

INTERNATIONAL  
STANDARD

ISO/IEC  
15408-3

Third edition  
2008-08-15

Corrected version  
2011-06-01

---

---

---

**Information technology Security  
techniques — Evaluation criteria for IT  
security —**

**Part 3:  
Security assurance components**

*Technologies de l'information — Techniques de sécurité — Critères  
d'évaluation pour la sécurité TI —*

*Partie 3: Composants d'assurance de sécurité*



## **COPYRIGHT PROTECTED DOCUMENT**

© ISO/IEC 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## Contents

	Page
<b>Foreword .....</b>	<b>ix</b>
<b>Introduction.....</b>	<b>xi</b>
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions, symbols and abbreviated terms.....</b>	<b>1</b>
<b>4 Overview.....</b>	<b>1</b>
<b>4.1 Organisation of this part of ISO/IEC 15408 .....</b>	<b>1</b>
<b>5 Assurance paradigm .....</b>	<b>2</b>
<b>5.1 ISO/IEC 15408 philosophy .....</b>	<b>2</b>
<b>5.2 Assurance approach .....</b>	<b>2</b>
<b>5.2.1 Significance of vulnerabilities.....</b>	<b>2</b>
<b>5.2.2 Cause of vulnerabilities .....</b>	<b>3</b>
<b>5.2.3 ISO/IEC 15408 assurance.....</b>	<b>3</b>
<b>5.2.4 Assurance through evaluation.....</b>	<b>3</b>
<b>5.3 ISO/IEC 15408 evaluation assurance scale.....</b>	<b>3</b>
<b>6 Security assurance components .....</b>	<b>4</b>
<b>6.1 Security assurance classes, families and components structure .....</b>	<b>4</b>
<b>6.1.1 Assurance class structure.....</b>	<b>4</b>
<b>6.1.2 Assurance family structure .....</b>	<b>5</b>
<b>6.1.3 Assurance component structure .....</b>	<b>6</b>
<b>6.1.4 Assurance elements.....</b>	<b>8</b>
<b>6.1.5 Component taxonomy.....</b>	<b>8</b>
<b>6.2 EAL structure .....</b>	<b>9</b>
<b>6.2.1 EAL name .....</b>	<b>9</b>
<b>6.2.2 Objectives .....</b>	<b>9</b>
<b>6.2.3 Application notes .....</b>	<b>9</b>
<b>6.2.4 Assurance components.....</b>	<b>10</b>
<b>6.2.5 Relationship between assurances and assurance levels .....</b>	<b>10</b>
<b>6.3 CAP structure .....</b>	<b>11</b>
<b>6.3.1 CAP name.....</b>	<b>11</b>
<b>6.3.2 Objectives .....</b>	<b>11</b>
<b>6.3.3 Application notes .....</b>	<b>11</b>
<b>6.3.4 Assurance components.....</b>	<b>12</b>
<b>6.3.5 Relationship between assurances and assurance levels .....</b>	<b>13</b>
<b>7 Evaluation assurance levels .....</b>	<b>13</b>
<b>7.1 Evaluation assurance level (EAL) overview .....</b>	<b>14</b>
<b>7.2 Evaluation assurance level details .....</b>	<b>15</b>
<b>7.3 Evaluation assurance level 1 (EAL1) - functionally tested .....</b>	<b>15</b>
<b>7.3.1 Objectives .....</b>	<b>15</b>
<b>7.3.2 Assurance components .....</b>	<b>16</b>
<b>7.4 Evaluation assurance level 2 (EAL2) - structurally tested .....</b>	<b>16</b>
<b>7.4.1 Objectives .....</b>	<b>16</b>
<b>7.4.2 Assurance components .....</b>	<b>16</b>
<b>7.5 Evaluation assurance level 3 (EAL3) - methodically tested and checked .....</b>	<b>17</b>
<b>7.5.1 Objectives .....</b>	<b>17</b>
<b>7.5.2 Assurance components .....</b>	<b>17</b>
<b>7.6 Evaluation assurance level 4 (EAL4) - methodically designed, tested, and reviewed.....</b>	<b>18</b>
<b>7.6.1 Objectives .....</b>	<b>18</b>
<b>7.6.2 Assurance components .....</b>	<b>18</b>