



**LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG**  
Ministère d'État  
Centre de Communications du Gouvernement

**Luxembourg IPv6 Council**  
**International conference on**  
**FUTURE TRENDS OF THE**  
**INTERNET (01/27/2009)**

LtCol Carlo SIMON

Head Centre de Communications du Gouvernement

Chairman CONATEL

# Centre de Communications du Gouvernement (CCG)

- Missions (excerpt):
  - Operate Classified networks
  - Security Authority for classified and critical computer and communication networks (proposed)

## ● **National Crisis Center**

- Governmental PABX and mobile clients

# CONATEL

- Missions (excerpt):
  - Routine:
    - Inventory of requirements and capacities
    - Utilization and recovery plans
    - Exercises
  - Crisis
    - Coordinates and supervises the implementation of plans
    - Defines priorities

# Study of 2003/2004

- Scope: National
- Inventory of requirements
  - Inventory of capacities
  - Concept
  - Proposition
- Methodology

# Scenario

**Localisation des antennes :**

GSM     UMTS     P.T.T.  
 DCS     GSM-R

Tous les opérateurs

EPT    ORANGE    TANGO  
VOX    CFL    RIFO

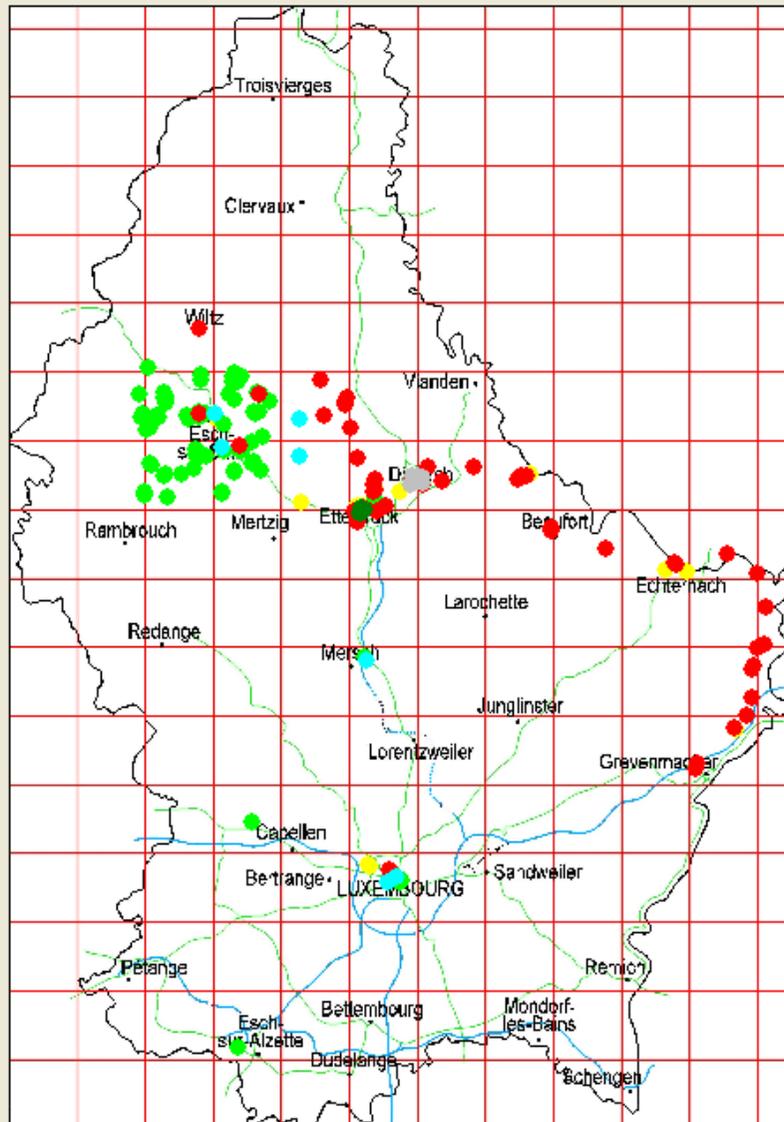
4 Antennes

Operateur	N° Antenn	Technologie
EPT	47	GSM
EPT	87	GSM
EPT	129	GSM
TANGO	131	GSM

Retour  
Fermer

# Requirements (example)

## LOCALISATIONS DES TASK FORCES

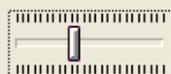


*Barrage d'Esch-sur-Sûre*

*Phase : Phase 3 : Fissure du mur*

Toutes

	TF Protection Civile
	TF Police
	TF Pompiers
	TF Douane
	TF Armee
	TF Santé
	TF Pompiers VDL



