

# Education and exercise

- to support the capacity of crises management in the sector

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# ***The National Exercise Strategy for the electronic communications sector***

	Individual	Company	Sector
Education			
Individual crises management	X		
Crises planning		X	
Seminaries			X
Exercise			
Table-top exercises		X	
Exercises for the sector			X

# Exercises for the sector

- Previous exercises
  - SAMVETE 2005 (May 2005)
  - Telö 07 (May 2007)
- Next exercise
  - Telö 09 (May 2009)

# The objective for the exercises

The overall objective for the exercises are that each participating actor after the exercise should have strengthen its capability in co-operation to handle severe disruptions and extensive interruptions.

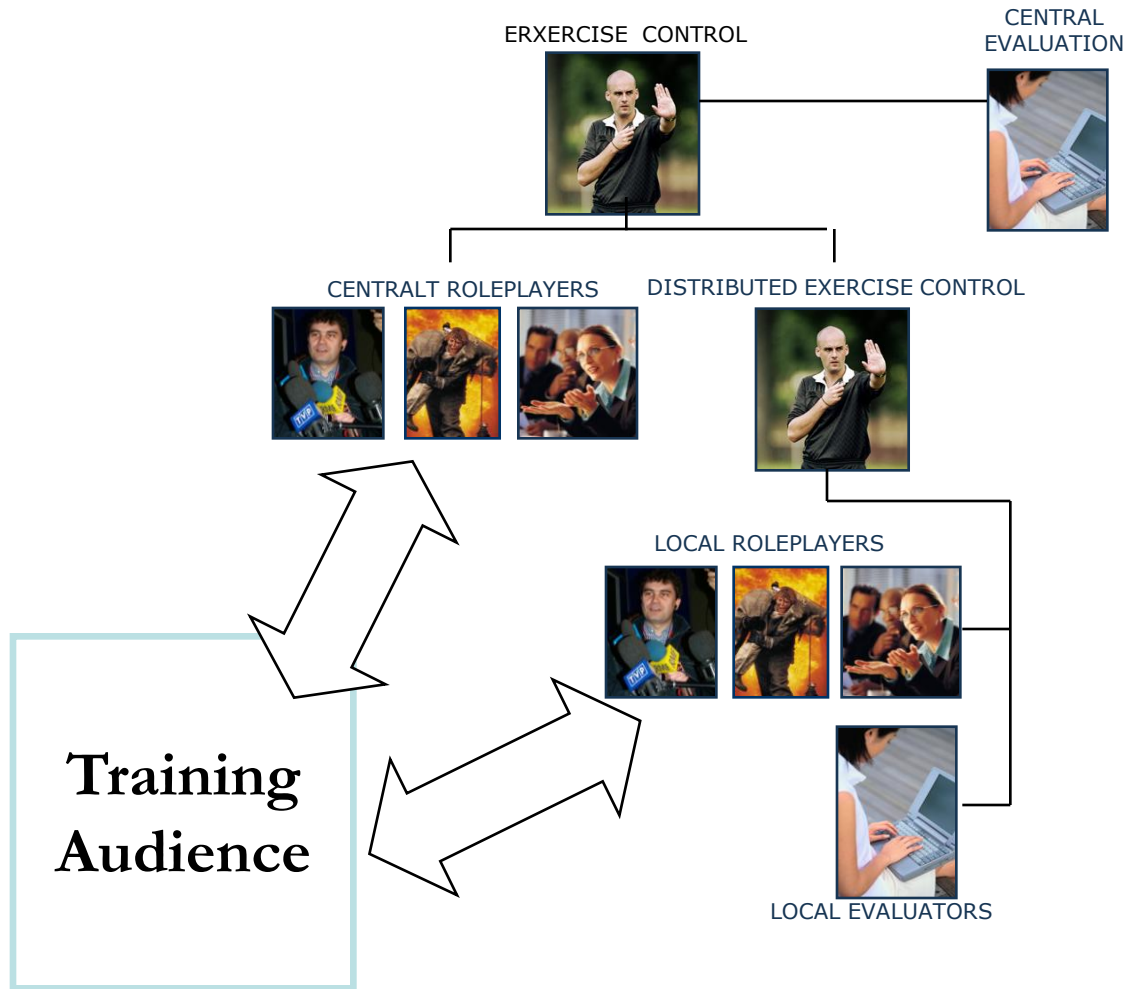
# Why exercises?

