ACIF G613.5:2004

AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM

INDUSTRY GUIDELINE

LOCAL NUMBER PORTABILITY
IT TEST PLAN
PART 5 – CATEGORY D

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2. The above disclaimers will not apply to the extent they are inconsistent with any relevant legislation.

PARTICIPANTS

The Working Committee that developed this Industry Guideline consisted of the following organisations and their representatives:

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This Working Committee was chaired by Alexander R. Osborne. Terry Andersen of ACIF provided project management support.

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1.1   Cat. D - Donor as Losing C/CSP

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│     SNA      │──────▶│    Expiry    │
└──────────────┘       └──────────────┘

                       ┌──────────────┐
                   ───▶│ SNA Withdrawal│
                       └──────────────┘

                       ┌──────────────┐       ┌──────────────┐
                   ───▶│     ECA      │──────▶│   Cutover    │
                       └──────────────┘       └──────────────┘
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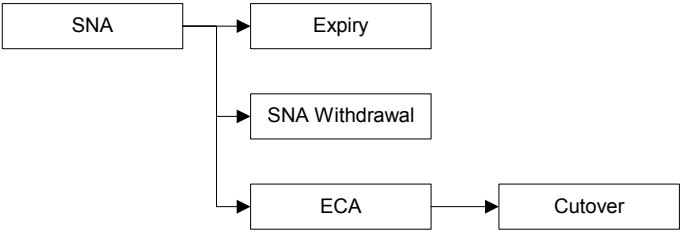
2 CAT. D – TEST SCENARIOS

2.1 Cat. D - Donor as Losing C/CSP Scenario Description

Test Scenario No.	Test Scenario Type	Description	Recommended Minimum Test
DDL01	Successful Port	A successful Port from the Donor Carrier to the Gaining Carrier.	Yes
DDL02	Successful Port after ECA Rejection	A successful Port from the Donor Carrier to the Gaining Carrier after an ECA is rejected for Response Code 032 (Insufficient notification timeframe).	Optional
DDL03	Successful Port after Withdrawal Rejection	A successful Port from the Donor carrier to the Gaining carrier after Withdrawal is rejected with Response Code 032 (Insufficient notification timeframe).	Yes
DDL04	Successful Withdrawal	A Port Request is terminated by a successful Withdrawal transaction	Yes
DDL05	Expiry	A Port Request is terminated by the generation of an Expiry Notification	Yes
DDL06	Expiry after Withdrawal rejection	A Port Request is terminated by the generation of an Expiry Notification after Withdrawal has been rejected with Response Code 032 (Insufficient notification timeframe).	Yes
DDL07	Rejected Port	A Port Request is rejected for Response Code 017 (Account Number and Service Number mismatch).	Yes
DDL08	Rejected Port	A Port Request is rejected for Response Code 001 (Service Number not found).	Optional
DDL09	Port Reversal	A number is successfully Ported and then reversed.	Yes

2.2 Giveback Scenario Description

Test Scenario No.	Test Scenario Type	Description	Recommended Minimum Test
AGB01	Giveback Successful	A Giveback is successfully processed.	Yes
AGB02	Giveback Rejected	A Giveback is rejected for Response Code 038 (Giveback invalid)	Yes

3   TEST CASE DESCRIPTION FOR CAT. D PROCESS INTERCARRIER INTERFACE TESTING

3.1   Donor as Losing

Scenario No	DDL01
Pre- Requisite Scenario	
Test Scenario Type	Successful Port
Scenario Description	A successful Port from the Donor Carrier to the Gaining Carrier.
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. At least 2 Business Days later a valid ECA is received and confirmation is sent. An SNA Completion Advice is sent on Port completion.
Test Outcome	Port successfully completed and Telephone Number appears on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
2	G	ECA Cutover Notification		n/a
2	D	ECA Cutover Confirmation		"000"
2	D	SNA Completion Notification		n/a
3	D	PLNR update	Update PLNR with a new entry for the Telephone Number identifying the Gaining C/CSP	"A"
4	D	PLNR update		"Space'

Scenario No	DDL02
Pre- Requisite Scenario	
Test Scenario Type	Successful Port after ECA Rejection
Scenario Description	A successful Port from the Donor Carrier to the Gaining Carrier after an ECA is rejected for Response Code 032 (Insufficient notification timeframe).
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. An ECA is sent between carriers after SNA Confirmation. The ECA is rejected and notification is sent with Response Code 032 (Insufficient notification timeframe). A second ECA is received and confirmation is sent. An SNA Completion Advice is sent on Port completion.
Test Outcome	Port successfully completed and Telephone Number appears on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
1	G	ECA Cutover Notification		n/a
1	D	ECA Cutover Rejection	Insufficient notification timeframe	"032"
2	G	ECA Cutover Notification		n/a
2	D	ECA Cutover Confirmation		"000"
2	D	SNA Completion Notification		n/a
3	D	PLNR update	Update PLNR with a new entry for the Telephone Number identifying the Gaining C/CSP	"A"
4	D	PLNR update		"Space'

