	<b>ECB•S Recommendation for Service, Repair and Modification Operations on ECB•S Certified Secure Storage Units, Data Cabinets and Data Rooms</b>	<b>ECB•S R11</b>
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## 1 Preamble

The following recommendations published by ECB specify the basic preconditions for service operations that need to be carried out on locks, secure storage units as well as data cabinets and rooms certified according to European standards and national regulations. This non-binding recommendation covers repair, retrofitting and maintenance operations.

## 2 Scope and purpose

The original certificate holder marks secure storage units with a certification mark/recognition plate for unambiguous identification of the certification and hence the resistance grade and/or quality class. Locks and bolts (e.g., in secure storage units) and seals (e.g., in data cabinets) are integral components of the certified secure storage unit. Only those components (locks, bolts, seals, etc.) approved within the scope of the certificate may in general be used in secure storage units. The use of locks not listed in the certificate may be regulated separately, e.g., taking into account technical expert opinions.

The purpose of this recommendation is to describe the proper course of action as regards service, repair and retrofitting operations (hereinafter called “service operations” on ECB•S certified secure storage units, deposit systems, data cabinets as well as data rooms. The parties concerned (operators, insurers, manufacturers, certificate holders of security products, service providers, etc.) will be informed about the course of action recommended by ECB. In cases of doubt or cases needing clarification, the following course of action should be applied.

Service operations, for example, include the replacement of high security locks with electronic locks, the retrofitting of electronic locks, the exchange of seals as well as emergency openings and the subsequent repair of secure storage units. After an emergency opening, the measures for the restoration of the security level need to be critically checked. If necessary, the repairs must be checked by an authorized expert prior to execution.

Service operations should be carried out by the service staff of the certificate holder or by a service company. The certification body ECB recommends that service staff (service technicians of the certificate holder and/or the service company) must be trained and brought up to date at regular intervals. Proof of professional competence may be given e.g. as follows: Training by the certificate holder, many years of practical experience, many years working in a manufacturing company (certificate holder) in the field of technology, service, or similar and participation in various training courses at educational institutes which deal with these topics on a regular basis. Furthermore, ECB offers an additional audit of the service operations performed as part of the annual audit of the company. After successful completion of the audit, the company receives a confirmation to the effect that the services carried out are regularly monitored by ECB.

*Note 1: The modification of secure storage units with, e.g., high security locks according to EN 1300, may offer possibilities for increased efficiency in use (e.g. in terms of ease of operation, organization). However, such services (e.g., installation of a mnemonic code entry unit in locks) definitely do not upgrade the security level of older security products (e.g. RAL and VDMA 24992) and such modifications definitely do not make them equivalent to secure storage units certified according to the latest European standards (e.g., EN 1143-1, EN 14450) even after the modification.*

*Note 2: Secure storage units for which permission for the use of a test label (according to the RAL Guidelines) has been granted are also deemed to be certified products covered by these Guidelines.*

### 3 Normative references

These recommendations contain dated and undated references to other regulations. The references in ECB R11 are incorporated in the respective sections; their titles are listed below. For dated regulations, subsequent amendments or supplements only apply if they are published in the form of an amendment of these guidelines. Of undated references, always the latest version is applicable.

#### ***Burglary resistance products***

<b>EN 1143-1</b>	Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms
<b>EN 1143-2</b>	Secure storage units – Requirements, classification and methods of test for resistance to burglary – Part 2: Deposit systems
<b>EN 14450</b>	Secure storage units – Requirements, classification and methods of test for resistance to burglary – Secure safe cabinets
<b>EN 1300</b>	Secure storage units – Classification for high security locks according to their resistance to unauthorized opening
<b>RAL-RG 621</b>	Quality conditions for armoured safes of security grades D2 and E
<b>RAL-RG 622</b>	Quality conditions for strongroom doors and emergency doors of security grade LTP
<b>RAL-RG 623</b>	Quality conditions for strongroom doors and emergency doors of security grade T 1
<b>RAL-RG 624</b>	Quality conditions for strongroom doors and emergency doors of security grade T 2

- RAL-RG 625/5** Test specification for armoured strongroom doors
- RAL-RG 626/1** Quality conditions for armoured safes of security grade D1
- RAL-RG 626/10** Test specification for armoured safes D 10
- RAL-RG 621/20** Test specification for armoured safes D 20
- RAL-RG 621/10** Test specification for armoured safes E 10
- RAL-RG 622/1** Test specification for strongroom doors of security grade LT 1
- RAL-RG 623/10** Test specification for strongroom doors of security grade T 10
- RAL-RG 624/20** Test specification for strongroom doors of security grade T 20
- RAL-RG 626/2** Test specification for cabinets/safes of security grades C 1 and C 2
- RAL-RG 623/3** Test specification for safe units GE I and GE II of ATMs