- The society is dependent on electronic communication and demands the electronic communications sector to be “Always on”.
- Each operator can handle interruptions up to a certain level. Above this level a co-operation is needed with other operators.
- Exercises are the basis for co-operation in a crisis.
- There is a need for more exercises and the sector says in their evaluations of previous exercises that once every two years is the right intervals

# Telö 07

- The largest exercise in the electronic communications sector in Sweden so far
- All major telecom operators and a number of other important organizations participated
  - About 200 participants (distributed exercise, the participants at their normal or crisis management facilities)
  - Students from a journalist university to create media pressure
- The Swedish Post and Telecom Agency hosted the exercise.

# Exercise Organization



# Communication during an exercise

- Communications used are the ordinary ones (phone, e-mail, fax e t c)
- The web-newspaper “*Dagens Notiser*” is published
- Live radio broadcastings over the web
- MIMER-P for telecommunication disruptions ([situation awareness](#), [and here](#))
- SUSIE for power supply disruptions (situation awareness)
- Use of an system for exercise control management (scenario management etc.)
- Contingency alternatives are available at all local Exercise Controls.



# Education in Individual crises management

- The course is divided into three separate occasions
- 3 x 3 days
- The educational courses are held at different places in Sweden
- Course fee is sponsored by PTS
- In co-operation with the power supply sector

# Company (operator) adapted education and exercise

- First day – theoretical and practical going-over the continuities- och crises management plans
- Second day – a table-top exercise
- The education och exercise are designed to suit the actual company before realization

# Education on sector level

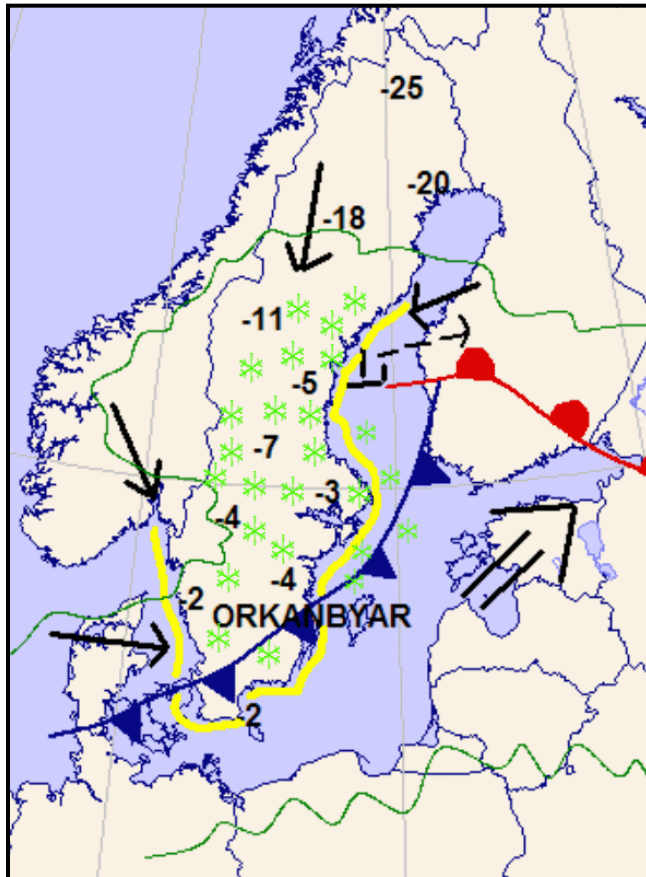
- Workshops with Telecom and Power supply operator
- Workshops with other authorities to discuss how to co-operate in crises situations

# The scenario for Telö 07

- The scenario was based on a very severe weather disruption (storm – hurricane) causing extensive disruptions in the power supply on the regional and local grids as well as severe damages in the telephone network.

Fictive dates when the scenario occurs was February 6 - 7.

# The weather forecast



The scenario background of the exercise was a **severe storm**. A **deep low pressure** had slowly moved eastward over the midst of Scandinavia. **Winds up to 35 meters per second** had been measured on several locations on the western and eastern coasts and in mid Sweden. **Heavy snowfall**, up to 50 cm, over central part of Southern Sweden, on the Eastern coast and in Central Sweden. At the start of the exercise, the storm had passed Sweden.

# Severe Power Disruptions

- Severe power disruptions on the regional and local power grids in southern Sweden. Many blackouts did occur in mid Sweden due to the weather situation.
- During Telö 07 the web-based information sharing system SUSIE was used to distribute information about the power situation.

# Disruptions on telecommunications

- The weather has caused extensive damages on the local access network in larger parts of Sweden.
- When the exercise started the overall situation was not clear to the participators.
- Severe disruptions on the GSM and 3G network.
- Use of the Internet was limited, mostly due to power failure and damages on the local access network.
- Six of the operators used MIMER-P in this exercise (for information exchange and situation awareness)