GSMA Roaming Database
IR. 21 Data

RAEX IR. 21 Information

Creation date:	2015-08-27
Creation time:	21:17:58+02:00
TADIG-GEN schema version:	2.4
RAEX-IR.21 schema version:	9.2

ORGANISATION INFORMATION

TADIG code: CANBM
Section ID: 1 (Mandatory)

Organisation name:	Bell Mobility Inc.
Country initials:	CAN

History of changes

TADIG Code	Section ID	Section	Date	Description
CANBM	13	Network Elements Information	2015-08-27	Removed GT 19027180002 no longer in use in Halifax
CANBM	20	LTE Roaming Information	2015-08-27	Updated EPC Realm table to include epc in front of REALM
CANBM	9	Test Numbers Information	2015-06-16	corrected some AAC test numbers from 3999 to 9999
CANBM	13	Network Elements Information	2015-06-16	Removed no longer active GT's 16473830001, 16473832002-2003, 16473832005-2008
CANBM	20	LTE Roaming Information	2015-06-01	Updated FQDN and EPC Realm...removing leading EPC
CANBM	4	Routing Information	2015-04-24	Added new active MSRN ranges for new MSS's
CANBM	9	Test Numbers Information	2015-04-24	Added new AAC numbers for our new active MSS's effective Apr 24th
CANBM	16	Packet Data Service Information	2015-04-24	Modified Packet Data Service info IPV4-V6 and Mulit PDP support
CANBM	17	IP Roaming/Networking Information	2015-04-24	Added 184.151.177.0/29 to Backbone IP ranges effective April 24th
CANBM	20	LTE Roaming Information	2015-04-24	Updated LTE info with EPC and FQDN
CANBM	13	Network Elements Information	2015-02-06	Added new IPSMGW nodes 16473842012, 14382762012 and 14382762013
CANBM	17	IP Roaming/Networking Information	2015-02-06	Added new IP range to backbone 184.151.62.240/29
CANBM	20	LTE Roaming Information	2015-01-13	Updated LTE Info area of support
CANBM	20	LTE Roaming Information	2014-11-28	Added a list of additional Diameter Peers for each MME Hostnames (Cards 1-12)
CANBM	17	IP Roaming/Networking Information	2014-10-15	S Gateway expansion in Calgary 207.236.105.136/29 effective immediately
CANBM	17	IP Roaming/Networking Information	2014-08-19	Corrected duplicate ip 207.236.105.232/29 in the list that will be effective Aug. 28 2014
CANBM	17	IP Roaming/Networking Information	2014-08-08	Corrected IP range from 207.236.105.236/29 to 207.236.105.232/29
CANBM	17	IP Roaming/Networking Information	2014-08-07	S Gateway Expansion with 207.236.105.236/29 and additional ASN 22870
CANBM	17	IP Roaming/Networking Information	2014-06-03	S Gateway Expansion added IP range 207.236.105.0/29
CANBM	21	Contact Information	2014-06-03	Corrected contact info in address book
CANBM	21	Contact Information	2014-06-03	Contact info correction
CANBM	21	Contact Information	2014-06-03	Corrected Contact info
CANBM	21	Contact Information	2014-06-03	Corrected contact info
CANBM	17	IP Roaming/Networking Information	2014-05-14	Added two new IP's to backbone 131.166.142.0/28 and 131.166.142.16/28
CANBM	13	Network Elements Information	2014-03-12	Added 6 GT's for New NSN MSS'S (14382760002, 19027180002, 16473840002, 16473830002, 14034080002, 16043480002)
CANBM	20	LTE Roaming Information	2014-03-12	Added a list of additional Diameter Peers for each MME (Cards 03-12)
CANBM	13	Network Elements Information	2014-01-09	Corrected since our SMSC GT 14382762000 was missing from list
CANBM	17	IP Roaming/Networking Information	2014-01-03	Corrected IP range as advertised removed 131.166.254.8/28 and added 131.166.254.8/29; 131.166.254.16
CANBM	17	IP Roaming/Networking Information	2014-01-03	Corrected IP range as advertised removed 131.166.254.8/28 and added 131.166.254.8/29
CANBM	4	Routing Information	2013-12-13	Added MSISDN ranges 1-226 and 1-416 that were discarded in error
CANBM	5	International SCCP Gateway	2013-12-13	Modified entry for Primary SCCP
CANBM	16	Packet Data Service Information	2013-12-13	Added ARPQOS value 3
CANBM	16	Packet Data Service Information	2013-12-13	Edited ARPQOS list
CANBM	16	Packet Data Service Information	2013-12-13	Edited 2G/3GQOS profile
CANBM	16	Packet Data Service Information	2013-12-13	Edited QOS Profile

