



AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM

INDUSTRY SPECIFICATION

INTERCONNECTION IMPLEMENTATION  
PLAN

ACIF G549:2000



Industry Specification - *Interconnection Implementation Plan*

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# 1. INTRODUCTION

## 1.1 Scope

1.1.1 The “Interconnection Implementation Plan” is an Industry endorsed plan which details the Calling Party Number and Called Party Number assignments to be supported between Switched Service Provider (SSP) networks in Australia. It provides a mechanism to identify a range of call types carried between interconnecting networks.

## 1.2 Objectives

1.2.1 The “Interconnection Implementation Plan” comprises the following :

- (a) Interconnect Dial Plan [supported via the Called Party Number parameter]
- (b) Special Call Origin Assignments [supported via the Calling Party Number parameter] , and
- (c) Calling Party Categories that apply to the various interconnect call types.

1.2.2 The Interconnection Implementation Plan is a complementary document to ACIF G500 Specification of Signalling Systems No7 Interconnect ISUP Version 2.0.





## 2. PARTICIPANTS

The group that developed this Draft Interconnection Implementation Plan consisted of the following organizations and their representatives:

<b>Representative</b>	<b>Organisation</b>	
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Alan Arthurell	Alcatel	Secretary
Sam Fois	Telstra	Interconnection
		Implementation Plan Editor
Roger Nicoll	Primus	Interconnection
		Implementation Plan Editor
Catherine Tritt	Telstra	Signalling Specification Editor
Adrian Jang	Telstra	Signalling Specification Editor
Sarath Weerasinghe	Nortel	Signalling Specification Editor
Wayne Thomas	AAPT	
Peter Ramsey	ACA	
Mankin Leung	Alcatel	
Ian Bentley	C&W Optus	
Kamal Wanigatunga	C&W Optus	
Terry Gillespie	C&W Optus	
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James Duck of ACIF supplied project management support.



### 3. REFERENCES

ACA	Numbering plan
ACIF C515:1999	Pre-Selection – Single Basket / Multi Service Deliverer
ACIF G500:1999	Specification of Signalling System No 7 Interconnect ISUP
ACIF G511:1998	1800/13/1300 Number Portability
ACIF G520:1999	Local Number Portability – Network Plan
ACIF G530:1999	Interim Mobile Location Indicator For Emergency Services
ACIF G532:1998	Mobile Location Indicator - 1800/13/1300



## 4. ABBREVIATIONS AND DEFINITIONS

### 4.1 Abbreviations

<b>ACA</b>	Australian Communications Authority
<b>ACIF</b>	Australian Communications Industry Forum
<b>AMPS</b>	Analogue Mobile Phone System
<b>CAC</b>	Carrier Access Code.
<b>CC</b>	Country Code
<b>CDMA</b>	Code Division Multiple Access
<b>CSN</b>	Carrier Specific Number
<b>CSP</b>	Carriage Service Provider
<b>GSM</b>	Global Systems Mobile
<b>GW</b>	Gateway
<b>IAM</b>	Initial Address Message
<b>ISN</b>	International Significant Number.
<b>ISDN</b>	Integrated Services Digital Network
<b>ISUP</b>	ISDN User Part
<b>LN</b>	Local Number (also at times referred to as Directory Number)
<b>LS</b>	Local Switch
<b>NSN</b>	National Significant Number.
<b>OASD</b>	Originating Access Service Deliverer
<b>PMTS</b>	Public Mobile Telephone Service
<b>POI</b>	Point Of Interconnection
<b>PSD</b>	Prime Service Deliverer
<b>PSTS</b>	Public Switched Telephone Service.
<b>SSP</b>	Switched Service Provider
<b>TASD</b>	Terminating Access Service Deliverer

### 4.2 Definitions

**Carrier Access Code** Corresponds to the 14XY network overrides codes assigned from the national dial plan by the ACA

**International Significant Number** International number commencing with Country Code followed by National Significant Number.

**Local Number** An 8 digit geographic number not preceded by an area code.

**National Significant Number** A National Significant Number is a PSTS number with a number length of 9 digits. Defined as a PSTS number, without a leading "0".

**National Significant Number Format** The format of a number as an NSN, or PMTS number, or any other number without the leading zero. It is assumed that the leading zero does not form part of an NSN formatted number.

**Public Mobile Telephone Service** Includes AMPS,GSM and CDMA based mobile networks. Within this document, it is assumed that the leading zero does not form part of a PMTS number.

**Public Switched Telephone Service** ISDN and PSTN lines, assigned geographic numbers. Within this document, it is assumed that the leading zero does not form part of a PSTS number.

## 5. Called Party Number Format

### 5.1 Interconnect Dial Plan

5.1.1 The Interconnect Dial Plan is based around use of additional prefix digits to identify interconnect call types. These prefix digits appear additional digits in the Called Party Number parameter carried as part of the I-ISUP IAM message.

The operation of the Interconnect Dial Plan is largely confined to within the aggregate networks of Australia's Switched Service Providers. The Interconnection Dial Plan is intended to operate independently and as a supplement to the public numbering allocations determined by the ACA and its Numbering Advisory Committee.

The Interconnection Dial Plan is used by a variety of call types. Full descriptions of some examples of call types can be found in related documents

ACIF G520	Local Number Portability Network Plan
ACIF G511	1800/1300/13 Number Portability Network Plan
ACIF G532	Mobile Location Indicator – 1800/13/1300
ACIF G530	Mobile Location Indicator For Emergency Services
ACIF C515	Pre-Selection – Single Basket / Multi Service Deliverer

This document summarises all Interconnection Dial Plan allocations. The document will be reissued as new call types (and prefix digits) are added to the interconnect environment.

