



**GEDS General Enterprise Data Systems**

Information Technology  
Services, Development, Distribution



Bundesamt  
für Sicherheit in der  
Informationstechnik

## IT Grundschutz – the basis for your IT security

### Grundschutz analysis Challenges & Approach





## IT security is... endangered

- **Force majeure:** Fire, water, lightning, illness, ...
- **Organisational deficiencies:** Missing or vague regulations, missing concepts, ...
- **Human spurious actions:** „The biggest security hole often sits in front of the keyboard“
- **Technical failure:** System crash, hard disk crash, ...
- **Intended actions:** Hacker, viruses, Trojans, ...



## IT security is necessary... Claim balance

- **Number** of security events rises steadily:
  - 75 % of all companies had events with business damaging consequences during the last year
- **Amount of damages** of a single damage:
  - Maximum: high amounts in the tens of millions
  - Average: 5-6-digit amounts
- **Form of damages:**
  - Biggest single problem: computer viruses
  - The basic value is concerned predominantly.
  - The predominant majority of those events is not an systematic attack.
  - Ranking of causes: human, technique, environment



## Typical problems in practice ... how do I deal with that?

- Resignation, fatalism and suppression
- Communication problems
- Security is seen as a technical problem with technical solutions
- Conflict of aims: Security, comfort, costs
- Unsystematic approach or a wrong methodology
- Management: missing interest, bad example
- Security concepts address oneself to experts, the IT user is forgotten.



## Consequences of missing regulations

- Confusion in a case of emergency
  - What to do? Who helps?
- Incomplete data backup
  - Notebooks, home offices, local keeping of data
- Missing classification of information
  - Coding, transfer and exchange of information
- Dangerous internet use
  - What everyone does cannot be insecure...?
- Indiscipline
  - Ignorance and arrogance instead of regulated processes
  - Consequences are missing, are too hard, are arbitrary



# Methodology for IT security

Various roads lead to IT security...



Which one is most effective?



## Risk analysis

### Definition:

Examination about the probability of the incidence of a defined damage and the negative consequences which would come from this damage.

### Problems:

- Inexact input parameters
- High expenditure of time
- Expensive
- Individual consideration necessary





## Aim of the IT Grundschutz

To build up a

**standard security level**

with infrastructural, organisational, personal and technical

**standard security measures**

for IT systems which is also

**expandable**

in more sensitive fields.





## IT Grundschutz manual Principles

- The complete system contains **typical** components  
(server, clients, server room, E-mail...)
- **Trivialised** dangers and incidence rates, no classical risk analysis
- Recommendation of **standard** security measures

