

23-26 May, 2000

Yokohama, Japan

---

## Proposal for rejection of unciphered calls

**Source: France Telecom**

In TS 33.102 5.5.2, the security feature "configurability" is present and includes :

- Accepting/Rejecting incoming non-ciphered calls: the user and/or user's HE should be able to control whether the user accepts or rejects incoming non-ciphered calls;

This contribution's objective is to propose a mechanism to allow implementation of this feature.

### **Overview of the proposed way forward:**

We propose to give some control to both the user and the operator in the following way:

There is a parameter contained in the SIM/USIM that can take the following values:

- Accept non ciphered connections without informing the user
- Accept non ciphered connections only if the user manually approves them (inform the user whenever a non ciphered connection is being established, and allow him to accept or reject it)
- Reject non ciphered connections and inform the user of the rejection
- Reject non ciphered connections without informing the user

The value can be preset by the operator when the SIM/USIM is personalized. This allow operators to pick a default mode of operation regarding non ciphered connections. The user is able to change this parameter through a security menu in the terminal.

When the terminal is powered up, or a SIM/UICC inserted in it, the parameter is sent to the terminal. The rejection of a non ciphered connection is done in the terminal and implemented along the ciphering indicator. Terminals behave according to the value of the parameter, sending if needed information to the user and either proceeding with the connection or releasing it.

In case of the rejection of a non ciphered connection by the terminal, the terminal shall inform the network in order to avoid that the network keeps trying establishing a non ciphered connection with the terminal not knowing why the previous attempt failed. Whether this would require a new signaling message on the radio interface or could use an existing signaling message remains to be determined.

**Work to be done and involved groups:**

T3/SMG9 needs to be involved to define this new parameter and to include modifications necessary on the SIM/ME and USIM/ME interfaces.

T2 needs to be involved to introduce the rejection of non ciphered connections by the terminal according to the parameter, for modifications of the SIM/ME and USIM/ME interfaces, and to allow the user to modify the parameter.

RAN(2?) needs to be involved to define a message of information indication that a connection has been rejected because it was not ciphered.

CN(1?) needs to be involved to define how the networks reacts when it is informed that a non-ciphered connection has been rejected.