5.1.2 The interconnect dial plan is a digit prefix structure, carried as address digits within the Called Party Number. Prefixes are currently decadic (i.e. digits 0 to 9) and of variable length.

Current prefix allocations are:

0	spare
10-13	spare
14XY	Refer to Section 5.2
15-19	spare
2	spare
3	spare
4	spare
5	spare
6	spare
7	spare
8	spare
9	spare

### 5.2 14XY Dial Plan Allocations

5.2.1 For the interconnection prefix "14", a variable length prefix structure has been defined. The 14XY is the first part of the prefix structure, followed by one or more "Service Digits" and then the remaining Called Party address digits which typically relate to the dialled number. That is :

**14XY S xxxxxxxxxxxx, where:**

14XY Carrier Access Code (CAC) – 14XY codes correspond to carrier access codes assigned by the ACA, and form the first part of the interconnect prefix. Typically the 14XY code will correspond to the CSP network to which the call is destined.

S Service Digits – provides explicit customer or network information for billing purposes and to enhance network integrity. Variable number format (see below).

xxxx Called Party address digits typically contain those digits dialed by the user. International numbers are usually carried as 0011- ISN (i.e. 0011-CC xxxx xxxx), and national numbers carried as 0-NSN (i.e 0A xxxx xxxx).

5.2.2 It must also be recognised that the establishment of this interconnect prefix structure does not preclude or replace the requirement of developing an intercarrier service description. For each new interconnection service the service description should explicitly identify the prefix applicable to the service.

5.2.3 The current 14XY Interconnection Dial Plan allocations are summarised in Table 5.1. Examples provided are not intended to be exhaustive, and reference should be made to the ACA numbering plan and referenced ACIF documents.