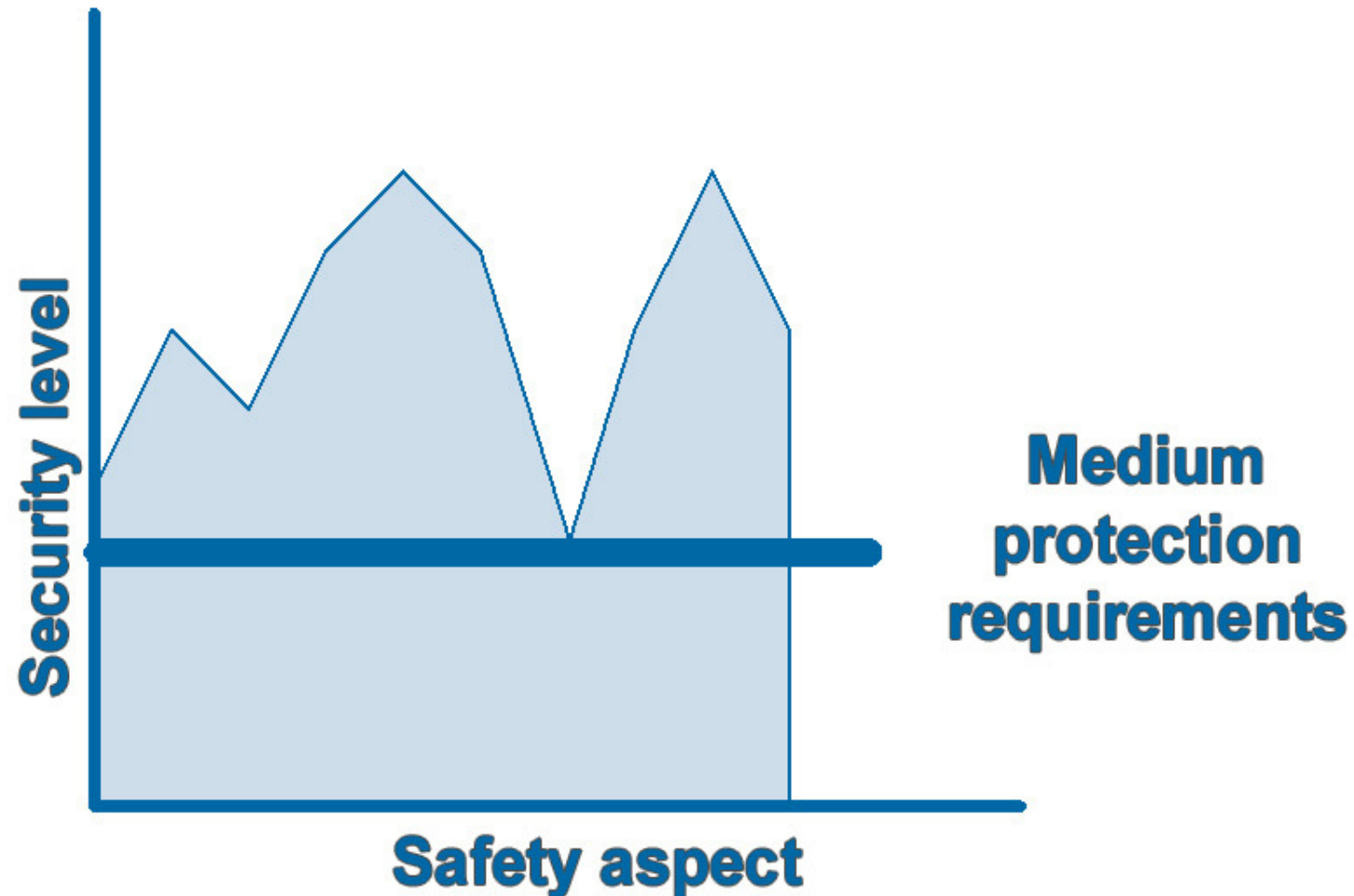


## IT Grundschutz Advantages

- Work economic application method because of a **variance analysis**
- compact IT security concepts because of a link to the **reference source**
- Tried-and-tested, mostly cost-efficient measures with a high **effectiveness**
- **Expandability** and **updatability**



## Achievable security level





## IT Grundschutz means...

### Knowledge

- ✓ Systems, applications, communication connections, rooms
- ✓ Demand of protection

### Management and organisation

- ✓ Security management
- ✓ Security concept
- ✓ Organisation
- ✓ Personnel
- ✓ Emergency precaution

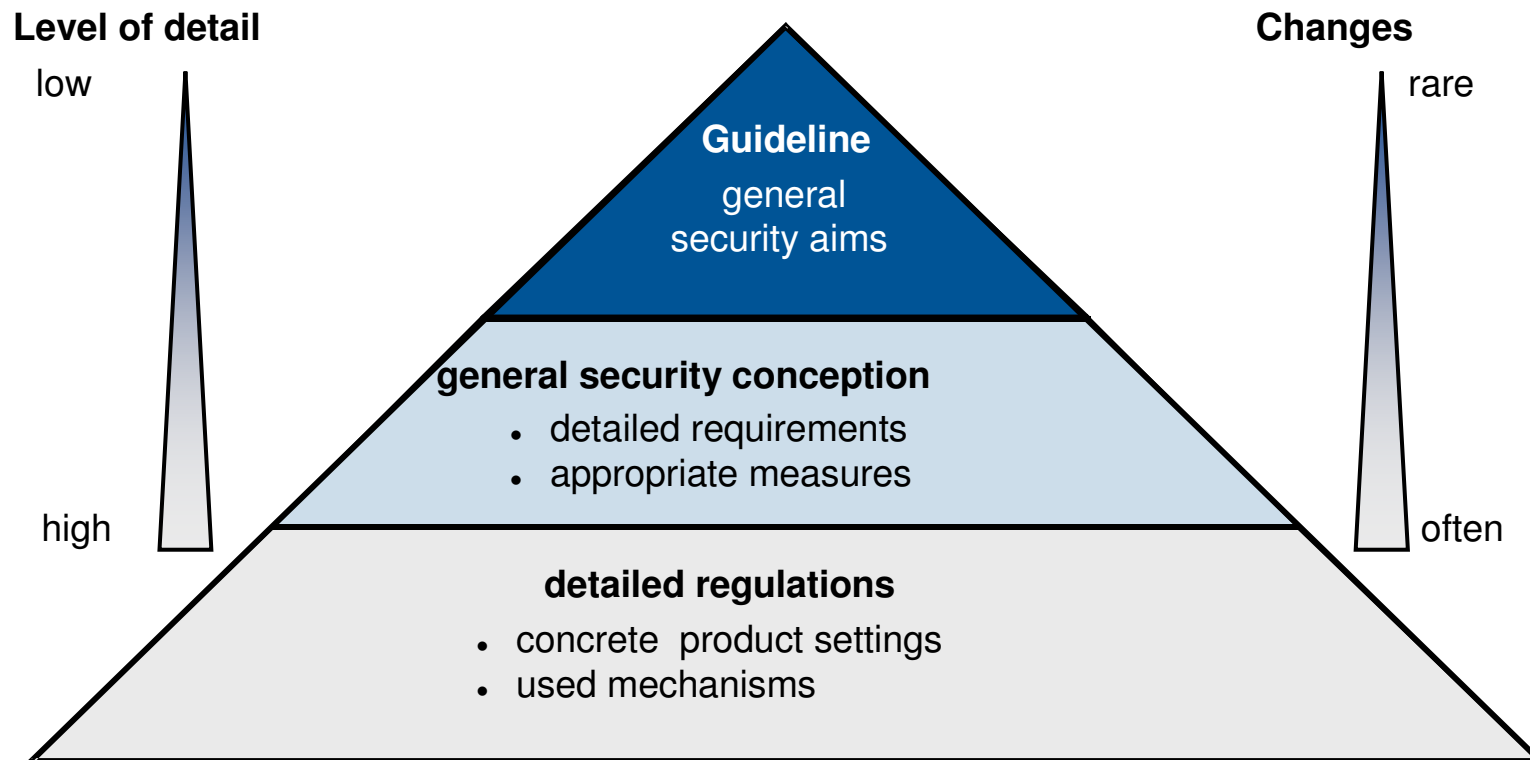
### Technique

- ✓ Assurance of the infrastructure
- ✓ Standard security measures for standard components



