Government of India Ministry of Communications Department of Telecommunications (Access Services Wing) 12th Floor, Sanchar Bhawan, Ashoka Road, New Delhi

FileNo:800/12/2017-AS.II

Dated: 28.11.2022

To

All UL/UL(VNO) (having Access Service) Licensees **MNP Service Providers**

Subject: Generic testing procedure for implementation of Mobile Number Portability (Seventh Amendment) Regulations, 2018 (9 of 2018) for the new entrants.

In reference to the Test procedure issued vide letter no. 800-12/2017/AS.II dated 12.09.2019, TEC has informed that testing procedure dated 12.09.2019, formulated by TEC, was with regards to the implementation of the Telecommunication Mobile Number Portability (7th Amendment) Regulations, 2018 (9 of 2018) for the existing TSPs and not applicable for new entrants.

In this regard, a new test guide for implementation of MNP regulation up to the 2. Telecommunication Mobile Number Portability (7th Amendment) Regulations, 2018 (9 of 2018) for new entrants is enclosed with this letter. This new test guide is generic in nature and it will allow pairing of the operators as per the choice of LSA.

In case of any clarification regarding the test guide, Mobile Technologies (MT) wing of 3. TEC may be contacted.

Enclosure: A/a

Nighal 28.11.2022 (Nisha)

ADG (AS-II)

Copy to:

- i. DG(T) for taking necessary action.
- ii. Sr. DDG, TEC
- Secretary, TRAI, New Delhi iii.
- iv. M/s Ring Central India Pvt Ltd
- M/s Plintron India Pvt Ltd v.
- vi. COAI





टेस्ट गाइड

सं: 23016: 2022

TEST GUIDE

No.:23016:2022

Test Guide for मोबाइल नंबर पोर्टेबिलिटी Mobile Number Portability



दूरसंचारअभियांत्रिकीकेंद्र खुर्शीदलालभवन, जनपथ, नईदिल्ली–110001, भारत TELECOMMUNICATION ENGINEERING CENTRE KHURSHID LAL BHAWAN, JANPATH, NEW DELHI–110001, INDIA

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Centre, New Delhi.

Release 01: August, 2022

FOREWORD

Telecommunication Engineering Centre(TEC) is the technical arm of Department of Telecommunications (DOT), Government of India. Its activities include:

- Framing of TEC Standards for Generic Requirements for a Product/Equipment, Standards for Interface Requirements for a Product/Equipment, Standards for Service Requirements & Standard document of TEC for Telecom Products and Services
- Formulation of Essential Requirements (ERs) under Mandatory Testing and Certification of Telecom Equipment (MTCTE)
- Field evaluation of Telecom Products and Systems
- Designation of Conformity Assessment Bodies (CABs)/Testing facilities
- Testing & Certification of Telecom products
- Adoption of Standards
- Support to DoT on technical/technology issues

For the purpose of testing, four Regional Telecom Engineering Centers (RTECs) have been established which are located at New Delhi, Bangalore, Mumbai, and Kolkata.

ABSTRACT

This Test Guide aims at uniform assessment of implementation of MNP regulation upto the Telecommunication Mobile Number Portability (7th Amendment) Regulations, 2018 (9 of 2018) for new licensed network operators.

Contents

Hist	ory Sheet	4
1.	Scope	5
2.	Test Cases for Mobile Network Operators (MNO)	5
3.	TestCases – NLD/ILD	14
Glos	ssary	20

History Sheet

Sl. No.	Test Guide No.	Title	Remarks
1.	TEC 23016:2022	Test Guide For Mobile Number Portability	Aug, 2022
2.			

1. Scope

This Test Guide aims at uniform assessment of implementation of MNP regulation upto the Telecommunication Mobile Number Portability (7th Amendment) Regulations, 2018 (9 of 2018) for new licensed network operators.

2. Test Cases for Mobile Network Operators (MNO)

The pre-requisites are mentioned in Annexure-I, followed by Annexure-II containing test SIM details and Annexure-III containing Timer values for testing.

