**3GPP TSG-WG SA2 Meeting #164S2-2407622**

**Maastricht, Netherlands, 19 August – 23 August, 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  | **23.502** | **CR** | **4852** | **rev** | **----** | **Current version:** | **18.6.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Correction to Awareness of URSP Rule Enforcement – 23.502 |
|  |  |
| ***Source to WG:*** | Oracle, Verizon UK Ltd |
| ***Source to TSG:*** | SA2 |
|  |  |
| ***Work item code:*** | eUEPO |  | ***Date:*** | 2024-08-19 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | URSP rule enforcement report may be included in the PDU SESSION ESTABLISHMENT REQUEST sent by the UE (*Use case: based on URSP rule matching, UE creates a new PDU session to carry the traffic of a new app, and based on the URSP rule indication, includes a URSP Rule Enforcement report in the PDU session establishment request*). In that case the SMF should unconditionally provide it to the SM-PCF as part of the SM Policy Association Establishment request.Below are three references from CT1 and CT3 that capture this functionality.* 24.501 6.4.1.2 “If the UE supports reporting of URSP rule enforcement and is indicated to send URSP rule enforcement report to network based on the matching URSP rule which contains the URSP rule enforcement report indication set to "URSP rule enforcement report is required", the UE shall include the URSP rule enforcement reports IE in the PDU SESSION ESTABLISHMENT REQUEST message.”
* 23.502 5.2.5.4.2 Npcf\_SMPolicyControl\_Create service operation

**Inputs, Optional: …** URSP rule enforcement that including Connection Capability,…* 29.512 4.2.2.2 “The NF service consumer shall include (if available) in the "SmPolicyContextData" data structure:

 …………………… when the "URSPEnforcement" feature is supported, the URSP rule enforcement information provided by the UE within the "urspEnfInfo" attribute.”* 29.512 5.6.2.3 SmPolicyContextData includes urspEnfInfo attribute (Data Type = UrspEnforcementInfo); i.e. URSP rule enforcement report is provided to the PCF over N7 in the creation of the SM policy association, if available at the SMF.
* 29.514 4.2.6.14 Subscription to notifications about URSP rule enforcement information “…If URSP rule enforcement information corresponding to the subscription is available, the PCF shall include the received URSP rule enforcement information within the "urspEnfRep" attribute” //i.e the URSP rule enforcement report can be provided to the PCF of the UE (by the PCF for the PDU Session) in the response to the subscription request.

URSP rule enforcement report may alternatively sent by the UE as part of PDU SESSION MODIFICATION REQUEST(*Use case: based on URSP rule matching, UE was able to use an existing PDU session to carry the traffic of a new app*), and should be forwarded by SMF to SM-PCF in an update request, conditioned by seeing an early corresponding PCRT.Currently, the procedures in 23.502 4.16.16 wrongly show the URSP rule enforcement report being always provided to the SM-PCF in an update request, regardless of the use case above.This has to be fixed along the lines of TS 29.512 that has it correctly.  |
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| ***Summary of change:*** | This CR proposes to adjsut the call flows (procedures) in 23.502 4.16.16 to be aligned with 29.512/29.514 - URSP rule enforcement report functionality.Mostly the N7 interface part of the call flow(s) is adjusted in a few places. Consequently, the N43 interface part of the call flow(s) is slightly adjusted as well. |
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| ***Consequences if not approved:*** | 1. Misalignment between 23.502 and 29.512/29.514. 2. procedures will be misleading. |
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| ***Clauses affected:*** | 4.16.16.2, 4.16.16.3, 5.2.5.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* 1st Change \*\*\*

### 4.16.16 Awareness of URSP Rule Enforcement

#### 4.16.16.1 General

Awareness of URSP rule enforcement is specified in clause 6.6.2.4 of TS 23.503 [20].

The content of this clause describes the PCF procedures necessary to realize this functionality.

