



**AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM**

**INDUSTRY GUIDELINE**

**MOBILE NUMBER PORTABILITY  
ONGOING TEST PLAN  
FOR  
VOICE, FAX & DATA SERVICES**

ACIF G604:2002



Guideline – *Mobile Number Portability Ongoing Test Plan for Voice, Fax & Data Services*

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## 1. ABOUT THIS DOCUMENT

This document has been prepared by ACIF Network Testing Sub-Group (NTSG) for Mobile Number Portability (MNP) to describe the recommended MNP network testing to be performed by new PSDs and Mobile Carriers.

### 1.1 Audience

This document is intended for:

- (a) ACIF MNP – Network Testing Sub-Group.
- (b) ACIF for information.
- (c) PSDs and Mobile Carriers.
- (d) New entrants.

### 1.2 Distribution

ACIF MNP - Network Testing Sub Group

ACIF MNP – PMG

PSD and Mobile Carriers

### 1.3 Abbreviations

ACA – Australian Communications Authority

ACCC – Australian Competition and Consumer Commission

ACIF – Australian Communications Industry Forum

CAC – Carrier Access Code

C/CSP – Carrier or Carriage Service Provider

CTrSD – Contracted Transit Service Deliverer

DTrSD – Donor Transit Service Deliverer

MNP – Mobile Number Portability

NTSG – Network Testing Sub-Group

PMG – Project Management Group

PSD – Prime Service Deliverer

### 1.4 Reference Documents

ACIF G561:December 2000 Industry Specification, Mobile Number Portability – Network Plan for Voice, Data and Fax Services

ACIF G565:February 2001 Industry Specification, Mobile Number Portability – Network Plan for SMS

ACA Telecommunications Numbering Plan 1997

ACIF G549:2000 Interconnection Implementation Plan

ACIF G538:1999 ACIF Interconnection Model

ACIF G595:2002 Industry Guideline Mobile Number Portability Permanent Test Numbers

**2. INTRODUCTION**

**2.1 Overview**

MNP was implemented by all PSDs and Mobile Carriers on the 25 September 2001.

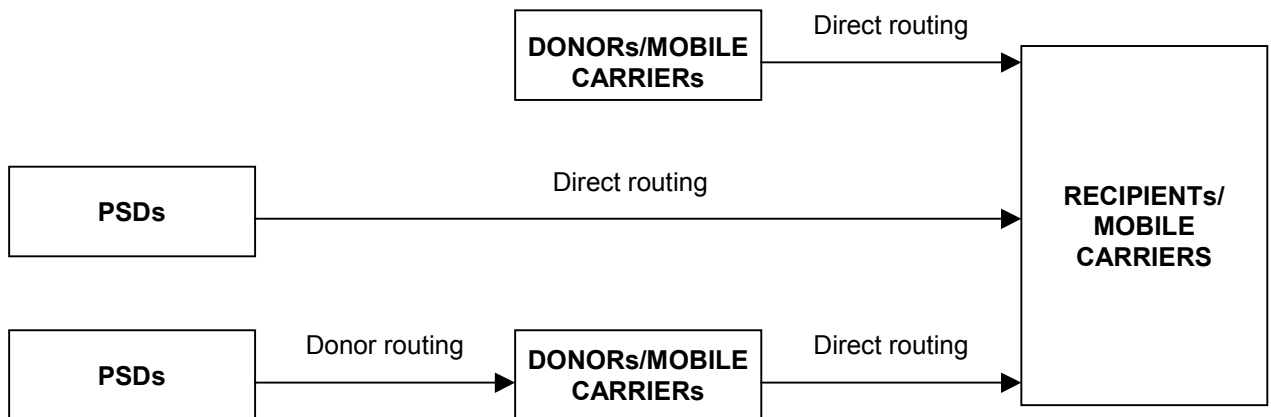
This network test plan has been developed by the ACIF MNP NTSG to define the ongoing MNP specific testing recommended to be performed by new PSDs and Mobile Carriers.

Note the testing of SMS is not covered within this document as this expected to be covered through bilateral agreements between a new Mobile Carrier and existing Mobile Carriers.

**2.2 MNP Routing**

There are three methods of routing that are addressed by this document:

- Donor/Mobile Carrier Direct Routing.
- PSD Donor Routing.
- PSD Direct Routing.



**Figure 2-1**  
**MNP Routing Methods**

## 3. TESTING

### 3.1 Test Objectives

The objective of the MNP testing is to test the network conditioning implemented by a new PSDs or Mobile Carrier to ensure that calls are routed in accordance with the ACIF MNP Network Plan for Voice, Fax and Data Services.

### 3.2 Test Numbers

Mobile Carrier have setup MNP test numbers so that new PSDs and Mobile Carriers can make test calls to these numbers to confirm their network conditioning is correct for MNP.

These test numbers have been setup so that the calls to them are answered automatically (e.g. voice mail box) in manner that demonstrates successful routing.

The MNP test numbers will be advised by the individual Mobile Carriers through their bilateral agreements with new entrants. Also refer to ACIF G595 Industry Guideline MNP Permanent Test Numbers.

### 3.3 Test Calls

Section 3 shows the various combinations of test scenarios possible for MNP.