S. No.	Test Case	Role	Day	Description	SIM require ment	Category	Test Result	Comment
1	SMS to 1929 for UPC	DNO	1	UPC Request (SMS) to be routed to correct Zone MNPSP (serving NRH of the customer) by DNO SMSC.	SIM2 - SIM14	Individual		
1 (a)	SMS to 1929 for UPC	DNO	1	UPC Request (SMS) to be routed to incorrect Zone MNPSP (not serving NRH of the customer) by DNO SMSC.	SIM1	Individual		
2 (a)		MNP SP	1	MNPSP to match MSISDN in 'UPC request' (SMS) with requesting (A-party) number, if numbers are same, UPC request will be accepted	SIM2 - SIM14	Individual		
2(b)	Validation of requesting number at MNPSP	MNP SP	1	If A-party number and MSISDN mentioned in UPC Request SMS are not identical, UPC request will be rejected and notified to the customer with rejection reason	SIM2	Individual		
				Message Format Validation				
2 (c)	MessagefromMNPSPtoCustomerforrequestwithin5mins	MNP SP	1	Acknowledgement for UPC Request message submission to MNPSP	SIM3 - SIM14	Individual		
3	MNPSP to perform	MNP	1		SIM3			

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	the postpaid Subscriber by way of pending bill, issued per the normal billing cycle but before the date of request for Unique Porting Code (UPC); (iii) the Port Request has been made before the expiry of a period of ninety (90) calendar							
	days from the date of activation of a new connection; MNPSP to assign corporate UPC if validation (i) is 'true' and remaining validations are 'false'							
4 (a)	No response from Donor within 'UPC info Time'	MNP SP	1	UPC delayed (SMS) to be sent to subscriber	SIM7	Individual		
4 (b)	No response from Donor within 'UPC info delayed time'	MNP SP	1	UPC rejected (SMS) to be sent to subscriber with rejection reason 'No response from Donor'	SIM8	Individual		
4 (c)	Negative acknowledgement from Donor within 'UPC info delayed Time' (if any of the above validations is true)	MNP SP	1	UPC rejected (SMS) to be sent to subscriber with all rejection reasons	Alread y Covere d	Individual		
4 (d)	Subscriber info Response' (positive ACK) from Donor within 'UPC info delayed Time'	MNP SP	1	UPC Accepted (SMS) to be sent to the subscriber with valid UPC code.	SIM9 - SIM14	Individual		
5	CAF submission at RNO	RNO	1	CAF to be submitted with UPC information, date and time. RNO to send a message to subscriber upon CAF submission	SIM9 - SIM14	Individual		
6	RNO will send port request to MNPSP with UPC, MSISDN, date and time of subscriber's porting request.	RNO	1		SIM9 - SIM14	Individual		
7	MNPSP shall verify	MNP			SIM9-	Individual		

	whether:	SP			SIM14		
	The Port Request is not in process for the same mobile number;						
7 (a)	In case above validation is 'false', MNPSP will send 'Port Response' (Rejected) to DNO and RNO and Port Rejected (SMS) to the customer with rejection reason.	MNP SP	1		SIM9	Individual	
7 (b)	In case of all MCH validations are 'true', MNPSP will send 'Port Response' (accepted) to DNO and RNO and Port Accepted (SMS) to the customer with date & time. MNPSP will send acknowledgement 'Port Request submitted' (SMS) to the subscriber with 24-hour port cancellation window information	MNP SP	1		SIM10 - SIM14	Individual	
8	'Port Cancel' request by customer within 24-hour, MNPSP to match MSISDN in 'Port Cancellation' (SMS) with requesting (A- party) number, if numbers are same, Port Cancel request to be accepted	Custo mer	1	Customer sends 'Port Cancel' request to MNPSP within 24-hour window. MNPSP to send 'Port Cancel Notification' to RNO and DNO and 'Port Cancel Accepted' (SMS) to the customer	SIM10	Individual	
9	Port Cancel' request after 24-hour window	Custo mer	1	Customer sends 'Port Cancel' request to MNPSP after 24- hour window. MNPSP will send Error Notification indicating rejection reason to RNO; and 'Port Cancel Rejected' (SMS) to the customer	SIM11	Individual	

