



# Data Protection Certification for Cloud Services

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# Trusted Cloud: Legal Framework of Cloud Computing

- **Pilot Project „Data Protection Certification for Cloud Services“ (2013-2016)**
- Data protection authorities, businesses, associations
- Topics
  - Certification requirements for cloud services
  - Certification process for cloud services
- Step 1 (2013 – 2015)
  - Framework for certification
  - Trusted Cloud Data Protection Profile (TCDP) 0.9
- Step 2 (2015 – 2016)
  - Pilot certification of cloud services
  - Trusted Cloud Data Protection Profile (TCDP) 1.0

## Compliance certification in the field of data protection

**Challenge:** Supervision of cloud service providers by cloud users

- Art. 17 Data Protection Directive / § 11 German Federal Data Protection Act (Bundesdatenschutzgesetz, BDSG)
  - Assessment of technical and organizational measures
  - Cloud user does not have sufficient knowledge to analyze the measures
  - On-site inspection by every cloud user is inefficient

**Solution:** data protection certification for cloud services

- Inspection of cloud service carried out and certified by an independent third party with appropriate qualification
- Inspection by cloud user substituted by certificate

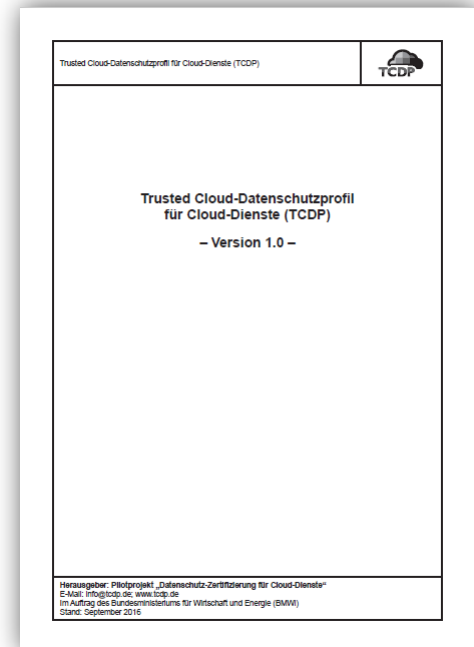


# Elements of compliance certification for cloud services

## Uniform requirements for certification

### Trusted Cloud Data Protection Profile for Cloud Services

- Specifies the legal requirements of German Federal Data Protection Act / European Data Protection Directive
- Based on ISO/IEC 27002 / 27017 / 27018
- Takes different levels of protection requirements into account
- Published in April 2015 as TCDP 0.9
- Implemented and tested in 2015 /2016
- Published in September 2016 as TCDP 1.0

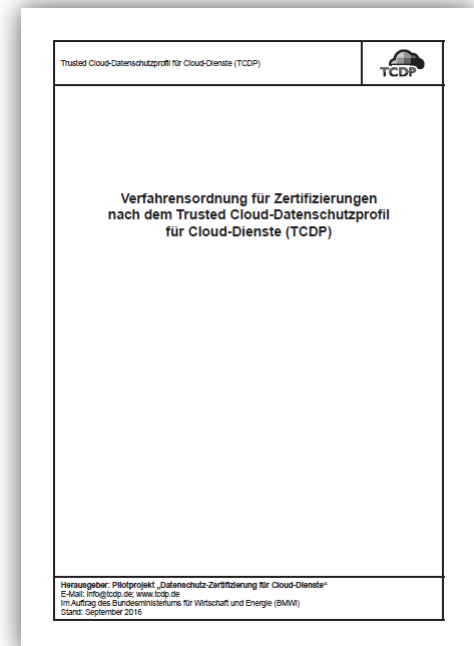


# Elements of compliance certification for cloud services

## Uniform certification procedure

### Rules of Procedure for Certification According to the Trusted Cloud Data Protection Profile for Cloud Services (TCDP)

- Requirements for auditors and certification bodies
- Rules for assessment of cloud services
- Rules for certification of cloud services
- Take into account GDPR provisions
- Published in September 2016



# Elements of compliance certification for cloud services

## Efficiency of data protection certification

### ■ Separate levels of security

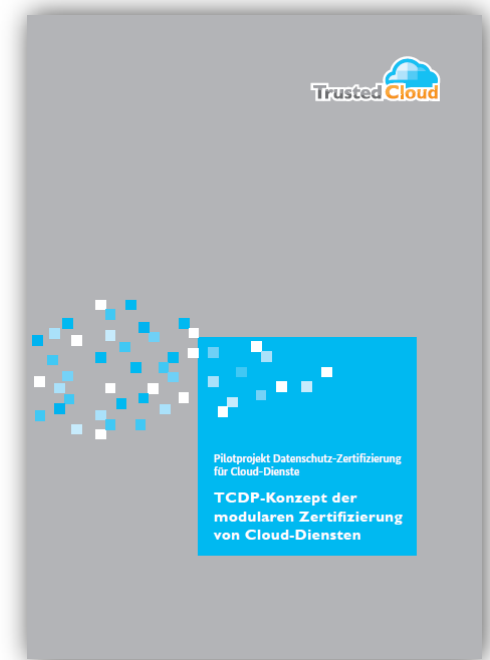
- Challenge: Different levels of security required in practice
- Solution: Certification according to security levels
- Different security levels set out in TCDP
- Security levels as part of the certificate



# Elements of compliance certification for cloud services

## Efficiency of data protection certification

- **Modular certification concept**
  - Separate certification of different modules of a cloud service
  - Single certification of module for multiple services



## Certification of cloud services and GDPR

### **The General Data Protection Regulation and certification**

- Certification as a means for demonstrating compliance, Art. 28 V
- Requirements for certification procedure in Artt. 42, 43

### **Future tasks for certification of cloud services**

- Developing a certification standard based on GDPR
- Seeking recognition of the standard by the Board, Art. 42 V
- Adaptation of the certification procedure to the GDPR



# Perspective: German-French Initiative on European Cloud Certification

## Potential of a German-French Cooperation

- Creating a common standard for certification of cloud services
- Creating a framework for certification procedures
- Certification of cloud services for the entire internal market
- Potential for a globally recognized standard of data protection certification

**Thank you very much  
for your attention!**

**More Information: [www.tcdp.de](http://www.tcdp.de)**

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