TADIG Code	Section ID	Section	Date	Description
CANBM	17	IP Roaming/Networking Information	2013-12-13	Corrected IP Range for OB Data Roaming effective Dec 2 131.166.254.8/28 Removed these IP's from IP list 131.166.254.0/27, 131.166.254.152/29, 131.166.254.168/29, 207.236.105.224/29, 207.236.105.0/29, 184.151.62.64/27, 207.236.105.160/27, 207.236.105.32/27
CANBM	20	LTE Roaming Information	2013-12-13	LTE QOS profile updated
CANBM	4	Routing Information	2013-08-13	Updated NPA table list with 249, 236, 343, 365, 431, 437, 579, 639, 782, 873
CANBM	13	Network Elements Information	2013-08-13	Added New ESP Roamware GT's 14382762030-2036 Effective Aug 30th.
CANBM	17	IP Roaming/Networking Information	2013-08-13	Added new IP Ranges and ASN for Bell OB Data Support Effective Aug 16
CANBM	13	Network Elements Information	2013-06-07	Added new HLR GT's 16473840057, 16473840058, 16473840086, 14382760057 & 14382760058. Removed SGSN GT's 16473831001, 16473831002, 14034081001, 14034081002, 14034081003, 16473841001, 16473841002, 14382761001, 14382761002. Node SW versions updated.
CANBM	16	Packet Data Service Information	2013-06-07	Updated APN Web List
CANBM	17	IP Roaming/Networking Information	2013-06-07	DNS Server & Caching Updates
CANBM	4	Routing Information	2012-10-10	Change to International SMS Routing effect Oct 29 2012 for all MO and MT messages
CANBM	4	Routing Information	2012-10-10	Modifiy E.164 Number Series available in Canada which are accessible to Wireless Number Portability
CANBM	17	IP Roaming/Networking Information	2012-10-10	Changed IP
CANBM	4	Routing Information	2012-10-02	E164 Updated.
CANBM	13	Network Elements Information	2012-07-17	Deleted GTs: 420 608 005 621, 420 608 005 622, 420 608 005 623, 420 608 005 624, 420 608 005 678, 420 608 005 679, 420 608 005 694, 420 608 005 695, 420 608 005 696, 420 608 005 697, 420 608 005 629, 420 608 005 640
CANBM	13	Network Elements Information	2012-07-01	Added GTs: 420 608 005 640, 420 608 005 634, 420 608 005 635
CANBM	4	Routing Information	2012-05-03	Added Steering instructions for inbound roaming on Bell (Please forward to Outbound Steering Prime) * See Additional Information.
CANBM	16	Packet Data Service Information	2012-05-03	Removed IP range 67.69.81.0/26 from Backbone list since it overlapped specific /29 and /28 ranges. Also updated the DNS table for Inbound Roaming resolution with appropriate list of specific 12 IP's.
CANBM	16	Packet Data Service Information	2012-05-03	Added another IP range to backbone (207.236.223.16/29).
CANBM	21	Contact Information	2012-05-03	Updated Contact info.
CANBM	16	Packet Data Service Information	2012-03-08	Added New IP backbone ranges effective immediately.
CANBM	4	Routing Information	2012-01-11	Added New HLR GT addresses (Go live Feb 20th)
CANBM	16	Packet Data Service Information	2012-01-11	Added IP backbone ranges effective immediately.

NETWORK

TADIG code: CANBM
Section ID: 2 (Mandatory, Repeating)

TADIG code:	CANBM
Network type:	Terrestrial
Technology:	**Frequency list:**
UTRA/FDD:	4 - AWS, 2 - PCS 1900, 5 - 850 MHz
Presentation of country initials and MNN:	CAN BM
Abbreviated MNN:	CANBM
Network colour code:	-

NETWORK INFORMATION

TADIG code: CANBM
Section ID: 3 (Mandatory)

