

Source: TSGN
Title: Minutes of multicall ad-hoc meeting 14.12.1999
Agenda item: 5.7.2
Document for: Decision

Multicall ad-hoc meeting was held after closing the TSGN #6 plenary for 14.12.1999. The meeting took place at the venue of the plenary meeting.

To clarify the multicall concept and to align the understanding in different working groups one successful multicall scenario was drafted.

The conditions for setting up a multicall, successful scenario:

1. MSC/VLR support of multicall.
2. MSC/VLR checks the subscription for multicall service based on its image of HLR subscriber data record.
3. MSC does the dynamic checking of the current calls to the target subscriber: number of calls and number of speech calls and the type of the incoming call. (allowing up to max. number of simultaneous calls and up to 1 speech call at a time)
4. SETUP is sent to the MS, does the MS reject the call?
5. MS responds with CALL_CONF(new SI) requesting new RAB -> ALERTing...
6. RAN decides whether it can allocate more RABs to this MS (congestion!)
7. Traffic channel allocation.
8. CONNECT

Agreed working assumptions:

- interaction between SS and multicall -> this must be covered as the current 23.083, 24.083 CW specifications does not allow multicall.
- The SS issues must be covered in N-SS Ad-hoc
- There will be just one call being set up at a time just as before.
- Any new call should be offered as multicall up to the max. number of calls. After that CW, if applicable, should be offered.
- Stage 1.5 is needed to coordinate the work of different WGs.
- Proposal to have the WI functionally frozen in R99, the status to be checked in TSGN #7 and Stage 1.5 and detailed open issues list will need to be reviewed then.
- A suitable place and time for an ad-hoc meeting should be found. AP:N-SS Chair

If the user has got a speech call and the incoming call is a speech call then the user is busy. After this the normal CW criteria applies and CW may still be possible.

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Open issues:

1. Does the mobile indicate its multicall capability in MS CM or does the MSC just attempt to setup the call and see how the MS reacts?
2. Is it necessary for the user to be able to refuse taking an offered second call as parallel multicall but to put the existing one on hold and to take the new one as waiting call? -> This would be difficult to implement, working assumption that this can not be done but the other call must be rejected.
3. The same situation the other way round, i.e. MS has got a call active and a new MO call is being attempted indicating a new SI to request for a new RAB. How does the network cope with this situation if it has got no available channels? -> negotiating down to CW / CH is difficult, working assumption for the NW to reject the additional call.
4. In case of multiple existing calls then on which one does a new call wait on if it being offered as waiting call? -> AP: N-SS ad-hoc to figure out how to handle this situation.