PTS - new regulation on security measures



NETNOD SPRING MEETING 2016 Karin Lodin



Background

- Recommendations since 2007.
- Society is increasingly dependent on functioning services + number of users is increasing + number of significant interruptions is not decreasing →

need for stricter regulation.



Three main causes of incidents

• Power outages

• Cable cuts

• Faults relating to change management, configurations





- Provisions concerning the technical and organisational measures that network and service providers shall take.
- Derives from EU regulation.





Provisions

- Three categories of provisions:
- 1. General provisions for all providers
- 2. Provisions for providers with knowledge of the number of active access points (*i.e.* not dark fiber providers etc.)
- 3. Provision for mobile network and service providers



1. General provisions

- Security organisation (3)
- Documentation of assets and connections (4)
- Risk- and impact analysis (5-6)
- Incident management (7)
- Business continuity planning (8)
- Measures related to access and authorisation (13)
- Measures related to surveillance and preparedness (14)





Measures following risk assessment

- Physical and logical intrusion and other external impact (10)
- Weather related threats (11)
- Planned changes (tests and restoration plan) (12)

• + Any additional measure necessary (9)





2. Specific provisions – providers with knowledge of the number of active access points

• Classification of assets (15)

A	≥ 200 000
В	≥30 000
С	≥ 8000
D	≥ 2000
E	> 0





Two important definitions

 Asset; means a function consisting of a delimited part of a communications network or communications service and which is necessary to provide such a network or service, and which is used to transmit, receive, process or store information

 Active access point; means point of access to a communications network or communications service that allows immediate use of communications services



Redundancy – assets (16-18)

- The provider shall, through redundant assets, ensure that assets in classes A and B which cease to function do not cause disturbance or interruption to a communications service.
- Class C → through redundant assets or redundant critical components.
- Class D → critical components in an asset in class D, which cease to function may not cause disturbance or interruption to a communications services that exceeds 12 hours (weekdays) and 18 hours (at other times).



Redundancy – connections (19-20)

- Redundant connections between all assets within and between the classes A, B and C
- Redundant connections between all assets within and between classes A and B must be appropriately separated geographically.
- Connections between an asset in class D and an asset in the classes A, B and C, which ceases to function may not cause disturbance to a service that exceeds 12 hours (weekdays) and 18 hours (at other times).



Backup power (21)

The provider shall with backup power systems ensure:

- 24 hours for assets in classes A and B;
- 8 hours for assets in class C in urban areas (with more than 8000 inhabitants);
- 12 hours for assets in class C in other areas;
- 2 hours for assets in class D in urban areas , and
- 4 hours for assets in class D in other areas.
- Requirements regarding testing and processes



3. Requirement for providers of mobile networks and services (22)

- Mobile base stations in cities (>8000 inhabitants.)
 - 1 h
 - Outdoor coverage
- Other areas
 - 4 h
 - Outdoor coverage
- The number of frequencies can be reduced as long as coverage is maintained



Exemptions (23)

- PTS may grant exemptions from redundancy and backup power requirements, if:
 - 1. inappropriate in relation to the positive impact
 - 2. other regulation prevents measure
 - 3. inappropriate in relation to assets/connections that will be removed

• The provider must take alternative measures to limit the effects of the prescribed measure not taken.



Enters into force on...

 June 10, 2020 for provisions relating to redundancy or backup power, unless there are changes made to the assets or backup power systems.

• January 1, 2016 otherwise.



The actual regulation...

...may be found at pts.se

as well as

our plan for upcoming supervision of the regulation.





Regulation on art4 (e-Privacy)

• Similar regulation on security measures relating to the protection of processed data.



Thank you!

• Any questions?

• karin.lodin@pts.se