					-		
10	Disconnection of service by DNO.	DNO	2-4		SIM11 - SIM14	Individual	
11	Provision of service by RNO.	RNO	2-4		SIM11 - SIM14	Individual	
12	Port broadcast by MNPSP.	MNP SP	2-4	The MNO should be able to accept the port broadcast message from the MNPSP and should send back the port broadcast answer message to the MNPSP as acknowledgement. Based on this message, the MNO should be able to update the routing tables at their end.	SIM11 - SIM14	Individual	
13	MT & MO calls (Voice / SMS) to and from the ported number	RNO	2-4		SIM11 - SIM14	Individual	
14	Non Payment Discon	nect			SIM11 - SIM14	NPD	
14 (a)	Non Payment Disconnect (NPD) request by Donor before / after permissible period.	DNO	3	NPD within 7 days. MNPSP to send negative acknowledgement specifying rejection reason.	SIM11	NPD	
14 (b)	Negative acknowledgement (error notification) by MNPSP to DNO	MNP SP	3	If any of the above validations is true, MNPSP to send negative acknowledgement specifying rejection reason.	Alread y Covere d	NPD	
14 (c)	NonPaymentDisconnect(NPD)requestbyDonorwithinallowedperiod	DNO	3	NPD after 7 days (and before 60 days) of bill due date and within 90 days from the broadcast date	SIM12 - SIM14	NPD	
14 (d)	NPD request from MNPSP to RNO	MNP SP	3		SIM12 - SIM14	NPD	

	Ι			N N N N N N N N N N		1	
14 (e)	Donor to cancel NPD request	DNO	3	Donor will cancel NPD request before NPD ACK message to MNPSP	SIM12	NPD	
14 (f)	NPD Response by RNO to MNPSP	RNO	3	NPD response to be sent by RNO within 30 days of receiving NPD Request (Multiple NPOSA by RNO within 30 days is not allowed. Second NPOSA will be accepted only on 30th Day.)	SIM13 - SIM14	NPD	
14 (g)	MNPSP to make a query from DNO & wait for 96 hours	MNP SP	3		SIM13 - SIM14	NPD	
14 (h)	NPDResponsefromMNPSPDNO	MNP SP	3		SIM13 - SIM14	NPD	
14 (i)	NPD Acknowledgement from DNO to MNPSP	DNO	3	DNO to acknowledge Non- payment disconnect request within 96 calendar hours.	SIM13 - SIM14	NPD	
14 (j)	NPD Acknowledgement from MNPSP to RNO	MNP SP	3		SIM13 - SIM14	NPD	
15	Number return process initiation by MNPSP	MNP SP	3		SIM13	NPD	
16	Donor acknowledges number return	DNO	3		SIM13	NPD	
17	Reconnection request within 60 days of NPD Acknowledgement (Disconnect) received from RNO to MNPSP	RNO	4		SIM14	NPD	
18	Reconnection notification by MNPSP to DNO; number reconnected to RNO.	MNP SP	4		SIM13	NPD	
19	Broadcast of LRN with NRH	MNP SP	4		SIM13	NPD	
20	SMS to 1929 for UPC	DNO	1	UPC Request (SMS) to be routed to correct Zone MNPSP (serving NRH of the customer) by DNO SMSC.	SIM15 - SIM20	Corporate	
21	CorporatePort Order Submission	RNO	1	RNO submit Corporateport request to MNPSP for 10 (upto 100) MSISDN's	SIM15 - SIM20	Corporate	
22	CorporatePort Order Acknowledgement.	MNP SP	1	MNPSP will send acknowledgement 'Port	SIM15 -	Corporate	

