

Anexo 7 - Caderno de Testes Voz IR24



Claro GPRS Checklist



GPRS Information				
APN Operator Identifier:	mnc005.mcc724.gprs			
DNC ID address & name (minsem).	201.23.188.12/DNSRJ01.mnc005.mcc724.gprs			
DNS IP address & name (primary):	201.23.173.12/DNSSM01.mnc005.mcc724.gprs			
DNS IP address & name (secondary):	201.23.188.44/ DNSRJ02.mnc005.mcc724.gprs			
DNS IF address & flatfle (secondary).	201.23.173.44/ DNSSM02.mnc005.mcc724.gprs			
<u> </u>	200.169.127.0/27			
<u> </u>	201.23.160.96/27			
<u> </u>	201.23.164.0/26			
	201.23.164.64/26			
-	201.23.165.0/26			
	201.23.165.64/29			
	201.23.165.128/28			
	201.23.165.192/26			
-	201.23.166.0 /27			
	201.23.170.64/29 201.23.170.128/28			
	201.23.170.126/28			
	201.23.170.192/29			
	201.23.171.0/26			
	201.23.171.64/29			
	201.23.171.128/28			
	201.23.171.192/26			
	201.23.173.0/26			
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	201.23.174.0/26			
	201.23.174.64/29			
	201.23.174.128/28			
	201.23.174.192/26			
<u> </u>	201.23.175.0/27			
	201.23.182.32/28			
	201.23.182.64/29			
Inter PLMN GSN Backbone IP address range(s):	201.23.182.80/29 201.23.182.128/28			
-				
	201.23.182.144/28 201.23.182.192/29			
	201.23.182.192/29			
	201.23.183.0/20			
	201.23.187.0/27			
	201.23.187.32/27			
	201.23.187.64/27			
	201.23.187.96/27			
	201.23.187.128/27			
	201.23.187.160/27			
<u> </u>	201.23.187.224/27			
<u> </u>	201.23.187.192/27			
<u> </u>	201.23.188.0/26			
	201.23.188.96/28			
	201.23.191.64/29			
<u> </u>	201.23.191.128/28			
<u> </u>	201.23.191.144/28			
<u> </u>	201.23.191.192/29 201.23.189.0/24			
<u> </u>	201.23.189.0/24			
	201.23.175.64/27			
	201.23.175.96/27			
	201.23.175.30,27			
<u> </u>	201.23.183.64/27			
	201.23.183.96/27			
<u> </u>	201.23.191.0/26			

Coversheet

Autonomous System Number:	22085		
Used GRX operator(s):	France Telecom & Aicent		
	claro.com.br		
	bandalarga.claro.com.br		
List of APN's available for testing:	java.claro.com.br		
	streaming.claro.com.br		
	blackberry.net		
	poc.claro.com.br		
GTP Version	1		
Vendor information SW/HW version for core NW (SGSN,	Frience Q Nalia		
GGSN, HLR): (optional field)	Ericsson & Nokia		

APN	Details			
Java				
APN	java.claro.com.br			
VPLMNACC	no			
Username	claro			
Password	claro			
Inte	ernet			
APN	claro.com.br			
VPLMNACC	no			
Username	claro			
Password	claro			
M	MS			
APN	mms.claro.com.br			
VPLMNACC	no			
Username	claro			
Password	claro			
MMS gateway IP address	200.169.126.10			
Port primary /secondary	WAP 1.0: 9200/9201/9202/9203 or WAP 2.0: 8799			
Homepage	http://mms.claro.com.br			
W	/AP			
APN	wap.claro.com.br			
VPLMNACC	no			
Username	claro			
Password	claro			
WAP Gateway IP address	200.169.126.11			
Port primary /secondary	WAP 1.0: 9200/9201/9202/9203 or WAP 2.0: 8799			
Homepage	http://wap.claro.com.br			
	aming			
APN	streaming.claro.com.br			
VPLMNACC	no			
Username	claro			
Password	claro			



APPENDIX A

IREG GPRS Test Results for Mobile Stations of HPLMN(a) Roaming to VPLMN(b)