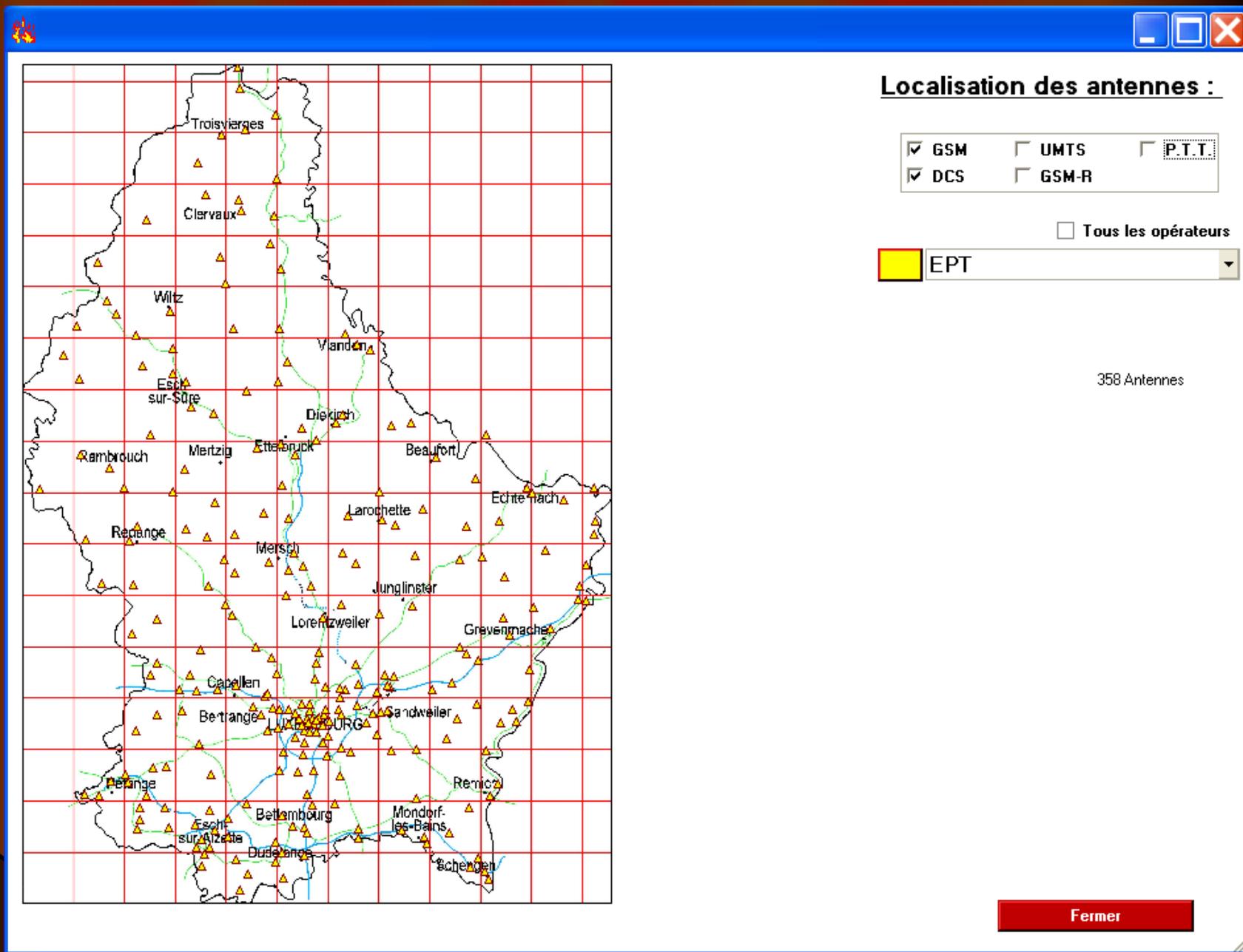
Zoom

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Imprimer

FERMER

# Capacities (example)





# Study 2003/2004

## Lessons learned:

- **Crises management is dependant on commercial capacities, even in presence of robust government owned networks!**

# The vision of U2010

- **Provide the most capable communication tools and the most effective access to information to all required to swiftly act in case of accident, incident, catastrophe or crisis, while using existing and/or future (tele)communication infrastructures**

# U2010 and the missions of CONATEL and CCG

- Inventory of users
- Inventory of capacities
- Real time reporting and management
- Simulations and corrective action
- Legal framework
- Forensics and planning process

# Inventory of users

- All PSC communication end users in national inventory
  - Inventory structured accordingly to governmental organization (update responsibilities)
  - Personnel; headquarters; sensors; activators
  - Time dependant (duty plans)
  - Scenario dependant (preplanned incidents)
  - Real-time updated (control loop) and managed

# Inventory of capacities

- All relevant networks considered
  - Government owned and commercial
- All relevant technologies considered
  - **POTS; GSM/UMTS; TETRA; WIFI; WIMAX and Satcom**
- Real time monitoring
- Real time management (Priorities)

# Real time reporting and management

- Users:

- Personnel: Availability; localization; group and taskforce management; access to information
- Sensors: Status; information distribution;
- Activators: Status; access control

