

# ELS – regional distributed integrated command and control system

Decision support system for emergency and other event service



## Analyze of situation. Precondition of project

### To day:



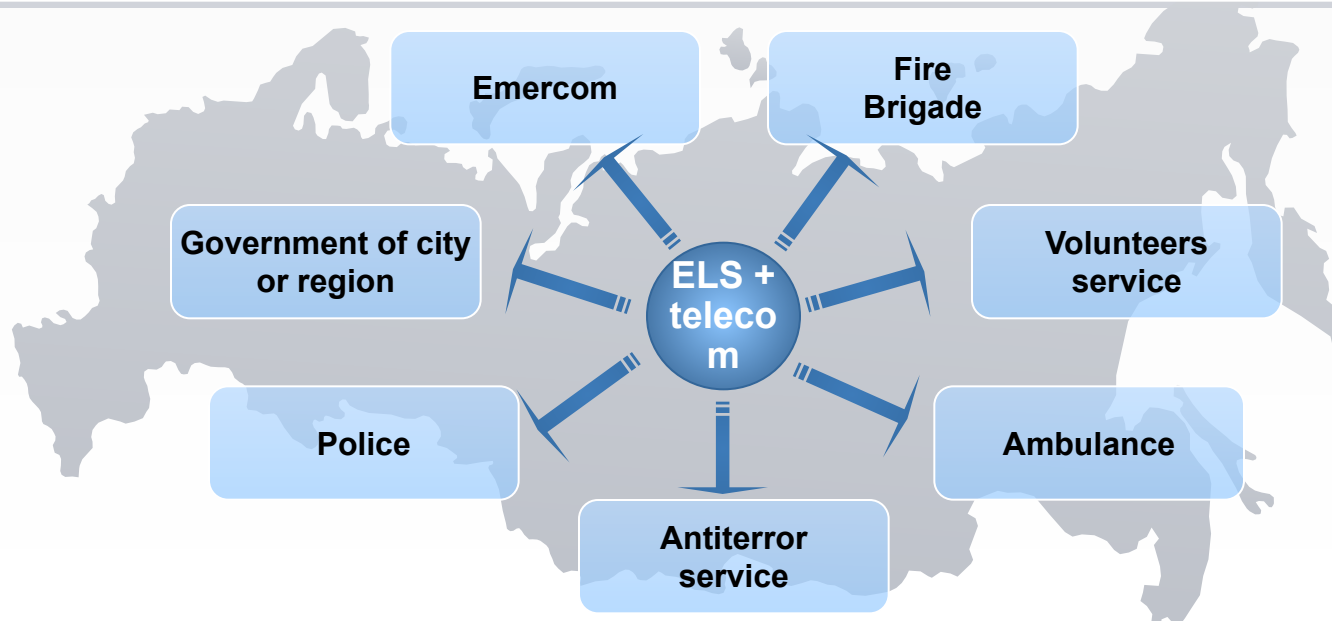
- Uncoordinated systems in different duty offices (FB, Police, Ambulance, etc...)
- Absence of integration on base of modern technology solutions
- Inefficient control of process and situation on base of manual regime :
  - old technology
  - Non optimal process control
  - Non scalable systems
- Absence of united emergency telephony number (as 112)

### Target:



- United reliable, integrated, scalable, multiuser solution
- Jointless integration with innovation technology and maximal using of there advantages
- Quick response at the emergency, incidents and events
- Integration on the process level and monitoring of situation
- Flexible, effective resource dispatch
- United emergency telephony and incident service ( as 112)