Service Digit/s	POI Digit Length (Min/Max)	Description / Examples																		
{0} (Note 1)		<p><i>Originating Access – Override Access</i></p> <p>PSTS customer dials on a call by call basis a Carrier Access Code “14XY” to select a specific PSD for a preselectable service. The OASD provides call hand-over to the PSD, using the PSD’s allocated 14XY code.</p> <table border="0" data-bbox="592 1249 1144 1444"> <tr> <td></td> <td style="text-align: center;"><u>Dialled Digits</u></td> <td style="text-align: center;"><u>POI Digits</u></td> </tr> <tr> <td style="text-align: center;">14</td> <td>14XY-LN</td> <td>14XY-0-NSN</td> </tr> <tr> <td style="text-align: center;">14</td> <td>14XY-0-NSN</td> <td>14XY-0-NSN</td> </tr> <tr> <td style="text-align: center;">13-14</td> <td>14XY-0-PMTS</td> <td>14XY-0-PMTS</td> </tr> <tr> <td style="text-align: center;">10-23</td> <td>14XY-0011-CC-NSN</td> <td>14XY-0011-CC-NSN</td> </tr> <tr> <td style="text-align: center;">10-23</td> <td>14XY-0012-CC-NSN</td> <td>14XY-0012-CC-NSN</td> </tr> </table> <p>Reference ACIF C515- Pre-Selection – Single Basket / Multi Service Deliverer.</p>		<u>Dialled Digits</u>	<u>POI Digits</u>	14	14XY-LN	14XY-0-NSN	14	14XY-0-NSN	14XY-0-NSN	13-14	14XY-0-PMTS	14XY-0-PMTS	10-23	14XY-0011-CC-NSN	14XY-0011-CC-NSN	10-23	14XY-0012-CC-NSN	14XY-0012-CC-NSN
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13-14	14XY-0-PMTS	14XY-0-PMTS																		
10-23	14XY-0011-CC-NSN	14XY-0011-CC-NSN																		
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Service Digit/s	POI Digit Length (Min/Max)	Description / Examples																																				
{1} (Note 1)		<p><i>Operator Assistance – Override Access</i></p> <p>PSTS customer dials on a call by call basis a Carrier Access Code “14XY” to select a specific PSD for a preselectable operator service. The OASD provides call hand-over to the PSD, using the PSD’s allocated 14XY code.</p> <table border="0"> <tr> <td></td> <td><u>Dialled Digits</u></td> <td><u>POI Digits</u></td> </tr> <tr> <td>8</td> <td>14XY-122(1-2, 4-9)</td> <td>14XY-122(1-2, 4-9)</td> </tr> <tr> <td>8</td> <td>14XY-123(0-5,7-9)</td> <td>14XY-123(0-5,7-9)</td> </tr> </table> <p>Reference ACIF C515- Pre-Selection – Single Basket / Multi Service Deliverer.</p> <p>The codes 1220, 1223 and 1236 are Common numbers and therefore are not preselectable.</p>		<u>Dialled Digits</u>	<u>POI Digits</u>	8	14XY-122(1-2, 4-9)	14XY-122(1-2, 4-9)	8	14XY-123(0-5,7-9)	14XY-123(0-5,7-9)																											
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2		<p><i>Carrier Specific Numbers</i></p> <p>End-user dials a carrier-specific number. The OASD provides call handover to the PSD allocated the carrier-specific number. 14XY is that of the SD allocated the CSN-block. Some examples are:</p> <table border="0"> <tr> <td></td> <td><u>Dialled Digits</u></td> <td><u>POI Digits</u></td> </tr> <tr> <td>8</td> <td>000</td> <td>1411-2-000</td> </tr> <tr> <td>14-15</td> <td>0-PMTS</td> <td>14XY-2-0-PMTS</td> </tr> <tr> <td>11</td> <td>13n xxx</td> <td>14XY-2-13n xxx</td> </tr> <tr> <td>11</td> <td>134 nxx</td> <td>14XY-2-134 nxx</td> </tr> <tr> <td>13</td> <td>1345 xxxx</td> <td>14XY-2-1345 xxxx</td> </tr> <tr> <td>15</td> <td>130x xxx xxx</td> <td>14XY-2-130x xxx xxx</td> </tr> <tr> <td>15</td> <td>1800 xxx xxx</td> <td>14XY-2-1800 xxx xxx</td> </tr> <tr> <td>15</td> <td>1801 xxx xxx</td> <td>14XY-2-1801 xxx xxx</td> </tr> <tr> <td>12</td> <td>180n xxx</td> <td>14XY-2-180n xxx</td> </tr> <tr> <td>11-30 (note 2)</td> <td>188XY...</td> <td>14XY-2-188XY...</td> </tr> <tr> <td>15</td> <td>190x xxx xxx</td> <td>14XY-2-190x xxx xxx</td> </tr> </table>		<u>Dialled Digits</u>	<u>POI Digits</u>	8	000	1411-2-000	14-15	0-PMTS	14XY-2-0-PMTS	11	13n xxx	14XY-2-13n xxx	11	134 nxx	14XY-2-134 nxx	13	1345 xxxx	14XY-2-1345 xxxx	15	130x xxx xxx	14XY-2-130x xxx xxx	15	1800 xxx xxx	14XY-2-1800 xxx xxx	15	1801 xxx xxx	14XY-2-1801 xxx xxx	12	180n xxx	14XY-2-180n xxx	11-30 (note 2)	188XY...	14XY-2-188XY...	15	190x xxx xxx	14XY-2-190x xxx xxx
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15	1800 xxx xxx	14XY-2-1800 xxx xxx																																				
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Service Digit/s	POI Digit Length (Min/Max)	Description / Examples																							
3		<p><i>Terminating Access</i></p> <p>Terminating access is required to a geographic number of a TASD. 14XY is that of TASD.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Dialled Digits</u></th> <th style="text-align: left;"><u>POI Digits</u></th> </tr> </thead> <tbody> <tr> <td>LN</td> <td>14XY-3-0-NSN</td> </tr> <tr> <td>0-NSN</td> <td>14XY-3-0-NSN</td> </tr> </tbody> </table>	<u>Dialled Digits</u>	<u>POI Digits</u>	LN	14XY-3-0-NSN	0-NSN	14XY-3-0-NSN																	
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<b>4'S'</b>		<p><i>Access to the Recipient Network for termination of a Ported Number</i></p>																							
42		<p><i>Ported Carrier Specific Number</i></p> <p>Access required to recipient network for a ported Carrier Specific Number. 14XY is that of the recipient network.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Dialled Digits</u></th> <th style="text-align: left;"><u>POI Digits</u></th> </tr> </thead> <tbody> <tr> <td>12</td> <td>13n xxx</td> <td>14XY-42-13n xxx</td> </tr> <tr> <td>12</td> <td>134 nxx</td> <td>14XY-42-134 nxx</td> </tr> <tr> <td>14</td> <td>1345 xxxxx</td> <td>14XY-42-1345 xxxxx</td> </tr> <tr> <td>16</td> <td>130x xxx xxx</td> <td>14XY-42-130x xxx xxx</td> </tr> <tr> <td>16</td> <td>1800 xxx xxx</td> <td>14XY-42-1800 xxx xxx</td> </tr> <tr> <td>16</td> <td>1801 xxx xxx</td> <td>14XY-42-1801 xxx xxx</td> </tr> <tr> <td>13</td> <td>180n xxx</td> <td>14XY-42-180n xxx</td> </tr> </tbody> </table> <p>Reference: ACIF G511- 1800/13/1300 Number Portability</p>	<u>Dialled Digits</u>	<u>POI Digits</u>	12	13n xxx	14XY-42-13n xxx	12	134 nxx	14XY-42-134 nxx	14	1345 xxxxx	14XY-42-1345 xxxxx	16	130x xxx xxx	14XY-42-130x xxx xxx	16	1800 xxx xxx	14XY-42-1800 xxx xxx	16	1801 xxx xxx	14XY-42-1801 xxx xxx	13	180n xxx	14XY-42-180n xxx
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5		<p><i>Originating Access – Preselection</i></p> <p>PSTS customer dials a preselectable service, without the use of a Carrier Access Code. The preselection choice applies; requiring the OASD to pass the call to the customer’s preselected PSD.</p> <p>The OASD provides call hand-over to the PSD, using the PSD’s allocated 14XY code.</p> <table border="0" data-bbox="592 583 1166 919"> <thead> <tr> <th></th> <th><u>Dialled Digits</u></th> <th><u>POI Digits</u></th> </tr> </thead> <tbody> <tr> <td>9</td> <td>122(1-2, 4-9)</td> <td>14XY-5-122(1-2, 4-9)</td> </tr> <tr> <td>9</td> <td>123(0-5,7-9)</td> <td>14XY-5-123(0-5,7-9)</td> </tr> <tr> <td>10</td> <td>12711</td> <td>14XY-5-12711</td> </tr> <tr> <td>15</td> <td>LN</td> <td>14XY-5-0-NSN</td> </tr> <tr> <td>15</td> <td>0-NSN</td> <td>14XY-5-0-NSN</td> </tr> <tr> <td>15</td> <td>0-PMTS</td> <td>14XY-5-0-PMTS</td> </tr> <tr> <td>11-24</td> <td>0011-CC-NSN</td> <td>14XY-5-0011-CC-NSN</td> </tr> <tr> <td>11-24</td> <td>0012-CC-NSN</td> <td>14XY-5-0012-CC-NSN</td> </tr> </tbody> </table> <p>Reference ACIF C515- Pre-Selection – Single Basket / Multi Service Deliverer.</p>		<u>Dialled Digits</u>	<u>POI Digits</u>	9	122(1-2, 4-9)	14XY-5-122(1-2, 4-9)	9	123(0-5,7-9)	14XY-5-123(0-5,7-9)	10	12711	14XY-5-12711	15	LN	14XY-5-0-NSN	15	0-NSN	14XY-5-0-NSN	15	0-PMTS	14XY-5-0-PMTS	11-24	0011-CC-NSN	14XY-5-0011-CC-NSN	11-24	0012-CC-NSN	14XY-5-0012-CC-NSN
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# INDUSTRY SPECIFICATION