**ECB•S R01**      **Lock Guide**

**EN 13306**      **Maintenance – Terms of Maintenance**

### ***Fire resistance products***

- EN 1047-1**      Secure storage units – Classification and methods of test for resistance to fire – Part 1: Data cabinets and diskette inserts
- EN 1047-2**      Secure storage units – Classification and methods of test for resistance to fire – Part 2: Data rooms and data container
- EN 15659**      Secure storage units – Classification and methods of test for resistance to fire – Light fire storage units

### ***Quality management system***

- ISO 9004**      Quality management – Quality of an organization – Guidance to achieve sustained success (ISO/DIS 9004:20017)
- ISO 17065**      Conformity assessment – Requirements for bodies certifying products, processes and services

*Note: The ECB•S regulations (e.g., the Lock Guide ECB•S R01) are listed on the Internet at [www.ecb-s.com](http://www.ecb-s.com). European standards can be ordered from Beuth Verlag GmbH, Berlin.*

## 4 Terms and definitions

### **ECB•S certification mark:**

A mark provided by the ECB•S (e.g., a metal label) showing information about the resistance grade and protection class, respectively, the serial number, the weight and the year of manufacture, thus confirming compliance of the series product with the certified product. Certification marks are consecutively numbered and only available from ECB. As a result, their use can be traced by the ECB•S (identification of the certificate holder).

### **Lock system:**

Electronical or mechanical lock system consisting of a lock and/or bolt mechanism for locking secure storage units. The lock system is an integral part of the certification of a secure storage unit. Only the locks listed in the Technical Documentation relating to the certificate may be used.

### **Lock Guide:**

List of approved locks that may be integrated in the certification documents and installed in certified secure storage units following assessment by an ECB•S recognized testing laboratory.

### **Certified lock list:**

Compilation of locks in accordance with the Lock Guide ECB•S R01 listing locks that have been approved by the European Certification Board for installation in certified secure storage units.

### **Service protocol:**

Records in which the service operations are documented and which are signed by the service company and the customer.

### **Technical documentation:**

All documents and records showing data and information assigned to the product.

### **RAL:**

Deutsches Institut für Gütesicherung und Kennzeichnung e. V. (RAL, the German Institute for Quality Assurance and Certification): Independent organization which defines, e.g., quality and testing conditions, through RAL recognized associations using quality-related requirements as a basis. The RAL recognized “quality assurance associations” (Gütegemeinschaften) are entitled to monitor compliance with the RAL requirements.

Note on the term: In the safe and strongroom manufacturing sector, it was initially the task of “Forschungs- und Prüfgemeinschaft Geldschränke und Tresoranlagen e.V.” to prepare the RAL guidelines and to monitor quality. Many RAL requirements are no longer accessible now.

**FuP:**

Forschungs- und Prüfgemeinschaft Geldschränke und Tresoranlagen e.V.: A body that prepared requirements for construction, testing and quality conditions by means of Technical Committees, supervised the quality of products of the safe and strongroom industry and granted test labels through a "Test Committee". The successor body is European Certification Body GmbH ("ECB•S").

**Log book:**

The log book is a document in which all measures that ensure the operational conditions of the product are recorded in writing. The entries are made by the certificate holder or the service company. The log book must be available at all times and is property of the user.

*(Note: For further definitions, please see the relevant European standards.)*

## **5 Execution of service operations**

### **5.1 Analysis of the initial situation**

Before the service is performed, the user shall be asked to provide the following information about the secure storage unit:

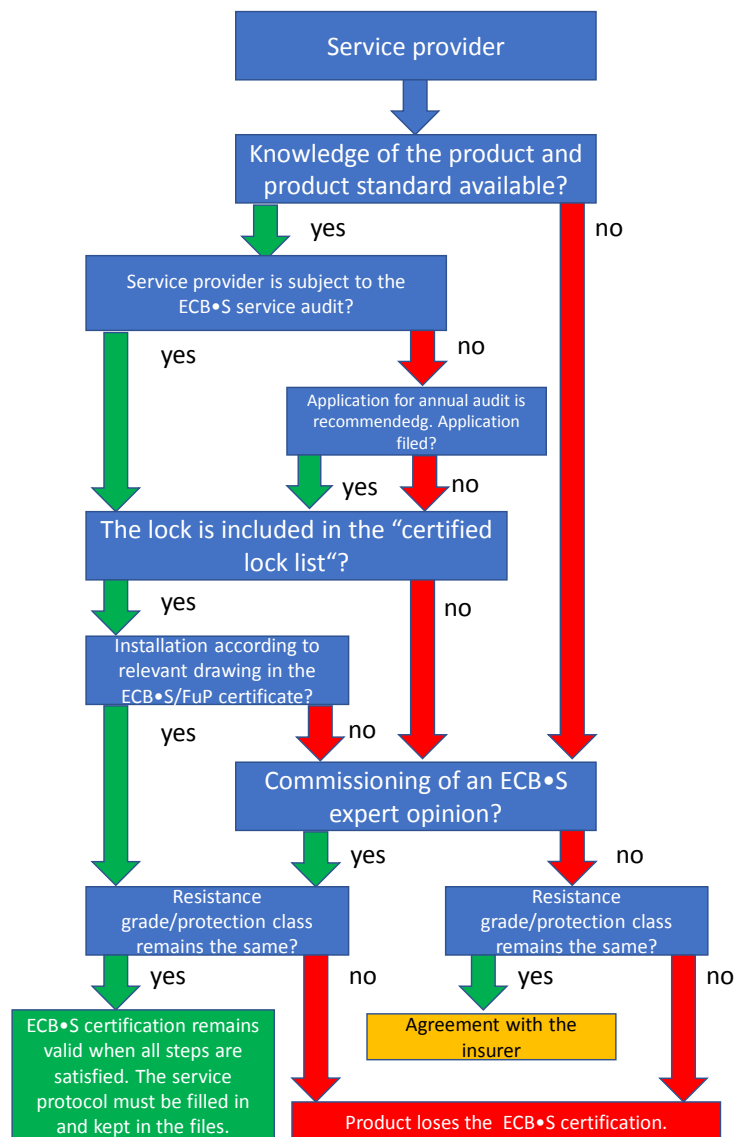
- Place of installation (including address)
- Manufacturer or supplier
- Product (e.g. safe, strongroom door, data cabinet)
- Model name
- Resistance grade and protection class, respectively
- Number of certification mark / approval label
- Year of manufacture (if given)
- Information about the state of the product (if applicable, description of visible, previous modifications)
- Date of most recently performed service, if applicable.

In case of a modification of a secure storage unit, in addition the following information shall be requested from the user:

- Present lock assembly
- Requested / intended lock assembly.

## 5.2 Overview of flow of actions

The service provider is recommended to carry out his work in accordance with the following procedure. At designated places, consult with the insurance company. The insurance will decide if the product will continue to be insured.



### **5.3 Information provided to the user**

If in the context of corporate due diligence, it is found that

- previously performed services were carried out improperly without any possibilities for rectification,
  - previously performed services were carried out by third parties that do not have the necessary qualifications,
  - a service cannot be carried out without the security level being affected,
- the user shall be informed about these facts immediately after discovery.

The user shall be made aware that

- the security properties of the unit are restricted,
- in this case, an existing certification mark/approval label of the secure storage unit will lose its validity.
- Furthermore, the user shall be made aware that insurance cover is jeopardised and that the insurer needs to be informed.

These notes must be documented in a suitable manner.

### **5.4 Product knowledge**

The service technician and/or the service company must have general knowledge of the secure storage and fire protection products sector as well as specific knowledge of the service product and must provide proof of that for example towards the Certification Body within the service audit or the insurance company (see also paragraph 2).

Note: Usually, the relevant expertise in the execution of service operations according to the above, is given by the original certificate holder.

In addition, proof of state-of-the-art general knowledge of different locks (mechanical and electronic) as well as their installation and bolt mechanisms shall be available. A solution for unknown products should be searched and found by means of the standard. Where there are any doubts, it is recommended obtaining an expert opinion. The currently applicable standards listed in this Recommendation are required as basic knowledge.

### **5.5 Preparation and acceptance of operations at the lock covered by the service order**

For the modification of a lock, it shall be examined as a matter of principle whether the lock class and the lock certification are permitted and suitable for use in the secure storage unit. In this connection, the following aspects shall be considered:



### The lock

- has been certified according to EN 1300 as a high security lock for secure storage units and is listed in the Lock Guide ECB•S R01;
- is, as far as its external dimensions are concerned, consistent with the previously used lock (that shall be replaced) to such an extent that it can be installed without causing changes in the security related properties of the bolt mechanism or the secure storage unit;
- satisfies, if installed as planned, the installation requirements, the specifications required by the lock manufacturer of the original lock and the new lock, whilst it does not have any negative influence on the security related functions and the locking action of the bolt mechanism and its total concept does not reduce the security related properties of the secure storage unit.

