



Technical Report

**Security Algorithms Group of Experts (SAGE);  
Rules for the management of the TETRA standard  
encryption algorithms;  
Part 2: TEA2**

---

Reference

RTR/SAGE-00027-2

---

Keywords

algorithm, security, TETRA

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

[http://portal.etsi.org/chaicor/ETSI\\_support.asp](http://portal.etsi.org/chaicor/ETSI_support.asp)

---

**Copyright Notification**

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2012.  
All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.  
**3GPP™** and **LTE™** are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.  
**GSM®** and the GSM logo are Trade Marks registered and owned by the GSM Association.

# Contents

|  |           |
|--|-----------|
| Foreword.....  | 4         |
| 1 Scope .....  | 5         |
| 2 References .....   | 5         |
| 2.1 Normative references .....   | 5         |
| 2.2 Informative references.....  | 6         |
| 3 Definitions and abbreviations.....   | 6         |
| 3.1 Definitions .....  | 6         |
| 3.2 Abbreviations .....  | 6         |
| 4 TEA2 management structure.....   | 7         |
| 5 Use of TEA2.....   | 8         |
| 5.1 Users of TEA2.....   | 8         |
| 5.2 TEA2 States and Territories .....  | 9         |
| 6 Distribution procedures .....  | 9         |
| 6.1 Distribution by TEA2 custodian.....  | 9         |
| 6.2 Authorisation to use TEA2 from a primary or secondary user to an end user.....                             | 10        |
| 6.3 Distribution of TETRA equipment containing TEA2 through a third party.....                                 | 11        |
| 6.4 Third party operator supplying TETRA services with TEA2.....   | 11        |
| 6.5 Use of TEA2 by a secondary user .....  | 11        |
| 6.6 Distribution of TEA2 specification part 3 by the TEA2 custodian .....                                      | 12        |
| 7 Approval criteria and restrictions .....   | 12        |
| 7.1 Revocation of TEA2 licences.....   | 13        |
| 7.2 Appeal against Licence Revocation .....  | 13        |
| 8 The TEA2 custodian.....  | 13        |
| 8.1 Responsibilities .....   | 13        |
| 8.2 Appointment.....   | 14        |
| <b>Annex A: Items delivered to approved recipient of TEA2 .....</b>  | <b>15</b> |
| <b>Annex B: Confidentiality and Restricted Usage Undertaking for Manufacturers of TEA2.....</b>                | <b>16</b> |
| <b>Annex C: Confidentiality and Restricted Usage Undertaking for Primary and Secondary Users of TEA2 .....</b> | <b>19</b> |
| <b>Annex CA: Confidentiality and Restricted Usage Undertaking for End Users of TEA2.....</b>                   | <b>22</b> |
| <b>Annex D: Confidentiality and Restricted Usage Undertaking for Suppliers.....</b>                            | <b>25</b> |
| <b>Annex E: TEA2 State and Territories list .....</b>  | <b>27</b> |
| History .....  | 28        |