- Capacities

- Priority activation
- Use of Satcom capacities
- Actual network capacity and load

# Simulations and corrective action

- Database to be reused for:
  - Simulations in training activities
  - Simulations in crises to generate data for decisions to be implemented

# Legal framework

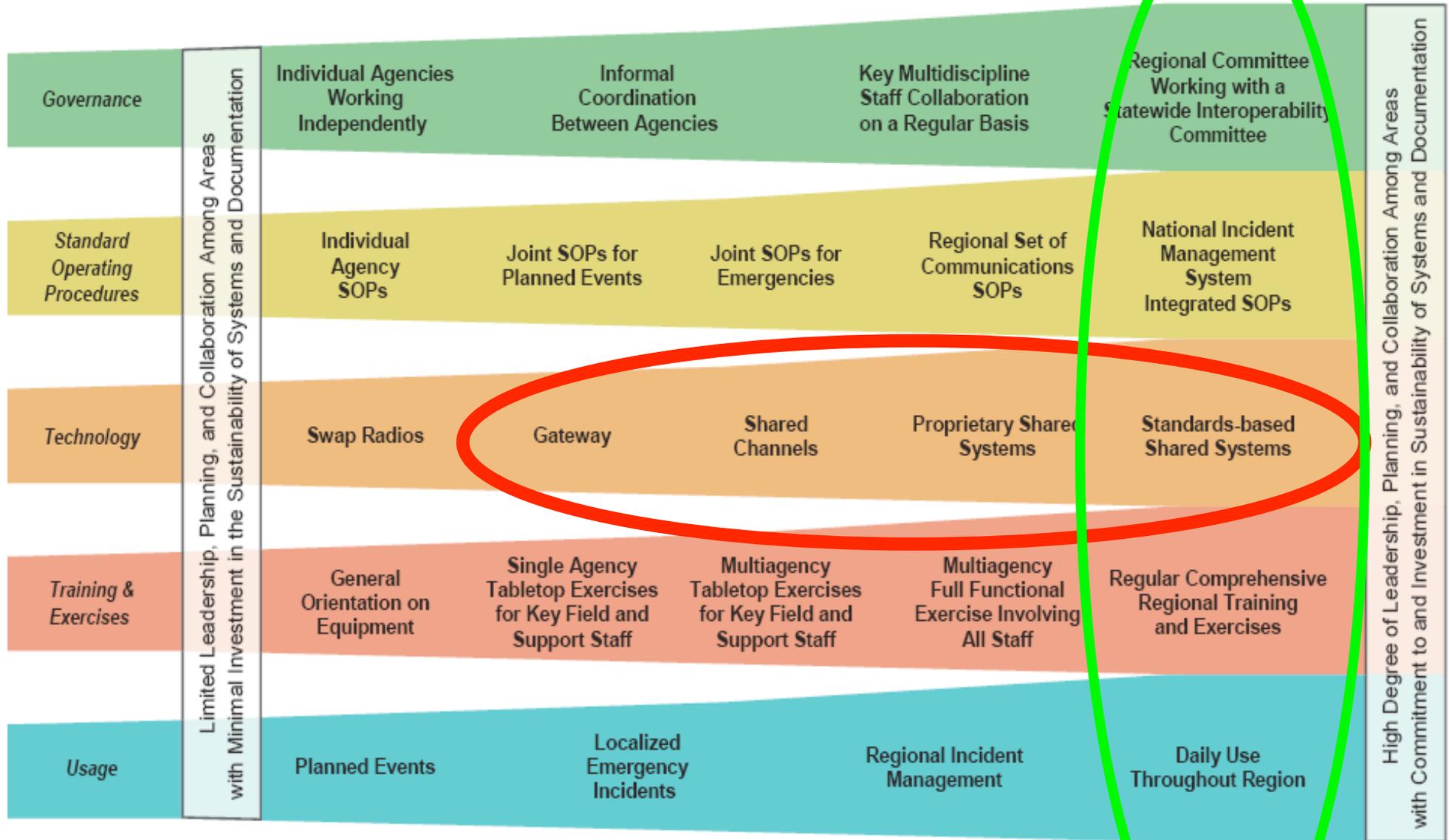
- Important component of general crises management
  - Regulatory elements of electronic communication to be backed up by general framework
- To be considered:
  - Liberalized market
  - International issues (Satcom)
  - Privacy issues

# Forensics and planning process

- Database to be reused for:
  - Forensics
  - Lessons learned
    - Electronic communications specific
    - General crisis management
  - Simulations in planning scenarios
  - Definition of scenarios
    - Preplanned elements (ex: taskforces)

# Additional characteristics of expected solution

- **Scalability**
- Flexibility
- Continuity
  - Redundancy
- **Future proof**



Minimal Level



Interoperability Continuum

Optimal Level

Thank you for the attention

Questions?

Answer:

**IPv6**