Scenario No	DDL03
Pre- Requisite Scenario	
Test Scenario Type	Successful Port after Withdrawal Rejection
Scenario Description	A successful Port from the Donor carrier to the Gaining carrier after Withdrawal is rejected with Response Code 032 (Insufficient notification timeframe).
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. An invalid SNA Withdrawal Notification is received therefore an SNA Withdrawal Rejection is sent within 1 business day with response code 032 (Insufficient notification timeframe). An ECA notification is sent on the day of expiry and accepted. An SNA completion Advice is sent on Port completion.
Test Outcome	Port successfully completed and Telephone Number appears on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
29	G	SNA Withdrawal Notification		n/a
29	G	ECA Cutover Notification		n/a
29	D	ECA Cutover Confirmation		"000"
29	D	SNA Completion Notification		n/a
30	D	SNA Withdrawal Rejection		"032"
30	D	PLNR update	Update PLNR with a new entry for the Telephone Number identifying the Gaining C/CSP	"A"
32	D	PLNR update	Would be updated on Day 31 except it is a Public Holiday.	"Space'

Scenario No	DDL04
Pre- Requisite Scenario	
Test Scenario Type	Successful Withdrawal
Scenario Description	A Port Request is terminated by a successful Withdrawal transaction
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. A valid SNA Withdrawal Notification is received therefore a SNA Withdrawal Confirmation is sent within 1 Business Day. Port is cancelled.
Test Outcome	The Port is successfully cancelled and the Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
3	G	SNA Withdrawal Notification		n/a
4	D	SNA Withdrawal Confirmation		"000"
	D	PLNR not updated	The PLNR is not updated as the Port is successfully cancelled	n/a

Scenario No	DDL05
Pre- Requisite Scenario	
Test Scenario Type	Expiry
Scenario Description	A Port Request is terminated by the generation of an Expiry Notification
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. No ECA Cutover Notification is received within 30 calendar days. The Donor Carrier cancels the SNA and sends an SNA Expiry Notification the Business Day following the expiry date.
Test Outcome	The Port Expires and the Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
30	D	SNA Expiry Notification		n/a
	D	PLNR not updated	The PLNR is not updated as the Port Expires	n/a

Scenario No	DDL06
Pre- Requisite Scenario	
Test Scenario Type	Expiry after Withdrawal rejection
Scenario Description	A Port Request is terminated by the generation of an Expiry Notification after Withdrawal has been rejected with Response Code 032 (Insufficient notification timeframe).
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. An invalid Withdrawal notification is received and rejected with response code 032 (Insufficient notification timeframe). No ECA Cutover Notification is received within 30 days of the SNA therefore the SNA expires. The Donor Carrier cancels the SNA and sends an SNA Expiry Notification the Business Day following the expiry date.
Test Outcome	The Port Expires and the Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
29	G	SNA Withdrawal Notification		n/a
30	D	SNA Withdrawal Rejection		"032"
30	D	SNA Expiry Notification		n/a
	D	PLNR not updated	The PLNR is not updated as the Port Expires	n/a

Scenario No	DDL07
Pre- Requisite Scenario	
Test Scenario Type	Rejected Port
Scenario Description	A Port Request is rejected for Response Code 017 (Account Number and Service Number mismatch).
Detailed Test Description	An SNA is sent from the Gaining Carrier and rejected by the Donor Carrier within 1 Business Day. The Port Request is rejected with Response Code 017 (Account Number and Telephone Number mismatch). SNA Rejection is sent within 1 Business Day
Test Outcome	The Port is rejected and the Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Rejection		"017"
	D	PLNR not updated	The PLNR is not updated as the Port is rejected	n/a

Scenario No	DDL08
Pre- Requisite Scenario	
Test Scenario Type	Rejected Port
Scenario Description	A Port Request is rejected for Response Code 001 (Service Number not found).
Detailed Test Description	An SNA is sent from the Gaining Carrier and rejected by the Donor Carrier within 1 Business Day. The Port Request is rejected with Response Code 001 (Service Number not found). SNA Rejection is sent within 1 Business Day
Test Outcome	The Port is rejected and the Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Rejection		"001"
	D	PLNR not updated	The PLNR is not updated as the Port is rejected	n/a