	No port withdrawal window message to be sent.			Request submitted' (SMS) to the subscriber	SIM20		
23	Port Cancel' request by customer within 24-hour, MNPSP to match MSISDN in 'Port Cancellation' (SMS) with requesting (A-party) number, if numbers are same, and submitted with correct format within 24 hours time of raising the Port Request, Port Cancel request to be accepted.	RNO	1	Corporate Subscriber will cancel port request within 24 hrs from port request submit time & date. MCH should accept the port cancel request	SIM15	Corporate	
24				Donor will reject partial Corporateport request with following rejection reason 1. Authorization Letter not	· SIM16	Corporate Corporate	
				in Desired Format 2. Incorrect Donor name or Recipient name or circle name	SIM17	Corporate	
				3. Authorized Signatory Name & Signature missing /mismatch	SIM18	Corporate	
	CorporatePort Order			4.Authorized Signatory E- mail id missing		Corporate	
	Rejection - authorization letter	RNO/ DNO	1	5. Authorized signatory seal / signature not available in all pages		Corporate	
				6. Authorized Signatory Signature missing / mismatch		Corporate	
				7. Company letter head not valid		Corporate	
				8. Company name mismatch		Corporate	
				 9. Company Stamp Missing 10. Mobile number 		Corporate Corporate	
25		DNO		mentioned is incorrect	OD (10	-	
25	Corporate Port	DNO	3-4	DNO will send corporate	SIM19	Corporate	

	Order Confirmation			porting order response to	-		
				MNPSP with acceptance	SIM20		
26	CorporatePort Order Partial Acceptance & Full Acceptance	MNP SP	3-4	MNPSP will send 'Port Response' (accepted) to DNO and RNO and Port Accepted (SMS) to the	SIM19 - SIM20	Corporate	
	-			customer with date & time.			
27	CorporatePort Order ServiceMNP SP3-4Disconnection3-4			MNPSP will send SD message to Donor	SIM19 - SIM20	Corporate	
28	CorporatePort OrderService DisconnectDNO3-4			DNO will send Service Disconnect Answer	SIM19 - SIM20	Corporate	
29	CorporatePort Order Service Connect	MNP SP	3-4	MNPSP will send SC message to RNO	SIM19 - SIM20	Corporate	
30	CorporatePort Order Service Connect Answer	RNO	3-4	RNO will send Service Connect Answer	SIM19 - SIM20	Corporate	
31	CorporatePort Order broadcast	MNP SP	3-4	MNPSP will send broadcast message with correct LRN to all operators	SIM20 SIM19 - SIM20	Corporate	
32	Number Porting Ord	ler Tern	ninatio	1	SIM19- SIM20	NPOT	
32	NPOT request by				SIM19	NPOT	
(a)	Current NO of MSISDN to Number range Holder.	DNO	7	The Current Subscription Network sends an NPOT request for number return to the Number Range Holder.			
32 (b)	Negative Ack by MNPSP to the Current NO	MNP SP	7	MNPSP to send negative acknowledgement specifying rejection reason. wrong_NRH/ invalid_referenceID/ order_already_exists/ active_order_exists / number_not_routed/ number_not_routed_to_send er			
32 (c)	Positive Ack by MNPSP to the	MNP SP	7	NPOT message is accepted by the CNPMS and NPOT is forwarded to Number Range Holder. NPOTA (+) by Number	SIM19	NPOT	
	Current NO	RNO	/	Range Holder	SIM19	NPOT	
32 (d)	Broadcast of LRN with NRH	MNP SP	7	SD-Notice to all the MNO	SIM19	NPOT	
33	RDB-Sync	-			•		
33 (a)	Customer to initiate			MNPSP will release the RDBPD based on Operator request. The MNO should be			
	Partial RDB Download	RNO/ DNO	7	able to download partial bulk sync data, and populate	NA	RDB	

				it in its routing tables.			
33				MNPSP will release the			
(b)				RDBF based on Operator			
				request. The MNO should be			
	Customer to initiate			able to download full bulk			
	Full RDB	RNO/		sync data, and populate it in			
	Download	DNO	7	its routing tables.	NA	RDB	

3. TestCases – NLD/ILD

The pre-requisites are mentioned in Annexure-IV.

S.No	Test Case ID	Role	Day	Description	Test Results	Comments
1	Port broadcast by MNPSP.	MNPSP	1	The MNO should be able to accept the port broadcast message from the MNPSP and should send back the port broadcast answer message to the MNPSP as acknowledgement. Based on this message, the MNO should be able to update the routing tables at their end.		
	RDB-Sync					
2	MNO to initiate Partial RDB Download	RNO/DNO	1	MNPSP will release the RDBPD based on MNO request (based on date range, LRN range, LSA or a combination thereof). The MNO should be able to download partial bulk sync data and populate it in its routing tables.		
3	MNO to initiate Full RDB Download	RNO/DNO	1	MNPSP will release the RDBFD based on MNO request. The MNO should be able to download full bulk sync data, and populate it in its routing tables.		

