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R2-001547

Source: TSG-RAN WG2

To: TSG-RAN WG1, TSG-RAN WG3

Title: Response to LS (R3-001949) on CFN handling during hard handover

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TSG-RAN WG2 thanks TSG-RAN WG3 for their liaison on CFN handling during hard handover.

The questions were discussed during WG2#14 and WG2 would like to answer to the following questions:

- *In which cases can the SFN_{target} not be measured by the UE before handover?*

The SFN_{target} is usually not measured prior to hard handover. Especially, the SFN_{target} cannot be measured prior interfrequency handover.

- *What value of OFF_{target} is reported by the UE in case the SFN_{target} cannot be measured by the UE before handover?*

In case the OFF_{target} cannot be measured by the UE before handover no value for OFF should be reported by the UE to the network.

In 25.215 it is specified that in this case a value OFF is reported to be zero. R2 would kindly ask R1 to remove this information from their specification.

- *Does the UE report any error indication to the UTRAN in case the SFN_{target} cannot be measured by the UE before handover? If not, could RAN WG2 introduce such an indication?*

See answer to previous question. In case SFN_{target} could not be measured, OFF_{target} is not included in the measurement report.

- *Is there any problem if the CFN jumps (i.e. there is a discontinuity in the CFN) during handover?*

WG2 does not see any problems in case of discontinuity of the CFN during hard handover provided that the HFN is incremented in order to avoid repetitive usage of the same values for ciphering. A corresponding CR has been agreed to 25.331.

- *Is it acceptable to have a discontinuity of the TTI during handover (due to the discontinuity in the CFN)?*

WG2s point of view is that this the usual case in performing hard handover. Therefore it is seen as acceptable by WG2.

- *How does currently the UE behave when it receives a new value of the DOFF parameter in the PHYSICAL CHANNEL RECONFIGURATION message?*

A hard handover is handled the same way as the setup of the first radio link. Therefore the received DOFF parameter value is used in the same way as during setup of the first radio link.