



AUSTRALIAN COMMUNICATIONS INDUSTRY FORUM
INDUSTRY SPECIFICATION

**Interconnection Signalling Specification
for Circuit Switched Networks**

ACIF G500:2002
INTRODUCTION

Note: ACIF G500:2002, ACIF G500:2000 and ACIF G500:1998 are separate versions of signalling specifications for the interconnection of circuit switched networks in Australia. At the time of publication, inter-network interfaces based on either ACIF G500:1998 or ACIF G500:2000 are in operation and might continue to be used indefinitely.

Industry Specification –*Interconnection Signalling Specification for Circuit Switched Networks*

This Specification was issued in draft form for comment as DR ACIF G500:2002.

First published as ACIF G500:1998

Updated to produce ACIF G500:2000

ISBN: 1 74000 201 6

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Foreword

Following representation to ACIF from the industry, the ACIF Network Reference Panel (NRP) established Working Committee 12 (NRP/WC12) in October 2000 with the following terms of reference:

- (i) Drawing on the features and services supported by the latest international recommendations, determine a baseline suite of services and features that carriers may wish to support at the Point of Interconnection between networks.
- (ii) These terms of reference are limited to Time Division Multiplexing technology for interconnect
- (iii) Investigate and develop a replacement for the current version of the Australian Interconnect C7 signalling specifications (G500:2000 and G549:2000) for interconnect switched circuit networks.
- (iv) Develop a method for implementation of SCCP and TCAP (based on ITU-T recommendations) between national carriers if the services identified under (i) require it.
- (v) Develop implementation plans (including timeframes).

G500:2002 delivers on points (i) to (iv) above. G549:2002 delivers on point (v) above.

The first task for NRP/WC12 was to determine an agreed list of services and features to be supported across the Point Of Interconnection, and a baseline for international standards. This was achieved by conducting a survey which was responded to by all members. In this way, service selection was driven by perceived potential for future business opportunities and end user benefit. Appendix B of this introduction provides a summary of these findings. The international standards selected for the baseline were ITU-T ISUP2000, the latest ETSI ISUP V4 documentation, and the latest versions of SCCP and TCAP.

ACIF G500:2002 is more aligned with international standards than previous versions of ACIF G500. The Telecommunications market in Australia represents only about 2% of the global market. Better alignment with international standards and generic implementations has potential for reduced costs compared Australian specific standards and implementations.

ITU-T has stated that ISUP will not be up issued after ISUP 2000, due mainly because of a trend toward packet switched networks. Therefore G500:2002 is likely to be the last major revision of ACIF G500 for the interconnection signalling of circuit switched networks.

ACIF G500:2002 has become a body of work consisting of 60 parts, and ACIF G549:2002 is completely revised compared to ACIF G549:2000. Achieving these deliverables within the time frame is a remarkable achievement for NRP/WC12 members.

Alan Arthurell
Chairman
NRP/WC12 –*Signalling (Circuit Switched)* Working Committee

TABLE OF CONTENTS

1. SCOPE..... 1

2. ITU COPYRIGHT AND AUTHORIZATION.....2

3. PARTICIPANTS.....3

APPENDIX A 4

APPENDIX B..... 7

1. SCOPE

This specification defines the 2002 version of the ACIF Interconnection Signalling Specification for Circuit Switched Networks.

Note 1: In order to permit a ready comparison between ACIF's definition and the ITU-T definition, this document is based on the relevant ITU-T Recommendations, and marked-up to reflect the ETSI and ACIF definition as follows:

~~STRIKE THROUGH~~ shows text deleted from the original ITU Recommendation.

UNDERLINE shows text added to the original ITU Recommendation.

Note 2: Refer to Appendix A of this Introduction for a table that provides a list of part numbers for this specification. Also included in this table is a list of the ITU-T and ETSI baseline documents used for this specification.

Note 3: Refer to Appendix B of this Introduction for a summary of the functionality and services which are supported by ACIF G500:2002.

Note 4: The approach taken throughout ACIF G500:2002 is to use the following descriptions of informative and normative (originally supplied by ETSI):

Informative : is a deliverable for information, it would never be required for implementation in a standard way.

Normative : is the basis of the standard that can be imposed and implemented as a requirement by regulators, manufacturer, customer etc.