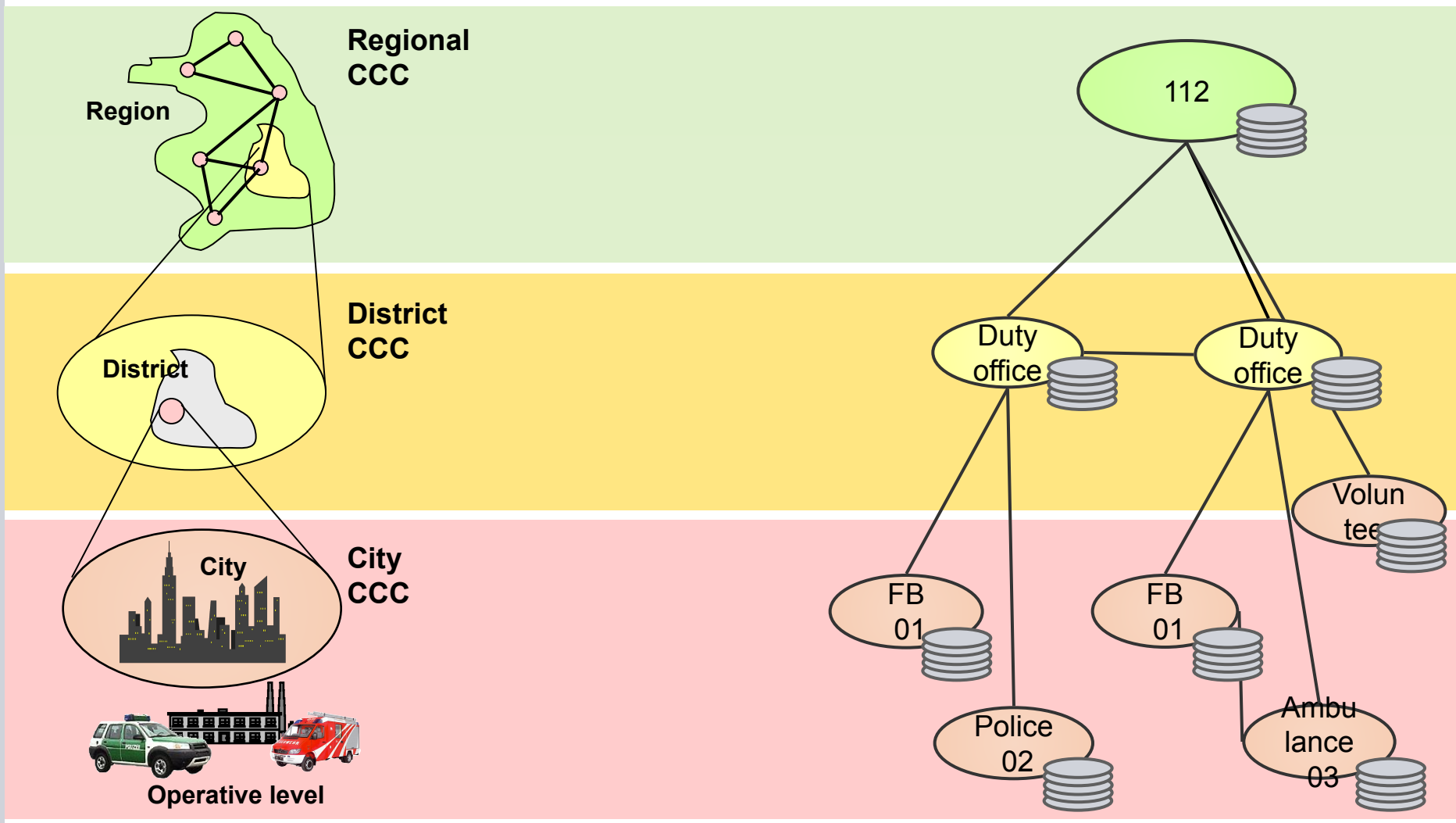
- Monitoring and operative control
- Minimization of damages and loses
- Effectiveness of distributed control different services on different level



## Making of precondition for effective solution:

- Using of integrity bus (ELS)
- Reliable and distributed telecom infrastructure
- Coordination and central control of special event services

## Structure of CCC system on base ELS



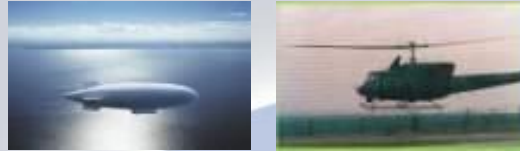


## Business Process of Integrated Solutions

FLIR Video



Airborne Video Surveillance



Vehicle Tracking



Traffic CCTV



Port & Sea Surveillance



Command & Decision Support



**Situational Awareness**

Activity status  
Surveillance  
Vehicle Tracking

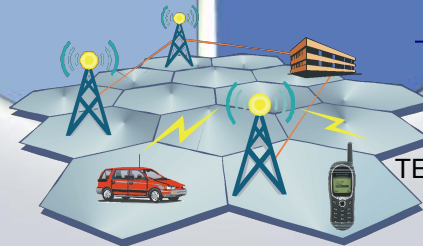
**Decision Making**

**Command & Control**



Planning and Analysis  
Prioritization  
Resource disposition  
Review

Communication  
Resource disposition  
Feedback coordination  
Incident Management