Service Digit/s	POI Digit Length (Min/Max)	Description / Examples																										
62 and 642		<p><i>Mobile Location Indicator</i></p> <p>Under bilateral agreements, Mobile Location Indicator (MoLI) may be forwarded on calls made from a mobile network. 14XY is that of the recipient.</p> <p>Mobile Location Indicator is inserted into the Called Party Number address digits in the form of the additional “ABC” digits. These digits may be used to implement geographic dependant-routing features.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; border: none;"><u>Dialled Digits</u></th> <th style="text-align: left; border: none;"><u>POI Digits</u></th> </tr> </thead> <tbody> <tr> <td style="border: none;">12</td> <td style="border: none;">000</td> <td style="border: none;">1411-62-000-ABC</td> </tr> <tr> <td style="border: none;">15</td> <td style="border: none;">13n xxx</td> <td style="border: none;">14XY-62-13n ABC xxx</td> </tr> <tr> <td style="border: none;">15</td> <td style="border: none;">134 nxx</td> <td style="border: none;">14XY-62-134 ABC nxx</td> </tr> <tr> <td style="border: none;">17</td> <td style="border: none;">1345xxxx</td> <td style="border: none;">14XY-62-134 5xx ABC xx</td> </tr> <tr> <td style="border: none;">19</td> <td style="border: none;">130x xxx xxx</td> <td style="border: none;">14XY-62-130 xxx ABC xxxx</td> </tr> <tr> <td style="border: none;">19</td> <td style="border: none;">1800 xxx xxx</td> <td style="border: none;">14XY-62-1800 xx ABC xxxx</td> </tr> <tr> <td style="border: none;">19</td> <td style="border: none;">1801 xxx xxx</td> <td style="border: none;">14XY-62-1801 xx ABC xxxx</td> </tr> <tr> <td style="border: none;">16</td> <td style="border: none;">180n xxx</td> <td style="border: none;">14XY-62 180n xx ABC x</td> </tr> </tbody> </table> <p>Note: Service Digits expand from “62” in non-ported case, to “642” to access the PSD under 13/1300/1800 number portability.</p> <p>Reference ACIF G532- Mobile Location Indicator 1800/13/1300.</p>	<u>Dialled Digits</u>	<u>POI Digits</u>	12	000	1411-62-000-ABC	15	13n xxx	14XY-62-13n ABC xxx	15	134 nxx	14XY-62-134 ABC nxx	17	1345xxxx	14XY-62-134 5xx ABC xx	19	130x xxx xxx	14XY-62-130 xxx ABC xxxx	19	1800 xxx xxx	14XY-62-1800 xx ABC xxxx	19	1801 xxx xxx	14XY-62-1801 xx ABC xxxx	16	180n xxx	14XY-62 180n xx ABC x
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19	130x xxx xxx	14XY-62-130 xxx ABC xxxx																										
19	1800 xxx xxx	14XY-62-1800 xx ABC xxxx																										
19	1801 xxx xxx	14XY-62-1801 xx ABC xxxx																										
16	180n xxx	14XY-62 180n xx ABC x																										
7“S”		<p><i>Inter-Carrier Wholesale Services</i></p> <p>The recipient carrier provides a wholesale service to national or international destinations.</p> <p>Use of service digit “7” indicates that call traffic is of a wholesale nature. Billing is at an aggregate level only, as opposed to billing on a per-CLI basis as may occur with service digits “0” and “5”, and CLI-screening conditions may differ.</p> <p>14XY is that of the recipient carrier. Typical call cases are listed below.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; border: none;"><u>POI Address Digits</u></th> <th style="text-align: left; border: none;"></th> </tr> </thead> <tbody> <tr> <td style="border: none;">16</td> <td style="border: none;">14XY-73-0-NSN</td> </tr> <tr> <td style="border: none;">15-16</td> <td style="border: none;">14XY-72-0-PMTS</td> </tr> <tr> <td style="border: none;">16</td> <td style="border: none;">14XY-72-1300 xxx xxx (Note 3)</td> </tr> <tr> <td style="border: none;">9</td> <td style="border: none;">14XY-7-122x</td> </tr> <tr> <td style="border: none;">11-24</td> <td style="border: none;">14XY-7-0011-CC-NSN</td> </tr> </tbody> </table>	<u>POI Address Digits</u>		16	14XY-73-0-NSN	15-16	14XY-72-0-PMTS	16	14XY-72-1300 xxx xxx (Note 3)	9	14XY-7-122x	11-24	14XY-7-0011-CC-NSN														
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Service Digit/s	POI Digit Length (Min/Max)	Description / Examples																				
8	m-m	Spare																				
9 "S"		<p><b>Transit Carriage</b></p> <p>(i) When used as a transit carriage service the 14XY code sent to the transit carrier is that of the terminating carrier as pre-determined by the originating carrier. In the transit case the TASD will not be sent the service digit of "9" by the Transit Carrier.</p> <p>Typical cases are listed below.</p> <table border="0"> <thead> <tr> <th data-bbox="597 625 831 657"><u>POI Address Digits.</u></th> <th data-bbox="977 625 1097 657"><u>Call Case.</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="457 695 529 758">15 11-24</td> <td data-bbox="597 695 1230 758">14XY + 9+0 + NSN 14 XY + 9+0011 +CC + NSN</td> <td data-bbox="977 695 1230 758">Transit Override Call Transit Override Call</td> </tr> <tr> <td data-bbox="457 795 529 858">16 12-25</td> <td data-bbox="597 795 954 858">14XY + 95 + 0 +NSN 14XY + 95+0011 +CC + NSN</td> <td data-bbox="977 795 1263 858">Transit Preselected Call. Transit Preselected Call</td> </tr> <tr> <td></td> <td data-bbox="597 896 808 928">14XY + 92 +CSN</td> <td data-bbox="977 896 1211 928">Transit Call to CSN</td> </tr> <tr> <td data-bbox="474 963 513 995">16</td> <td data-bbox="597 963 834 995">14XY + 93+0+NSN</td> <td data-bbox="977 963 1360 995">Transit Terminating Access Call</td> </tr> <tr> <td></td> <td data-bbox="597 1031 831 1062">14XY + 942 + CSN</td> <td data-bbox="977 1031 1256 1062">Transit call ported CSN</td> </tr> <tr> <td data-bbox="474 1098 513 1129">17</td> <td data-bbox="597 1098 863 1129">14XY + 943 + 0+NSN</td> <td data-bbox="977 1098 1344 1161">Transit Call ported terminating access</td> </tr> </tbody> </table> <p>Also see 5.2.4 for diagrammatic examples of this transit carriage arrangement.</p> <p><u>Note :</u> As an alternative bilateral arrangement, some transit carriers may not use service digit "9" to indicate a transit carriage request, but may simply require an originating carrier to forward a call with the 14XY code of the terminating carrier (to indicate a transit service request), as well as the corresponding service digit applicable to the call case.</p>	<u>POI Address Digits.</u>	<u>Call Case.</u>	15 11-24	14XY + 9+0 + NSN 14 XY + 9+0011 +CC + NSN	Transit Override Call Transit Override Call	16 12-25	14XY + 95 + 0 +NSN 14XY + 95+0011 +CC + NSN	Transit Preselected Call. Transit Preselected Call		14XY + 92 +CSN	Transit Call to CSN	16	14XY + 93+0+NSN	Transit Terminating Access Call		14XY + 942 + CSN	Transit call ported CSN	17	14XY + 943 + 0+NSN	Transit Call ported terminating access
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16	14XY + 93+0+NSN	Transit Terminating Access Call																				
	14XY + 942 + CSN	Transit call ported CSN																				
17	14XY + 943 + 0+NSN	Transit Call ported terminating access																				

