# Australian Standard®

Electronic funds transfer— Requirements for interfaces

Part 4.2: Message authentication— Mechanisms using a hash-function



This Australian Standard® was prepared by Committee IT-005, Financial Transaction Systems. It was approved on behalf of the Council of Standards Australia on 31 March 2006. This Standard was published on 7 July 2006.

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- Australian Association of Permanent Building Societies
- Australian Bankers Association
- Australian Electrical and Electronic Manufacturers Association
- Australian Institute of Petroleum
- Australian Retailers Association
- Credit Card Industry
- Credit Union Services Corporation (Australia)
- Department of Defence (Australia)
- Independent EFT Services
- Reserve Bank of Australia

This Standard was issued in draft form for comment as DR 05490.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through public comment period.

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AS 2805.4.2—2006

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### **PREFACE**

This Standard was prepared by the Standards Australia Committee IT-005, Financial Transaction Systems to supersede AS 2805.4.2—2001.

The objective of this Standard presents a choice of hash functions algorithms for use within the Australian Electronic Funds Transfer (EFT) environment.

This revision is to update the Standard in a number of areas, notably anomalies with MAC sizes and printing errors.

This Standard is based on the International Standard ISO/IEC 9797-2 but presents a different choice of algorithms and presentation layout. For compatibility with the ISO Standard users should choose the SHA-1 function as the hash algorithm.

This Standard forms part of the AS 2805 series of Standards on electronic funds transfer (EFT) requirements for interfaces, as follows:

AS						
2805	Electronic funds transfer—Requirements for interfaces					
2805.1	Part 1:	Communications				
2805.2	Part 2:	Message structure, format and content				
2805.3.1	Part 3.1:	PIN management and security—General				
2805.3.2	Part 3.2:	•				
2805.4.1	Part 4.1:	Message authentication—Mechanisms using a block cipher				
2805.4.2	Part 4.2:	Message authentication—Mechanisms using a hash function				
2805.5.1	Part 5.1:	Ciphers—Data encipherment algorithm 1 (DEA 1)				
2805.5.2	Part 5.2:	Ciphers—Modes of operation for an n-bit block cipher algorithm				
2805.5.3	Part 5.3:	Ciphers—Data encipherment algorithm 2 (DEA 2)				
2805.5.4	Part 5.4:	Ciphers—Data encipherment algorithm 3 (DEA 3) and related				
		techniques				
2805.6.1	Part 6.1:	Key management—Principles				
2805.6.2	Part 6.2:	Key management—Transaction keys				
2805.6.3	Part 6.3:	Key management—Session keys—Node to node				
2805.6.4	Part 6.4:	Key management—Session keys—Terminal to acquirer				
2805.6.5.1	Part 6.5.1	:Key management—TCU initialization—Principles				
2805.6.5.2	Part 6.5.2	:Key management—TCU initialization—Symmetric				
2805.6.5.3	Part 6.5.3	:Key management—TCU initialization—Asymmetric				
2805.6.6	Part 6.6:	Key management—Session keys—Node to node with KEK				
		replacement				
2805.9	Part 9:	Privacy of communications				
2805.10.1	Part 10.1:	File transfer integrity validation				
2805.10.2	Part 10.2:	Secure file transfer (retail)				
2805.11	Part 11	Card parameter table				
2805.12.1		Message content—Structure and format				
2805.12.2		Message content—Codes				
2805.12.3		Message content—Maintenance of codes				
2805.13.1		Secure hash functions—General				
2805.13.2	Part 13.2:	Secure hash functions—MD5				
2805.13.3		Secure hash functions—SHA-1				
2805.14.1	Part 14.1	Secure cryptographic devices (retail)—Concepts, requirements and				
		evaluation methods				
2805.14.2	Part 14.2:	Security, compliance checklists for devises used in magnetic stripe				

and card systems

AS 2805.4.2—2006

The following Handbooks relate to the AS 2805 series of Standards:

HB					
127		transfer—Implementing ook (changing from AS 280	_		
128	Electronic Terminal H	transfer—Implementing	message	content	Standards—
129	Electronic Interchange	transfer—Implementing	message	content	Standards—

In the AS 2805 series of Standards, the definitions of words and phrases used are specific to the Part in which they appear.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

3



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