TETRA Network



Surveillance Locations



LAN / WAN Networks



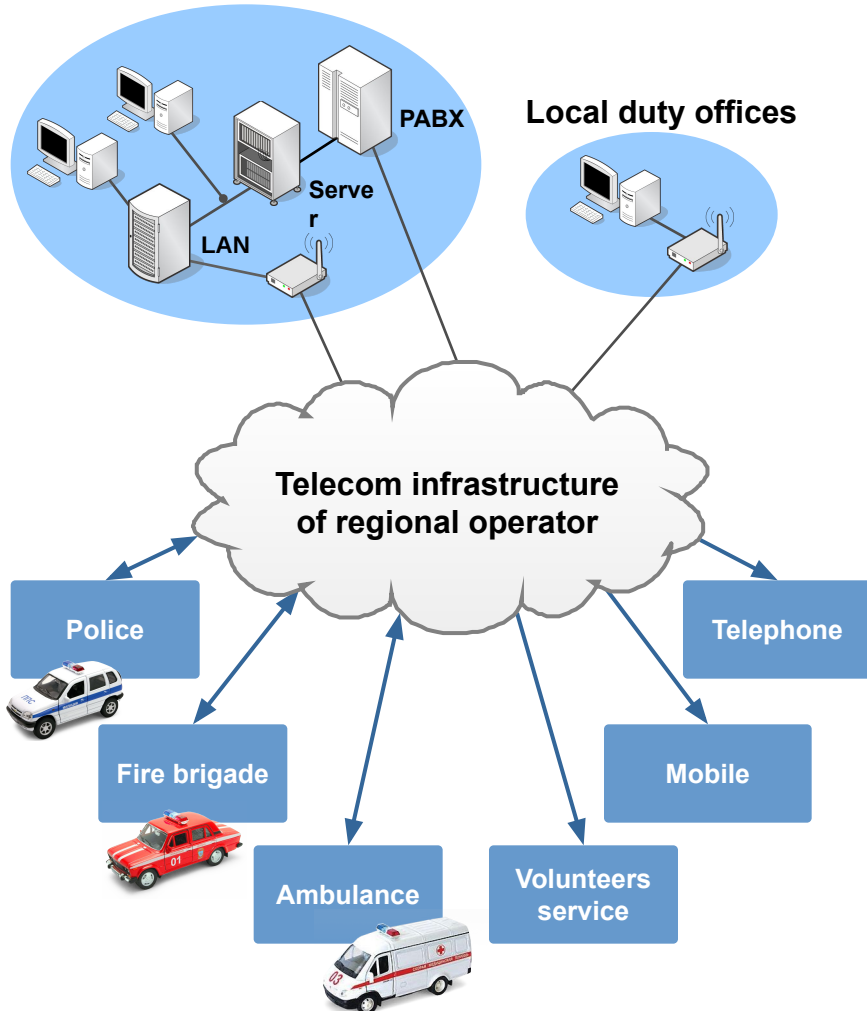
Mobile Command Center



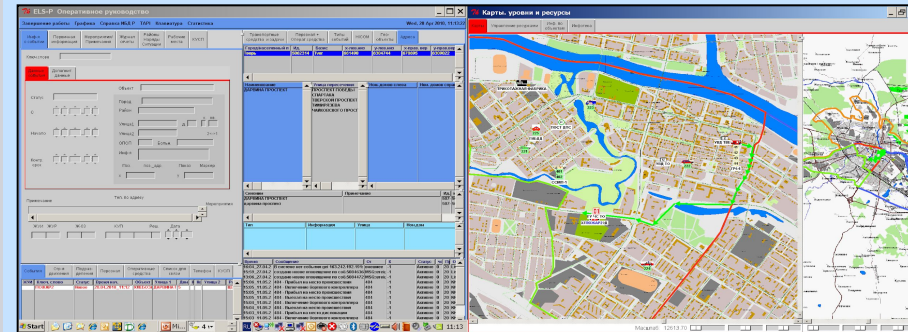
# IT + Telecom Infrastructure + ELS = platform for regional control for incidents and other situations



