelines for Services Definition of the 5G System are specified in 3GPP TS 29.500 [5] and 3GPP TS 29.501 [6].

The Access and Mobility Policy Control Service is provided by the Policy Control Function (PCF). This service provides Access and Mobility Policies.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".
- [3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".
- [4] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System; Stage 2".
- [5] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".
- [6] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".
- [7] 3GPP TS 29.513: "5G System; Policy and Charging Control signalling flows and QoS parameter mapping; Stage 3".
- [8] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".
- [9] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".
- [10] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.
- [11] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces; Stage 3".
- [12] 3GPP TS 23.402: "Architecture enhancements for non-3GPP accesses".
- [13] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".
- [14] 3GPP TS 29.518: "5G System; Access and Mobility Management Services; Stage 3".
- [15] void.
- [16] void.

- [17] 3GPP TS 29.519: "5G System; Usage of the Unified Data Repository service for Policy Data, Application Data and Structured Data for Exposure; Stage 3".
- [18] 3GPP TS 32.422: "Telecommunication management; Subscriber and equipment trace; Trace control and configuration management".
- [19] 3GPP TS 33.501: "Security architecture and procedures for 5G system".
- [20] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".
- [21] IETF RFC 7807: "Problem Details for HTTP APIs".
- [22] 3GPP TR 21.900: "Technical Specification Group working methods".
- [23] 3GPP TS 23.316: "Wireless and wireline convergence access support for the 5G System (5GS)".
- [24] 3GPP TS 29.531: "5G System; Network Slice Selection Services; Stage 3".
- [25] 3GPP TS 29.514: "5G System; Policy Authorization Service; Stage 3".
- [26] 3GPP TS 29.534: "5G System; Access and Mobility Policy Authorization Service; Stage 3".
- [27] 3GPP TS 29.512: "5G System; Session Management Policy Control Service; Stage 3".
- [28] 3GPP TS 29.523: "5G System; Policy Control Event Exposure Service; Stage 3".
- [29] 3GPP TS 29.525: "UE Policy Control Service; Stage 3".
- [30] 3GPP TS 29.521: "5G System; Binding Support Management Service; Stage 3".
- [31] 3GPP TS 29.502: "5G System; Session Management Services; Stage 3".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

For the purposes of the present document, the following terms and definitions given in 3GPP TS 23.501 [2], clause 3.1 apply:

Allowed NSSAI

Target NSSAI

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5G-BRG	5G Broadband Residential Gateway
5G-RG	5G Residential Gateway
5GC	5G Core Network
5G-CRG	5G Cable Residential Gateway
5GS	5G System
AMBR	Aggregated Maximum Bit Rate
AMF	Access and Mobility Management Function
BBF	Broadband Forum
DNN	Data Network Name

EPS	Evolved Packet System
FN-BRG	Fixed Network Broadband Residential Gateway
FN-CRG	Fixed Network Cable Residential Gateway
FN-RG	Fixed Network Residential Gateway
FQDN	Fully Qualified Domain Name
GBR	Guaranteed Bit Rate
GPSI	Generic Public Subscription Identifier
GUAMI	Globally Unique AMF Identifier
HFC	Hybrid Fiber-Coaxial
JSON	JavaScript Object Notation
LBO	Local Break Out (roaming)
MBR	Maximum Bit Rate
NID	Network Identifier
NRF	Network Repository Function
NSSAI	Network Slice Selection Assistance Information
NWDAF	Network Data Analytics Function
PCF	Policy Control Function
PEI	Permanent Equipment Identifier
PRA	Presence Reporting Area
QoS	Quality of Service
RFSP	RAT Frequency Selection Priority
SMF	Session Management Function
S-NSSAI	Single Network Slice Selection Assistance Information
SNPN	Stand-alone Non-Public Network
SUPI	Subscription Permanent Identifier
UDM	Unified Data Management
URSP	UE Route Selection Policy
V-PCF	Visited Policy Control Function
W-5GAN	Wireline 5G Access Network
W-5GBAN	Wireline BBF Access Network
W-5GCAN	Wireline 5G Cable Access Network
W-AGF	Wireline Access Gateway Function

4 Access and Mobility Policy Control Service

4.1 Service Description

4.1.1 Overview

The Access and Mobility Policy Control Service, as defined in 3GPP TS 23.502 [3] and 3GPP TS 23.503 [4], is provided by the Policy Control Function (PCF).