Implementation of an ACIF specification is voluntary and the details of such an implementation are dependent on the terms and conditions in bilateral agreements negotiated between the organisations using the specification.

Implementation of an ACIF specification cannot be mandated by ACIF. Government regulators might be able to mandate implementation of a specification but only under specific conditions.

Implementation of ACIF G500:2002 or any of the associated services, procedures or formats is dependent on the terms and conditions in bilateral agreements negotiated between the organisations using the specification. For example, a bilateral agreement may support a subset of the services, procedures or formats specified in ACIF G500:2002. Bilateral agreements usually take precedence over this document.

The process for deciding what is covered by a bilateral agreement is outside the scope of this document.

Note 5: ACIF G500:2002, ACIF G500:2000 and ACIF G500:1998 are separate versions of signalling specifications for the interconnection of circuit switched networks in Australia. At the time of publication, inter-network interfaces based on either ACIF G500:1998 or ACIF G500:2000 are in operation and might continue to be used indefinitely.

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3. PARTICIPANTS

The group that developed this Industry Specification consisted of the following organisations and their representatives:

Representative	Organisation	Membership
Alan Arthurell (Chairman)	Alcatel Australia	Voting
Terry Gillespie (Secretary)	Optus	Voting
Wayne Thomas	AAPT	Voting
Kim Yan	Cisco Systems	Voting
Barry Dingle	Ericsson	Voting
Craig Hennessy	Equant	Voting
Ian Binnie	Hutchison Telecoms	Voting
Jack Fong	Nortel Networks	Voting
Stephen Daines	Powertel	Voting
Trinh Lam	Primus Telecoms	Voting
David Hawe	Telstra	Voting
Davorka Karacic	Vodafone	Voting
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Kamal Wanigatunga	Optus	Non-Voting
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James Duck of ACIF supplied project management support.

APPENDIX A

Table A-1 summarises the part numbers of the ACIF G500:2002 Interconnection Signalling Specification. The table also provides a cross reference to the ITU-T and ETSI base documents used for each part.

TABLE A-1
Summary of ACIF G500:2002 Part numbers and associated base documents.

Category	Service	G500 : 2002 Part Number	ITU-T Base ¹ Document	ETSI Base Document ²
Introduction		Introduction	Not Applicable	Not Applicable
ISUP		Part A.1	Q.761 (12/99)	EN 300 356-1 V4.2.1 (05/2001)
		Part A.2	Q.762 (12/99)	EN 300 356-1 V4.2.1 (05/2001)
		Part A.3	Q.763 (12/99)	EN 300 356-1 V4.2.1 (05/2001)
		Part A.4	Q.764 (12/99)	EN 300 356-1 V4.2.1 (05/2001)
		Part A.5	Q.850 (05/98) Q.850 Addendum 1 (06/2000)	EN 300 485 V1.3.1 (2000-09)
		Part A.6	Q.765 (/2000)	EN 301 069-1 V1.3.1 (02/2001)
		Part A.7	Q.765.1(05/98)	EN 301 062-1 V1.2.3 (1999-10)
TCAP		Part B.1	Q.771 (06/97)	ETS 300 287-1: November 1996
		Part B.2	Q.772 (06/97)	ETS 300 287-1: November 1996
		Part B.3	Q.773 (06/97)	ETS 300 287-1: November 1996
		Part B.4	Q.774 (06/97)	ETS 300 287-1: November 1996
		Part B.5	Q.775 (06/97)	ETS 300 287-1: November 1996
SCCP		Part C.1	Q.711 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
		Part C.2	Q.712 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
		Part C.3	Q.713 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
		Part C.4	Q.714 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
		Part C.5	Q.715 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
		Part C.6	Q.716 (07/96)	EN 300 009-1 V1.4.3 (2001-02)
MTP		Part D.1	Q.701 (03/93)	EN 300 008-1 V1.3.1 (2000-09)
		Part D.2	Q.702 (11/88)	EN 300 008-1 V1.3.1 (2000-09)
		Part D.3	Q.703 (09/96) ⁴	EN 300 008-1 V1.3.1 (2000-09)
		Part D.4	Q.704 (07/96) ⁴	EN 300 008-1 V1.3.1 (2000-09)
		Part D.5	Q.705 (03/93) ⁴	EN 300 008-1 V1.3.1 (2000-09)
		Part D.6	Q.706 (03/93) ⁴	EN 300 008-1 V1.3.1 (2000-09)
		Part D.7	Q.707 (11/88)	EN 300 008-1 V1.3.1 (2000-09)
Call Diversion Services	CFU Stage 1	Part E.1	I.252.4 (08/92)	ETS 300 200 (12/1994) ³
	CFB Stage 1	Part E.2	I.252.2 (08/92)	EN 300 199 V1.2.1 (2001-06) ³
	CFNR Stage 1	Part E.3	I.252.3 (08/92)	EN 300 201 V1.2.1 (2001-05) ³
	CD Stage 1	Part E.4	I.252.5 (08/92)	ETS 300 202: December 1994 + Amendment 1: September 1996 ³
	Call Div. Stage 3	Part E.5	Q.732.2-5 (12/99)	EN 300 356 -15 V4.2.1 (2001-05)