A.1.1 Roaming Scenario to be Tested

HPLMN(a) GPRS R97/98 GPRS R99/UMTS GPRS R97/98 GPRS R99/UMTS	VPLMN(b) GPRS R97/98 GPRS R97/98 GPRS R99/UMTS GPRS R99/UMTS	
ı	A.1.2 Network Opera	tor Information
HPLMN (a)		CLARO - BRAZIL
VPLMN (b)		
VPLIVIN (B)		
Date of Tests		
Testing personnel PLMN(a)		
Tel/Fax:		
E-mail:		
Taction and account DI MAI/h		
Testing personnel PLMN(b) Tel/Fax:		
E-mail:	-	
HLR Identity/Identities		see IR21
HLR Manufacturer(s)		ERICSSON
HLR Software Build Level(s)		R10
Anexo 7 - Caderno de Testes Voz IR2	:4	
SGSN Identity/Identities SGSN Manufacturer(s)		
SGSN Software Build Level(s)		
Occiv conware band level(s)		
GGSN Identity/Identities		200.169.127.49 / 200.169.124.49
H-GGSN Manufacturer(s)		NORTEL
H-GGSN Software Build Level(s)		GPRS 5.0
SMS-SC Identity / Identities		see IR21
SMS-SC Manufacturer(s) SMS-SC Software Build Level(s)		see IR21
Sivis-30 Software Build Lever(s)		366 11(21
MMSC Identity / Identities		see IR21
MMSC Manufacturer(s)		see IR21
MMSC Software Build Level(s)		see IR21
Comments		



MSC/VLR Record contents:

A 2 1 1

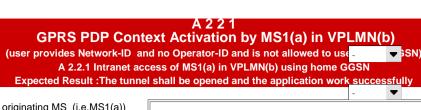




A 2.1.1 GPRS-Attach of MS1(a) in VPLMN(b) (GPRS Attach only)

(a)	MSISDN		
(b)	IMSI		
(c)	HLR E.164 address		
	SGSN Record contents:		
(d)	MSISDN		
(e)	IMSI		
(f)	MM State		
(g)	SGSN Address		
(h)	Comments		
	Test case Result		•
	Signature (Anexo 7 -	Date Time	







(a)	MSISDN of originating MS (i.e.MS1(a))	
(b)	Access Point Name keyed into MS1(a)	wap.claro.com.br - ▼
(c)	MS type & software used	
(d)	Time of PDP-context activation	hr/min/sec
(e)	Application usage successful ?	- v
(f)	Time of PDP-context deactivation	hr/min/sec
(g)	Overall duration of context	hr/min/sec
(h)	Total Data Sent during context	bytes
(i)	Total Data Received during context	bytes
(j)	IP address assigned	
(k)	Comments	
	Test case Anexo 7 - Caderno de Testes V	/oz IR24 ▼
	Signature of Tester	Date



A 2 2 4 - A





(a)	MSISDN of originating MS (i.e.MS1(a))	
(b)	Access Point Name keyed into MS1(a)	claro.com.br
(c)	MS type & software used	
(d)	Time of PDP-context activation	hr/min/sec
(e)	Application usage successful ?	▼
(f)	Time of PDP-context deactivation	hr/min/sec
(g)	Overall duration of context	hr/min/sec
(h)	Total Data Sent during context	bytes
(i)	Total Data Received during context	bytes
(j)	IP address assigned	
(k)	Comments	
	Test case Result Anexo 7 - Caderno de Testes Signature of Tester	Voz IR24 Date
		•



A 2 2 4 - B



ISP/Internet access of MS1(a) in VPLMN(b) using home GGSN (user provides Network-ID and no Operator-ID and is not allowed to use visited GGSN) Expected Result :The tunnel shall be opened and the application work successfully

(a)	MSISDN of originating MS (i.e.MS1(a))					
(b)	Access Point Name keyed into MS1(a)		java.claro.con	n.br		
(c)	MS type & software used					
(d)	Time of PDP-context activation		hr/min/sec			
(e)	Application usage successful ?		▼			
(f)	Time of PDP-context deactivation		hr/min/sec			
(g)	Overall duration of context		hr/min/sec			
(h)	Total Data Sent during context		bytes			
(i)	Total Data Received during context		bytes			
(j)	IP address assigned					
(k)	Comments		Optional			
	Test case Result Anexo 7 - Caderno de Testes Vo Signature of Tester	oz IR24	Date			V
				<u> </u>	<u> </u>	-
					ļ	-
					No	•
					No	•
						•