#### 4.16.16.2 Forwarding of URSP Rule Enforcement Information (for non-roaming and HR roaming)

This procedure applies when the PCF serving the PDU session receives URSP rule enforcement information from the SMF and forwards this information to the (H-)PCF serving the UE (see clause 6.1.3.18 of TS 23.503 [20] for non-roaming and HR roaming).



Figure 4.16.16.2-1: Forwarding of URSP Rule Enforcement Information (for non-roaming or HR roaming)

1. The UE Policy Association is established, as described in clause 4.16.11.

2. If the (H-)PCF indicates the UE to send reporting of URSP rule enforcement as described in clause 6.6.2.4 of TS 23.503 [20], then depending on operator policies in the (H-)PCF, the (H-)PCF may subscribe to the BSF, then step 3 follows, or provides its PCF binding information to the AMF in step 1 with the indication to be notified about the PCF for the PDU Session for a UE, then step 4 follows.

3. The (H-)PCF for the UE determines that URSP rules depend on the UE reporting of URSP rule enforcement, it then subscribes to the BSF to be notified when a PCF for the PDU Session for this SUPI is registered in the BSF, by invoking Nbsf\_Management\_Subscribe (SUPI; DNN). Steps 4 and 5 are repeated for each PCF registered for a PDU Session to a SUPI included in the Nbsf\_Management.

4. The (H-)SMF establishes a SM Policy Association as described in clause 4.16.4. The allocated UE address/prefix, SUPI, DNN, S-NSSAI and the PCF address is registered in the BSF, as described in clause 6.1.1.2.2 of TS 23.503 [20]. The SMF may provide the PCF binding information (address(es) of PCF for UE, instance id of PCF for UE) which receives from AMF to the PCF for session during SM Policy Association establishment procedure. If the (H-)SMF has received UE report of URSP rule enforcement via PDU session establishment as described in clauses 4.3.2 (step 4), it includes the received traffic information in the SM Policy Association establishment request.

5a. If the (H-)PCF for the UE subscribed to the BSF in step 3, then the BSF notifies that a PCF for the PDU Session is registered in the BSF, by invoking Nbsf\_Management\_Notify (UE address(es), PCF address, PCF instance id, PCF Set ID, level of binding). When there are multiple PDU Sessions to the same UE the BSF provides multiple notification to the PCF.

5b. If the (H-)PCF for the UE sent the request to notify that a PCF for the PDU Session is available to the AMF in step 1, then the PCF for the PDU Sessions sends Npcf\_PolicyAuthorization\_Notify (EventID set to SM Policy Association established, UE address, PCF address, PCF instance is, PCF Set ID) to the PCF indicated in the PCF binding information provided by the SMF.

6. The (H-)PCF for the UE subscribes to notifications of event "UE reporting Connection Capabilities from associated URSP rule" as defined in clause 6.1.3.18 of TS 23.503 [20], using Npcf\_PolicyAuthorization\_Subscribe (EventId set to "UE reporting Connection Capabilities from associated URSP rule", EventFilter set to at least "list of Connection Capabilities") and immediate reporting flag set to the PCF for the PDU Session.

6a. The response includes the NotificationCorrelationId and any Connection Capabilities if already available at the PCF for the PDU Session.

7. If not already installed, the PCF installs the Policy Control Request Trigger to detect "UE reporting Connection Capabilities from associated URSP rule" in the SMF.

8. When the (H-)SMF receives a UE report of URSP rule enforcement via PDU session modification as described in clause 4.3.3 (step 8a) and the Policy Control Request Trigger is met, it then reports the received traffic information to the PCF serving the PDU Session, by invoking Npcf\_SMPolicyControl\_Update as defined in clause 6.1.3.5 of TS 23.503 [20] (step 8b).

NOTE: The case when the (H-)SMF receives a UE report of URSP rule enforcement via PDU session establishment is covered by steps 4-6a above and is described in TS 23.503 [1] clause 6.6.2.4.

