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| Input Contribution |
| Meeting ID\* | SEC 24 |
| Title:\* | Addition of result code for impersonation error |
| Source:\* | Franck Le Gall & Scott Cadzow, Easy Global Market, franck.le-gall@eglobalmark.com |
| Uploaded Date:\* | 2016-07-14 |
| Document(s) Impacted\* | TS003v1.4.2 and subsequent revisions |
| Intended purpose ofdocument:\* | [x]  Decision[ ]  Discussion[ ]  Information[ ]  Other <specify> |
| Decision requested or recommendation:\* | Addition of result code for impersonation error resulting from requirements analysis in TS-0003-V.1.4.2 |
| Template Version:23 February 2015 (Dot not modify) |

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# Introduction

In the extraction of a requirements catalogue from TS-0003-V1.4.2 the following text is found:

| Req\_no | Text | Source in document TS-0003V1.4.2 | Comment | TP to be defined |
| --- | --- | --- | --- | --- |
| TS-0003-22 | When the Registrar CSE receives a request,the Registrar CSE shall perform the following procedure.Figure 7.2-1: AE impersonation checking procedure 0. Security association establishment is performed.1. The AE sends a request to Hosting CSE via ist Registrar CSE (Hosting CSE is not represented on this figure and can either be the Registrar CSE or another CSE).2. The Registrar CSE checks if the value in the *From* parameter is the same as the ID associated in security association.3. If the value is not the same, the Registrar CSE sends a response with an impersonation error response code.4. The Registrar CSE performs procedures specified in clause 8.2 of oneM2M TS-0001 []. Depending on the number of Transit CSEs, the Registrar CSE either processes the request or forwards it to the Hosting CSE or to another Transit CSE. | 7.2 | This is a protocol test. Tests for both positive and negative behaviour are required. | Yes |

The text under step 3 above implies the existence of an impersonation error response code. When writing the resultant test purpose for the above requirement this is a problem.

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| **TP Id** | TP/oneM2M/CSE/SEC/BV/001 |
| **Test objective** | Check that the IUT accepts new registration request |
| **Reference** | TP\_SEC\_7\_1\_2, TS-0003-22 |
| **Config Id** | CF01 |
| **PICS Selection** | PICS\_CSE |
| **Notes** |  |
| **Initial conditions** | **with {** the IUT **being** in the "initial state" **}** |
| **Expected behaviour** | **Test events** | **Direction** |
| **when {** the IUT **receives** a valid #REQUEST request **from** AE **}** | IUT  AE |
| **then {** the IUT **sends** a Response message **containing**  *(not specified)***}** | IUT  AE |

In order to be able to complete the test it is essential to define the appropriate response code.

# Response code definition

The following response codes are proposed and map approximately to the HTTP error code 400 (Bad request):

* 6100 (Security error - not defined)
* 6101 (Security error - impersonation error)

For the specific case identified in clasue 7.2 of TS-0004-V.1.4.2 the response message 6101 as above should be returned in the response message.