A 2 4 Operator Control of Service



A 2.4.1 Location cancellation for MS1(a)-Subscription held in VPLMN(b)

	SGSN Record contents prior to cancellation	?				
(a)	MSISDN					
(b)	IMSI					
(c)	SGSN Record Erased					•
(d)	GGSN(a) or GGSN (b) record erased?					•
(e)	PDP context deactivation successful?		Good		•	•
(f)	Time delay between HLR deleting subscript	ion and SGSN erasing re	ecord	No	▼ seco	onds.
(g)	Comments			No	•	
	Test case Result			-	▼	▼
	Signature of Tester		Date Time			
			111110	<u> </u>		
	Anexo 7 - Caderno de Testes Voz IR24					
	Anexo 7 - Caderno de Testes Voz IR24 A 2.4.2 Operator Determined Barring	for all MS init PDP con	text activa	ations of	MS1(a)P	LMN(b)
(a)		for all MS init PDP con	itext activa	ations of	MS1(a)P	PLMN(b)
(a) (b)	A 2.4.2 Operator Determined Barring			ations of	MS1(a)P	PLMN(b)
	A 2.4.2 Operator Determined Barring			ations of	MS1(a)P	PLMN(b)
(b)	A 2.4.2 Operator Determined Barring MSISDN of $MS_1(a)$ Operator performed barring towards PDP-c	ontext activation from HL		ations of	MS1(a)F	PLMN(b)
(b) (c)	A 2.4.2 Operator Determined Barring MSISDN of MS ₁ (a) Operator performed barring towards PDP-c SGSN record contains barring tags	ontext activation from HL		ations of	MS1(a)F	PLMN(b)
(b) (c) (d)	A 2.4.2 Operator Determined Barring MSISDN of MS ₁ (a) Operator performed barring towards PDP-c SGSN record contains barring tags Perform PDP-context activation from MS ₁ (a)	ontext activation from HL		ations of	MS1(a)F	PLMN(b)
(b) (c) (d)	A 2.4.2 Operator Determined Barring MSISDN of MS ₁ (a) Operator performed barring towards PDP-c SGSN record contains barring tags Perform PDP-context activation from MS ₁ (a) Comments	ontext activation from HL			MS1(a)F	PLMN(b)

Claro-

B 2.4.1

MMS Roaming: Mobile originated and terminated MMS (MS1(a) / MS2(a))



Send MO/MT Multimedia message (max. 30 kB) including pictureimage / voiceaudio / text

	Access Point Name keyed into MS	31(a) and M	IS1(b)	mms.cla	ro.com.br
(a)	MSISDN of MS1				
(b)	IMSI of MS1				
(c)	MSISDN of MS2				
(d)	IMSI of MS2				
(e)	Time of transmitting to MMSC			hr/min/sec	
(f)	Amount of data sent			bytes	▼
(g)	Amount of data received			bytes	No 🔻
(h)	Time of notification receipt of MMS	at MS2		Good	•
(i)	Time of message receipt of MMS a	at MS2		hr/min/sec	No 🔻
(j)	Amount of data sent			bytes	-
(k)	Amount of data received			bytes	
(I)	MS type & software used Anexo 7 - Caderno de Testes Voz	ID24			
(m)	Was message correctly received?	IN24	•		
(n)	Comments				
	Test case Result				▼
	Signature of Tester			Date	
	Expected Result	receives th	ends the message with ne notification and fetch eport is used, the delive rece	es the mes ery report s	ssage correctly. If case