Category	Service	G500 : 2002 Part Number	ITU-T Base ¹ Document	ETSI Base Document ²
Presentati on Services	CLIP Stage 1	Part F.1	I.251.3 (08/92)	EN 300 089 V3.1.1 (2000-12) ³
	CLIR Stage 1	Part F.2	I.251.4 (08/92)	EN 300 090 V1.2.1 (2000-12) ³
	COLP Stage 1	Part F.3	I.251.5 (02/95)	EN 300 094 V2.1.1 (2000-06) ³
	COLR Stage 1	Part F.4	I.251.6 (02/95)	ETS 300 095 (01/92) ³
	CLIP Stage 3 CLIR Stage 3 COLP Stage 3 COLR Stage 3	Part F.5	Q.731.3,4,5,6 (03/93)	EN 300 356-3 V4.2.1 (2001-05) EN 300 356-4 V4.2.1 (2001-05) EN 300 356-5 V4.1.2 (2001-05) EN 300 356-6 V4.1.2 (2001-05)
Miscellane ous Services	Call Hold Stage 1	Part G.1	I.253.2 (08/92)	ETS 300 139 (03/92) ³
	Call Hold Stage 3	Part G.2	Q.733.2 (03/93)	EN 300 356-16 V4.1.2 (2001-05)
	CW Stage 1	Part G.3	I.253.1 (07/90)	ETS 300 056 (10/91) ³ ETS 300 056 A1 (09/96) ³
	CW Stage 3	Part G.4	Q.733.1 (02/92)	EN 300 356-17 V4.1.2 (2001-05)
	ECT Stage 1	Part G.5	I.252.7 (05/97)	EN 300 367 V1.2.1 (1998-10) ³
	ECT Stage 3	Part G.6	Q.732.7 (07/96)	EN 300 356-14 V4.2.1 (2001-05)
	3PTY Stage 1	Part G.7	I.254.2 (08/92)	ETS 300 186 (07/93) ³
	3PTY Stage 3	Part G.8	Q.734.2 (07/96)	EN 300 356-19 V4.2.1 (2001-05)
	TP Stage 1	Part G.9	I.258.1 (10/95)	ETS 300 053 (10/91) ³
	TP Stage 3	Part G.10	Q.733.4 (03/93)	EN 300 356-7 V4.1.2 (2001-05)
	CONF Stage 1	Part G.11	I.254.1 (11/88)	ETS 300 183 (10/92) ³ ETS 300 183 A1 (02/98) ³
	CONF Stage 3	Part G.12	Q.734.1 (03/93)	EN 300 356-12 V4.2.1 (2001-05)
	Sub Address Stage 1	Part G.13	I.251.8 (08/92)	ETS 300 059 (10/91) ³
	Sub Address Stage 3	Part G.14	Q.731.8 (1992)	EN 300 356-10 V4.1.2 (2001-05)
	GVNS Stage 1	Part G.15	F.16 (02/95)	Not Available
	GVNS Stage 3	Part G.16	Q.735.6 (07/96)	Not Available
User to User Stage 1	Part G. 17	I. 257.1 (10/95)	ETS 300 059 (10/91)	
User to User Stage 3	Part G. 18	Q.737.1 (06/97)	EN 300 356-8 V4.2.1 (2001-05)	
	ISDN user part supplementary services	Part G.19	Q.730 (12/99)	EN 300 356-2 V4.1.2 (2001-05)