This service provides access control and mobility management related policies to the NF service consumer and offers the following functionalities:

- policy creation based on a request from the NF service consumer during UE registration;
- notification of the NF service consumer of the updated policies which are subscribed; and
- deletion of the policy context for a UE.

4.1.2 Service Architecture

The 5G System Architecture is defined in 3GPP TS 23.501 [2]. The Policy and Charging related 5G architecture is also described in 3GPP TS 29.513 [7].

The Access and Mobility Policy Control Service (Npcf_AMPolicyControl) is part of the Npcf service-based interface exhibited by the Policy Control Function (PCF).

The known NF service consumer of the Npcf_AMPolicyControl service is the Access and Mobility Management Function (AMF).

The AMF accesses the Access and Mobility Policy Control Service at the PCF via the N15 Reference point. In the roaming scenario, the N15 reference point is located between the V-PCF in the visited network and the AMF.

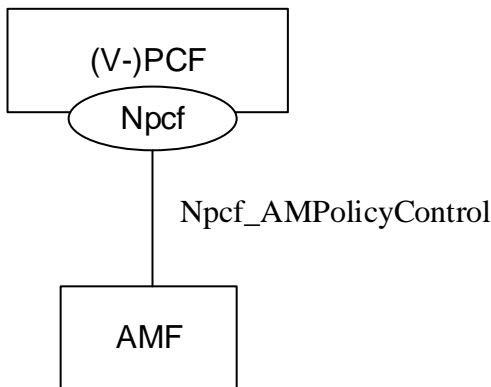


Figure 4.1.2-1: Reference Architecture for the Npcf_AMPolicyControl Service; SBI representation

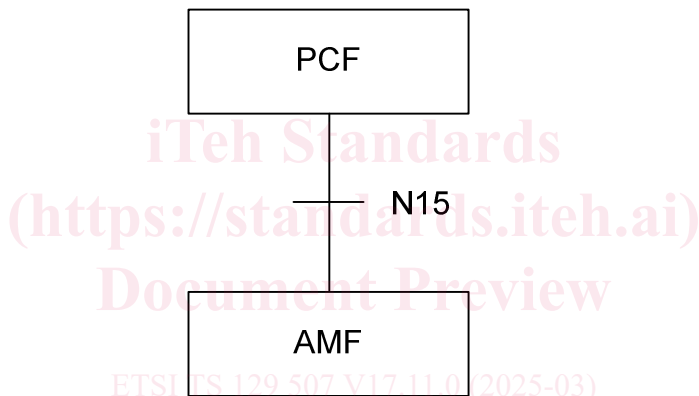


Figure 4.1.2-2: Non-roaming Reference Architecture for the Npcf_AMPolicyControl Service; reference point representation

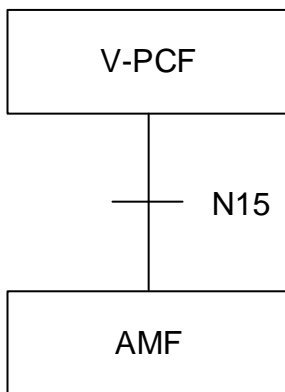


Figure 4.1.3-2: Roaming reference Architecture for the Npcf_AMPolicyControl Service; reference point representation

4.1.3 Network Functions

4.1.3.1 Policy Control Function (PCF)

The Policy Control Function (PCF):

- Supports unified policy framework to govern network behaviour; and
- Provides Access and Mobility Management related policies to the NF service consumer that enforces them.

In the roaming scenario, the Visited Policy Control Function (V-PCF) provides the functions described in this clause towards the visited network.

4.1.3.2 NF Service Consumers

The Access and Mobility Management function (AMF) provides:

- Registration management;
- Connection management;
- Reachability management; and
- Mobility Management.

