



Bundesnetzagentur



Bundesamt
für Sicherheit in der
Informationstechnik

BUNDESNETZAGENTUR

Federal Network Agency

Electricity, Gas, Telecom, Post and Railway Networks



Reiner Wyphol



Bundesnetzagentur



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Informationstechnik

Preparedness measures

Improving resilience in e-communication networks



BNetzA

Federal Network Agency



BSI

Federal Office for Information Security



Mandate of the authorities

☐ **BNetzA**

National Regulatory Authority:
Telecommunications Act ,
EMC-Act, P & T Safeguarding
Law, Postal Act , Energy Act
and their ordinances having the
force of law.

Reporting to:

☐ **BMWi**

Federal Ministry of Economy
and Technology
A.o. responsible for P&T policy.

☐ **BSI**

Federal Office for Information
Security. Central IT security
service provider for the German
government, in a wider sense
for the whole German society.

Reporting to:

☐ **BMI**

Federal Ministry of the Interior
A.o. responsible for IT-strategy,
IT security and governmental
communication infrastructures.



Telecommunications Act security / resilience

□ §109, 1 TKG Service providers

Protection goals (Pg) I and II

Pg I: Safeguard, ensure
Telecommunication secret
and respective data.

Pg II: Protect T and IT
equipment against
intrusion.

□ §109, 2-3 TKG

Operators of Telecom.
Networks -offering a service
to the public

Pg I, PG II, Pg III and IV

Take adequate technical
measures to protect the
Telecommunication Network:

Pg III: against faults leading to
major service
disturbances.

Pg IV: against external attacks /
natural disasters.



Obligations of **operators** under §109, TKG

- ☐ **Nominate a security commissioner.**
- ☒ **Compile a security concept.**
- ☐ Send hard copy of the concept to BNetzA when commencing service.
- ☐ Declare that the provisions and measures outlined in the concept are effective or coming into effect soon.

■ **Security concept** requirements

- List the telecommunication services provided to the public.
- Description of technical equipment / services.
- Identify possible threads (with regard to main & auxiliary equipment / systems).
- Detail the technical and organizational measures implemented to forcome incidents as identified in the thread scenarios / analysis.



Typical tasks of BNetzA in the field of resilience



- Auditing operators security concepts, including BCM, BCP
- Auditing operators facilities and premises in accordance with §§109 and 115 TKG. (Own personnel)
- Supervising operators with regards to incidents.
- Enforcing regulation in accordance with the relevant act(s), *measure of last resort*.
- Developing and maintaining relevant guidelines (like guideline for the compilation of a security concept).
- Giving direct advise on the phone on regulatory issues.
- Hosting data bases with relevant information on safety, resilience and redundancy.



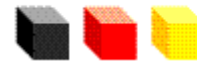
National Plan for Information Infrastructure Protection (NPSI)



National Plan for Information Infrastructure Protection



- National umbrella strategy for IT security in Germany, published 2005
- Addressees: especially federal administration and critical infrastructures
- Three strategic objectives