9. The (H-)PCF for the UE is notified on the "UE reporting Connection Capabilities from associated URSP rule" by Npcf\_PolicyAuthorization\_Notify (NotificationCorrelationId, EventId set to "UE reporting Connection Capabilities from associated URSP rule", EventInformation including the Connection Capabilities) as defined in clause 6.1.3.18 of TS 23.503 [20].

10. The (H-)PCF for the UE checks operator policies and then may make policy control decisions based on awareness of URSP rule enforcement as described in clause 6.1.6 of TS 23.503 [20].

11. The SM Policy Association is terminated as described in clause 4.16.6. The allocated UE address/prefix, SUPI, DNN, S-NSSAI and the PCF address are deregistered in the BSF.

12a. If the (H-)PCF for the UE subscribed to the BSF, then the BSF notifies that the PCF serving a PDU Session is deregistered in the BSF, by invoking Nbsf\_Management\_Notify (Binding Identifier for the PDU Session).

12b. If the (H-)PCF for the UE sent the request to notify that a PCF for the PDU Session is available to the AMF in step 1, then the PCF for the PDU Session sends Npcf\_PolicyAuthoritation\_Notify (EventID set to SM Policy Association termination, Notification Correlation Id).

\*\*\* 2nd Change \*\*\*

#### 4.16.16.3 Forwarding of URSP Rule Enforcement Information (for LBO roaming)

This procedure applies when the PCF serving the PDU session in VPLMN receives URSP rule enforcement information from the SMF and forwards this information to the V-PCF serving the UE in VPLMN and V-PCF forwards the information to the H-PCF serving the UE in HPLMN.



Figure 4.16.16.3-1: Forwarding of URSP Rule Enforcement Information (for LBO roaming)

1. The UE Policy Association is established among the AMF, V-PCF and H-PCF, as described in clause 4.16.11. During this procedure, if the UE indicated support for URSP Rule enforcement report, the H-PCF for the UE may request to forward the UE reporting Connection Capabilities from an associated URSP rule, the H-PCF sends the PCRT to report the Connection Capabilities of the associated URSP rule to the V-PCF.

2. If the H-PCF for the UE indicates the UE to send reporting of URSP rule enforcement as described in clause 6.6.2.4 of TS 23.503 [20] and H-PCF for the UE has requested to forward the UE reporting Connection Capabilities from an associated URSP rule to the V-PCF as in the step 1, then depending on operator policies in the V-PCF, the V-PCF may subscribe to the BSF in VPLMN, then step 3 follows, or provides its PCF binding information to the AMF in step 1 with the indication to be notified about the PCF for the PDU Session for a UE, then step 4 follows.

3 to 7. The same as the steps 3 to 7 of Figure 4.16.16.2-1 with replacing PCF with V-PCF. The SMF in this figure is located in VPLMN while the H-PCF for the UE is located in HPLMN.

8. If the UE supports the UE capability of reporting URSP enforcement and sends the indication to the H-PCF for the UE at the step 1, and detects the application matching a URSP rule including the Connection Capabilities, the UE reports the Connection Capabilities to the SMF during the PDU Session Establishment/Modification request to the SMF.

 When the SMF receives a UE report of URSP rule enforcement via PDU Session Modification and the Policy Control Request Trigger is met, it then reports the received traffic information to the PCF serving the PDU Session, by invoking Npcf\_SMPolicyControl\_Update as defined in clause 6.1.3.5 of TS 23.503 [20] (step 8b).

NOTE: The case when the (H-)SMF receives a UE report of URSP rule enforcement via PDU session establishment is covered by steps 4-6a above and is described in TS 23.503 [1] clause 6.6.2.4.

9. The same step as the step 9 of Figure 4.16.16.2-1 with replacing PCF with V-PCF.

10. to 11. The same steps as the steps 11 to 12 of Figure 4.16.16.2-1 with replacing PCF with V-PCF. The SMF in this figure is located in VPLMN.