4.2 Service Operations

4.2.1 Introduction

Table 4.2.1-1: Operations of the Npcf_AMPolicyControl Service

Service operation name	Description	Initiated by
Npcf_AMPolicyControl_Create	Creates an AM Policy Association and provides corresponding policies to the NF service consumer.	NF service consumer (e.g. AMF)
Npcf_AMPolicyControl_Update	Updates an AM Policy Association and provides corresponding policies to the NF service consumer when a policy control request trigger is met or the AMF is relocated due to UE mobility and the old PCF is selected.	NF service consumer (e.g. AMF)
Npcf_AMPolicyControl_UpdateNotify	Provides updated policies to the NF service consumer.	PCF (V-PCF in roaming case)
Npcf_AMPolicyControl_Delete	Provides means for the NF service consumer to delete the AM Policy Association.	NF service consumer (e.g. AMF)

4.2.2 Npcf_AMPolicyControl_Create Service Operation

4.2.2.1 General

The procedure in the present clause is applicable when the NF service consumer (e.g. AMF) creates an AM policy association when the UE registers to the network, and when the AMF is relocated (between the different AMF sets) and the new AMF selects a new PCF. The procedure for the case where the AMF is relocated and the new AMF selects the old PCF is defined in clause 4.2.3.1.

The creation of an AM policy association only applies for normally registered UEs, i.e., it does not apply for Emergency Registered UEs.

Figure 4.2.2.1-1 illustrates the creation of a policy association.

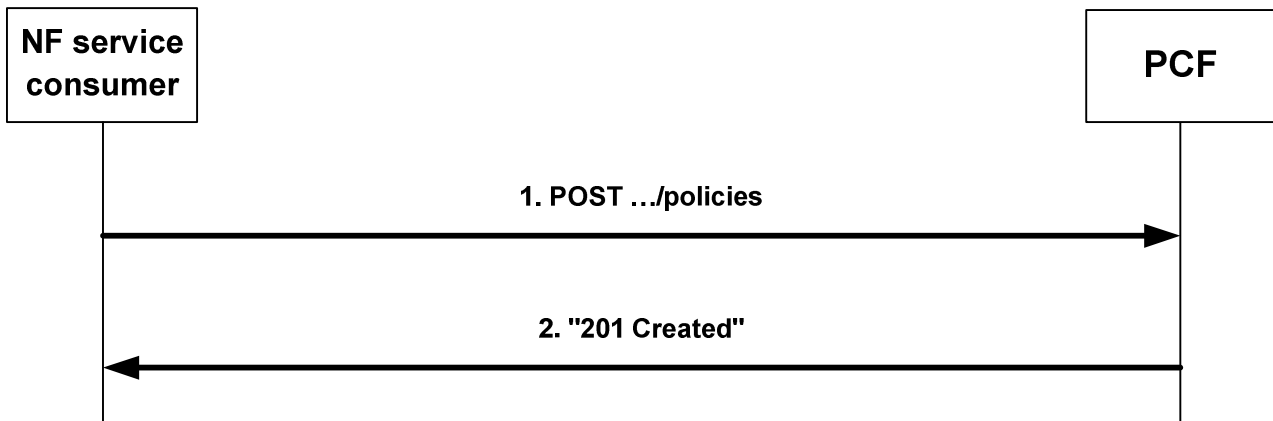


Figure 4.2.2.1-1: Creation of a policy association

When a UE registers and a UE context is being established, the AMF can obtain Service Area Restrictions, RFSP index, subscribed UE-AMBR, subscribed UE-Slice-MBR(s) and GPSI(s) from the UDM during the Access and Mobility Subscription Data retrieval procedure, the list of NWDAF instance IDs used for the UE and their associated Analytic ID(s) consumed by the AMF and the allowed NSSAI and the Target NSSAI from local configuration or from the NSSF during the slice selection procedure and shall decide based on local policies whether to request policies from the PCF.

To request policies from the PCF, the NF service consumer (e.g. AMF) shall send an HTTP POST request with: "{apiRoot}/npcf-am-policy-control/v1/policies" as Resource URI and the PolicyAssociationRequest data structure as request body that shall include:

- Notification URI encoded as "notificationUri" attribute;
- SUPI encoded as "supi" attribute; and
- if the feature "SliceSupport" or the feature "DNNReplacementControl" is supported in the NF service consumer and the UE is registered via a 3GPP access, the allowed NSSAI in the 3GPP access encoded in the "allowedSnsais" attribute;

and that shall include when available:

- GPSI encoded as "gpsi" attribute;
- if the feature "MultipleAccessTypes" is not supported, the access type encoded as "accessType" attribute;

NOTE 1: In this Release, for SNPN-enabled UE registered in the SNPN, direct access to the SNPN is specified for 3GPP access only.

- Permanent Equipment Identifier (PEI) encoded as "pei" attribute;
- User Location Information encoded as "userLoc" attribute;
- UE Time Zone encoded as "timeZone" attribute;
- the identifier of the serving network (the PLMN Identifier or the SNPN Identifier) encoded as "servingPlmn" attribute;

NOTE 2: The SNPN Identifier consists of the PLMN Identifier and the NID.