Annexure I – Pre-Requisites

- (1) All test scenarios will be performed on the TEST platform.
- (2) The Test Cases are designed considering a pair of Moblie Network Operators (MNOs).
- (3) The Testing will be performed under reduced timer parameters (from days to hours) to enable faster completion of the testing scenarios.
- (4) Availability of 1929 short code for network operator TEST SMSC to place the UPC request.
- (5) Centralized SMSC for each MNO.
- (6) Numbering plan should be in SYNC for both MNPSPs and MNO.
- (7) The MNO will do testing both as RNO and DNO.
- (8) Testing SIM numbers and Testing SPOCs details should be share with MCH in advance.
- (9) Spare SIM will be needed for Testing and MNO should share new SIM as and when they change testing numbers.
- (10) Proposed PAIR MNO A and MNO B taking a set of 3 LSAs (one of them has to be AS, NE or JK).

S. No.	SIM No.	SIM Type	Test Scenarios	
1.	SIM 1 to SIM 10	Prepaid SIM	Intra LSA	
2.	SIM 11 to SIM 13	Postpaid SIM	Intra LSA	
3.	SIM11	Postpaid SIM	SIM will be Ported SIM	
4.	SIM 14	Postpaid SIM	Intra Zone & Inter LSA	
5.	SIM14	Roaming SIM	Inter Zone & Inter LSA	
6.	SIM 15 to SIM 20	Corporate SIM		
7.	SIM 21	Special LSA	Will be used for AS,NE, J&K For Successful scenario	

Annexure III - Timer Values for Testing

S.NO.	Timer Details	Description	Time Defined In Regulation	Proposed Timing For	Proposed Timing For
				Testing	Testing (As,Ne,J&K)
1.	UPC Info Time	The time within DNO must response for the subscriber info query	2 Min	2 Min	2 Min
2.	UPC delay time	Maximum time to wait for DNO response for subscriber info query	5 Min	5 Min	5 Min
3.	UPC Validity	UPC will be valid for	4 Days	4 Days	5 Days
4.	Port schedule time (Individual Intra)	MCH to schedule porting window of individual port request for intra LSA	48 Hrs	48 Hrs	72 Hrs
5.	Port schedule time (Individual Inter)	MCH to schedule porting window of individual port request for Inter LSA	96 Hrs	96 Hrs	72 Hrs
6.	Port response time for corporate port	Time given to DNO to respond for corporate port request	96 Hrs	96 Hrs	96 Hrs
7.	Cancel deadline	Cancellation request can be raised with in	24 hrs	24 hrs	24 hrs
8.	NPD timers	NPD can be raised after bill due date	7 days	3 Days	3 Days
		NPD cannot be raised after bill due date	60 days	7 Days	7 Days
		NPD should be raised within 90 days from last porting	90 Days	7 Days	7 Days

9.	NPD	Reconnection	60 Days	3 Days	3 Days
	Reconnection	can be raised			
		within			
10.	Grace Period to	Number return	7 Days	1 Days	1 Days
	raise Number	due to NPD can			
	Return	be raised within			

Annexure IV–Pre-Requisites

- (1) All test scenarios will be performed on the TEST platform.
- (2) Numbering plan should be in SYNC for both MNPSPs and Operators
- (3) Testing SPOCs details should be share with MCH in advance

Glossary

CAF	Customer Application Form
DNO	Donor Network Operator
LRN	Location Routing Number
МСН	MNP Clearing House
MNO	Mobile Network Operator
MNP	Mobile Number Portability
MNPSP	MNP Service Provider
MSISDN	Mobile Station Integrated Services Digital Network
NPD	Non Payment Disconnection
NPOSA	Number Portability Order Suspension Acknowledgment
NPOT	Number Porting Order Termination
NPOTA	Number Porting Order Termination Acknowledgment
NRH	Number Range Holder
RDB	Relational Database
RDBFD	Relational Database Full Download
RDBPD	Relational Database Partial Download
RNO	Recipient Network Operator
SMS	Short Message Service
UPC	Unique Porting Code
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