12. If the V-PCF has received the request to forward the UE reporting Connection Capabilities from an associated URSP rule from the H-PCF in the step 1 and the V-PCF for the UE is either notified on the "UE reporting Connection Capabilities from associated URSP rule" by Npcf\_PolicyAuthorization\_Notify in step 9 or receives "UE reporting Connection Capabilities from associated URSP rule" by Npcf\_PolicyAuthorization\_Subscribe response in step 6a, the V-PCF reports the received the information from the PCF for the PDU Session to the H-PCF.

13. The (H-)PCF for the UE checks operator policies and then may make policy control decisions based on awareness of URSP rule enforcement as described in clause 6.1.6 of TS 23.503 [20], and also the H-PCF may take an appropriate action as described in clause 6.6.2.4 of 23.503 [20].

\*\*\* 3rd Change \*\*\*

#### 5.2.5.3 Npcf\_PolicyAuthorization Service

##### 5.2.5.3.1 General

**Service description:** This service is to authorise an AF request and to create policies as requested by the authorized AF for the PDU Session to which the AF session is bound. Additionally, this service allows an AF or TSCTSF to exchange port management information with DS-TT and NW-TT. This service allows the NF consumer to subscribe/unsubscribe the notification of events, which are defined in clause 6.1.3.18 of TS 23.503 [20].

##### 5.2.5.3.2 Npcf\_PolicyAuthorization\_Create service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Create

**Description:** Authorize the request and optionally determines and installs SM Policy Control Data according to the information provided by the NF Consumer or provides Port Management Information Container for ports on DS-TT or NW-TT, or User plane node Management Information Container.

**Inputs, Required:** UE (IP or MAC) address, identification of the application session context.

**Inputs, Optional:** GPSI(s) or SUPI(s) if available, Internal Group Identifier, DNN if available, S-NSSAI if available, Media type, Media format, bandwidth requirements, sponsored data connectivity information if applicable, flow description information as described in clause 6.1.3.6 of TS 23.503 [20], AF Application Identifier, AF Communication Service Identifier, AF Record Identifier, Flow status, Priority indicator, emergency indicator, ASP Identifier, resource allocation outcome, AF Application Event Identifier, a list of DNAI(s) and corresponding routing profile ID(s) or N6 traffic routing information, AF Transaction Id, Early and/or late notifications about UP path management events, temporal validity condition, spatial validity condition, Information for EAS IP Replacement in 5GC, Indication for EAS Relocation, AF indication for simultaneous connectivity over source and target PSA at edge relocation, EAS Correlation indication, Common EAS IP address, Traffic Correlation ID, FQDN(s) as described in clause 5.6.7 in 23.501 [2], Background Data Transfer Reference ID, priority sharing indicator as described in clause 6.1.3.15 of TS 23.503 [20], pre-emption control information as described in clause 6.1.3.15 of TS 23.503 [20], Port Management Information Container and related port number, User plane node Management Information Container, TSN AF parameters provided by the TSN AF to the PCF as described in clause 6.1.3.23 of TS 23.503 [20], TSCTSF parameters provided by the TSCTSF to the PCF as described in clause 6.1.3.23a and clause 6.1.3.23b of TS 23.503 [20], QoS Monitoring parameter(s) as defined in clause 5.45 of TS 23.501 [2], Reporting frequency, Target of reporting and optional an indication of direct event notification as described in clause 6.1.3.21 of TS 23.503 [20], QoS Reference or individual QoS parameters as described in clause 6.1.3.22 of TS 23.503 [20], RT Latency Indication as described in clause 6.1.3.22 of TS 23.503 [20], Alternative Service Requirements (containing one or more QoS Reference parameters or Requested Alternative QoS Parameter Sets in a prioritized order), TSC Assistance Container, MPS for Data Transport Service indicator as described in clause 6.1.3.11 of TS 23.503 [20], Packet Delay Variation requirements as described in clause 6.1.3.26 of TS 23.503 [20], SFC Identifier(s), Metadata, Periodicity as described clauses 6.1.3.22 and 6.3.1 of TS 23.503 [20], PDU Set QoS Parameters as described in clause 5.7.7 of TS 23.501 [2], Protocol Description as described in clause 5.37.5 or 5.37.8.3 of TS 23.501 [2], Data Burst Handing Information as described in clause 6.3.1of TS 23.503 [20], Indication of ECN marking for L4S as described in clause 6.1.3.22 of TS 23.503 [20], Notification Target Address for PMIC/UMIC UPF event, Correlation ID for PMIC/UMIC UPF event, Multi-Modal Service ID together with Multi-modal Service Requirements information for each data flow as described in clause 6.1.3.27.3 of TS 23.503 [20], QoS duration, QoS inactivity interval as described in clause 6.1.3.22 of TS 23.503 [20].