The following information refer to the network identified by TADIG code CANBM

ROUTING INFORMATION

TADIG code: CANBM
Section ID: 4 (Mandatory)
Effective date of change: 2015-04-24

CCITT E.164 Number series	Country Code (CC)	National Destination Code (NDC)	SN Range Start	SN Range Stop	Primary International DPC	Secondary International DPC
MSISDN number ranges (s)						
	1	204	0000	9999		
	1	250	0000	9999		
	1	289	0000	9999		
	1	306	0000	9999		
	1	403	0000	9999		
	1	418	0000	9999		
	1	438	0000	9999		
	1	450	0000	9999		
	1	506	0000	9999		
	1	514	0000	9999		
	1	519	0000	9999		
	1	581	0000	9999		
	1	587	0000	9999		
	1	604	0000	9999		
	1	613	0000	9999		
	1	647	0000	9999		
	1	705	0000	9999		
	1	709	0000	9999		
	1	778	0000	9999		
	1	780	0000	9999		
	1	807	0000	9999		
	1	819	0000	9999		
	1	867	0000	9999		
	1	902	0000	9999		
	1	905	0000	9999		
	1	236	0000	9999		
	1	249	0000	9999		
	1	343	0000	9999		
	1	365	0000	9999		
	1	431	0000	9999		
	1	437	0000	9999		
	1	579	0000	9999		
	1	639	0000	9999		
	1	782	0000	9999		
	1	873	0000	9999		
	1	226	0000	9999		
	1	416	0000	9999		
Network Nodes Global Title Number Range(s)						
	1	403408				
	1	647383				
	1	647384				

Network Nodes Global Title Number Range(s)						
	1	438276				
	1	604348				
	1	902718				

MSRN Number Range(s)						
	1	647383	3000	5999		
	1	403408	3000	5999		
	1	647384	3000	5999		
	1	438276	3000	5999		
	1	902718	3000	5999		
	1	604348	3000	5999		
	1	647516	1000	3999		
	1	902359	1000	3999		
	1	587831	1000	3999		
	1	647392	1000	3999		
	1	438301	1000	3999		
	1	778904	1000	3999		

E. 212 Number series	Mobile Country Code (MCC)	Mobile Network Code (MNC)
	302	610

E. 214 Mobile Global Title (MGT)	Country Code of MGT (CC)	Network Code of MGT (NC)
	1	90561

Does Number Portability apply ?	Yes

USIM SIM Header	NA

Additional Information
ROAMING PARTNER STEERING METHOD TO BELL/TELUS COMMON NETWORK:
OTA Steering - Populate 302 610 (Bell PLMN), 302 220 (TELUS) & 302 880 (Common PLMN). If you can send only one PLMN, populate 302 880
SS7 Steering - Allow registration on Bell Network GT Ranges: 1 403408, 1 647383, 1 647384, 1 438276, 1 604348, 1 902718.
Allow registrations on TELUS Network GT Ranges 1 647580, 1 6472137, 16472138, 1 6472139, 1438580, 1 587580, 1587588, 1778580, 1647850
Hybrid Steering (OTA & SS7) - Populate 302 610 (Bell PLMN) 302 220 (TELUS PLMN) & 302 880 (Common PLMN)
- TRAFFIC STEERING TOWARDS BELL/TELUS COMMON NETWORK -
Bell & TELUS operates a common Radio Access Network (RAN) based on Multi-Operator Core Network (MOCN) as defined in 3GPP TS 23.251.
Bell & TELUS operates a common Radio Access Network (RAN) based on Multi-Operator Core Network (MOCN) as defined in 3GPP TS 23.251.
The network broadcasts Bell private PLMN (302 610), TELUS private PLMN (302 220), and the common PLMN (302 880)
- Non-MOCN capable devices will only register on the common PLMN (302 880)
- MOCN capable devices will register on either Bell or TELUS private PLMN (302 610 & 302 220)
Roaming partners must populate PLMNs 302 610, 302 220 & 302 880 in their preferred PLMN list in the USIM.
All TAP records on Bell core will be produced using Bell TADIG (CANBM) regardless of whether the device registered on the common network
(302 880) or Bell private network (302 610).TAP records on TELUS core will be produced using TELUS TADIG (CANTS).
Note - Bell customers only use IMSI 302 610 for outbound roaming.
A more detailed steering document is available upon request. Please contact RoamingPerformance@bell.ca to request a copy.
Change to International SMS for MO and MT. All messages to be routed to Bell Mobility via Syniverse Technologies effective Oct 29 2012

INTERNATIONAL SCCP GATEWAY

TADIG code: CANBM
Section ID: 5 (Optional)
Effective date of change: 2013-12-13

International SCCP carrier list	
SCCP carrier name:	SCCP Carrier
Connectivity information:	Primary
MNO TADIG code list:	

DPC info:	
Signature:	Syniverse ITU
Type:	SCCP, STP
International DPC:	3.30.5
Comments:	

DPC info:	
Signature:	Syniverse ANSI
Type:	SCCP, STP
International DPC:	235.250.0
Comments:	

