

**Source:** T3

**Title:** CRs to TS 31.111: USIM Application toolkit (USAT)

**Document for:** Approval

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This document contains the following change requests:

<b>T3 Doc</b>	<b>Spec</b>	<b>CR</b>	<b>Rev</b>	<b>Rel</b>	<b>Subject</b>	<b>Cat</b>	<b>Version-Current</b>	<b>Version-New</b>
T3-030700	31.111	096	-	Rel-4	Update of the PROVIDE LOCAL INFORMATION functionality.	F	4.10.0	4.11.0
T3-030701	31.111	097	-	Rel-5	Missing description of TERMINAL PROFILE values for PROVIDE LOCAL INFORMATION functionality.	F	5.4.0	5.5.0
T3-030698	31.111	098	-	Rel-4	Correction of Provide Local Information in case of roaming onto a GSM access network	F	4.10.0	4.11.0
T3-030699	31.111	099	-	Rel-5	Correction of Provide Local Information in case of roaming onto a GSM access network	F	5.4.0	5.5.0

## CHANGE REQUEST

# 31.111 CR 098 # rev - # Current version: 4.10.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	#	Correction of Provide Local Information in case of roaming onto a GSM access network	
<b>Source:</b>	#	T3	
<b>Work item code:</b>	#	TEI	<b>Date:</b> # 21/08/2003
<b>Category:</b>	#	<b>F</b>	<b>Release:</b> # Rel-4
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		<b>F</b> (correction)	2 (GSM Phase 2)
		<b>A</b> (corresponds to a correction in an earlier release)	R96 (Release 1996)
		<b>B</b> (addition of feature),	R97 (Release 1997)
		<b>C</b> (functional modification of feature)	R98 (Release 1998)
		<b>D</b> (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	#	3G mobiles can provide roaming capabilities over a GSM access network. But when doing this, it has to be indicated that some functionalities can be reduced. It is the case for the PROVIDE LOCAL INFORMATION. The way this command is described in the current specification doesn't clearly explain that, and this may cause problems when roaming.
<b>Summary of change:</b>	#	In the Local Information Simple-TLV coding, addition paragraph about the unavailability of the Extended Cell Identity Value in a GSM network. When roaming in a GSM network, this field doesn't have to be transmitted by the mobile to the card.
<b>Consequences if not approved:</b>	#	Behaviour of cards and mobiles is unclear and might be wrong when roaming onto a GSM access network and asking for local information.

<b>Clauses affected:</b>	#	8.19				
<b>Other specs affected:</b>	#	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
<b>Other comments:</b>	#					

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.19 Location Information

Byte(s)	Description	Length
1	Location Information tag	1
2	Length = '09' or '07' (see note)	1
3 - 5	Mobile Country & Network Codes (MCC & MNC)	3
6 - 7	Location Area Code (LAC)	2
8 - 9	Cell Identity Value (Cell ID)	2
10 - 11	Extended Cell Identity Value (see note)	2

Note: The Extended Cell Identity Value is not available in GERAN. When in GERAN, this field shall not be present and the length field shall be set to '07'.

The mobile country code (MCC), the mobile network code (MNC) and the location area code (LAC) are coded as in 3GPP TS 24.008 [9].

For GERAN, the Cell Identity Value is coded as in 3GPP TS 24.008 [9].

For UTRAN, only the C-id part of the UC-id is returned in the Cell Identity Value (i.e. the 16 least significant bits of the UC-id), as defined in 3GPP TS 25.401 [35] and 3GPP TS 25.413 [36].

The Extended Cell identity Value is coded as the RNC-id part of the UC-id, as defined in 3GPP TS 25.401 [35] and 3GPP TS 25.413 [36]. It is left padded with zeros (this means that byte 10 contains the 4 most significant bits of the RNC-id value, and byte 11 contains the 8 least significant bits of the RNC-id value).

## CHANGE REQUEST

# **31.111 CR 099** # rev **-** # Current version: **5.4.0** #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	#	Correction of Provide Local Information in case of roaming onto a GSM access network	
<b>Source:</b>	#	T3	
<b>Work item code:</b>	#	TEI	<b>Date:</b> # 21/08/2003
<b>Category:</b>	#	<b>F</b>	<b>Release:</b> # Rel-5
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		<b>F</b> (correction)	2 (GSM Phase 2)
		<b>A</b> (corresponds to a correction in an earlier release)	R96 (Release 1996)
		<b>B</b> (addition of feature),	R97 (Release 1997)
		<b>C</b> (functional modification of feature)	R98 (Release 1998)
		<b>D</b> (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	#	3G mobiles can provide roaming capabilities over a GSM access network. But when doing this, it has to be indicated that some functionalities can be reduced. It is the case for the PROVIDE LOCAL INFORMATION. The way this command is described in the current specification doesn't clearly explain that, and this may cause problems when roaming.
<b>Summary of change:</b>	#	In the Local Information Simple-TLV coding, addition paragraph about the unavailability of the Extended Cell Identity Value in a GSM network. When roaming in a GSM network, this field doesn't have to be transmitted by the mobile to the card.
<b>Consequences if not approved:</b>	#	Behaviour of cards and mobiles is unclear and might be wrong when roaming onto a GSM access network and asking for local information.