Service Digit/s	POI Digit Length (Min/Max)	Description / Examples
9 "S" continued		<p><b>(ii)</b> Service digit "9" may also be used under bilateral arrangements by a Carrier for overflow or temporary routing, to overcome a POI outage or similar event.</p> <p>Overflow or temporary routing of traffic can be provided by : (a) an OASD/PSD as a service to a TASD, or (b) a TASD as a service to an OASD/PSD.</p> <p>In cases (a) and (b), the 14XY code sent to the TASD is that of the TASD (as pre-determined by the OASD/PSD).</p> <p>Some typical call cases for this overflow or temporary routing arrangement are as described for the Transit Carriage service above ie. Case (i).</p> <p>Also see 5.2.5 for descriptive examples of this overflow or temporary routing arrangement.</p>

**Table 5.1**  
**Assignment of "S" Service Digits**

Table 5.1 Note 1 A distinct Service Digit does not exist; the Service Digit is implied from the subsequent digit associated with these call cases.

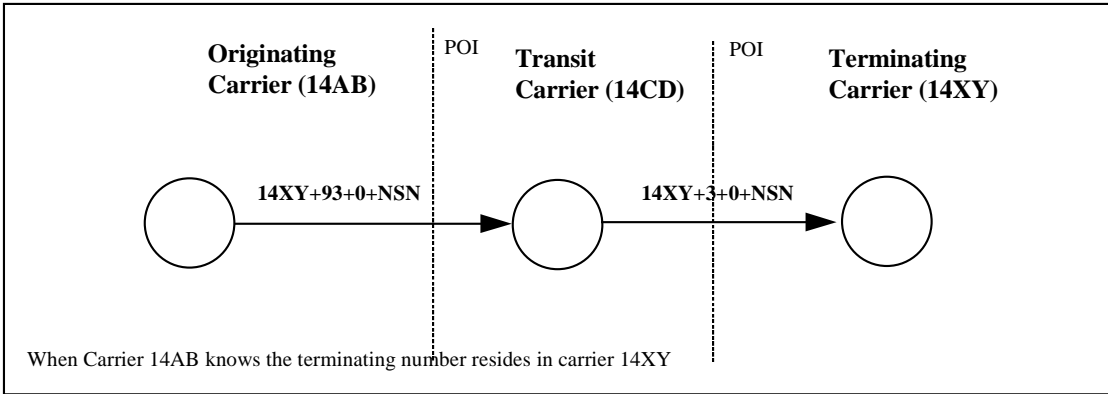
Note 2 All access networks may not support 30 digits.

Note 3 This call case may be redundant after 1800/1300 number portability.