SCCP Protocol available at PMN for connection for International SS7 Roaming
TADIG code: CANBM
Section ID: 7 (Optional)
Effective date of change: 2012-06-14

SCCP Protocol available at PMN	Availability (Yes / No)
ETSI (ITU):	No
ANSI:	Yes

SCCP Protocol available at PMN for connection for International SS7 Roaming

SUBSCRIBER IDENTITY AUTHENTICATION

TADIG code: CANBM
Section ID: 8 (Optional)
Effective date of change: 2012-06-14

Authentications	Performed (Yes / No)
Authentication performed for Roaming subscribers at the commencement of GSM service	Yes
Authentication performed for roaming subscribers in case of GPRS	Yes
A5 Cipher Algorithm version in use	Milenage, A5/1

Test Numbers Information

TADIG code: CANBM
Section ID: 9 (Optional)
Effective date of change: 2015-06-16

Number Type	Test Number	Location	Comments
AAC	+16473839999	Toronto ON	
AAC	+16473849999	Toronto ON	
AAC	+14034089999	Calgary AB	
AAC	+14382769999	Montreal QC	
AAC	+16043489999	Vancouver BC	
AAC	+19027189999	Halifax NS	
AAC	+16473929999	Toronto ON	
AAC	+16475169999	Toronto ON	
AAC	+14383019999	Montreal QC	
AAC	+15878319999	Calgary AB	
AAC	+17789049999	Vancouver BC	
AAC	+19023599999	Halifax NS	

MOBILE APPLICATION PART (MAP)

TADIG code: CANBM
Section ID: 10 (Optional)
Effective date of change: 2012-06-14

Interworking specifically for roaming				
Application context name	Current version in			Comments
	Inbound roaming		Outbound roaming	
	MSC/VLR	SGSN	Outbound roaming	
networkLocUp	MAPv3	N/A	MAPv3	
roamingNumberEnquiry	MAPv3	N/A	MAPv3	
InfoRetrieval	MAPv3	MAPv3	MAPv3	
subscribeDataMngt	MAPv3	MAPv3	MAPv3	
networkFunctionalSs	MAPv2	N/A	MAPv2	
mwdMngt	MAPv3	-	MAPv3	
shortMsgMT-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	
shortMsgMO-Relay (called shortMsgRelay in v1)	MAPv3	-	MAPv3	
ss-InvocationNotification	MAPv3	N/A	MAPv3	
subscriberInfoEnquiry	MAPv3	MAPv3	MAPv3	
gprsLocationUpdate	N/A	MAPv3	MAPv3	
locationCancellation	MAPv3	MAPv3	MAPv2	
msPurging	MAPv3	MAPv3	MAPv3	
reset	MAPv2	MAPv2	MAPv2	
networksUnstructuredSs	MAPv2	N/A	MAPv2	
reporting	MAPv3	N/A	MAPv3	
callCompletion	MAPv3	N/A	MAPv3	
istAlerting	-	N/A	-	
service Termination	-	N/A	MAPv3	
locationSvcGateway	N/A	N/A	-	
mm-EventReporting	MAPv3	N/A	MAPv3	
authenticationFaillureReport	MAPv3	MAPv3	MAPv3	
imsiRetrieval	MAPv2	N/A	MAPv2	
gprsNotifyContext	N/A	-	-	
gprsLocationInfoRetrieval	N/A	-	-	
faillureReport	N/A	-	-	
secureTransportHandling	-	-	-	

MAP Optimal Routing Section

TADIG code: CANBM
Section ID: 11 (Optional)

Effective date of change: 2012-06-14

MAP Optimal Routing of mobile - to - mobile calls				
Application Context Name	**Current version in**			**Comments**
	MSC	**GMSC**	**HLR**	
CallControlTransfer	MAPv3	MAPv3	N/A	
LocationInfoRetrieval	N/A	-	-	

MAP Inter Operator SMS Enhancement

TADIG code: CANBM
Section ID: 12 (Optional)
Effective date of change: 2012-06-14

Inter - Operator SMS Enhancement				
Application context name	**Current version in**			**Comments**
	SMS - IWMSC	**SMS - GMSC**	**HLR**	
shortMsgGateway	N/A	MAPv2	MAPv2	
shortMsgAlert	MAPv2	N/A	MAPv2	