Scenario No	DDL09
Pre- Requisite Scenario	
Test Scenario Type	Port Reversal
Scenario Description	A Telephone Number is successfully Ported and then reversed
Detailed Test Description	An SNA is sent from the Gaining Carrier and confirmed by the Donor Carrier within 1 Business Day. At least 2 Business Days later a valid ECA is received and confirmation is sent. An SNA Completion Advice is sent on Port completion. The Port is then reversed.
Test Outcome	Port successfully completed and then Reversed. The Telephone Number does not appear on the Donor Carriers PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	G	SNA		n/a
1	D	SNA Confirmation		"000"
2	G	ECA Cutover Notification		n/a
2	D	ECA Cutover Confirmation		"000"
2	D	SNA Completion Notification		n/a
	G	Reversal	The Reversal is actioned within 4 hours of the Port. This is a manual action	n/a
	D	PLNR not updated	The PLNR is not updated as the Port is reversed	n/a

3.2 Giveback

Scenario No	**DGB01**
Pre- Requisite Scenario	DDL01
Test Scenario Type	Giveback Successful
Scenario Description	A Giveback is successfully processed.
Detailed Test Description	A Giveback Notification is sent by the Losing Carrier to the Donor Carrier and confirmed by the Donor Carrier within 1 Business Day.
Test Outcome	The Telephone Number is returned to the Donor Carrier is no longer on the PLNR

Day	Carrier	Transaction Type	Description	Code Value
0	L	Giveback Notification		n/a
1	D	Giveback Confirmation		"000"
2	D	PLNR update		"C"
3	D	PLNR update	PLNR entry removed	n/a

Scenario No	**DGB02**
Pre- Requisite Scenario	DDL01
Test Scenario Type	Giveback Rejected
Scenario Description	A Giveback is rejected for Response Code 038 (Giveback invalid)
Detailed Test Description	A Giveback Notification A Giveback Notification is sent by the Losing Carrier to the Donor Carrier and rejected by the Donor Carrier within 1 Business Day with Response Code 038 (Giveback invalid).
Test Outcome	Giveback is rejected and Telephone Number remains on PLNR.

Day	Carrier	Transaction Type	Description	Code Value
0	L	Giveback Notification		n/a
1	D	Giveback Rejection		"038"

4   TEST RUN SCHEDULE MATRIX

4.1   Run Chart for Cat. D Process Intercarrier Interface Testing

Actual Date	System Date	Day of Week	Bus Day	Cal Day	PNO	Hot Batch	PLNR
	1 December 2003	Mon	0	0	DDL01 DDL02 DDL03 DDL04 DDL05 DDL06 DDL07 DDL08 DDL09 DGB01 DGB02		
	2 December 2003	Tue	1	1	DDL01 DDL02 DDL03 DDL04 DDL05 DDL06 DDL07 DDL08 DDL09 DGB01 DGB02	DDL02	
	3 December 2003	Wed	2	2		DDL01 DDL02 DDL09	DGB01
	4 December 2003	Thu	3	3	DDL04		DDL01 DDL02 DGB01

Actual Date	System Date	Day of Week	Bus Day	Cal Day	PNO	Hot Batch	PLNR
	5 December 2003	Fri	4	4	DDL04		DDL01 DDL02
	6 December 2003	Sat	4	5			
	7 December 2003	Sun	4	6			
	8 December 2003	Mon	5	7			
	9 December 2003	Tue	6	8			
	10 December 2003	Wed	7	9			
	11 December 2003	Thu	8	10			
	12 December 2003	Fri	9	11			
	13 December 2003	Sat	9	12			
	14 December 2003	Sun	9	13			
	15 December 2003	Mon	10	14			
	16 December 2003	Tue	11	15			
	17 December 2003	Wed	12	16			
	18 December 2003	Thu	13	17			
	19 December 2003	Fri	14	18			
	20 December 2003	Sat	14	19			
	21 December 2003	Sun	14	20			
	22 December 2003	Mon	15	21			
	23 December 2003	Tue	16	22			
	24 December 2003	Wed	17	23			
	25 December 2003	Thu	17	24			
	26 December 2003	Fri	17	25			
	27 December 2003	Sat	17	26			
	28 December 2003	Sun	17	27			
	29 December 2003	Mon	18	28			
	30 December 2003	Tue	19	29	DDL03 DDL06	DDL03	
	31 December 2003	Wed	20	30	DDL03 DDL05 DDL06		DDL03

Actual Date	System Date	Day of Week	Bus Day	Cal Day	PNO	Hot Batch	PLNR
	1 January 2004	Thu	20	31			
	2 January 2004	Fri	21	32			DDL03
	3 January 2004	Sat	21	33			
	4 January 2004	Sun	21	34			
	5 January 2004	Mon	22	35			

5   RESPONSE CODES

Not all response codes will tested as part of Application Layer testing, however the following points should be noted:

- All response codes require internal testing.

- Some response codes are for internal testing only as they require manual intervention to automated processes.

- If a Participant cannot generate a transaction to elicit the appropriate response code, a variation to the execution schedule can be agreed on a case by case basis.

