

Australian Standard™

**Information technology—Public Key  
Authentication Framework (PKAF)**

**Part 2.1: Assurance framework—  
Certification Authorities**

This Australian Standard was prepared by Committee IT/12, Information Systems, Security and Identification Technology. It was approved on behalf of the Council of Standards Australia on 3 December 1999 and published on 3 April 2000.

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The following interests are represented on Committee IT/12:

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Australia Post  
Australian Association of Permanent Building Societies  
Australian Bankers Association  
Australian Chamber of Commerce and Industry  
Australian Customs Service (Commonwealth)  
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*This Standard was issued in draft form for comment as DR 98622.*

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Certification Authorities**

First published as AS 4539.2.1—2000.

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Published by Standards Australia International Ltd  
PO Box 1055, Strathfield, NSW 2135, Australia

ISBN 0 7337 3002 7

## PREFACE

This Standard is one in a series of Public Key Authentication Framework (PKAF) related Standards prepared by the Joint Standards Australia/Standards New Zealand Committee IT/12, Information Systems, Security and Identification Technology.

The Standard is the result of a consensus among representatives on the Joint Committee that it be produced as an Australian Standard.

The objective of this Standard is to specify an assurance model for the Public Key Authentication Framework (PKAF).

To date, the AS 4539 series of Standards comprises the following:

AS

- 4539 Information technology—Public Key Authentication Framework (PKAF)
- 4539.1.3 Part 1.3: General—X.509 supported algorithms profile
- 4539.2.1 Part 2.1: Authentication framework—Certification Authorities (this Standard)

Parts of the AS 4539 series in the course of preparation are as follows:

General—PKAF architecture

General—X.509 certificate and Certification Revocation Lists (CRL) profile

Registration—Identification and authentication

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## STANDARDS AUSTRALIA

**Australian Standard****Information technology—Public Key Authentication Framework (PKAF)****Part 2.1: Assurance framework—Certification Authorities****1 INTRODUCTION**

Certification Authority (CA) assurance is designed to ensure that a consistent and measured level of viability, competence, fitness for purpose, and security is applied within the Australian Public Key Authentication Framework (PKAF) environment.

**2 SCOPE**

This Standard specifies an assurance framework designed to complement the Public Key Authentication Framework and to be applied consistently across any organization seeking to operate a Certification Authority within Australia.

**3 REFERENCED DOCUMENTS**

The following documents are referenced in this Standard:

**AS**

- |      |  |
|------|--|
| 3806 | Compliance programs  |
| 4269 | Complaints handling  |
| 4608 | Guide to the prevention, handling and resolution of disputes |

**AS/NZS**

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|------|--|
| 3907 | Quality management — Guidelines for configuration management |
| 4360 | Risk management  |
| 4444 | Information security management                              |

**AS/NZS ISO**

- |            |  |
|------------|--|
| 9000 (Set) | Quality management and quality assurance Standards |
|------------|--|

**ISO/IEC**

- |          |   |
|----------|---|
| Guide 2  | Standardization and related activities – General vocabulary   |
| Guide 62 | General requirements for bodies operating assessment and certification/ registration of quality systems |
| Guide 65 | General requirements for bodies operating product certification systems                                 |
| 11770    | Information technology—Security techniques—Key management   |
| 12207    | Information technology—Software life cycle processes  |
| 13335    | Information technology—Guidelines for the management of IT Security                                     |

**EN**

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|-------|-----------------------------------|
| 45013 | Certification of personnel bodies |
|-------|-----------------------------------|

Commonwealth Corporations Law

National Principles for the Fair Handling of Personal Information