NETWORK ELEMENTS INFORMATION

TADIG code: CANBM
Section ID: 13 (Optional)
Effective date of change: 2015-08-27

Node type	Node ID	GT address / Address range	IP address / Address range	Vendor info	SW / HW version	Dual access	Location	UTC offset	DST start	DST end
HLR	Front_End	1 438276 0051 / 0058		NSN	6.0 SP2		Montreal	-05:00		
HLR	Front_End	1 647383 2011 / 2011		NSN	6.0 SP2		Toronto_70Q	-05:00		
HLR	Front_End	1 647384 0050 / 0058		NSN	6.0 SP2		Toronto	-05:00		
HLR	Back_End	1 647384 0081 / 0086		NSN	8.0 MP8		Toronto	-05:00		
MSC/VLR	MSC	1 647383 2010 / 2010		NSN	16.2		Toronto	-05:00		
MSC/VLR-3G	MSC_1	1 403408 0001 / 0002		NSN	16.2		Calgary	-07:00		
MSC/VLR-3G	MSC_1	1 438276 0001 / 0002		NSN	16.2		Montreal	-05:00		
MSC/VLR-3G	MSC_1	1 604348 0001 / 0002		NSN	16.2		Vancouver	-08:00		
MSC/VLR-3G	MSC_1	1 647383 0002 / 0002		NSN	16.2		Toronto	-05:00		
MSC/VLR-3G	MSC_1	1 647384 0001 / 0002		NSN	16.2		Toronto	-05:00		
MSC/VLR-3G	MSC_1	1 902718 0002 / 0002		NSN	16.2		Halifax	-04:00		
Other	LBS	1 438276 2007 / 2007		HP			Montreal	-05:00		
Other	SMS_anti_Spam	1 438276 2020 / 2020		Airwide			Montreal	-05:00		
Other	SMS_anti_Spam	1 438276 2021 / 2021		Airwide				-05:00		
Other	Enhanced_Service	1 647383 2004 / 2004		Roamware			Toronto	-05:00		
Other	SMS_anti_Spam	1 647383 2020 / 2021		Airwide			Toronto	-05:00		
Other	Enhanced_Service	1 647383 2999 / 2999					Toronto	-05:00		
SGSN-3G	BSGC_1	1 403408 1004 / 1004	184.151.126.248/29	CISCO	14.0		Calgary	-07:00		
SGSN-3G	BSGT_1	1 438276 1003 / 1003	184.151.126.200/29	Cisco	14.0		Montreal	-05:00		
SGSN-3G	BSGA_1	1 438276 1010 / 1010	184.151.126.216/29	Cisco	14.0		Montreal	-05:00		
SGSN-3G	BSGV_1	1 604348 1001 / 1001	184.151.126.232/29	Cisco	14.0		Vancouver	-08:00		
SGSN-3G	BSGQ_1	1 647383 1003 / 1003	184.151.62.104/29	Cisco	14.0		Toronto	-05:00		
SGSN-3G	BSGP_1	1 647384 1003 / 1003	207.236.105.24/29	Cisco	14.0		Toronto	-05:00		
SMSC	Router_1	1 438276 2001 / 2001		Airwide			Montreal	-05:00		
SMSC	Router_2	1 438276 2002 / 2002		Airwide			Montreal	-05:00		
SMSC	Router_3	1 438276 2005 / 2005		Airwide			Montreal	-05:00		
SMSC	Router_3	1 647383 2000 / 2000		Airwide			Toronto	-05:00		
SMSC		1 647383 2012 / 2012					Toronto	-05:00		
SMSC	Router_4	1 647383 2013 / 2013		Airwide			Toronto	-05:00		
Other	Enhanced_Service	1 438276 2030 / 2036		Roamware				-05:00		

Node type	Node ID	GT address / Address range	IP address / Address range	Vendor info	SW / HW version	Dual access	Location	UTC offset	DST start	DST end
SMSC		1 438276 2000 / 2000		Airwide			Montreal	-05:00		
IP-SMGW		1 647384 2012 / 2012		Airwide			Toronto	-05:00		
IP-SMGW		1 438276 2012 / 2013		Airwide			Montreal	-05:00		