Prevention



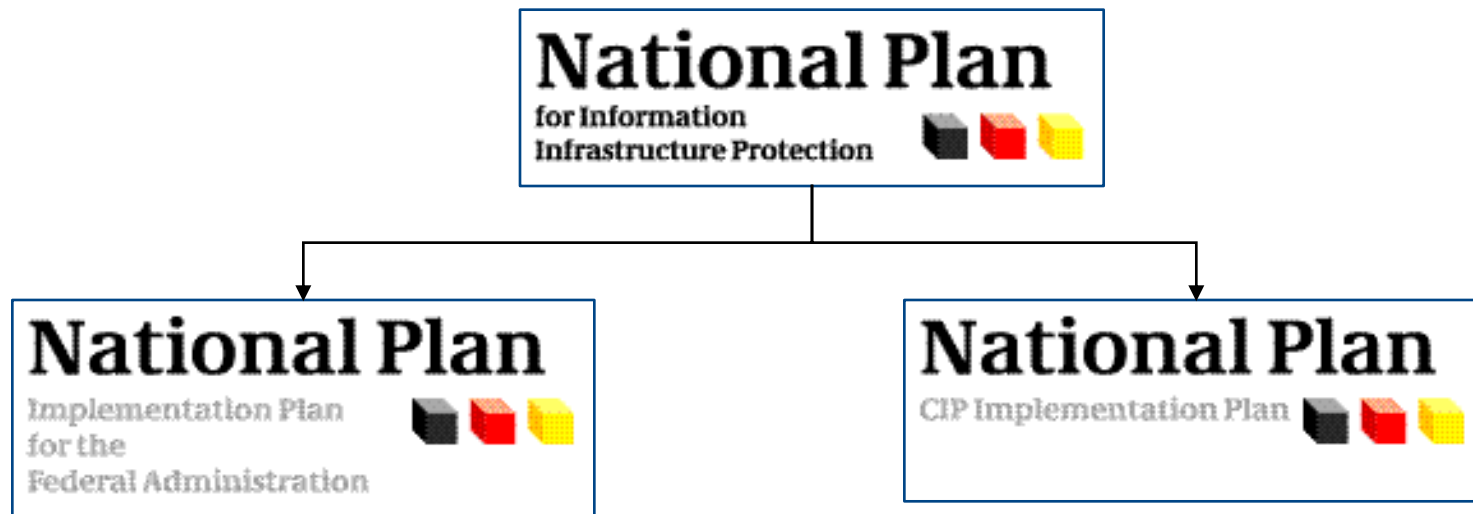
Preparedness



Sustainability



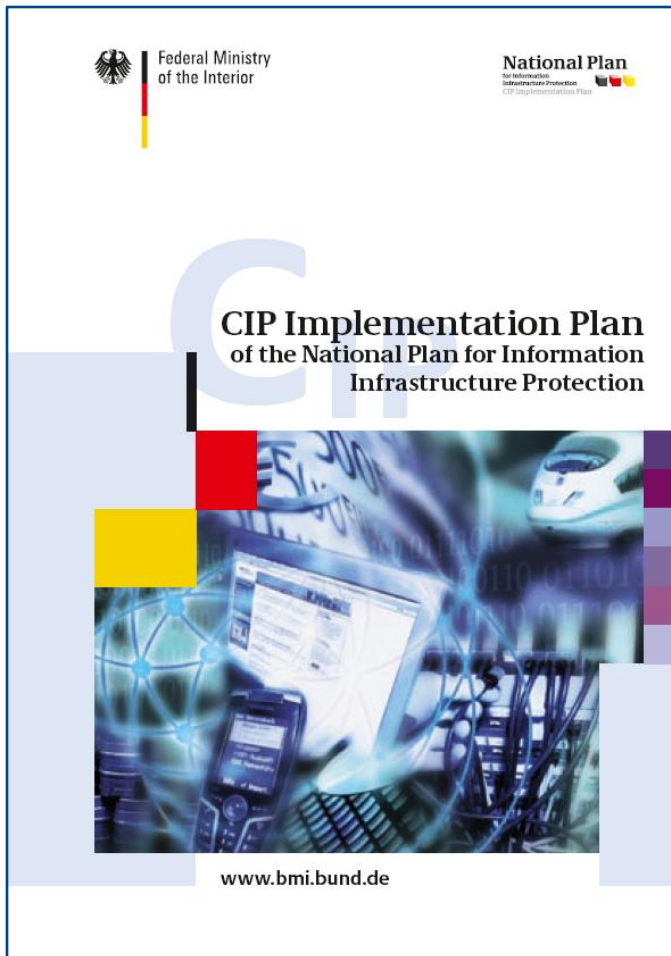
National Plan for Information Infrastructure Protection (NPSI)



- Ensuring a high, uniform standard of IT security for all federal ministries and authorities
- Enacted in 2007
- Drafted in cooperation with the CI operators
- Assumption of joint responsibility for IT security in critical infrastructures
- Adopted and published in 2007



CIP Implementation Plan



Main objectives:

- ❑ Achieve a uniformly high status of basic IT security in critical infrastructures
- ❑ Foster a network of trust and increase cooperation
- ❑ Offer guidelines and orientation for all enterprises



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Many thanks for your attention !

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