SPECIFICATION

Category	Service	G500 : 2002 Part Number	ITU-T Base ¹ Document	ETSI Base Document ²
TCAP/ SCCP Services	CCBS Stage 1	Part H.1	I.253.3 (07/96)	EN 300 357 V1.2.1 (05/2001) ³
	CCBS Stage 3	Part H.2	Q.733.3 (06/97)	EN 300 356-18 v 040101 (9/2000)
	CCNR Stage 1	Part H.3	I.253.4 (07/96)	EN 301 134 V1.1.1 (1998-10) ³
	CCNR Stage 3	Part H.4	Q.733.5 (12/99)	EN 300 356-20 v 040101c
	MWI Stage 1	Part H.5	Not Available	ETS 300 650 (June 1998) ³
	MWI Stage 3	Part H.6	Not Available	ETS 300 754-1: July 1997

Note 1: The full ITU-T text has been included as the basis for the G500:2002.

Note 2: Any ETSI additions or exclusions with respect to the ITU-T text have been used to mark up the ITU-T text using underlines or strikeout fonts. (There may be other non-ETSI changes as agreed by ACIF NRP/WC12.)

Note 3: The Stage 1 documents provide service description information from an end user perspective. These do not constitute requirements at the point of interconnection. The ITU-T specification has been included as part of G500 and marked "informative" only. No Stage 1 ETSI text has been transferred (by mark up) to the ITU-T documents for G500:2002.

Note 4: The current ITU-T Q. Series Implementation Guidelines as well as the ETSI document have been applied to the ITU-T base document.

APPENDIX B

Table B1 summarises the list of ITU-T ISUP 2000 services which were selected by NRP/WC12 and are supported by ACIF G500:2002.

1) For column headed "**Supported in G500:2000**" the symbols used have the following meaning;

- ✓ existing in Interconnect ISUP, G500:2000.
- ✓** existing in Interconnect ISUP, G500:2000 in a modified form, compared to G500:2002.

2) Column headed "**Supported in G500:2002**" represents the outcomes from NRP/WC12, meeting number 2.

The symbols used for this column have the following meaning;

- ✓ It was agreed that there are business drivers for this feature and are included in ACIF G500:2002.
- X Don't care. It was agreed that there are no specific business drivers for this feature and it is not included in ACIF G500:2002.

SPECIFICATION

TABLE B-1

Summary of Services and features selected for G500:2002.

ISUP 2000 Function/service	Supported in G500:2000	Supported in G500:2002
Basic call (Q.764)		
Speech/3.1 kHz audio	✓	✓
64 kbit/s unrestricted	✓	✓
En bloc address signalling	✓	✓
Overlap address signalling	✓	✓
Tones and announcements - 2.2.4	✓	✓
Suspend and resume - 2.4	✓	✓
Simplified echo control signalling procedures - 2.7.3	✓	✓
Blocking and unblocking of circuits and circuit groups - 2.8.2	✓	✓
Dual seizure - 2.8.4	✓	✓
Transmission alarm handling for digital inter-exchange circuits - 2.9.2	✓	✓
Reset of circuits and circuit groups - 2.9.3	✓	✓
Receipt of unreasonable signalling information - 2.9.5	✓	✓
Compatibility procedure - 2.9.5	✓	✓
ISDN User Part signalling congestion control - specific Sig. Point - 2.10	✓	✓
Automatic congestion control - adjacent Sig. Point - 2.11	✓	✓
MTP pause and resume - 2.14	✓	✓
Overlength messages - 2.15	✓	✓
Transit network selection (national option) - 2.1.11		✓
Hop counter procedure - 2.17		✓
Calling Geodetic location procedure - 2.20		✓
CIC group query (national option) - 2.8.3		✓
Unequipped circuit identification code (national option) - 2.12		✓
ISDN User Part availability control - 2.13		✓
Temporary Alternative Routing (TAR) - 2.16		✓
Continuity check - 2.1.8		✓
Simple segmentation - 2.1.12		✓
Automatic repeat attempt - 2.8.1	✓	✓
Hard-to-Reach - 2.19		✓
Transportation of User teleservice information		✓
Interaction between N-ISDN and INAP (see Q.1601)		X
Enhanced echo control signalling procedures - 2.6 and 2.7.2.		X
N × 64 kbit/s connection types - 2.1.13 - CPE does Nx64 today		X