USSD Information

TADIG code: CANBM
Section ID: 14 (Optional)
Effective date of change: 2012-06-14

USSD capability available	Yes
Supported phase	Phase 2

CAMEL INFO

TADIG code: CANBM
Section ID: 15 (Conditional)
Effective date of change: 2012-06-14

gsmSSF/MSC			
CAP Version supported (Inbound)		**CAP Version supported (Outbound)**	
CAPv1 CAPv2 CAPv3		CAPv2	
CAMEL Functionality Information			
Service(s) Name	**SK**	**CAP Version**	**SCP GT addresses**
Prepaid	22	CAPv2	16473832001
			14382762003
Hotline services	NA	CAPv1	00000000000
Roamware Enhanced Services Platform	NA	CAPv1	16473832002
			SSN 146
CAPv4 Partial Implementations			
CAMEL Phase 4 CSIs:		**Supported (Yes / No)**	*Planned Date*
O - CSI			
D - CSI			
VT - CSI			
MT - SMS - CSI			
Functionalities:		**Supported (Yes / No)**	*Planned Date*
Initiate Call Attempt			
Split Leg			
Move Leg			
Disconnect Leg			
Entity Released			
DFC With Argument			
Play Tone			
DTMF Mid Call			
Charging Indicator			
Alerting DP			
Location At Alerting			
Change Of Position DP			
OR Interactions			
Warning Tone Enhancements			
CF Enhancements			

CAPv4 Partial Implementations			
CAMEL Phase 4 CSIs:		**Supported (Yes / No)**	*Planned Date*
MT - SMS -CSI			
MG - CSI			
PSI Enhancements			

Packet Data Services Information

TADIG code: CANBM
Section ID: 16 (Conditional)
Effective date of change: 2015-04-24

List of APN Operator Identifiers		
APN Operator Identifier	Description	Example
mnc610.mcc302.gprs		

List of APN's available for testing and troubleshooting

APN WEB List				
	APN Credential		ISP DNS IP address (primary)	ISP DNS IP address (secondary)
APN	Username	Password		
inet.bell.ca	N/A	N/A		
blackberry.net	N/A	N/A		
corp.bell.ca	User Specific	User Specific		
static.bell.ca	User Specific	User Specific		
proxy.bell.ca	N/A	N/A		
pda.bell.ca	N/A	N/A		
pda2.bell.ca	N/A	N/A		

APN WAP List						
	APN Credential		WAP Gateway IP address	WAP Server URL	WAP Port ver 1	WAP Port ver 2
APN	Username	Password				
proxy.bell.ca	N/A	N/A	204.101.237.163	http://bell.mobi	80 8080	
proxy.bell.ca	N/A	N/A	206.47.201.84	http://bell.mobi	80 8080	
pda.bell.ca	N/A	N/A	204.101.237.163	http://bell.mobi	80 8080	
pda.bell.ca	N/A	N/A	206.47.201.84	http://bell.mobi	80 8080	
inet.bell.ca	N/A	N/A	204.101.237.163	http://bell.mobi	80 8080	
inet.bell.ca	N/A	N/A	206.47.201.84	http://bell.mobi	80 8080	
pda2.bell.ca	N/A	N/A	204.101.237.163	http://bell.mobi	80 8080	
pda2.bell.ca	N/A	N/A	206.47.201.84	http://bell.mobi	80 8080	

APN MMS List				
	APN Credential		WAP Gateway IP address for MMS	Messaging Server URL
APN	Username	Password		
inet.bell.ca	N/A	N/A	204.101.237.163	http://mms.bell.ca/ mms/wapenc
inet.bell.ca	N/A	N/A	206.47.201.84	http://mms.bell.ca/ mms/wapenc
proxy.bell.ca	N/A	N/A	204.101.237.163	http://mms.bell.ca/ mms/wapenc
proxy.bell.ca	N/A	N/A	206.47.201.84	http://mms.bell.ca/ mms/wapenc
pda.bell.ca	N/A	N/A	204.101.237.163	http://mms.bell.ca/ mms/wapenc
pda.bell.ca	N/A	N/A	206.47.201.84	http://mms.bell.ca/ mms/wapenc
pda2.bell.ca	N/A	N/A	204.101.237.163	http://mms.bell.ca/ mms/wapenc
pda2.bell.ca	N/A	N/A	206.47.201.84	http://mms.bell.ca/ mms/wapenc

IPv6 Connectivity Information		
	IPv6 PDP Supported	IPv4v6 PDP Supported

SGSN Support	No	Yes
GGSN Support	No	Yes

List of 2G/3G QOS profiles	
Profile name:	2G/3GQOS
Traffic class:	Interactive
ARP:	3
Evolved ARP:	1
Delivery of erroneous SDU:	Yes

GTP Version

SGSN	GTPv1
GGSN	GTPv1

List of Data Service supported

2G Data Services	Multislot Class Capability
GPRS	
EDGE	

3G Data Services	UE 3G Category
3GPS	
HSDPA	
HSUPA	

Multiple PDP Context Support	
Number of Primary PDP Context	5

IP - Roaming and IP - Interworking Information
TADIG code: CANBM
Section ID: 17 (Conditional)
Effective date of change: 2015-04-24