APPENDIX C



Completion Certificate for IREG GRPS Testing for Inter-PLMN Roaming

Completion Certificate for MoU-IREGGRPS Testing for Inter-PLMN Roaming

This certificate confirm	s the successful con	npletion of mandatory	MoU-IREG-GI	PRS Tests for Mol	oile
Subscribers of	CLARO	PLMN (a)	visiting		PLMN (b)
					_
The roaming case tested was:					
HPLMN(a)		VPLMN(b)			
GPRS R97/98		GPRS R97/98	✓		
GPRS R99/UMT	S	GPRS R97/98			
GPRS R97/98		GPRS R99/UMTS			
GPRS R99/UMT	S	GPRS R99/UMTS			
The Services tested were:-					
GPRS attach on	ly				•
GPRS PDP con	text activation				•
Operator Contro	l of Service				•
Other comments	3				
				~	
The tests were completed on			date)		
Anexo 7 - Cader	no de Testes Voz IF	R24			
The testing team in PLMN (b)					
	were:				
The testing team in PLMN (a)		Claro			
(e)					
	were:				
Signed				Date	
of PLMN (b)					
Signed				Date	
Signed				Date	
of DLMNL(a)	Class				
of PLMN (a)	Claro				

End Of Appendix C

A 2.1.6. PSTN TELEPHONE(B) CALLS MS(A) ROAMED TO COUNTRY(B) - NO RESPONSE TO PAGING.

, ,	D: () (III DOTNI I I (I)					
(a)	Directory Number of ca	alling PSTN telephone(b)					
(b)	Number dialled by PST	TN Telephone(b)					
(c)	Time of start of call (i.e	e. last digit dialled)		hr/min/sec			
(d)	Time of start of "not re	achable" announcement		hr/min/sec			
(e)	Duration of announce	ment		secs			
(f)	Language of announce	ement					
(g)	Text of announcement						
(h)	Comments						
(i)	Testcase Result			•			
	Signature of Tester		Date				

A 2.2. SUPPLEMENTARY SERVICE TEST RESULTS

		A 2.2.1. BARRING OF ALL OUTGO	ING CALLS.[BAOC]
(a)	MSISDN of MS(a)			
(b)	Time of activation of B	AOC		hr/min/sec
(c)	Emergency code keye	d [i.e.112]		
(d)	Time of start of emerg	ency call (i.e. SEND key operation)		hr/min/sec
*(e)	Time of perceived ans	wer of call		hr/min/sec
*(f)	=	on (i.e. perceived answer until end of pective of charging policy for emerger		secs
(g)	Emergency Call succe	ssful ?		No 🔻
(h)	PSTN number keyed			
(i)	PSTN call successful	?		No 🔻
(j)	Time of deactivation of	BAOC		hr/min/sec
(k)	Comments			
(I)	Testcase Result			Not Performed $lacktriangle$
	Signature of Tester		Date	

A 2.2.2. BARRING OF OUTGOING INTERNATIONAL CALLS.[BOIC] (a) MSISDN of MS(a) Time of activation of BOIC hr/min/sec (b) Operator Service number or PSTN(b) number keyed (c) hr/min/sec (d) Time of start of national PSTN call (i.e. SEND key operation) Delay between SEND key operation and MS(a) receiving alerting indication secs (e) hr/min/sec *(f) Time of perceived answer of call *(g) Chargable Call Duration (i.e. perceived answer until end of call) secs No (h) Call routed to correct Operator position? (i) Home PLMN Country number keyed (j) Home PLMN Country call successful? hr/min/sec (k) Time of deactivation of BOIC (l) Comments (m) Testcase Result Not Performed Signature of Tester Date

A 2.2.3. BARRING OF OUTGOING INTERNATIONAL CALLS EXCEPT TO HOME PLMN COUNTRY. [BOIC-EXHC]