- if the feature "MultipleAccessTypes" is not supported, the RAT type encoded as "ratType" attribute;
- Service Area Restrictions (see clause 4.2.2.3.1) derived from the Service Area Restrictions obtained from the UDM by mapping any service areas denoted by geographical information into Tracking Area Identities (TAIs) and encoded as "servAreaRes" attribute;
- RFSP index (see clause 4.2.2.3.2) as obtained from the UDM encoded as "rfsp" attribute;
- a list of Internal Group Identifiers encoded as "groupIds" attribute;
- if the NF service consumer is an AMF, the GUAMI encoded as "guami" attribute;

- if the NF service consumer is an AMF, the name of a service produced by the AMF that expects to receive information within Npcf_AMPolicyControl_UpdateNotify service operation encoded as "serviceName" attribute;
- Alternate or backup IPv4 Address(es) where to send Notifications encoded as "altNotifIpv4Addrs" attribute;
- Alternate or backup IPv6 Address(es) where to send Notifications encoded as "altNotifIpv6Addrs" attribute;
- Alternate or backup FQDN(s) where to send Notifications encoded as "altNotifFqdns" attribute;
- trace control and configuration parameters information encoded as "traceReq" attribute;
- if the feature "UE-AMBR_Authorization" is supported in the NF service consumer, the subscribed UE-AMBR (see clause 4.2.2.3.3) in the "ueAmbr" attribute;
- if the feature "DNNReplacementControl" is supported, the mapping of each S-NSSAI of the Allowed NSSAI to the corresponding S-NSSAI of the HPLMN encoded in the "mappingSnssais" attribute;
- if the feature "UE-Slice-MBR_Authorization" is supported in the NF service consumer, the subscribed UE-Slice-MBR for each subscribed S-NSSAI of the home PLMN mapping to a S-NSSAI of the serving PLMN if available (see clause 4.2.2.3.5) encoded in the "ueSliceMbrs" attribute; and.
- when the "EneNA" feature is supported, the list of NWDAF instance IDs used for the UE and their associated Analytic IDs consumed by the NF service consumer within the "nwdafDatas" attribute; and
- if the feature "TargetNSSAI" is supported in the NF service consumer, the Target NSSAI generated by the NF service consumer or received from the NSSF encoded in the "targetSnssais" attribute.

Upon the reception of this HTTP POST request, the PCF shall:

- assign a policy association ID;
- determine the applicable policy (taking into consideration and optionally modifying the possibly received UE-AMBR, UE-Slice-MBR(s) for the allowed NSSAI, Service Area Restrictions and/or RFSP index);
- for the successful case, send a HTTP "201 Created" response with the URI for the created resource in the "Location" header field

NOTE 3: The assigned policy association ID is part of the URI for the created resource and is thus associated with the SUPL.

and the PolicyAssociation data type as response body including:

- conditionally AMF Access and Mobility Policy (see clause 4.2.2.3), i.e.:
 - a) if the PCF received the "servAreaRes" attribute in the request, Service Area Restrictions encoded as "servAreaRes" attribute; and/or
 - b) if the PCF received the "rfsp" attribute in the request, RAT Frequency Selection Priority (RFSP) Index encoded as "rfsp" attribute; and/or
 - c) if the feature "UE-AMBR_Authorization" is supported and the PCF received the "ueAmbr" attribute in the request, the authorized UE-AMBR encoded as "ueAmbr" attribute;
 - d) if the feature "UE-Slice-MBR_Authorization" is supported and the PCF received the "ueSliceMbrs" attribute in the request, the corresponding authorized UE-Slice-MBR(s) encoded as "ueSliceMbrs" attribute; and/or
 - e) if the feature "AMInfluence" is supported, the PCF for the UE determines that the access and mobility policies may be influenced by the traffic of PDU session(s) and local operator policies indicate that the PCF for the UE shall subscribe with the PCF for the PDU session for established/terminated PDU session(s) event notifications via the AMF and the SMF, the PCF for the UE information within the "pcfUeInfo" attribute, and the DNN and S-NSSAI of the concerned PDU session(s) within the "matchPdus" attribute. The "pcfUeInfo" attribute shall include the PCF for the UE callback URI via which the PCF(s) for the PDU session shall send notifications about the related PDU session(s)