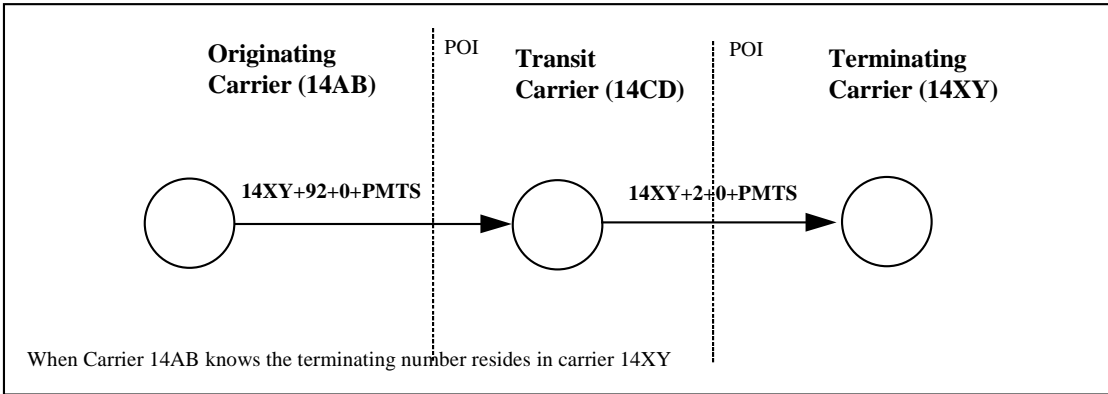
5.2.4 :

When a call is sent across the POI with 14XY+9 a defined indication is given to the receiving carrier that the originating carrier is requesting a transit service.

The following diagrams are examples of a transit carriage service :



**Figure 5-1**  
**Transit Terminating Access Call**



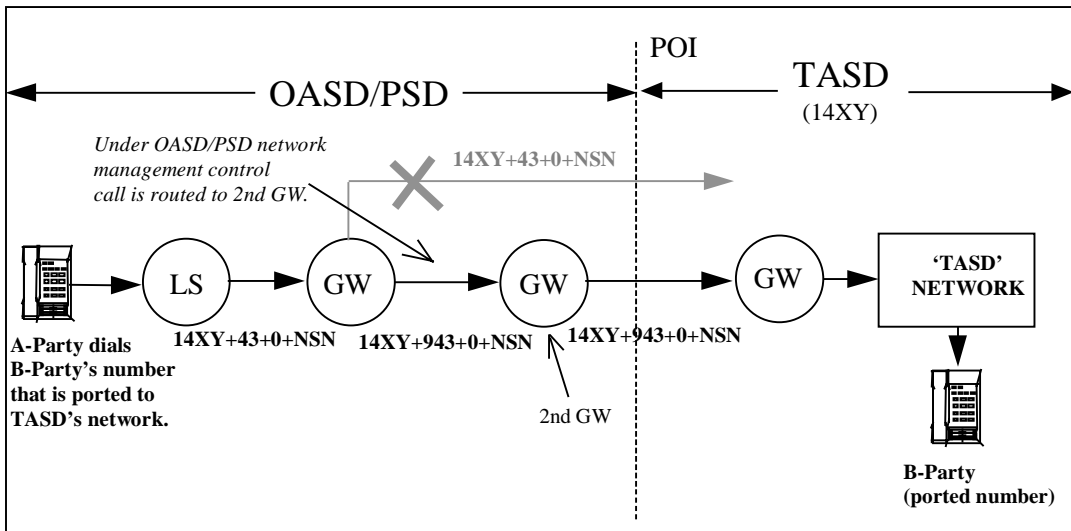
**Figure 5-2**  
**Transit Call To CSN**

5.2.5 :

‘Overflow or Temporary Routing’ can be applied under network management conditions when access to or from a particular Carrier/CSP is disrupted due to a significant fault that could not have been reasonably anticipated.

**Case (a) - OASD/PSD provides an ‘Overflow or Temporary Routing’ Service to a TASD :**

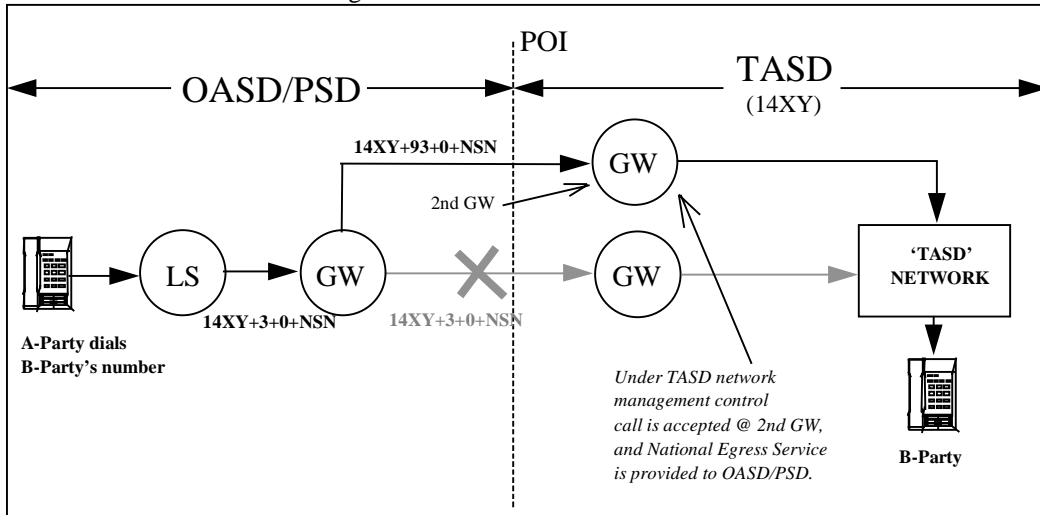
This case arises where an OASD/PSD originated call to be sent to a TASD has reached the appropriate OASD/PSD Interconnect Gateway Exchange, but due to network management control intervention, all interconnect calls to that TASD must be transited to a specific second OASD/PSD Interconnect Gateway Exchange.