List of All IP address ranges used by PMN for connection to inter - PMN IP backbone	IP Address Range
	184.151.126.112/29
	184.151.126.80/29
	184.151.126.144/29
	184.151.126.176/29
	184.151.126.48/29
	184.151.126.16/29
	184.151.62.208/29
	184.151.62.104/29
	184.151.126.232/29
	184.151.126.248/29
	184.151.126.200/29
	184.151.126.216/29
	207.236.105.24/29
	207.236.223.0/29
	216.208.105.0/29
	207.236.223.8/29
	207.236.105.8/29
	216.208.105.8/29
	207.236.105.232/29
	207.236.223.16/29
	67.69.81.0/29
	67.69.81.8/29
	67.69.81.16/29
	67.69.81.24/29
	67.69.81.32/28
	67.69.81.48/28
	131.166.254.8/29
	131.166.254.16/29
	131.166.142.0/28
	131.166.142.16/28
	207.236.105.0/29
	207.236.105.136/29
	184.151.62.240/29
	184.151.177.0/29

RAI Additional MCC/MNC List	MCC	MNC

ULI Additional MCC/MNC List	MCC	MNC

List of Autonomous System Number (ASN):	ASN
	36522
	577
	3321
	22870

List of Autonomous System Number (ASN4B):	ASN4B

List of PMN authoritative DNS server IP addresses and names	IP address	DNS Name
	67.69.81.38	W0110CnBDNQ2.mnc610.mcc302.gprs W0110CnBDNQ2.mnc610.mcc302.3gppnetwork.org
	67.69.81.54	E0100CnBDNT2.mnc610.mcc302.gprs E0100CnBDNT2.mnc610.mcc302.3gppnetwork.org
	67.69.81.20	W0575CnBDNP1.mnc610.mcc302.gprs W0575CnBDNP1.mnc610.mcc302.3gppnetwork.org

List of PMN local caching DNS server IP addresses and names	IP address	DNS Name
	67.69.81.4	N/A
	67.69.81.5	N/A
	67.69.81.12	N/A
	67.69.81.13	N/A
	67.69.81.20	N/A
	67.69.81.21	N/A
	67.69.81.28	N/A
	67.69.81.29	N/A
	67.69.81.37	N/A
	67.69.81.38	N/A
	67.69.81.53	N/A
	67.69.81.54	N/A

List of GRX Providers	GRX Provider
	Syniverse

LTE Roaming Information

TADIG code: CANBM
Section ID: 20 (Optional)
Effective date of change: 2015-08-27

Roaming Interconnection

FQDN Diameter Edge Agent

FQDN	Primary IP Address DEA FQDN	Secondary IP Address DEA FQDN
mnc610.mcc302.3gppnetwork.org	184.151.119.32	184.151.119.160
	184.151.119.33	184.151.119.161
	184.151.119.34	184.151.119.162
	184.151.119.35	184.151.119.163
	184.151.119.36	184.151.119.164
	184.151.119.37	184.151.119.165
	184.151.119.38	184.151.119.166
	184.151.119.39	184.151.119.167

EPC Realms For Roaming

	epc.mnc610.mcc302.3gppnetwork.org

S6a Supported without IWF	S6a MAP IWF supported to HSS	S6a MAP IWF supported to MME
true	false	false

S6d used for legacy SGSN	S8 GTP interface available	S8 PMIP interface available
false	true	false

S9 used for PCC	
	false

SMS ITW

SMS delivery over IP	SMS delivery over SGs
false	true

Voice ITW

CSFB

Roaming Retry

Is Roaming Retry supported?	Yes

		HPMN	VPMN
LTE Roaming Agreement Only	LTE Only Roaming Supported	Yes	Yes
2G/3G Roaming Agreement Only	Scenario 2 Supported	Yes	Yes
	Scenario 3 Supported	Yes	No
2G/3G/LTE Roaming Agreement	Scenario 1 Supported	Yes	Yes
	Scenario 2 Supported	Yes	No
	Scenario 3 Supported	No	No
	Scenario 4 Supported	Yes	No

List of LTE QOS profiles

Profile name:	4GQOS
QCI Value List:	8
QOS ARP List:	11
ARP Preemption Vulnerability List:	1
ARP Preemption Capability List:	1

IPv6 Connectivity Information		
	IPv6 PDP Supported	IPv4v6 PDP Supported
MME Support	Yes	Yes
SGW Support	Yes	Yes
PGW Support	No	No

