

# UNIT – 15 – „Global Risks“

❑ ISP/TSM „own / inherent“ potential cyber resilience capabilities --- 0 ---

➤ **General Points:** → it is not a single task to deal with if you want to improve your “**Cyber Resilience**” capabilities .

Besides other aspects it includes “management- / staff awareness”, some kind of strategy, an involvement of all technical SW& HW & organisational levels → & some kind of “*nondogmatic common sense*” *can / will / should also help*)

→ so in other words a **holistic company approach** is needed.

 The following four foils will show as an overview some specific potential ISP /TSM capabilities / possibilities

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## ❑ ISP/TSM „own / inherent“ potential cyber resilience capabilities --- 1 ---

### ➤ **Specific ISP/TSM possibilities**

- Make use of **enhanced password / lock rules** (available since 8.1.16) .
- Think about using **command approval** feature for restricted administrative commands.
- Use ISP/TSM **DRM (Disaster Recovery Management)** feature in combination with “Air Gap” tape robot (or similar - e.g. immutable storage) implementation.
- Establish **immediate E-Mail initiation / sending** based on potential **ACTLOG** Message(s).

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- ❑ **ISP/TSM „own / inherent“ potential cyber resilience capabilities --- 2 ---**
  - **Specific ISP/TSM possibilities ...**
    - **Organize backup data & according storage pools for potential fast restores** (& document & test) -- Think about using the **3.2.1 rule** (**three** data copies / **two** different media / **one** copy offsite) for critical data.
    - Envisage **different backup techniques** for faster restores.
    - If **CVEs** (**C**ommon **V**ulnerability **E**xposures) are addressed in new ISP/TSM versions, **plan for upgrades in a “timely manner”**.
    - If **external consultants** are involved, document their ISP / TSM activities with specific **OC** (**O**peration **C**enter) reports.

# UNIT – 15 – „Global Risks“

## ❑ ISP/TSM „own / inherent“ potential cyber resilience capabilities --- 3 ---

### ➤ Specific ISP/TSM possibilities ...

- Use **MFA** (**M**ulti **F**actor **A**uthentication) for interactive ISP/TSM Server sessions.
  - ✓ Create & exchange “**Secret Keys**” and use security app capable of providing an **TOTP** (**T**ime-based **O**ne-**T**ime **P**asscode / **P**assword)
- If feasible, use **Data Replication** to one or two other ISP/TSM servers.

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## ❑ ISP/TSM „own / inherent“ potential cyber resilience capabilities --- 4 ---

### ➤ Specific ISP/TSM possibilities ...

#### ○ Potential encryption possibilities of “data at rest” / “data in use” & “data in transit” for:

✓ local Directory Container Storage Pools.

✓ DATA transfer between ISP / TSM servers.

✓ DATA transfer between an ISP / TSM server and a BA client.

✓ the **Db2** database.

✓ **BA client** side.

○ **And more.....**