I)	General:	
(a)	Method of Supplementary Service Configuration [MS User/HLR operator]	•
(b)	Does the switch support the SS:BOICexHC?	•
(c)	MSISDN of MS(a)	
II)	Split into different cases if VPLMN(b) supports (i.e.A) or does not sup	oport (i.e.B) the SS:BOICexHC.
	A) Activated Service is BOICexHC (VPLMN supports SS:BOICexHC	
	A.1) Call to Home-PSTN-telephone(a):	hr/min/sec
(d)	Home PSTN Country number keyed	
(e)	Time of start of Home PSTN Country call (i.e. SEND key operation)	hr/min/sec
*(f)	Time of perceived answer of call	hr/min/sec
*(g)	Home PSTN Country call Chargable Call Duration (i.e. perceived answer until end of call)	secs
	A.2) Call to country where the MS is presently located:	
(h)	PSTN number of the country keyed, where MS(a) is presently locate	d
(i)	Time of start of call within the country where the MS(a) is presently located (i.e. SEND key operation)	hr/min/sec
*(j)	Time of perceived answer of call	hr/min/sec
*(k)	Chargable call duration, to the country where the MS(a) is presently (i.e. perceived answer until end of call)	ocated
	A.3) International Call, not to Home PLMN country and not to country MS is presently located:	where the
(I)	International (Non Home PLMN Country and non country where MS(a) is presently located) number keyed	
(nc)	International (Non-Home DI MNI County and non-county (1) and NO	a) ia
(m)	International (Non Home PLMN Country and non country where MS(presently located) call successful?	a) is No ▼

(n)	Time of deactivation of	BOICexHC		r	nr/min/sec	
	B) Activated Service is BOICexHC (VPLMN does not support SS:BOICexHC):					
	B.1) Call to country wh	ere the MS is presently located:				
(o)	PSTN number keyed					
(p)	Time of start of national PSTN call (i.e. SEND key operation)			r	nr/min/sec	
(q)	Time of perceived ans	wer of call		r	nr/min/sec	
(r)	PSTN Chargable Call Duration (i.e.perceived answer until end of cal				secs	
	B.2) Call to Home-PSTN-telephone(a):					
(s)	Home PSTN Country number keyed					
(t)	Home PSTN Country call successful ?			-	•	
III)	II) Results of this testcase and comments:					
(u)	Comments					
(v)	Testcase Result	-		Not Performed		
	Signature of Tester		Date			

A 2.2.4 BARRING OF ALL INCOMING CALLS [BAIC / BAICROAMING] MSISDN MS(a) (a) Time of activation of [BAIC / BAICroaming] hr/min/sec (b) **PSTN** number (c) Number keyed by PSTN (d) Call successful? No (e) Time of deactivation of [BAIC/BAICroaming] hr/min/sec (f) Comments (g) (h) Testcase Result Not Performed Signature of Tester Date

A 2.2.6. CALL FORWARDING ON NOT REACHABLE (AFTER IMSI DETACH, SWITCH THE PHONE OFF).[CFNRC]

(a)	MSISDN of MS(a1)	
(b)	Time of activation of CFNRc	hr/min/sec
(c)	DN of calling PSTN telephone(b2)	
(d)	DN of forwarded - to - PSTN telephone(a1). Note 1	
(e)	Time of start of call	hr/min/sec
(f)	Delay between dialling last digit of MSISDN of MS(a1) at PSTN telephone(b2) and PSTN telephone(a1) ringing. Note 1	secs
*(g)	Time of perceived answer of call	hr/min/sec
*(h)	Chargable Call Duration (i.e. perceived answer until end of call)	secs
(i)	Was an announcement that call was - being - forwarded received b PSTN telephone(b2)?	y No ▼
(j)	Language of announcement [If applicable]	
(k)	Text of announcement [If applicable]	
	CF is not available for our custo	omers in roaming.
(1)	CF is not available for our custo Quality of call [Excellent, Good, Fair, Poor, Bad]	omers in roaming.
(l) (m)		
	Quality of call [Excellent, Good, Fair, Poor, Bad]	Good
	Quality of call [Excellent, Good, Fair, Poor, Bad] Echo present?	Good
(m)	Quality of call [Excellent, Good, Fair, Poor, Bad] Echo present? If Yes, to which party? [caller/called]	Good V
(m) (n)	Quality of call [Excellent, Good, Fair, Poor, Bad] Echo present? If Yes, to which party? [caller/called] Time of deactivation of CFNRc	Good No Indicate the second of the second
(m) (n)	Quality of call [Excellent, Good, Fair, Poor, Bad] Echo present? If Yes, to which party? [caller/called] Time of deactivation of CFNRc Comments Note 1. If forwarding to PSTN telephone (b1) is restricted by HPL	Good No Indicate the second of the second

