TSG-RAN Meeting #12　　　　　　　　　　　　　　　　　　　　*RP-010494*
Stockholm, Sweden, 12 - 15 June 2001

Title: Isolated Impact CRs

Source: Motorola, Nortel

Agenda item: 8

Document for: Discussion and decision

Introduction

RAN #12 discussed the term backwards compatible when used to describe CRs that correct faults in a specification in a manner that does not affect other currently correctly working functions. It was agreed that this term does not correctly describe the current understanding.

A new term, "Isolated Impact", and its definition, is proposed in this document. This is the same definition as RAN WG2 has already accepted, but modified to use the new terminology.

Definition of an Isolated Impact change

A Change implemented in version N of a 3GPP release has "Isolated Impact" when the following conditions are all met:
- Any functionality that was working in versions prior to version N still works with a UE that implements version N and a network implementing version N-1
- Any functionality that was working in versions prior to version N still works with a network that implements version N and a UE implementing version N-1
- Any functionality that was working in versions prior to version N still works with a UE that implements version N and a network implementing version N

Only consideration of interworking with version N-1 is required. This should permit interworking with any prior versions of the specifications in which the functionality was working, although exceptions may exist.

An "Isolated Impact" change needs to be implemented by networks and UEs if they support the corrected functionality so that the standard (and the functionality that it intends to correct) works.

Possible actions when a functionality is found erroneous in release 99
- Make an "Isolated Impact" change that corrects or deletes the function
- Make a non "Isolated Impact" change that corrects the function
- State that the erroneous function is not supported in release 99, and make the correction in the next release

Action when a functionality is found ambiguous in release 99, or some text needed to clarify a common understanding
- Provide necessary clarifications
- State
- « Correction to a function where the specification was :
    - ambiguous or not sufficiently explicit.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when there are conflicting descriptions of a functionality in release 99
- Resolve conflict
- State
- « Correction to a function where the specification was :
    - Containing some contradictions.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when procedural text or rules missing for a functionality in release 99
- Add new description text
- State
- « Correction to a function where the specification was :
    - Procedural text or rules were missing.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Note: a combination of the 3 cases above may be used depending on the CR.

Impact analysis
An impact analysis should provide the following:
- Define clearly the functionality which does not work
- Describe the correction which is being brought
- When the change is not "Isolated Impact", state the consequence in the following cases:
    - Network implements the change, but not the UE
    - UE implements the change, but not the network