Information for Diameter certificates exchange

LTE Information	
QCI Value 1 Supported	No
QCI Value 2 Supported	No
QCI Value 3 Supported	No
QCI Value 4 Supported	No
QCI Value 5 Supported	No
QCI Value 6 Supported	No
QCI Value 7 Supported	No
QCI Value 8 Supported	Yes
QCI Value 9 Supported	Yes

CONTACT INFORMATION

TADIG code: CANBM
Section ID: 21 (Optional, Repeating)
Effective date of change: 2014-06-03

List of Roaming Troubleshooting Contact Information				
Roaming Troubleshooting Contact Information				
Location		Mississauga, ON Canada		
Office Time Zone in UTC		-05:00		
Office Hours	**Week Day (s)**	**Start Time**		**End Time**
	Mon Tue Wed Thu Fri	08:30:00		05:00:00
Main Contact for Troubleshooting (Office Hours)				
Team Name	**Tel.**	**Mobile**	**Fax**	**Email**
Network Roaming	+19056143480			roamingfaults@bell.ca
Escalation Contact for Troubleshooting				
Person Name	**Tel.**	**Mobile**	**Fax**	**Email**
Catherine Haycock	+19056143767			roamingfaults@bell.ca
24 x 7 Troubleshooting (contact out of Office Hours)				
Team Name	**Tel.**	**Mobile**	**Fax**	**Email**
Network Roaming	+19056143480			roamingfaults@bell.ca
Roaming Troubleshooting Ticketing System Information				
Ticket system web address				
Ticket system email address				
Additional Contacts				
SCCP Inquires and ordering of SS7 Routes				

SCCP Inquires and ordering of SS7 Routes

	Person Name	**Tel.**	**Mobile**	**Fax**
	Victoria Golovatenko	+19056147026		
	JobTitle	**Email**		
	Specialist Network SS7	SS7_Engineering@bell.ca		

Roaming Coordinator

	Person Name	**Tel.**	**Mobile**	**Fax**
	Natalie Schwarze	+19052822188		
	JobTitle	**Email**		
	Roaming Coordinator	roaming@bell.ca		

IREG Tests

	Person Name	**Tel.**	**Mobile**	**Fax**
	William Pezza	+19056143774 +19056143480		
	JobTitle	**Email**		
	IREG Coordinator	IREG@bell.ca		

TADIG Tests

	Person Name	**Tel.**	**Mobile**	**Fax**
	Jorge Gordillo	+19052824889		
	JobTitle	**Email**		
	TADIG Specialist	Tadig@bell.ca		
	Person Name	**Tel.**	**Mobile**	**Fax**
	Rob Smith	+19056149097		
	JobTitle	**Email**		
	TADIG Specialist	Tadig@bell.ca		

CAMEL Tests

	Person Name	**Tel.**	**Mobile**	**Fax**
	William Pezza	+19056143774 +19056143480		
	JobTitle	**Email**		
	IREG Coordinator	IREG@bell.ca		

GPRS Tests

	Person Name	**Tel.**	**Mobile**	**Fax**
	William Pezza	+19056143774 +19056143480		
	JobTitle	**Email**		
	IREG Coordinator	IREG@bell.ca		

Contact Person(s) in PMN for GRX connectivity

	Person Name	**Tel.**	**Mobile**	**Fax**

	Person Name	Tel.	Mobile	Fax
	William Pezza	+19056143774 +19056143480		
	JobTitle		**Email**	
	IREG Coordinator		IREG@bell.ca	

Contact Person(s) in PMN for GRX Provider

	Person Name	Tel.	Mobile	Fax
	William Pezza	+19056143774 +19056143480		
	JobTitle		**Email**	
	IREG Coordinator		IREG@bell.ca	

Other contact(s)

	Person Name	Tel.	Mobile	Fax
	Adel Bishara	+19056147474		
	JobTitle		**Email**	
	IREG Advisor		roamingperformance@bell.ca	
	Person Name	**Tel.**	**Mobile**	**Fax**
	Gord Tait	+19056143983		
	JobTitle		**Email**	
	IREG Advisor		roamingperformance@bell.ca	

IR21 Distribution Email Address	Email
	IREG@bell.ca roaming@bell.ca

SECTIONS NOT IN USE

TADIG Code	Section ID	Section Name
CANBM	6	Domestic SCCP Gateway
CANBM	18	MMS Interworking Information
CANBM	19	WLAN Information
CANBM	22	Hosted Networks
CANBM	23	M2M Roaming Information
CANBM	24	MVNO Information