	A 2.2.7. CALL FORWARDING ON BUS	SY.[CFB]				
(a)	MSISDN of MS(a1)					
(b)	Time of activation of CFB	hr/min/sec				
(c)	DN of calling PSTN telephone(b2)					
(d)	DN of forwarded - to - PSTN telephone(a1). Note 1					
(e)	Party with which MS(a1) is in conversation					
(f)	Time of start of call	hr/min/sec				
(g)	Delay between dialling last digit of MSISDN of MS(a1) at PSTN telephone(b2) and PSTN telephone(a1) ringing. Note 1	secs				
*(h)	Time of perceived answer of call	hr/min/sec				
*(i)	Chargable Call Duration (i.e. perceived answer until end of call)	secs				
(j)	Was an announcement that call was - being - forwarded received by PSTN telephone(b2)?	y No ▼				
(k)	Language of announcement [If applicable]					
(I)	Text of announcement [If applicable]					
	CF is not available for our customers in roaming.					
(m)	Quality of call [Excellent, Good, Fair, Poor, Bad]	Good ▼				
(n)	Echo present?	No 🔻				
	If Yes, to which party? [caller/called]	-				
(o)	Time of deactivation of CFB	hr/min/sec				
(p)	Comments:					
(q)	Note 1. If forwarding to PSTN telephone (b1) is restricted by HPLMI If MS(a2) cannot be used then choose PSTN telephone (a) Testcase Result	N or VPLMN, then use MS(a2). Not Performed ▼				
	Signature of Tester	Date				

	A 2.2.8. CALL FORWARD ON NO REPLY	/.[CFNRY]				
(a)	MSISDN of MS(a1)					
(b)	Time of activation of CFNRY	hr/min/sec				
(c)	Interrogate Supplementary Service at MS(a) by pressing *#61#SEN	D				
(d)	Time of start of SS activity (i.e. SEND key operation)	hr/min/sec				
(e)	Delay between SEND key operation and receipt of Display information					
(f)	Information displayed on MS(a)					
(g)	Does MS(a) displays correct status of the call forwarding service?					
(h)	DN of calling PSTN telephone(b2)					
(i)	DN of forwarded - to - PSTN telephone(a1). Note 1					
(j)	Time of start of call	hr/min/sec				
(k)	Delay between dialling last digit of MSISDN of MS(a1) at PSTN telephone(b2) and PSTN telephone(a1) ringing. Note 1	secs				
(I)	Length of time for which MS(a1) "rings"	secs				
*(m)	Time of perceived answer of call	hr/min/sec				
*(n)	Chargable Call Duration (i.e. perceived answer until end of call)	secs				
(o)	Was an announcement that call was - being - forwarded received by PSTN telephone(b2)?	No 🔻				
(p)	Language of announcement [If applicable]					
(q)	Text of announcement [If applicable]					
	CF is not available for our custo	mers in roaming.				
(r)	Quality of call [Excellent, Good, Fair, Poor, Bad]	Good ▼				
(s)	Echo present?	No 🔻				
	If Yes, to which party? [caller/called]	- 🔻				
(t)	Time of deactivation of CFNRY	hr/min/sec				

(u)	Comments					
	Note 1. If forwarding to PSTN telephone (b1) is restricted by HPLMN or VPLMN, then use MS(a2). If MS(a2) cannot be used then choose PSTN telephone(a).					
(v)	Testcase Result		Not Performed	•		
	Signature of Tester		Date			

APPENDIX B Completion Certificate for MoU-IREG Stage 4 Testing for Inter-PLMN Roaming

This certificate confirms the successful completion of MoU-IREG Stage 4 Tests for Mobile

Subscribers of PLMN visiting This VLR SCCP address				PLMN. but not limited to.		
The Services tested were:-						
Telephony Basic Service						•
Call Barring Supplementary S	Services				-	
Call Forwarding Supplementa	ary Service	es			-	•
Short Message Services						•
Other comments						
Toll Ticket file is being forwarded	from			PLMN to	1	
via MOU TADIG procedures.		'				
The tests were completed on			(IREG)			
The testing team in PLMN						
were:						
The testing team in PLMN						
were:						
Signed				Date		
of PLMN						
Signed				Date		
of PLMN						

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GSM MoU Association Permanent Reference Document: IR.24

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