**3GPP TSG-SA WG6 Meeting #60 S6-241498**

**Changsha, China 15th-19th April 2024 (revision of S6-241190 was 0706)**

**Source: Convida Wireless, LLC**

**Title:** **Multi-modal SEALDD policy configuration**

**Spec: 3GPP TR 23.700-23 V0.2.0**

**Agenda item: 8.5**

**Document for: Approval**

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**1. Introduction**

This contribution provides a solution for KI #2 - E2E Multi-Modal Communication Flows.

**2. Reason for Change**

To effectively support multi-modal application traffic flows with SEALDD, SEALDD servers and clients must have awareness of the individual application flows having multi-modal dependencies on each another. To provide this awareness, the contribution proposes extending the current SEALDD policy functionality to support multi-modal SEALDD policy functionality.

**3. Proposal**

It is proposed to agree the following changes to 3GPP 23.700-23 V0.2.0.

\*\*\* All new text \*\*\*

## 7.x Solution #X: SEALDD Policy Configuration for multi-modal flows

### 7.x.1 Architecture Impacts

This solution adds support for multi-modal SEALDD policy configuration functionality by enhancing the existing SEALDD policy configuration functionality supported in clause 9.10 of TS 23.433[x]. There are no impacts to the SEALDD architecture.

### 7.x.2 Solution description

This solution is targeting KI #2: E2E Multi-Modal Communication Flows and specifies enhancements to the SEALDD policy configuration information flows. In this procedure, the VAL server is a specific server for configuring multi-modal SEALDD policies and is different from VAL servers used for VAL application processing.

The SEALDD policy configuration procedure detailed in 3GPP TS23.433[x] clause 9.10.2.1 is reused with the enhanced information flows below

NOTE: Corresponding enhancements to multi-modal SEALDD policy update and delete procedures will be completed during the normative phase.

### 7.x.3 Information flows

#### 7.x.3.1 SEALDD policy configuration request for multi-modal flows

Table 7.x.3.1-1 describes the new information elements to be added to the SEALDD policy configuration request in 3GPP TS 23.434[x] Table 9.10.3.1-1 in order to support multi-modal flows. Table 7.x.3.1-1: SEALDD policy configuration request IEs for multi-modal flows

|  |  |  |
| --- | --- | --- |
| Information element | Status | Description |
| Multi-modal VAL flows list | M | List of individual VAL flows applicable to this multi-modal SEALDD policy.  |
| > Application traffic identifiers | M | Identifier of the application traffic for this individual VAL flow (e.g. VAL server ID, VAL service ID) |
| > VAL UE identity | O | Identifier of the VAL UE for this individual VAL flow |
| > SEALDD policy | M | SEALDD policy associated with this individual VAL flow as defined in Table 9.10.3.1-1 of TS 23.433 |
| Multi-modal SEALDD policy | M  | Multi-modal SEALDD policy applicable to Multi-modal VAL flows list. This IE is used for complementing other SEALDD measurement policies for multi-modal flows |
| > Burst policy | O(See NOTE 1) | Policy used by the SEALDD layer to determine multi-modal data burst operations to perform (e.g., data bursts comprising messages from different VAL flows).  |
| > Synchronization policy | O(See NOTE 1) | Policy used by the SEALDD layer to determine multi-modal synchronization operations to perform (e.g., synchronizing arrival times of messages across different VAL flows).  |
| > Policy expiration time  | O | Indicates the validity period of the policy |
| NOTE 1: At least one of these multi-modal SEALDD policies shall be present in the request |

NOTE 2: The burst policy and the synchronization policy, and their use, are to be harmonized with KI#1 solutions.

### 7.x.4 Solution evaluation

Editor's note: This clause provides an evaluation of the solution. The evaluation should include the descriptions of the impacts to existing architectures.

\*\*\* End of Changes \*\*\*