<b>Clauses affected:</b>	#	8.19				
<b>Other specs affected:</b>	#	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Y	N					
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
		<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<input type="checkbox"/>	<input checked="" type="checkbox"/>					
<b>Other comments:</b>	#					

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.19 Location Information

Byte(s)	Description	Length
1	Location Information tag	1
2	Length = '09' of '07' ( <a href="#">see note</a> )	1
3 - 5	Mobile Country & Network Codes (MCC & MNC)	3
6 - 7	Location Area Code (LAC)	2
8 - 9	Cell Identity Value (Cell ID)	2
10 - 11	Extended Cell Identity Value ( <a href="#">see note</a> )	2
<a href="#">Note: The Extended Cell Identity Value is not available in GERAN. When in GERAN, this field shall not be present and the length field shall be set to '07'.</a>		

The mobile country code (MCC), the mobile network code (MNC) and the location area code (LAC) are coded as in 3GPP TS 24.008 [9].

For GERAN, the Cell Identity Value is coded as in 3GPP TS 24.008 [9].

For UTRAN, only the C-id part of the UC-id is returned in the Cell Identity Value (i.e. the 16 least significant bits of the UC-id), as defined in 3GPP TS 25.401 [35] and 3GPP TS 25.413 [36].

The Extended Cell identity Value is coded as the RNC-id part of the UC-id, as defined in 3GPP TS 25.401 [35] and 3GPP TS 25.413 [36]. It is left padded with zeros (this means that byte 10 contains the 4 most significant bits of the RNC-id value, and byte 11 contains the 8 least significant bits of the RNC-id value).

CR-Form-v7

## CHANGE REQUEST

# **31.111 CR 096** # rev **-** # Current version: **4.a.0** #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Update of the PROVIDE LOCAL INFORMATION functionality.		
<b>Source:</b>	# T3		
<b>Work item code:</b>	# TEI	<b>Date:</b>	# 21/08/2003
<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)		2 (GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
	<b>B</b> (addition of feature),		R97 (Release 1997)
	<b>C</b> (functional modification of feature)		R98 (Release 1998)
	<b>D</b> (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	# In the SCP TS 102 223, the values "00" and "02" for PROVIDE LOCAL INFORMATION in TERMINAL PROFILE are NAA dependant and need to be described in each particular technology specifications.
<b>Summary of change:</b>	# Add explanation of values "00" and "02" for PROVIDE LOCAL INFORMATION in TERMINAL PROFILE for 3G purpose.
<b>Consequences if not approved:</b>	# Impossible implementation due to missing information in 3G TS 31.111

<b>Clauses affected:</b>	# 8.6										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	#	X	#	X	#	X	Other core specifications	#
Y	N										
#	X										
#	X										
#	X										
		Test specifications	#								
		O&M Specifications	#								
<b>Other comments:</b>	#										

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.6 Command details

The content and the coding of the Command Details TLV object is defined in TS 102 223 [32], except for the following.

The coding of the Command Qualifier is defined for the following commands:

- SEND SS:
  - this byte is RFU.
- SEND USSD:
  - this byte is RFU.
- PROVIDE LOCAL INFORMATION. The following additional values ~~is~~are defined:
  - '00' = Location Information (MCC, MNC, LAC, ~~and~~Cell Identity and Extended Cell Identity)
  - '02' = Network Measurement results.
  - '05' = Timing Advance.

## CHANGE REQUEST

# 31.111 CR 097 # rev - # Current version: 5.4.0 #

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the # symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	#	Missing description of TERMINAL PROFILE values for PROVIDE LOCAL INFORMATION functionality.	
<b>Source:</b>	#	T3	
<b>Work item code:</b>	#	TEI	<b>Date:</b> # 21/08/2003
<b>Category:</b>	#	<b>F</b>	<b>Release:</b> # Rel-5
		Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	#	In the SCP TS 102 223, the values "00" and "02" for PROVIDE LOCAL INFORMATION in TERMINAL PROFILE are NAA dependant and need to be described in each particular technology specifications.
<b>Summary of change:</b>	#	Add explanation of values "00" and "02" for PROVIDE LOCAL INFORMATION in TERMINAL PROFILE for 3G purpose.
<b>Consequences if not approved:</b>	#	Impossible implementation due to missing information in 3G TS 31.111

<b>Clauses affected:</b>	#	8.6								
<b>Other specs affected:</b>	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">#</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N	#	X	#	X	#	X
Y	N									
#	X									
#	X									
#	X									
<b>Other comments:</b>	#									

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