## Regional and city CCC



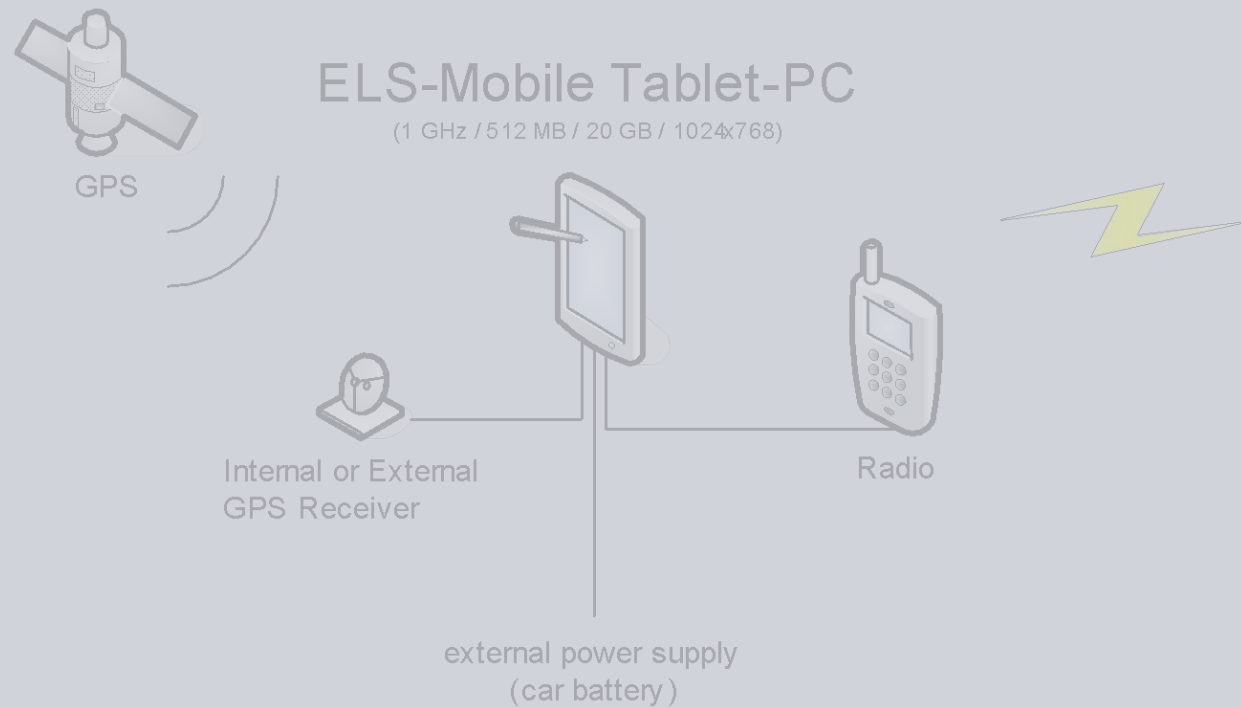
## Work place of ELS:



## Base functionality ELS:

- Call fixing
- Identification of situation
- Decision support of dispatching with GIS and knowledge base
- Distribution and centralization control
- Integration of subsystems in one interface: AVL, CCTV, CTI, special DB
- Reporting

## Message based communication to **ELS** (only text transmission and limited size)



# Integrated Security Solutions

## Customer Operational Benefits

**SIEMENS**

- Efficient and secure coverage of large areas
- Fast and reliable information, video stream & data sharing
- Common Operational picture & resource status
- Phased implementation ensuring minimal impact on current operations
- Totally integrated command, control, decision support & communication environment





