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# **Home Control of AKA Issues**

### 3 **1** Revocation of AVs

TR-45 AHAG/ TR-45.2 Home Control Issues

- 4 In response to 3GPP S3's request for clarification regarding Authentication Vector (AV) 5 revocation, the TR-45 AHAG and TR-45.2 request that the HLR (HE) have the capability to:
  - 1) Revoke all AVs associated with a particular subscriber immediately (Service-affecting).
  - 2) Revoke the current AV after current services are rendered (Non-service-affecting).
- 8 Either command may be accompanied by new AVs.

## 9 2 Authentication Success Report

- 10At the HLR's option, the Serving Network (SN) must send an authentication success report to the11HLR (HE) when a new Security Association (SA) is created (i.e. new AV is used).
- 12 The authentication success report allows the HLR (HE) to monitor the duration of the SA within 13 the SN, which may be helpful to ANSI-41 service providers in preventing/reducing fraud. Also, it 14 may prevent certain denial of service attacks unique to ANSI-41 networks due to the method in 15 which ESN/MSID pairs are validated within ANSI-41 UIMs.

# 16 **3 3GPP–3GPP2 Reporting**

The positive authentication reporting mechanism may be limited to only apply to 3GPP-3GPP2
communications. However, a 3GPP SN must handle a 3GPP2 HLR (HE) request for
authentication success reporting.