**Figure 5-3**  
Example Of Case (a) Scenario

**Case (b) - TASD provides an 'Overflow or Temporary Routing' Service to an OASD/PSD :**

This case arises where under TASD network management control, a second TASD Interconnect Gateway Exchange will allow all traffic received from an OASD/PSD, with the relevant interconnect prefix, to be provided with a National egress service.



**Figure 5-4**  
Example Of Case (b) Scenario



## 6. Calling Party Number – Special Call Origin Assignments

For special call types, it is necessary that the Calling Party Number parameter be set according to an Industry standard. In such cases either a ‘real’ Calling Party Number does not exist (ie. one which could uniquely identify the calling origin), or the original Calling Party Number is not available. In these instances, originating networks shall apply a ‘dummy’ Calling Party Number to enable identification of these special call types.

These special call types include (but are not limited to) :

- (a) National Operator Originated Calls
- (b) National Operator A-Party Charged Calls
- (c) National Operator Reverse Charge Calls
- (d) International Customer or Payphone Calls
- (e) International Operator Calls

Note : In the future, if additional special call types are identified for which a ‘dummy’ Calling Party Number is required, then this plan will need to be reissued.

I-ISUP specifies the Calling Party Number parameter address to be in National Significant Number format. This format has a number length of 9 digits.

For the purpose of this section all the following Calling Party Numbers are shown in NSN format as required by the Interconnect-ISUP G500 Version 2.0 specification.

For the above mentioned special call types, domestic SSP networks shall set the Calling Party Number parameter in accordance with the principles outlined in 6.1 - 6.5.

### 6.1 National Operator Originated Calls

National Operator Originated Calls will have the following Calling Party Number Parameter applied to the call :

Code point	Value
Odd/even indicator	odd
Nature of address indicator	national significant number
Calling party number incomplete indicator	complete
Numbering plan indicator	ISDN numbering plan
Address presentation restricted indicator	presentation restricted
Screening indicator	network provided
Address Signal	015XYSZZZ (Note 4)
Filler	included

**Table 6.1**  
**Calling Party Number Parameter**

Note 4 :

**XY** is a two digit Carrier/CSP identifier of the operator service carrier, and XY aligns with the last two digits of the Carrier Access Code (CAC), 14XY.

**S** is a single digit geographic based identifier which describes the State/Territory in which the Operator exchange resides. That is, S=2 for NSW, S=3 for Vic/Tas, S=6 for ACT, S=7 for Qld, S=8 for SA/NT and S=9 for WA.

**ZZZ** are three digits assigned by the Carrier/CSP with the Operator exchange. Default setting is '000'.

## 6.2 National Operator A-Party Charged Calls

National Operator A-Party Charged Calls can have either of the two options listed below for the Calling Party Number Parameter applied to the call :

### **Option 1 :**

This option allows the originating Calling Party Number Parameter to be transferred unmodified through the Operator exchange from which the call is connected :

**Calling Party Number Parameter = received Calling Party Number Parameter**

### **Option 2 :**

This option allows a Carrier/CSP which is unable to, or may not wish to implement Option 1, to use the same Calling Party Number Parameter for the Operator Originated Call case for it's Operator A-Party Charge calls.

Code point	Value
Odd/even indicator	odd
Nature of address indicator	national significant number
Calling party number incomplete indicator	complete
Numbering plan indicator	ISDN numbering plan
Address presentation restricted indicator	presentation restricted
Screening indicator	network provided
Address Signal	015XYSZZZ (Note 5)
Filler	included

**Table 6.2**  
**Calling Party Number Parameter**

Note 5 :

**XY** is a two digit Carrier/CSP identifier of the operator service carrier, and XY aligns with the last two digits of the Carrier Access Code (CAC), 14XY.

**S** is a single digit geographic based identifier which describes the State/Territory in which the Operator exchange resides. That is, S=2 for NSW, S=3 for Vic/Tas, S=6 for ACT, S=7 for Qld, S=8 for SA/NT and S=9 for WA.

**ZZZ** are three digits assigned by the Carrier/CSP with the Operator exchange. Default setting is '000'.

### 6.3 National Operator Reverse Charge Calls

National Operator Reverse Charge Calls will have the following Calling Party Number Parameter applied to the call :

Code point	Value
Odd/even indicator	odd
Nature of address indicator	national significant number
Calling party number incomplete indicator	complete
Numbering plan indicator	ISDN numbering plan
Address presentation restricted indicator	presentation restricted
Screening indicator	network provided
Address Signal	014XYSZZZ (Note 6)
Filler	included

**Table 6.3**  
Calling Party Number Parameter

Note 6 :

**XY** is a two digit Carrier/CSP identifier of the operator service carrier, and XY aligns with the last two digits of the Carrier Access Code (CAC), 14XY.

**S** is a single digit geographic based identifier which describes the State/Territory in which the Operator exchange resides. That is, S=2 for NSW, S=3 for Vic/Tas, S=6 for ACT, S=7 for Qld, S=8 for SA/NT and S=9 for WA.