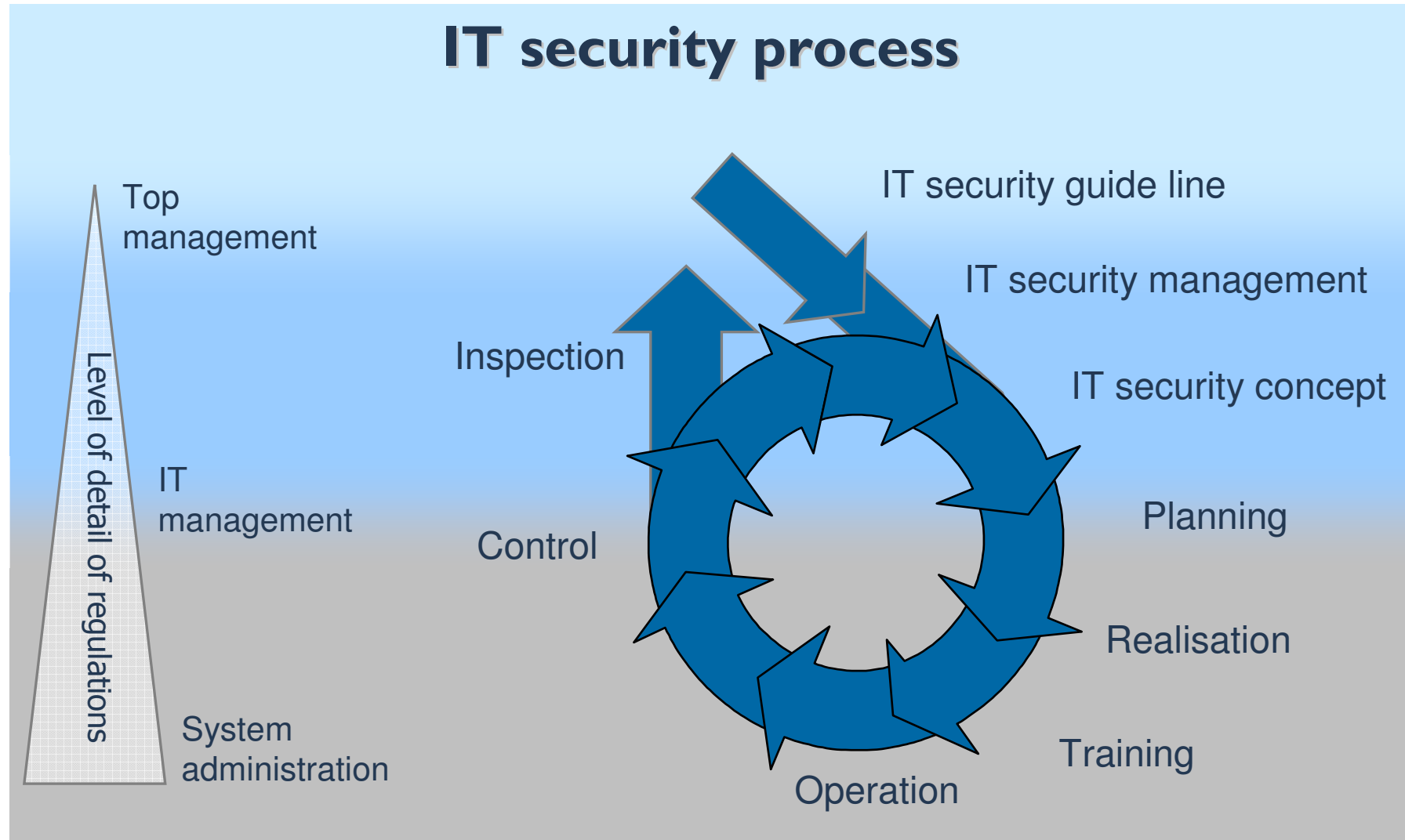
# Model guide lines & example concepts

## Structure of a security concept





# IT security process





## If you answer one of these questions with “YES“ ...

- Would you like to know, if the already realised security measures are still sufficient?
- Is everything arranged so that no grave case of loss can happen and that it can be reacted correctly to security events?
- Do you need some help in the establishment of an IT security concept?
- Would you like to have a systematic support for a check of existing or planned security measures?
- Are you looking for concerted personal, organisational, infrastructural and technical security measures for specified IT systems?

**... then you should contact us!**





## Contact!

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