# Integrated Command & Control

## Olympic games Athens 2004 Facts and Figures

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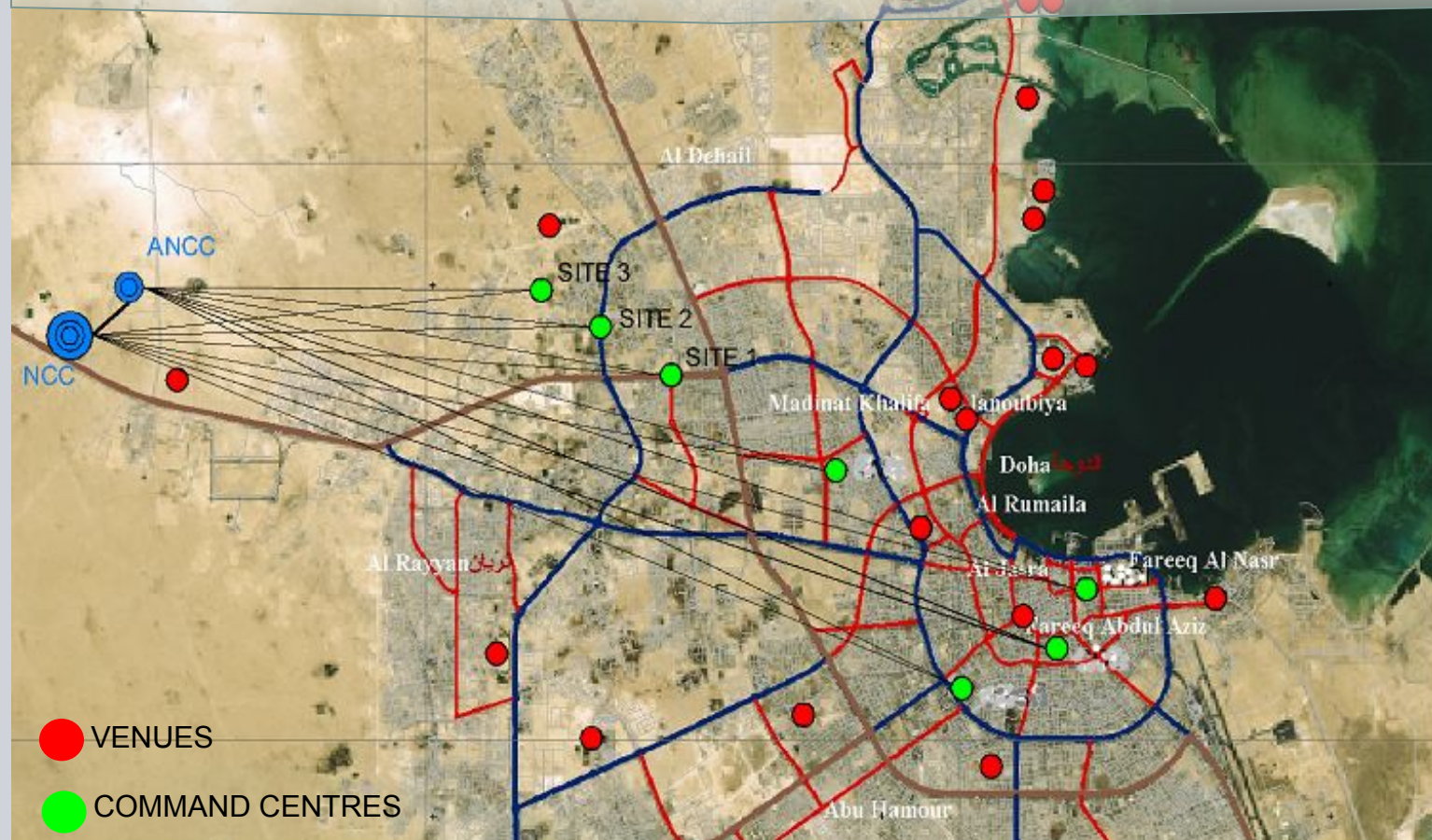
- Siemens developed a cohesive architecture to implement a thorough security system for the Olympic Games
- The timeframe for this entire project was only 12 months
- Tens of thousands of kilometers of cables were laid out
- 1,600 surveillance cameras were installed
- A TETRA network of 30,000 subscribers was implemented
- An AVL system of 6,000 vehicles was designed and installed
- 9 integrated license plate recognition systems were implemented
- 120 Olympic venues and 9 cities and ports throughout Greece had to be controlled around the clock
  - 24/7 technical support, training and transfer knowledge
  - Upgradeable cohesive system architecture



# Command, Control, Communication Computers and Information Systems for 15 Asian games

**SIEMENS**

DAGOC AWARDED SIEMENS THE CONTRACT FOR THE DESIGN, DEVELOPMENT, SUPPLY AND IMPLEMENTATION OF THE C4I and PS SYSTEMS FOR THE NATIONAL COMMAND CENTRE AND THE 15<sup>th</sup> ASIAN GAMES  
TOTAL VALUE: 105 mio €.