This is, inter alia, the case where

- the lock is and/or was permitted for use in the secure storage unit to be modified.
- the installation of the lock was carried out according to the specific installation requirements of the lock manufacturer.

The following security related technical conditions need to be satisfied in any case – in particular if the lock is not shown in the certificate of the secure storage unit (the following specifics are in the singular form; where there are several locks, the specifics shall be applied to all locks/lock areas):

- After the retrofitting, the armouring of the lock continues to be equivalent to the previous one and is still sufficient.
- Where applicable, newly created penetration openings/other openings are closed securely and adequately and according the specifications of the lock manufacturer.
- The number of locking points in accordance with the certification of the secure storage unit is maintained or increased.
- Existing security equipment (glass plates, emergency locks, etc.) remain fully functional (any existing penetration openings in the armouring, glass plates, etc. shall be examined and assessed individually).
- After the retrofitting, the engagement of the bolt lock in the locking point is still sufficient and the cover on the indirect locking point is at least equivalent to the certified secure storage unit.
- The installation conditions of the lock comply with the requirements set out in the assembly instructions of the lock manufacturer.
- The installation instructions (if available) of the lock manufacturer are followed.
- Now unused security related guide openings or breakthroughs for key and/or combination locks are closed properly and permanently.

- Necessary cable fairleads (with a maximum diameter of 11 mm and/or 100 mm<sup>2</sup>) are positioned in such a way that manipulation of the bolt mechanism or the lock through these openings is not possible.
- Where there are carriages or breakthroughs that are no longer used, they are blocked and closed in a suitable and permanent way.

Where security relevant components (drilling protection plates, glass plates, seals, etc.) shall be replaced, e.g., in the case of repair work after an emergency opening, special care shall be taken that the components used are equivalent to the components of the certified secure storage unit. Equivalence shall be confirmed or accepted by the certifying body.

## **5.6 Work carried out on data cabinets and rooms**

In connection with work on data cabinets and rooms, special attention shall be paid to the following criteria:

- Replacement of seals in data cabinets and rooms
- Closing of cable and pipe bulkheads in data rooms
- Retrofitting of cable and pipe bulkheads in data rooms
- Retrofitting of climate and overpressure control dampers in data rooms
- Reuse/reconstruction of components, if and where appropriate, of a strongroom and data room (of modular design)
- Modifications of the locking mechanism of doors and dampers (e.g., replacement of the door closer)
- Implementation and/or retrofitting of components in data rooms like very early fire detection systems, air conditioners, cable runs, etc. with due consideration to the preservation of the room properties (compliance with the installation guidelines for fixings, etc.).

## **5.7 Documentation**

The service operations shall be documented by the service technician in a comprehensible way (e.g., released service order, installation protocol, photo documentation giving the substantial technical security details, e.g., before and after the installation of high security locks, activity report). The installation protocol shall be countersigned by the customer and archived by the certificate holder or service company. On request, the documentation shall be made available for examination by the insurer or ECB at any time. It is recommended that the documents are being archived by the operator / owner for a period of ten years.

After completion of the service operations, it is recommended that the product be marked with a seal label clearly documenting the proper execution of the services.

## **6 Expert opinion**

As certifying body, ECB recommends having an expert opinion prepared by ECB or an affidavit expert, if security relevant components that are not equivalent to the previous ones or if a lock that is not included in the certified lock list shall be used. If it is required to resort to the technical documentation, it is necessary to obtain the consent of the certificate holder or the legal successor.

## **7 Service audit**

As proof of the quality of the service performed on ECB•S certified products, ECB may, on request of the service company or the service department of the certificate holder, carry out a so-called “service audit” once per year. If audits have been repeatedly successful, the interval can be increased to two years. In the main, this audit covers the procedure applied in the service operations and its documentation based on this ECB Recommendation. If external quality surveillance audits are already carried out at the manufacturing company at regular intervals, they may be combined with a service audit. After a successful audit, the company will receive a confirmation to the effect that the service centre is monitored by ECB at regular intervals.

