Agenda Item: 13.1

Source: Nokia

Title: Handling of Compatibility Information for the Iub/Iur DCH FP

Document for: Approval

_____

1   Introduction

This paper discusses about the handling of compatibility information for the Iub/Iur DCH Frame Protocol, and proposes that the used FP version number shall be defined via control plane in Iur interface.

2   Discussion

Modification of user plane protocol for dedicated channels (and the user plane protocols in general) is envisaged in the future releases of the UTRAN specifications, in order to support new data frames structures and new control frames procedures. It is recommended that the release '99 of the UTRAN specification provides an efficient solution for the handling of the backward compatibility when new releases of the Frame Protocol are introduced in one operating UTRAN.

O&M settings (or logical O&M procedures) allow the definition of the used version of the Frame Protocols in one Iub interface (between one CRC and the Node B).

This solution is not applicable when a SRNC need to setup a FP connection towards a drift RNS, because SRNC shall know the FP version supported by each drift Node B, and this requires complex O&M settings.

It is proposed that at the RL setup the SRNC indicates (in the RL SETUP REQUEST message) the "FP version number" to be used by the DRNS. If the drift Node B does not support this version number, it may either respond with a RL SETUP FAILURE message (cause: FP version not supported), or indicate in the RL SETUP RESPONSE message a lower FP version number that is supported.

3   Proposals

- Include the parameter 'Frame Protocol version' as mandatory parameter in RNSAP RL SETUP REQUEST (in [25.423], no indentation). The parameter has the following definition:

    Frame Protocol version

    Indicates the version number of the Frame Protocol for the user plane. The only possible value is currently "UTRAN release '99".

- Include the parameter 'FP protocol version' as optional parameter in RNSAP RL SETUP RESPONSE (in [25.423], no indentation).

- Add the following sentence in sections 8.2.1, of [25.423]:

    "The SRNC indicates the requested version of the user plane Frame Protocols in the RL SETUP REQUEST MESSAGE. If the requested version is not supported by the drift Node B, DRNC may either respond with a RL SETUP FAILURE message (cause: FP version not

supported), or indicate in the RL SETUP RESPONSE message a lower FP version number that is supported.

4   References

[25.423]   *RNSAP specification v.1.3.1*