ISUP 2000 Function/service	Supported in G500:2000	Supported in G500:2002
Network routing number - Q.763 3.90 - E.164 type number used for routing		X
Temporary trunk blocking - 2.9.9		X
Collect call request procedure - 2.18		✓
Signalling procedures for connection type allowing fallback capability - 2.5		X
64 kbit/s with tones and announcements (eg. for 7 kHz voice)		X
Propagation delay determination (Simple) procedure - 2.6	✓	✓
(Enhanced)		X
Access delivery information		X
Multirate connection types - Q.763 1.2 - CPE does Nx64 today		X
“Charging information” (national option) - 2.1.9		X
Forward transfer - 2.1.10		X
Generic signalling procedures (Q.730) (see also I. 250)		
Application Transport Mechanism (APM) - Q.765 (eg. to carry Q.SIG msgs.)		✓
Redirection (national option) - 8.7		X
End-to-end signalling – SCCP Connection Orientated - 9.3.4		X
End-to-end signalling – SCCP Connectionless (national option) - 9.3.3		X
Generic number transfer - 8.5.		✓
Generic notification procedure - 8.4		✓
Network specific facilities (national option) - 7.0		X
Pivot Routing - 8.6. (e.g. Call Centres)		X
Generic digit transfer (national option) - 8.2		X
End-to-end signalling – Pass along method (national option) - 9.2 – uses Pass-along msg.		X
Service activation - 8.1		X
Remote Operations Service (ROSE) capability (national option) - 8.3		X
Supplementary services		
Direct-Dialling-In (DDI) - Q.731.1	✓	✓
Multiple Subscriber Number (MSN) - Q.731.2	✓	✓
Calling Line Identification Presentation (CLIP) - Q.731.3	✓	✓
Calling Line Identification Restriction (CLIR) - Q.731.4	✓	✓
Sub-addressing (SUB) - Q.731.8	✓	✓

SPECIFICATION

ISUP 2000 Function/service	Supported in G500:2000	Supported in G500:2002
Call Forwarding Busy (CFB) - Q.732.2	✓**	✓
Call Forwarding No Reply (CFNR) - Q.732.3	✓**	✓
Call Forwarding Unconditional (CFU) - Q.732.4	✓**	✓
Call Deflection (CD) - Q.732.5	✓**	✓
User-to-User Signalling (UUS) - Q.737.1 - Service 1 (implicit)	✓	✓
Completion of Calls to Busy Subscriber (CCBS) - Q.733.3		✓
Connected Line Identification Presentation (COLP) - Q.731.5		✓
Connected Line Identification Restriction (COLR) - Q.731.6		✓
Completion of Calls on No Reply (CCNR) (Q.733.5)		✓
Terminal Portability (TP) - Q.733.4		✓
Call Waiting (CW) - Q.733.1		✓
Call Hold (HOLD) - Q.733.2		✓
Conference calling (CONF) - Q.734.1		✓
User-to-User Signalling (UUS) - Q.737.1 - Service 1 (explicit), Service 2, Service 3		✓
Closed User Group (CUG) - Q.735.1		X
Three-Party Service (3PTY) - Q.734.2		✓
Global Virtual Network Service (GVNS) - Q.735.6		✓
Explicit Call Transfer (ECT) - Q.732.7		✓
Call Transfer (CT) - Q.732.1		X
Malicious Call Identification (MCID) - Q.731.7 - MC Trace needed but not MC Hold?		✓
Line Hunting (LH) - Q.732.6		X
Multi-Level Precedence and Pre-emption (MLPP) - Q.735.3		X
International telecommunication charge card (ITCC) - Q.736.1		X
Reverse charging (REV) - Q.736.3		X
Advice of Charge - Q.736.2 - (Multimetering info transfer?)		X
Additional functions and services		
Support of Number Portability (NP)		✓
Support of VPN applications with PSS1 Information Flows		✓
Call Forwarding Not Reachable (CFNRc) - see Q.732.2	✓	✓
Message Waiting Indicator (MWI) - ETS 300 754		✓
Automatic Transmission Measurements and Signalling testing (ATME) - O.22		X

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ACIF's role is to develop and administer technical and operating arrangements to foster a thriving, effective communications industry serving the Australian community through

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- driving 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, seven standing Reference Panels, various task specific Working Committees, a number Industry Facilitation/Coordination Groups and a small Executive.

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