NOTE 1: When only one DNAI and corresponding routing profile ID(s) and the Indication for EAS Relocation are available, the presented DNAI is the target DNAI as defined in clause 6.3.7 of TS 23.548 [74].

NOTE 2: A dedicated Notification Target Address for PMIC/UMIC UPF event and Correlation ID for PMIC/UMIC UPF event are provided by the event consumer over Npcf\_PolicyAuthorization as the corresponding events are reported by the UPF and not by the PCF. Providing such information indicates that the consumer of the Npcf\_PolicyAuthorization (TSN AF, TSCTSF) supports PMIC/UMIC via Nupf event reporting.

**Outputs, Required:** Success or Failure (reason for failure, e.g. as defined in clauses 6.1.3.16 and clause 6.1.3.10 of TS 23.503 [20]).

**Outputs, Optional:** The service information that can be accepted by the PCF.

##### 5.2.5.3.3 Npcf\_PolicyAuthorization\_Update service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Update

**Description:** Provides updated information to the PCF.

**Inputs, Required:** Identification of the application session context.

**Inputs, Optional:** Media type, Media format, bandwidth requirements, sponsored data connectivity information if applicable, flow description information as described in clause 6.1.3.6 of TS 23.503 [20], AF Application Identifier, AF Communication Service Identifier, AF Record Identifier, Flow status, Priority indicator, resource allocation outcome, AF Application Event Identifier, a list of DNAI(s) and corresponding routing profile ID(s) or N6 traffic routing information, AF Transaction Id, Early and/or late notifications about UP path management events, temporal validity condition, spatial validity condition, Information for EAS IP Replacement in 5GC, Indication for EAS Relocation, AF indication for simultaneous connectivity over source and target PSA at edge relocation as described in clause 5.6.7 of TS 23.501 [2], Background Data Transfer Reference ID, priority sharing indicator as described in clause 6.1.3.15 of TS 23.503 [20], pre-emption control information as described in clause 6.1.3.15 of TS 23.503 [20], Port Management Information Container and related port number, User plane node Management Information Container, TSN AF parameters provided by the TSN AF to the PCF as described in clause 6.1.3.23 of TS 23.503 [20], TSCTSF parameters provided by the TSCTSF to the PCF as described in clause 6.1.3.23a and clause 6.1.3.23b of TS 23.503 [20], QoS Reference or individual QoS parameters as described in clause 6.1.3.22 of TS 23.503 [20], Alternative Service Requirements (containing one or more QoS Reference parameters or Requested Alternative QoS Parameter Sets in a prioritized order), TSC Assistance Container, QoS Monitoring parameter(s) as defined in clause 5.45 of TS 23.501 [2], Reporting frequency, Target of reporting and optional an indication of direct event notification as described in clause 6.1.3.21 of TS 23.503 [20], MPS for Data Transport Service indicator as described in clause 6.1.3.11 of TS 23.503 [20], Packet Delay Variation requirements as described in clause 6.1.3.26 of TS 23.503 [20], SFC Identifier(s), Metadata, Periodicity as described clauses 6.1.3.22 and 6.3.1 of TS 23.503 [20], PDU Set QoS Parameters as described in clause 5.7.7 of TS 23.501 [2], Protocol Description as described in clause 5.37.5 or 5.37.8.3 of TS 23.501 [2], Data Burst Handing Information as described in clause 6.3.1of TS 23.503 [20], Notification Target Address for PMIC/UMIC UPF event, Correlation ID for PMIC/UMIC UPF event, updated information for Multi-modal Service Requirements as described in clause 6.1.3.27.3 of TS 23.503 [20].