**ZZZ** are three digits assigned by the Carrier/CSP with the Operator exchange. Default setting is '000'.

### 6.4 International Customer or Payphone Calls

International Customer or Payphone Calls will have the following Calling Party Number Parameter applied to the call:

Code point	Value
Odd/even indicator	odd
Nature of address indicator	national significant number
Calling party number incomplete indicator	complete
Numbering plan indicator	ISDN numbering plan
Address presentation restricted indicator	presentation restricted
Screening indicator	network provided
Address Signal	011XYSZZZ (Note 7)
Filler	included

**Table 6.4**  
Calling Party Number Parameter

Note 7 :

**XY** is a two digit Carrier/CSP identifier of the domestic Carrier/CSP which received the overseas originated call, and XY aligns with the last two digits of the Carrier Access Code (CAC), 14XY.

**S** is a single digit value nominated by the Carrier/CSP to indicate the exchange in which the dummy Calling Party Number Parameter was inserted. Or alternatively, is a single digit geographic based identifier which describes the State/Territory location of the exchange which inserted the dummy Calling Party Number Parameter. That is, S=2 for NSW, S=3 for Vic/Tas, S=6 for ACT, S=7 for Qld, S=8 for SA/NT and S=9 for WA.

**ZZZ** are three digits assigned by the Carrier/CSP with the International Gateway exchange. Default setting is '000'.

## 6.5 International Operator Calls

International Operator Calls will have the following Calling Party Number Parameter applied to the call:

Code point	Value
Odd/even indicator	odd
Nature of address indicator	national significant number
Calling party number incomplete indicator	complete
Numbering plan indicator	ISDN numbering plan
Address presentation restricted indicator	presentation restricted
Screening indicator	network provided
Address Signal	010XYSZZZ (Note 8)
Filler	included

**Table 6.5**  
**Calling Party Number Parameter**

Note 8 :

**XY** is a two digit Carrier/CSP identifier of the domestic Carrier/CSP which received the overseas originated call, and XY aligns with the last two digits of the Carrier Access Code (CAC), 14XY.

**S** is a single digit value nominated by the Carrier/CSP to indicate the exchange in which the dummy Calling Party Number Parameter was inserted. Or alternatively, a 'default' single digit nominated by the Carrier/CSP can be applied to these calls.

**ZZZ** are three digits assigned by the Carrier/CSP with the International Gateway exchange. Default setting is '000'.

## 7. Usage of Calling Party Categories

The Calling Party Category provides additional information to that provided in the Calling Party Number. In principle, a calling origin will be identifiable by the Calling Party Number and Calling Party Category of the call.

The use of the following CPC values is permitted across the POI:

CPC Value	Description
10	International Customer or Payphone
239	Inhibit Call Diversion
241	International Operator
242	National Operator
243	Ordinary Customer
244	Dummy Calling Party Number
247	Mobile
251	Test Call
253	Payphone

Note : In the case where the CPC cannot be set as indicated below, then a default value of 10 shall be used. In addition, in the case where a dummy Calling Party Number is used and the CPC cannot be set either to the value as indicated below or 10, then the CPC value of 244 shall be used.

Requirements to use each CPC are described below :

### CPC 10 International Customer or Payphone

This CPC indicates that the calling party is from an international location, either from an international ordinary customer or an international payphone.

This CPC may be used for barring of services and code destinations.

Note : If the originating network is not technically capable of generating a CPC value of 10, then a CPC value of 244 may be used instead until such time the originating network is capable of generating a CPC value of 10.

Note : If full CLI is not available then a national network generated Calling Party Number should be used - see section 6.4.

### CPC 239 Inhibit Call Diversion

This CPC indicates that the call must not be forwarded outside the receiving Carrier's network (ie., by one of the call forward features). Call forwarding is to be inhibited regardless of the setting of the re-direction counter. This is used to prevent circular call forwarding, or to support certain national network functions such as ring back price.

### CPC 241 International Operator

This CPC indicates that the call is from a foreign Operator.

This CPC may be used for barring of services and code destinations.

Note : If the originating network is not technically capable of generating a CPC value of 241, then a CPC value of 244 may be used instead until such time the originating network is capable of generating a CPC value of 241.

Note : If full CLI is not available then a national network generated Calling Party Number should be used - see section 6.5.

**CPC 242 National Operator**

This CPC indicates that the call is from a national Operator. This CPC may be used for barring of services and code destinations.

Note : If the originating network is not technically capable of generating a CPC value of 242, then a CPC value of 244 may be used instead until such time the originating network is capable of generating a CPC value of 242.

Note : If full CLI is not available then a national network generated Calling Party Number should be used - see sections 6.1 - 6.3.

**CPC 243 Ordinary Customer**

This CPC indicates that the calling party is an ordinary customer located in part of the national network which is capable of delivering full CLI.

**CPC 244 Dummy Calling Party Number**

This CPC indicates that a Dummy Calling Party Number is used by a carrier in the case where a call is from a particular origin and the originating network is not technically capable of generating the CPC value as indicated in the table above. This CPC value may continue to be used until the carrier's network is technically capable of identifying a particular origin with an appropriate CPC value.

**CPC 247 Mobile Customer**

This CPC indicates that the calling party is a mobile customer.

Note : Full CLI must be provided.

**CPC 251 Transmission Test Position**

This CPC may be used in an analogue network to direct a call to a testing position to perform testing of transmission capabilities. In a national digital network, this CPC may be used for other testing purposes.

This CPC may be barred access to specific network destinations or network services.

Note : Full CLI may not be available.

**CPC 253 Payphone, Public, CLI**

This CPC indicates that the calling party is a public payphone located in part of the national network that is capable of delivering full CLI. Meter pulses are required from the national network.

This CPC may be barred access to specific network destinations or network services.

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The primary role of ACIF is to develop and administer Technical Standards, Industry Codes and industry support services that promote both the long-term interest of end-users and the efficiency and international competitiveness of the Australian communications industry.

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