## Diploma of Russian Security Events

XIII МЕЖДУНАРОДНАЯ ВЫСТАВКА  
**INTERPOLITEX**  
 СРЕДСТВА ОБЕСПЕЧЕНИЯ БЕЗОПАСНОСТИ ГОСУДАРСТВА

# ДИПЛОМ

I степени

Награждается

ООО «Сименс»  
 в номинации  
 ЛУЧШЕЕ РЕШЕНИЕ В ОБЛАСТИ КОМПЛЕКСНЫХ СИСТЕМ БЕЗОПАСНОСТИ

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 по военно-техническому сотрудничеству

Международная акция "Национальная безопасность"®

# БЕЗОПАСНОСТЬ®

# ДИПЛОМ

Награждается

Компания "SIEMENS"

За разработку и внедрение информационной системы для дежурных частей ELS (EinsatzLeitSystem)

# "ИНТЕРПОЛИТЕХ®"

2000

*Алиев*  
 Председатель Оргкомитета Форума  
 10.11.2000

АЛЬНАЯ БЕЗОПАСНО

# DIPLOMA

is given to

COMPANY

**SIEMENS**  
**BUSINESS SERVICES**

for considerable contribution  
 to the process of reinforcing cooperation  
 in the field of technical equipment of the Law and Order authorities

Minister of the Interior of the Russian Federation  
*Гризов*  
 s Gryzlov

Federal Minister of the Interior of Germany  
*Otto Schily*  
 Otto Schily

RUSSIA  
 Saint-Petersburg  
 April 9-10 2001

## Reference Letter from OSCE (Bishkek)



Organisation for Security and Co-operation in Europe  
Centre in Bishkek

Date: October 6, 2006

Bishkek

Dear Sirs/Madam,

With this note OSCE Police Assistance Program in Kyrgyzstan would like to express it's thanks to TCS International LTD for successful completion of project "Call Center 102" for Bishkek Police Department in 2005. Decisions on software provision and telecommunication equipment allowed creation of reliable technical package of information and communication for Ministry of Interior of Kyrgyz Republic. Thanks to timely technical support during the warranty period all established equipments are working well and smoothly.

We hope for cooperation in our future projects, implemented in Kyrgyzstan.

Evgeny Cherenkov

Programme Manager  
OSCE Center in Bishkek



TCS INTERNATIONAL LTD.  
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TECHNOLOGIES AND COMMUNICATION SYSTEMS INTERNATIONAL LTD.

25 февраля 2008

Вице-президенту  
ООО «Сименс» и директору  
департамента «Сименс Айти  
Солюшенс энд Сервисез»  
г-ну Марко Бурхарду

Уважаемый господин Марко Бурхард.

В 2005 году в г. Бишкек при непосредственном участии Siemens Business Services в дежурной части ГУВД г. Бишкек были проведены работы по внедрению Системы поддержки принятия решения сотрудниками службы 102 (ELS). Проект выполнялся в рамках переоснащения ГУВД г. Бишкек (Кыргызстан) по программе ОБСЕ. В течение 2-х лет Система эксплуатируется успешно и получает хорошие отзывы со стороны ГУВД. В настоящее время представительство ОБСЕ рассматривает вопрос о расширении количества рабочих мест в Системе. Поэтому мы просим дать ваши коммерческие предложения для закупки дополнительно 2-х лицензий.

Кроме того, просим оказать поддержку для продвижения стратегии переоснащения дежурной части УВД в г. Ош силами сотрудников подразделения системной интеграции.

С уважением,

Генеральный директор  
TCS International LTD.

Чикаев А.Г.



**Presentation of Solutions e-Call ERA GLONASS  
on base ELS for Deputy of Russian Emercom  
4.05.2011**

**SIEMENS**





# Presentation of Solutions eCall ERA GLONASS on base ELS 4.05.2011

**SIEMENS**

