

**3GPP TSG-CN Meeting #24  
02 – 04 June 2004, Seoul, KOREA**

**NP-040265**

**Source:** CN5 (OSA)  
**Title:** Rel-6 CR 29.198-03 OSA API Part 3: Framework (Add events to allow an entop to identify when a client app/service contract/service profile is being used)  
**Agenda item:** 9.7 (OSA Enhancements [\[OSA3\]](#))  
**Document for:** APPROVAL

---

| Doc-1st-  | Spec      | CR  | Rev | Phase | Subject   | Cat | Version | Doc-2nd-  | Workite |
|-----------|-----------|-----|-----|-------|---|-----|---------|-----------|---------|
| NP-040265 | 29.198-03 | 104 | -   | Rel-6 | Add events to allow an entop to identify when a client app/service contract/service profile is being used | F   | 6.0.1   | N5-040062 | OSA3    |

## CHANGE REQUEST

⌘ **29.198-03 CR 104** ⌘ rev **-** ⌘ Current version: **6.0.1** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps  ME  Radio Access Network  Core Network

|                        |   |                 |   |
|------------------------|---|-----------------|---|
| <b>Title:</b>          | ⌘ Add events to allow an entop to identify when a client app/service contract/service profile is being used   |                 |   |
| <b>Source:</b>         | ⌘ CN5 Parlay Gareth Carroll (Open API Solutions)  |                 |   |
| <b>Work item code:</b> | ⌘ OSA3  | <b>Date:</b>    | ⌘ 09/02/2004  |
| <b>Category:</b>       | ⌘ <b>F</b><br>Use <u>one</u> of the following categories:<br><b>F</b> (correction)<br><b>A</b> (corresponds to a correction in an earlier release)<br><b>B</b> (addition of feature),<br><b>C</b> (functional modification of feature)<br><b>D</b> (editorial modification)<br>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> . | <b>Release:</b> | ⌘ <b>REL-6</b><br>Use <u>one</u> of the following releases:<br>2 (GSM Phase 2)<br>R96 (Release 1996)<br>R97 (Release 1997)<br>R98 (Release 1998)<br>R99 (Release 1999)<br>Rel-4 (Release 4)<br>Rel-5 (Release 5)<br>Rel-6 (Release 6) |

**Reason for change:** ⌘ In the ETSI/Parlay version of OSA, the Enterprise Operator interfaces allow the Enterprise Operator to delete a client application from the Framework. It is not explicitly stated in the specification what the affect of deleting a client application that currently has an access session with the Framework is. If deleteClientApp deletes a client application, then it must, by necessity, end that application's access session and terminate any service instances it may have. It would be useful for the Enterprise Operator to be able to know before calling deleteClientApp whether the application has a session or not. It might be that if they know the client has an access session, then they might postpone the deletion until a later date.

Since the same data types are used in the ETSI/Parlay and the 3GPP OSA specifications, and since the intention is to keep the data types common between the specifications, any change to the datatypes in the ETSI/Parlay specification must also be reflected in the 3GPP specification.

**Summary of change:** ⌘ We propose to:

- Add a notification for an ent\_op of when one of its client applications has an access session with the Framework started or terminated/ended. For this we have to add events to TpFwEventCriteria with a note that the events are only available to enterprise operators (with invalid criteria being thrown otherwise).
- Add an event so that the enterprise operator knows when a service agreement has been signed/terminated (indicating the contract/profile that is being used) and can choose whether to continue with the delete or not.

**Consequences if not approved:** ⌘ This contribution was accepted for the Parlay specifications. If it is not approved for the 3GPP specification, then a misalignment will occur. Any misalignment between the ETSI/Parlay and 3GPP specifications will lead to incompatibilities between equipment developed from the ETSI/Parlay specifications and equipment developed from the 3GPP specifications.

It will force vendors to develop different versions of their OSA products, one for operators requiring support of 3GPP specifications, and one for all other operators.  
 This will increase development costs unnecessarily, increase the cost of deploying OSA, and fragment the single developer community which has formed around OSA.

| <b>Clauses affected:</b>     | ⌘ | 10.2   |   |   |  |   |  |   |  |   |                           |   |
|------------------------------|---|--|---|---|--|---|--|---|--|---|---------------------------|---|
| <b>Other specs affected:</b> | ⌘ | <table border="1"> <thead> <tr> <th>Y</th> <th>N</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </tbody> </table> | Y | N |  | X |  | X |  | X | Other core specifications | ⌘ |
|                              |   | Y  | N |   |  |   |  |   |  |   |                           |   |
|                              |   |  | X |   |  |   |  |   |  |   |                           |   |
|                              |   |  | X |   |  |   |  |   |  |   |                           |   |
|                              | X |  |   |   |  |   |  |   |  |   |                           |   |
|                              | X | Test specifications  |   |   |  |   |  |   |  |   |                           |   |
|                              | X | O&M Specifications   |   |   |  |   |  |   |  |   |                           |   |
| <b>Other comments:</b>       | ⌘ |  |   |   |  |   |  |   |  |   |                           |   |

## 10.2 Event Notification Data Definitions

### 10.2.1 TpFwEventName

Defines the name of event being notified.

