

**Agenda Item:** 6.8

**Source:** Ericsson

**Title:** **Inter System Handover with simultaneous IP and PSTN/ISDN domain services**

**Document for:** Decision

---

## **1 Introduction**

This contribution propose a chapter describing the Interaction between PSTN/ISDN domain services and the IP domain services with regards to Inter System handover.

## **2 Inter System Handover with simultaneous IP and PSTN/ISDN domain services**

### *2.1 Inter System Handover UTRAN to GSM/BSS*

For a UE in Cell Connected state on a dedicated channel using both PSTN/ISDN and IP Domain services the Inter System handover procedure is based on measurement reports from the UE but initiated from UTRAN.

The UE perform the Inter System handover from UTRAN Connected mode to GSM Connected mode first. When the UE have sent handover complete message to GSM/BSS the UE initiate a temporary block flow towards GPRS and sends a RA update request.

If the Inter System handover from UTRAN Connected mode to GSM Connected mode was successful the handover is considered as successful regardless if the UE was able to establish a temporary block flow or not towards GPRS.

In case of Inter System handover failure the UE have the possibility to go back to UTRAN Connected mode and re-establish the connection in the state it originated from without attempting to establish a temporary block flow. If the UE have the option to try to establish a temporary block flow towards GSM/GPRS after inter system handover failure is FFS.

### *2.2 Inter System Handover GSM/BSS to UTRAN*

For a UE in GSM Connected mode using both PSTN/ISDN and IP Domain services the Inter System handover procedure is based on measurement reports from the UE but initiated from GSM/BSS.

The UE perform the Inter System handover from GSM Connected mode to UTRAN Connected mode.

In UTRAN Connected mode both services are established in parallel.

If the Inter System handover from GSM Connected mode to UTRAN Connected mode was successful the handover is considered as successful.

In case of Inter System handover failure the UE have the possibility to go back to GSM Connected mode and re-establish the connection in the state it originated from.

## **3 Proposal**

It is proposed that chapter 2 in this document is included as a new subchapter of chapter 5 in S2.03 [1].

## 4 References

[1] TSGR2#3(99)339, S2.03: UE functions and Interlayer Procedures in Connected Mode, v 0.3.0, Source: Editor