The following table is provided to assist Participants to identify those response codes they wish to test.

Response Codes for Cat. D Testing							
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	001	Service Number Not Found					
	002	Service Number is on Diversion					
	003	Inactive Service					
	004	Disconnected Service					
	005	Complex Service – eg ISDN, Line Hunt etc.					
	006	ULLS Call Diversion does not exist on requested Telephone Number					
	007	ULLS Number/Telephone Number mismatch					
	008	Outstanding Porting Request					

Response Codes for Cat. D Testing							
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	009	Porting Already Completed					
	010	Telephone Number Ported to Another ASD					
	011	ASD Owned Telephone Number					
	012	Not Used					
	013	Not Used					
	014	Not Used					
	015	Incompatible Exchange Technology					
	016	Not Used					
	017	Telephone Number / Account Mismatch					
	018	All mandatory fields are not populated					
	019	Not Used					
	020	Transaction Level Rejections					
	021	Not Used					
	022	Not Used					
	023	Not Used					
	024	Not Used					

		Response Codes for Cat. D Testing					
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	025	Not Used					
	026	Not Used					
	027	Not Used					
	028	Not Used					
	029	Not Used					
	030	Not Used					
	031	Not Used					
	032	Insufficient notification time frame					
	033	Not Used					
	034	Cutover outside agreed hours					
	035	No Porting Request is currently outstanding					
	036	Invalid Cutover Timeslot					
	037	Retarget Limit exceeded					
	038	Giveback Invalid					
	039	Out of Area Telephone Number					
	040	Duplicate Telephone Number in Batch					

Response Codes for Cat. D Testing							
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	041	Multiple Sites					
	042	Not Used					
	043	Not Used					
	044	Not Used					
	045	Not Used					
	046	Not Used					
	047	Not Used					
	048	Not Used					
	049	Not Used					
	050	Not Used					
	051	Telephone Number currently being Ported to another C/CSP					
	052	Service is currently connected to the ASD's network					
	053	Cutover Date is within the Lead Time					
	054	Cutover Date is outside Expiry Date					
	055	Invalid Status - CNA Retarget or Withdrawal requested after CCA was Confirmed					

		Response Codes for Cat. D Testing					
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	056	Invalid Withdrawal Request					
	057	Invalid Retarget Request					
	058	Not Used					
	059	Not Used					
	060	Incomplete Number Block or missing Telephone Numbers in Batch					
	061	Batch Reference Number Missing					
	062	Giveback Date Invalid					
	063	Incorrect Category					
	064	Secondary Reject					
	065	Telephone Numbers are not contiguous for a product					
	066	Not Used					
	067	Invalid CA date					
	068	Not Used					
	069	Donor Reject					
	070	Not Used					
	071	Not Used					

Response Codes for Cat. D Testing							
Transaction	Response Code	Reject Reason	Probability (0 -10)	Impact (0 -10)	Ranking (1 - 100)	Comment	Test Y/N
	072	Not Used					
	073	Excluded product					
	074	Not Used					
	075	Not Used					
	076	Not Used					
	077	Batch Number NOT unique					

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INDUSTRY GUIDELINE – LOCAL NUMBER PORTABILITY IT TEST PLAN PART 5 –
CATEGORY D

ACIF is an industry owned, resourced and operated company established to implement and manage communications self-regulation within Australia. ACIF's role is to develop and administer technical and operating arrangements to foster a thriving, effective communications industry serving the Australian community through

- the timely delivery of Standards, Codes and other documents to support competition and protect consumers;

- widespread compliance; and

- the provision of facilitation, coordination and implementation services to enable the cooperative resolution of strategic and operational industry issues.

ACIF comprises a Board, an Advisory Assembly, standing Reference Panels, task specific Working Committees, Industry Facilitation/Coordination Groups, Consumer Advisory Bodies and a small Executive. Its members include carriers, carriage/content service providers, business and residential consumer groups, industry associations and individual companies.

The ACIF Standards and Codes development process involves the ACIF Board, Reference Panels, Working Committees and the ACIF Executive. The roles and responsibilities of all these parties and the applicable operating procedures are specified in the ACIF Operating Manual.

These procedures are based upon ACIF's openness, consensus, representation and consultation imperatives and have been designed to ensure that all sectors of Australian society are reasonably able to influence the development of Standards and Codes. Reference Panels and Working Committees must be representative of parties interested in the subject matter of the body of work being undertaken. All draft Codes/Standards are also released for public comment prior to publication to ensure outputs reflect the needs and concerns of all stakeholders.

Care should be taken to ensure that material used is from the current version of the Standard or Industry Code and that it is updated whenever the Standard or Code is amended or revised. The number and date of the Standard or Code should therefore be clearly identified. If in doubt please contact ACIF.