| Name  | Value | Description  |
|---|-------|--|
| P_EVENT_FW_NAME_UNDEFINED                         | 0     | Undefined.   |
| P_EVENT_FW_SERVICE_AVAILABLE                      | 1     | Notification of SCS(s) available.  |
| P_EVENT_FW_SERVICE_UNAVAILABLE                    | 2     | Notification of SCS(s) becoming unavailable.   |
| P_EVENT_FW_MIGRATION_SERVICE_AVAILABLE            | 3     | Notification of a backwards compatible SCS becoming available, to which the application can migrate. |
| <a href="#">P_EVENT_FW_APP_SESSION_CREATED</a>    | 4     | <a href="#">Notification of an application&lt;-&gt;FW access session created. (See note 1)</a>       |
| <a href="#">P_EVENT_FW_APP_SESSION_TERMINATED</a> | 5     | <a href="#">Notification of an application&lt;-&gt;FW access session terminated. (See note 1)</a>    |
| <a href="#">P_EVENT_FW_APP_AGREEMENT_SIGNED</a>   | 6     | <a href="#">Notification that a service agreement has been signed. (See note 1)</a>                  |
| <a href="#">P_EVENT_FW_APP_AGREEMENT_ENDED</a>    | 7     | <a href="#">Notification that a service agreement has been ended/terminated. (See note 1)</a>        |

[Note 1: These events can only be requested by enterprise operators. If requested by any other entity then the method will throw the P\\_INVALID\\_CRITERIA exception.](#)

### 10.2.2 TpFwEventCriteria

Defines the [Tagged Choice of Data Elements](#) that specify the criteria for an event notification to be generated.

|  | Tag Element Type |  |
|--|------------------|--|
|  | TpFwEventName    |  |

| Tag Element Value                                 | Choice Element Type               | Choice Element Name                     |
|---|-----------------------------------|---|
| P_EVENT_FW_NAME_UNDEFINED                         | TpString                          | EventNameUndefined                      |
| P_EVENT_FW_SERVICE_AVAILABLE                      | TpServiceTypeNameList             | ServiceTypeNameList                     |
| P_EVENT_FW_SERVICE_UNAVAILABLE                    | TpServiceTypeNameList             | UnavailableServiceTypeNameList          |
| P_EVENT_FW_MIGRATION_SERVICE_AVAILABLE            | TpServiceTypeNameList             | CompatibleServiceTypeNameList           |
| <a href="#">P_EVENT_FW_APP_SESSION_CREATED</a>    | <a href="#">TpClientAppIDList</a> | <a href="#">ClientApplicationIDList</a> |
| <a href="#">P_EVENT_FW_APP_SESSION_TERMINATED</a> | <a href="#">TpClientAppIDList</a> | <a href="#">ClientApplicationIDList</a> |
| <a href="#">P_EVENT_FW_APP_AGREEMENT_SIGNED</a>   | <a href="#">TpClientAppIDList</a> | <a href="#">ClientApplicationIDList</a> |
| <a href="#">P_EVENT_FW_APP_AGREEMENT_ENDED</a>    | <a href="#">TpClientAppIDList</a> | <a href="#">ClientApplicationIDList</a> |

### 10.2.3 TpFwEventInfo

Defines the Tagged Choice of Data Elements that specifies the information returned to the application-client in an event notification.

|  | Tag Element Type |  |
|--|------------------|--|
|  | TpFwEventName    |  |

| Tag Element Value                                 | Choice Element Type               | Choice Element Name                 |
|---|-----------------------------------|-------------------------------------|
| P_EVENT_FW_NAME_UNDEFINED                         | TpString                          | EventNameUndefined                  |
| P_EVENT_FW_SERVICE_AVAILABLE                      | TpServiceIDList                   | ServiceIDList                       |
| P_EVENT_FW_SERVICE_UNAVAILABLE                    | TpServiceIDList                   | UnavailableServiceIDList            |
| P_EVENT_FW_MIGRATION_SERVICE_AVAILABLE            | TpFwMigrationServiceAvailableInfo | MigrationServiceAvailable           |
| <a href="#">P_EVENT_FW_APP_SESSION_CREATED</a>    | <a href="#">TpClientAppID</a>     | <a href="#">ClientApplicationID</a> |
| <a href="#">P_EVENT_FW_APP_SESSION_TERMINATED</a> | <a href="#">TpClientAppID</a>     | <a href="#">ClientApplicationID</a> |
| <a href="#">P_EVENT_FW_APP AGREEMENT SIGNED</a>   | <a href="#">TpFwAgreementInfo</a> | <a href="#">AgreementInfo</a>       |
| <a href="#">P_EVENT_FW_APP AGREEMENT ENDED</a>    | <a href="#">TpFwAgreementInfo</a> | <a href="#">AgreementInfo</a>       |

### 10.2.4 TpFwAgreementInfo

Defines the Sequence of Data Elements that specifies the information returned to the enterprise operator application in an event notification.

| Sequence Element Name               | Sequence Element Type               | Description  |
|-------------------------------------|-------------------------------------|--|
| <a href="#">ClientApplicationID</a> | <a href="#">TpClientAppID</a>       | The ID of the client application   |
| <a href="#">ServiceID</a>           | <a href="#">TpServiceID</a>         | The ID of the service for whom the agreement was signed/terminated                               |
| <a href="#">ServiceContractID</a>   | <a href="#">TpServiceContractID</a> | The ID of the service contract related to the agreement if available, an empty string otherwise. |
| <a href="#">ServiceProfileID</a>    | <a href="#">TpServiceProfileID</a>  | The ID of the service profile related to the agreement if available, an empty string otherwise.  |