

3GPP2 X.S0004-331-E

v 1.0

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3RD GENERATION
PARTNERSHIP
PROJECT 2
"3GPP2"

Mobile Application Part (MAP) -

VOICE FEATURE SCENARIOS: PRIORITY ACCESS AND CHANNEL ASSIGNMENT

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REVISION HISTORY

Revision	Date	Remarks
X.S0004-331-E v1.0	April 2008	Initial publication.

1 INTRODUCTION

Unless otherwise noted, the scenarios in this section depict features operating individually; i.e., feature interactions are not considered unless specifically noted.

Also, please note that the scenarios in this section do not include a complete listing of operation parameters, either in the figures or in the accompanying text descriptions. Parameters are included where they are deemed necessary to improve the understanding of the scenario. For a complete description of the parameters associated with each operation, refer to Parts 540 and 550.

2 PRIORITY ACCESS AND CHANNEL ASSIGNMENT

This section depicts the interactions between network entities in various situations related to automatic roaming and Password Call Acceptance (PACA). These scenarios are for illustrative purposes only.

2.1 Successful PACA Activation

This scenario describes the successful activation of PACA by an authorized MS.

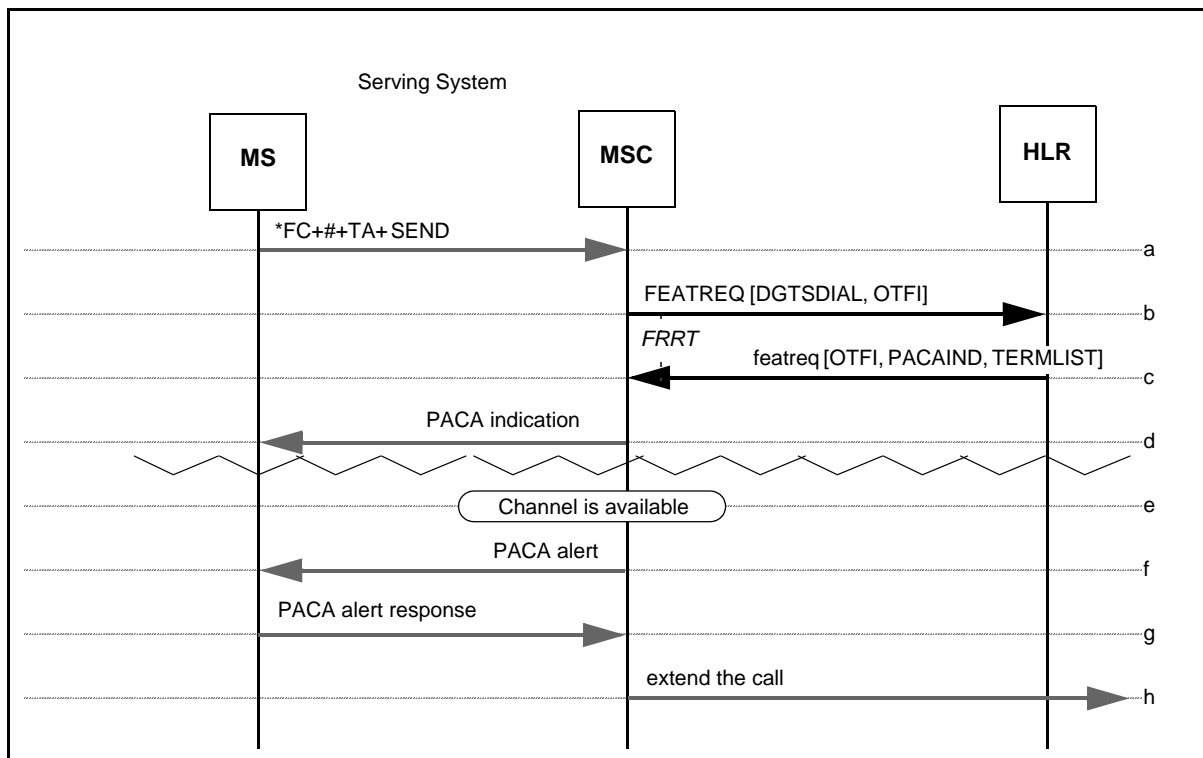


Figure 1 — Successful PACA Activation

- a. A call origination and dialed digits are received by the Serving MSC. During analysis of the dialed digits, the Serving MSC detects a feature code string.
- b. The dialed digits are included in a FEATREQ and sent from the Serving MSC to the HLR associated with the MS. The Serving MSC also includes the OneTimeFeatureIndicator parameter if any of its status bits are set (i.e., if any special feature processing is active for the call).

Additional Parameters	Usage	Type
OTFI (Current Call)	Indicates special feature processing active for duration of call in progress.	O

- c. The HLR detects the authorized PACA request and sends a featreq to the Serving MSC. The featreq includes the PACA OneTimeFeatureIndicator and call routing information and the PACA indicator in the TerminationList parameter. The Serving MSC initiates PACA feature processing for the served MS using the information provided in the response.

Additional Parameters	Usage	Type
OTFI (Current Call)	Modify feature processing for duration of call in progress = Activate PACA.	R
PACA Indicator (Current Call)	Activate PACA at the indicated priority level.	R

- d. The Serving MSC queues the request and sends a successful PACA indication to the served MS.
- e. When a voice or traffic channel becomes available, the oldest and highest priority call request is identified. In this scenario, this corresponds to the served MS.
- f. The Serving MSC alerts the served MS using the automatic recall distinctive alerting cadence.
- g. The served MS answers the PACA alert.
- h. The Serving MSC allows the originating call to proceed and discards the PACA OneTimeFeatureIndicator.