## 8 Annexes

Annex A – Service protocol							
User				Protocol No.			
Institute / Company (with address)							
Branch/ Place (with address)							
<b>Type of secure storage unit</b> (Please give basis of approval of the secure storage unit)							
<input type="checkbox"/>	Safe	<input type="checkbox"/>	ATM safe	<input type="checkbox"/>	Strongroom door	<input type="checkbox"/>	Strongroom
<input type="checkbox"/>	Deposit system	<input type="checkbox"/>	Data cabinet	<input type="checkbox"/>	Data room	<input type="checkbox"/>	Secure Safe Cabinets
<input type="checkbox"/>	Fire Protection Products	<input type="checkbox"/>	Others				
<b>Original certificate holder / Manufacturer</b>							
<b>Model name</b>							
<b>Certification body</b>			<b>Resistance grade / Security level</b>			<b>Protection class</b>	
<b>Certification mark and/or approval number</b>						<b>Year of manufacture</b>	
<b>Type of service order</b>							
<input type="checkbox"/>	Lock modification/ lock replacement	<input type="checkbox"/>	Emergency opening with repair	<input type="checkbox"/>	Change of seals	<input type="checkbox"/>	Other
Please give addition information B1, B2, B3, B4 and B5, respectively							
	B1, B2, B4, B5		B3, B4, B5		B3, B4, B5		B4, B5

<b>Additional details B1: Lock modification / Lock replacement</b>		<b>Protocol No.</b>	
<b>Present lock assembly</b>			
	<b>Lock 1</b>	<b>Lock 2</b>	<b>Lock 3</b>
Manufacturer			
Lock class			
Lock type	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic
<b>Requested / planned lock assembly</b>			
	<b>Lock 1</b>	<b>Lock 2</b>	<b>Lock 3</b>
Manufacturer			
Model name			
Approval number			
Lock class			
Lock type	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic	<input type="checkbox"/> Key <input type="checkbox"/> Combination <input type="checkbox"/> Electronic

Additional details B2: Measures for lock modification / lock replacement				Protocol No.	
		Figure No.		Description of measures	
		be-fore	after		
<input type="checkbox"/>	Connection to alarm system				Alarm system
<input type="checkbox"/>	Installer is involved in the functional test of the alarm system				
<input type="checkbox"/>	Change of factory code (with the assistance of the supervisor)				
<input type="checkbox"/>	Opening for key lock				Check of manipulation possible
<input type="checkbox"/>	Opening for mechanical combination lock				
<input type="checkbox"/>	Cable opening (ø11 mm / 100 mm <sup>2</sup> at maximum)				
<input type="checkbox"/>	Operation near to previous/ at the same position				Others
<input type="checkbox"/>	Emergency locking function/hasp fully functional				
<input type="checkbox"/>	Carriages blocked				
<input type="checkbox"/>	Security of bolt mechanism not influenced				
<input type="checkbox"/>	Locking points / same number of locking points				
<input type="checkbox"/>	Armouring of the locks sufficient				
<input type="checkbox"/>	Installation according to installation instructions				
<input type="checkbox"/>	Now unused penetrations are sufficiently closed				
<input type="checkbox"/>	Sealing of boreholes				
<input type="checkbox"/>	Area protection of the door has been checked				

<input type="checkbox"/>	Security equipment is unimpaired				
<input type="checkbox"/>	Re: wall bore holes: Filling material in the borehole of equivalent quality				
<b>Present seal</b>				<b>New seal</b>	

Additional details B3: Change of seals				Protocol No.	
		Figure No.		Description of measures	
		before	after		
<input type="checkbox"/>	Use of original spare parts (material and material thickness)				
or					
<input type="checkbox"/>	Use of permitted sealing material				
<input type="checkbox"/>	Seal closely fitting on both sides (body and door)				
<input type="checkbox"/>	Seal durably fixed				
<input type="checkbox"/>	Proper disposal of sealing material				
<b>Present seal</b>				<b>New seal</b>	



Additional details B4: Other measures*					
		Figure No.		Description of measures	
		be- fore	after		
<input type="checkbox"/>	Seal				Sealing of the bolt mechanism cover
<input type="checkbox"/>	Key				
<input type="checkbox"/>	Position of bolt mechanism				
<input type="checkbox"/>	Other				
<input type="checkbox"/>	Assembly of time locking interruption (accessible from the inside)				
* Simple maintenance jobs (e.g. lubricating) are not part of these Guidelines					

<b>Additional details B5: Confirmation of services performed</b>		<b>Protocol No.</b>	
The service technician confirms proper and professional installation, the labelling of the system and instruction of the customer (please strike out as appropriate).			
Date	Name of service technician	Signature of service technician / Company stamp	
The instructed person confirms receipt of proper instructions by the service technician.			
Date	Name of instructed person	Signature of instructed person	
The customer confirms the performance of the order.			
Date	Name of customer	Signature of customer	