

Protection critical infrastructure of APEC Member economies from cyberterrorism



Cyberterrorism

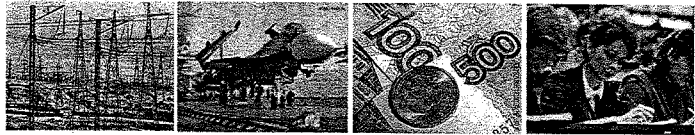
It is used by terrorist groups of computers, automation and telecommunications systems, software and information management for the decommissioning of critical components of national infrastructure, as well as the use of cyberspace for the implementation and promotion of its activities



Subjects of cyberthreats

Automated systems management of critical infrastructure:

- energy
- transport
- finances
- education



Automated control systems of potentially hazardous objects:

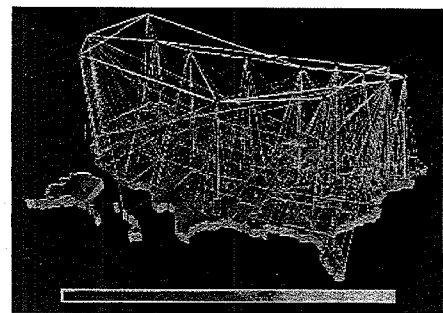
- Objects of processing and storage of chemically dangerous wastes
- Objects on extraction, processing and storage of radioactive substances

Automated systems for managing objects of life-support:

- Heat and water supply
- Food maintenance
- Medical maintenance

- ФИНАНСЫ
- ОБРАЗОВАНИЕ

The Internet, TV, radio



Main types cyberthreats

Computer attacks with using various virus and spyware

Using the world's public and social networks for the planning, preparation or perpetration of terrorist acts

Distribution in the open and social networks world of fake unaudited data

The insider's action (Change of a code, functionality, information fund of the automated systems)

The using illegal copies or duplicates of information resources in order to divert data

The information and network-centric war in world network

Increasing the network highways traffic

DDos attacks, phishing, spoofing, Botnet

Consequences of the cyberthreats

Critical objects of Economy

Disruption of the financial and banking system
 disruption of the transport system (the collapse of the trains, planes),
 violation of the energy system (the accident at the power plant, nuclear power)

Potentially dangerous objects

- Radiating infection
- Chemical infection
- Catastrophic flooding
- Fires
- Explosions



Internet, TV, radio

•Promoting terrorist organizations
 information and psychological impact on the population

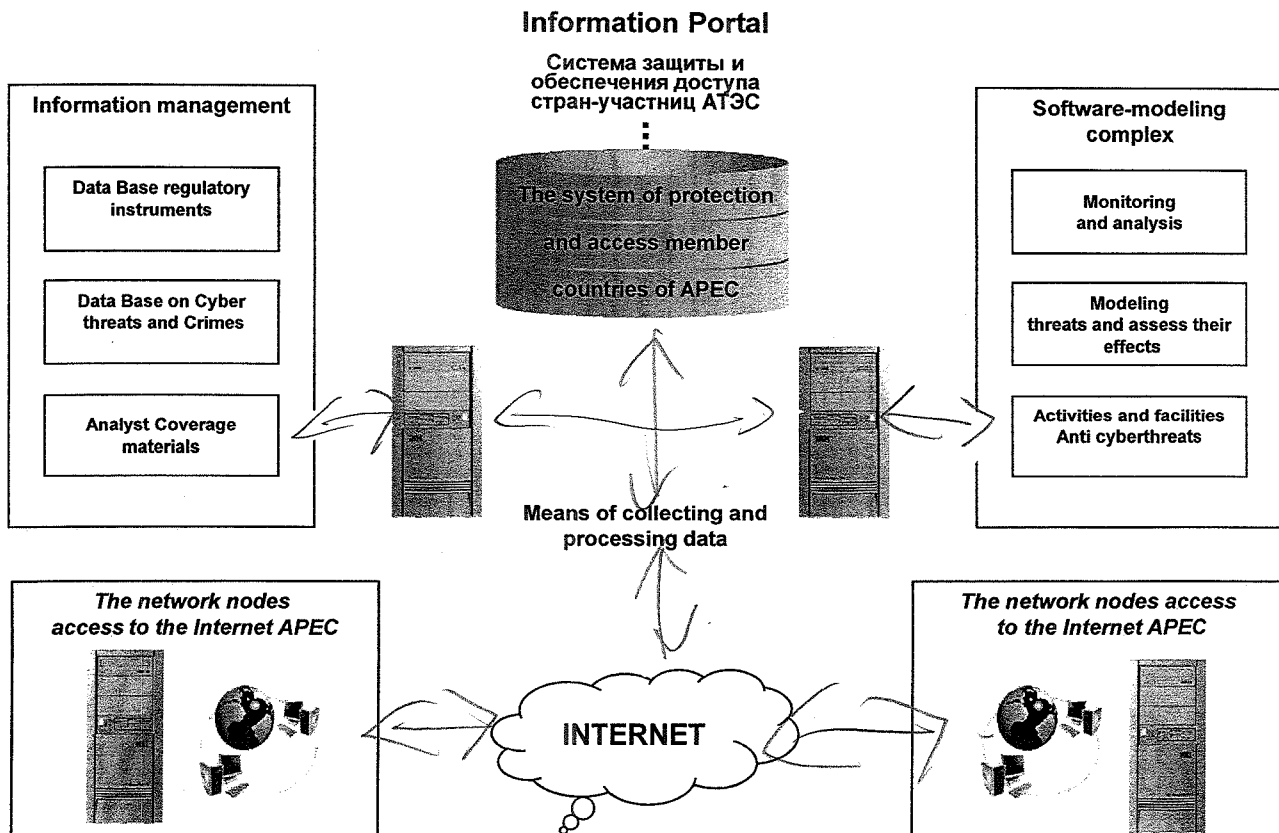
•Disruption of the Internet, TV, radio.

Life support systems

•Disruption of the public water supply,
 contamination of water
 disruption of clinics, vital medical equipment

• A power outage

Territorial-distributed portal of the APEC Membes economies



Situation-modeling complex

- **Monitoring of factors that determine the terrorist threat in the area of cyber threats**
- **Automated collection, systematization and unified classification information**
- **Analytical processing of information in different sections of information**
- **Multivariate classification and typology of regions of the world in terms of cyber threats**
- **Simulations of terrorist actions in cyberspace**
- **Evaluation of cyber threats and their implications for the critical infrastructure of the economy**
- **Information support for a joint response to the threat of cyberterrorism**
- **Presentation and display information via Geo Information Systems**

Training seminar on the problems of cyberterrorism

- **Trends, challenges and threats of terrorism and extremism in the world**
- **Threats in the sphere of high technologies, information systems economic management**
- **Threats of information security on the Internet. Goals, objectives and means of**
- **Problems of protection of critical facilities information and economic infrastructure**
- **The main directions of development of situation-modeling complex to counter cyber terrorism in the economy**
- **Organization of monitoring information on Cybercrime in the international information space**
- **The main directions of a system of situational modeling and forecasting of cyber threats in the sphere of economy**
- **Composition and structure of an information portal for fund cybersecurity**
- **The forms and formats for international exchange information within the information portal for cybersecurity**