NOTE: When only one DNAI and corresponding routing profile ID(s) and the Indication for EAS Relocation are available, the presented DNAI is the target DNAI as defined in clause 6.3.7 of TS 23.548 [74].

**Outputs, Required:** Success or Failure (reason for failure, e.g. as defined in clause 6.1.3.16 of TS 23.503 [20]).

**Outputs, Optional:** The service information that can be accepted by the PCF.

Provides updated application level information and communicates with Npcf\_SMPolicyControl service to determine and install the policy according to the information provided by the NF Consumer. Updates an application context in the PCF.

##### 5.2.5.3.4 Npcf\_PolicyAuthorization\_Delete service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Delete

**Description:** Provides means for the NF Consumer to delete the context of application level session information.

**Inputs, Required:** Identification of the application session context.

**Inputs, Optional:** None.

**Outputs, Required:** None.

**Outputs, Optional:** None.

##### 5.2.5.3.5 Npcf\_PolicyAuthorization\_Notify service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Notify

**Description:** provided by the PCF to notify NF consumers of the subscribed events.

**Inputs, Required:** Event ID.

The events that can be subscribed are defined in clause 6.1.3.18 of TS 23.503 [20].

**Inputs, Optional:** Event information (defined on a per Event ID basis) are defined in clause 6.1.3.18 of TS 23.503 [20], Notification Correlation Information (information to identify the application session), DNN, S-NSSAI.

Notification Correlation Information is mandatory except in the case of the new 5GS Bridge/Router information detected event if no AF session exists between the PCF and the AF.

DNN and S-NSSAI are required in the case of private IPv4 address being used for the IP type PDU Session that are potentially impacted by time sensitive communication and time synchronization service.

**Outputs, Required:** Operation execution result indication.

**Outputs, Optional:** None.

##### 5.2.5.3.6 Npcf\_PolicyAuthorization\_Subscribe service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Subscribe

**Description:** provided by the PCF for NF consumers to explicitly subscribe the notification of events.

**Inputs, Required:** (Set of) Event ID(s) as specified in Npcf\_PolicyAuthorization\_Notify service operation, target of PCF event reporting (defined below), NF ID, Event Reporting Information defined in Table 4.15.1-1 (only the Event Reporting mode and the immediate reporting flag when applicable), Notification Target Address (+ Notification Correlation ID).

The target of PCF event reporting the subscription for an individual AF session: An UE IP address (IPv4 address or IPv6 prefix) optionally together with a (DNN, S-NSSAI) or with a UE ID (SUPI or GPSI).

**Inputs, Optional:** Event Filter, Subscription Correlation ID (in the case of modification of the event subscription), Notification Target Address for PMIC/UMIC UPF event, Correlation ID for PMIC/UMIC UPF event.

**Outputs, Required:** When the subscription is accepted: Subscription Correlation ID.

**Outputs, Optional:**  URSP rule enforcement including Connection Capability*.*

##### 5.2.5.3.7 Npcf\_PolicyAuthorization\_Unsubscribe service operation

**Service operation name:** Npcf\_PolicyAuthorization\_Unsubscribe

**Description:** Enable NF consumers to explicitly unsubscribe the notification of PCF events related to Npcf\_PolicyAuthorization\_Subscribe operation.

**Inputs, Required:** Subscription Correlation.

**Inputs, Optional:** None.

**Outputs, Required:** Success or Failure.

**Outputs, Optional:** None*.*

\*\*\* End of Change \*\*\*