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2.2 Aborted PACA Activation

This scenario describes an aborted activation of PACA by an authorized MS.

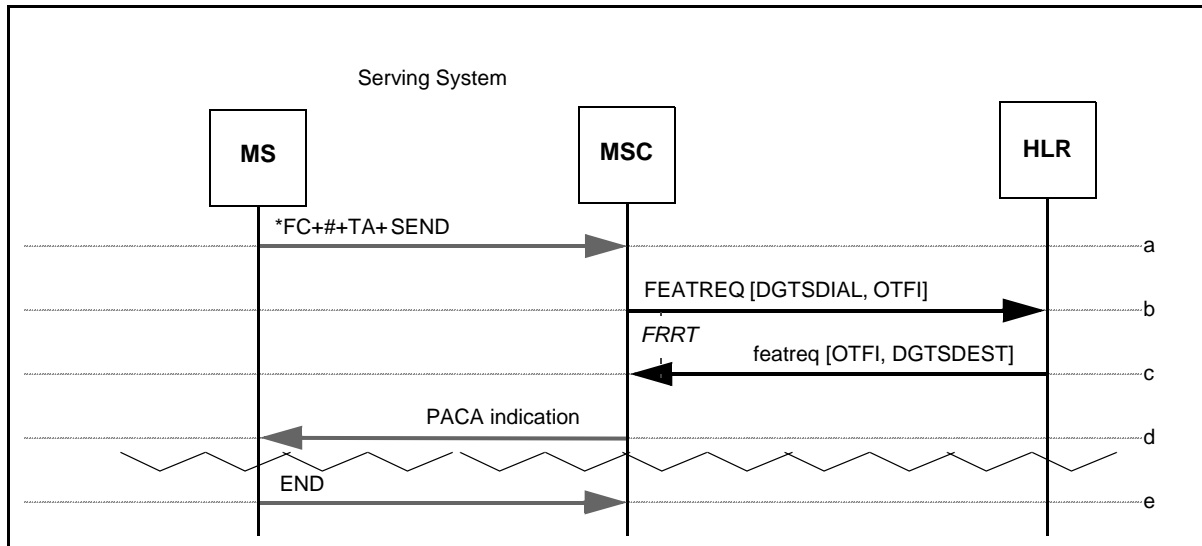


Figure 2 — Aborted PACA Activation

- a-d. Same as PACA, [Section 2.1](#), Steps a-d.
- e. The served MS chooses to abort the PACA call by pressing the `END` key. At this point, the priority call request is removed from the Serving MSC's queue.

2.3 Unsuccessful PACA Activation

This scenario describes an unsuccessful attempt to activate PACA by an MS.

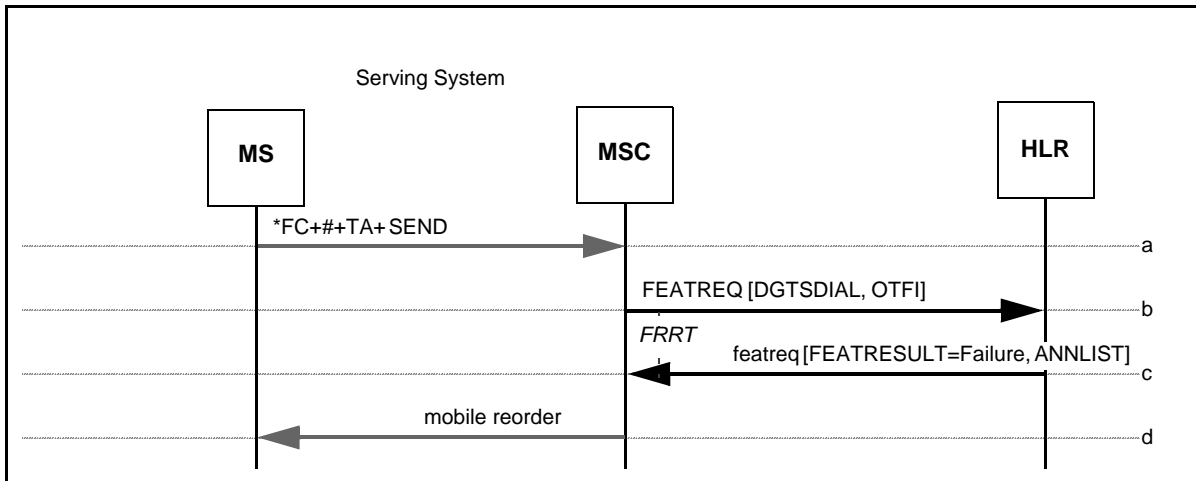


Figure 3 — Unsuccessful PACA Activation with Call

- a-b. Same as PACA, [Section 2.1](#), Steps a-b.
- c. The HLR sends a `featreq` to the Serving MSC, indicating an unsuccessful feature request. The `featreq` also includes the `AnnouncementList` parameter, indicating that a mobile reorder tone should be applied to the MS.
- d. Since the `featreq` indicates that an unsuccessful feature request has been made, the Serving MSC provides treatment to the served MS as indicated in the `ACTCODE` parameter. In this case, the treatment is to apply mobile reorder.