The recommended minimum set of test cases for each routing scenario is as follows:

- Donor/Mobile Carrier Direct Routing – As per those listed in Section 5.
- PSD Direct Routing – As per those listed in Section 5.
- PSD Donor Routing – As per those listed in Section 6.

**4. MATRIX OF PORTING SCENARIOS**

		<i>Gaining Mobile Carrier</i>					
		Telstra (GSM)	Telstra (CDMA)	Optus (GSM)	Vodafone (GSM)	Orange (CDMA)	Hutchison 3G (UMTS)
<i> Losing Mobile Carrier</i>	Telstra (GSM)	1.1	2.1	3.1	4.1	5.1	6.1
	Telstra (CDMA)	1.2	2.2	3.2	4.2	5.2	6.2
	Optus (GSM)	1.3	2.3	3.3	4.3	5.3	6.3
	Vodafone (GSM)	1.4	2.4	3.4	4.4	5.4	6.4
	Orange (CDMA)	1.5	2.5	3.5	4.5	5.5	6.5
	Hutchison 3G (UMTS)	1.6	2.6	3.6	4.6	5.6	6.6

 Note: Shaded boxes indicate non-ported test numbers made available by the recipient for error case testing.

**Table 4-1**  
**Matrix Of Porting Scenarios**

**5. DIRECT ROUTING TEST CASES**

<b>Test Case</b>	<b>Test Case</b>
<i>Calls to Telstra (GSM) as Recipient Mobile Carrier</i>	
1.2	Direct Routed Call to Telstra (CDMA) number ported to Telstra (GSM)
1.3	Direct Routed Call to Optus number ported to Telstra (GSM)
1.4	Direct Routed Call to Vodafone number ported to Telstra (GSM)
1.5	Direct Routed Call to Orange number ported to Telstra (GSM)
1.6	Direct Routed Call to Hutchison 3G number ported to Telstra (GSM)
<i>Calls to Telstra (CDMA) as Recipient Mobile Carrier</i>	
2.1	Direct Routed Call to Telstra (GSM) number ported to Telstra (CDMA)
2.3	Direct Routed Call to Optus number ported to Telstra (CDMA)
2.4	Direct Routed Call to Vodafone number ported to Telstra (CDMA)
2.5	Direct Routed Call to Orange number ported to Telstra (CDMA)
2.6	Direct Routed Call to Hutchison 3G number ported to Telstra (CDMA)
<i>Calls to Optus as Recipient Mobile Carrier</i>	
3.1	Direct Routed Call to Telstra (GSM) number ported to Optus
3.2	Direct Routed Call to Telstra (CDMA) number ported to Optus
3.4	Direct Routed Call to Vodafone number ported to Optus
3.5	Direct Routed Call to Orange number ported to Optus
3.6	Direct Routed Call to Hutchison 3G number ported to Optus
<i>Calls to Vodafone as Recipient Mobile Carrier</i>	
4.1	Direct Routed Call to Telstra (GSM) number ported to Vodafone
4.2	Direct Routed Call to Telstra (CDMA) number ported to Vodafone
4.3	Direct Routed Call to Optus number ported to Vodafone
4.5	Direct Routed Call to Orange number ported to Vodafone
4.6	Direct Routed Call to Hutchison 3G number ported to Vodafone
<i>Calls to Orange as Recipient Mobile Carrier</i>	
5.1	Direct Routed Call to Telstra (GSM) number ported to Orange
5.2	Direct Routed Call to Telstra (CDMA) number ported to Orange
5.3	Direct Routed Call to Optus number ported to Orange
5.4	Direct Routed Call to Vodafone number ported to Orange
5.6	Direct Routed Call to Hutchison 3G number ported to Orange
<i>Calls to Hutchison 3G as Recipient Mobile Carrier</i>	
6.1	Direct Routed Call to Telstra (GSM) number ported to Hutchison 3G
6.2	Direct Routed Call to Telstra (CDMA) number ported to Hutchison 3G
6.3	Direct Routed Call to Optus number ported to Hutchison 3G
6.4	Direct Routed Call to Vodafone number ported to Hutchison 3G
6.5	Direct Routed Call to Orange number ported to Hutchison 3G

**Table 5-1**  
**Direct Routing Test Cases**

## 6. Donor Routing Test Cases

Test Case	Test Case
3.1	Donor Routed Call to Telstra (GSM) number ported to Optus
4.2	Donor Routed Call to Telstra (CDMA) number ported to Vodafone
5.3	Donor Routed Call to Optus number ported to Orange
6.4	Donor Routed Call to Vodafone number ported to Hutchison 3G
1.5	Donor Routed Call to Orange number ported to Telstra (GSM)
2.6	Donor Routed Call to Hutchison 3G number ported to Telstra (CDMA)

**Table 6-1**  
**Donor Routing Test Cases**

## 7. CONTACTS

See below for information on MNP specific contacts:

- Testing – refer to bilateral agreements.
- Fault Reporting - as per interconnect operational agreements.

ACIF is an industry owned, resourced and operated company established by the telecommunications industry in 1997 to implement and manage communication self-regulation within Australia.

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