



Sigma-IS Ltd.
Integrated Security Systems

Company Profile

Advantage through Technology

Moscow 2011

Sigma-IS Ltd. – Brief overview

- Founded in **1992**
- Image and Video Processing since **1995**
- 170 employees
- Head office in Moscow, branches in
 - Saint-Petersburg
 - Vladimir
 - Voronezh
 - Rostov-na-Donu (Rostov-on-the-Don)
- Development areas:
 - Integrated safety and security systems
 - Real-time video and image processing hardware and software
- Research work:
 - Still image and video coding for security applications
 - New architectures of adaptive computing systems for digital signal processing (joint DSP-FPGA solutions)
 - Identification of a person using the individual specialties of voice wave propagation over human body



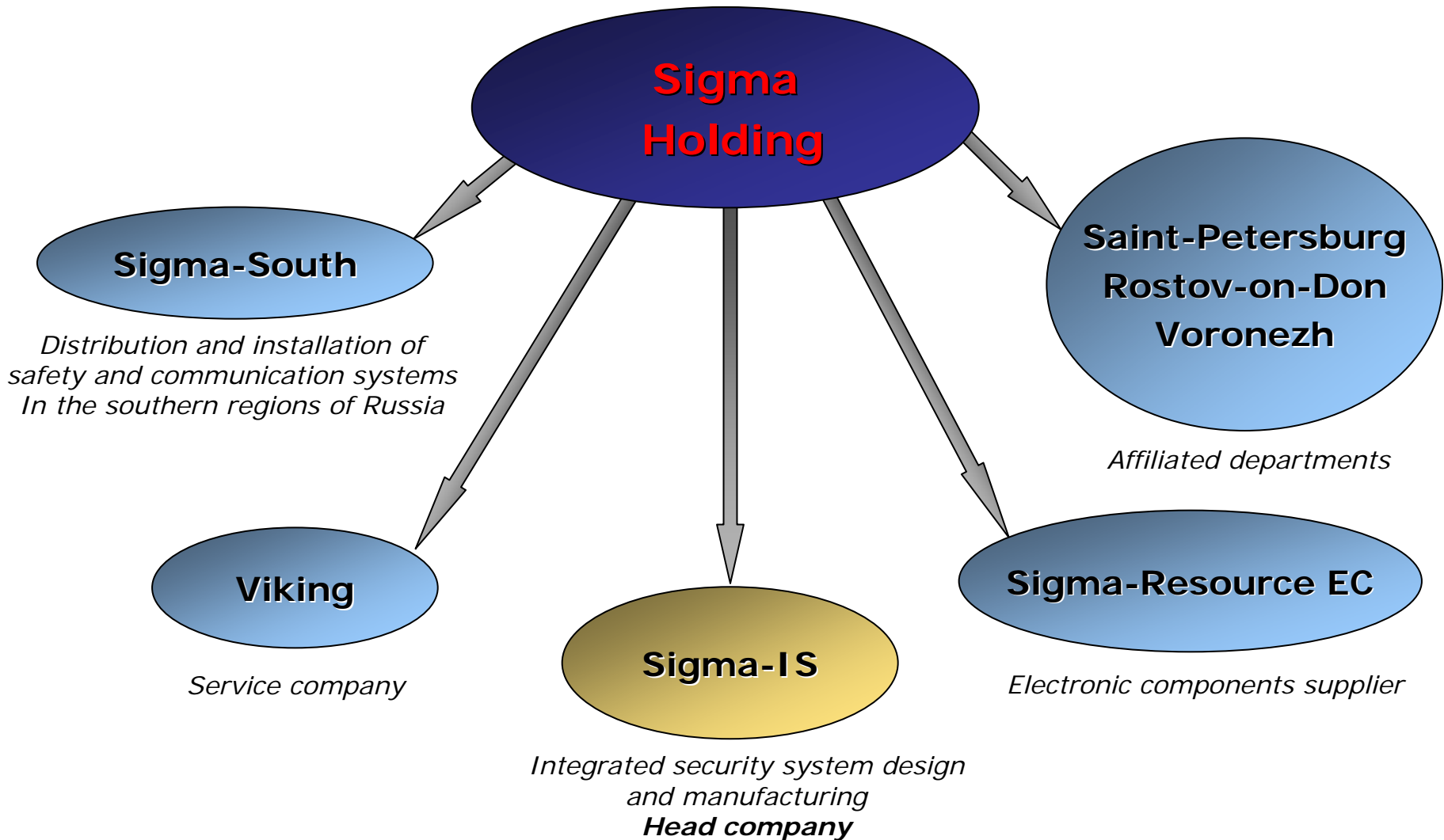
Sigma-IS Ltd. – Products and Services

- **Integrated security systems development**
 - Burglary alarm systems, including perimeter protection
 - Fire alarm and automated fire-fighting systems, including address fire smoke detectors
 - Access control systems, including biometrics solutions
 - video surveillance systems
 - Video and audio processing (video compression, motion detection, noise cancellation ...)
- **DSP- and FPGA-based multimedia processing solutions**
 - Embedded to security systems
 - Custom design
- **Software development**
 - For security systems
 - Custom designed software
- **Custom research**
 - Wavelet-based still image and video coding

DSP/FPGA

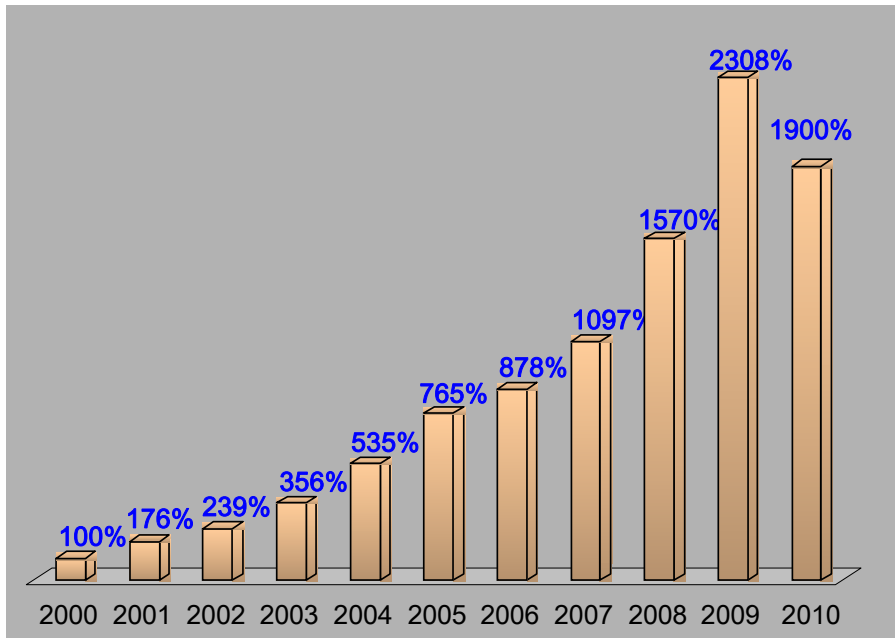


Sigma-IS Ltd. – Structure of our Holding



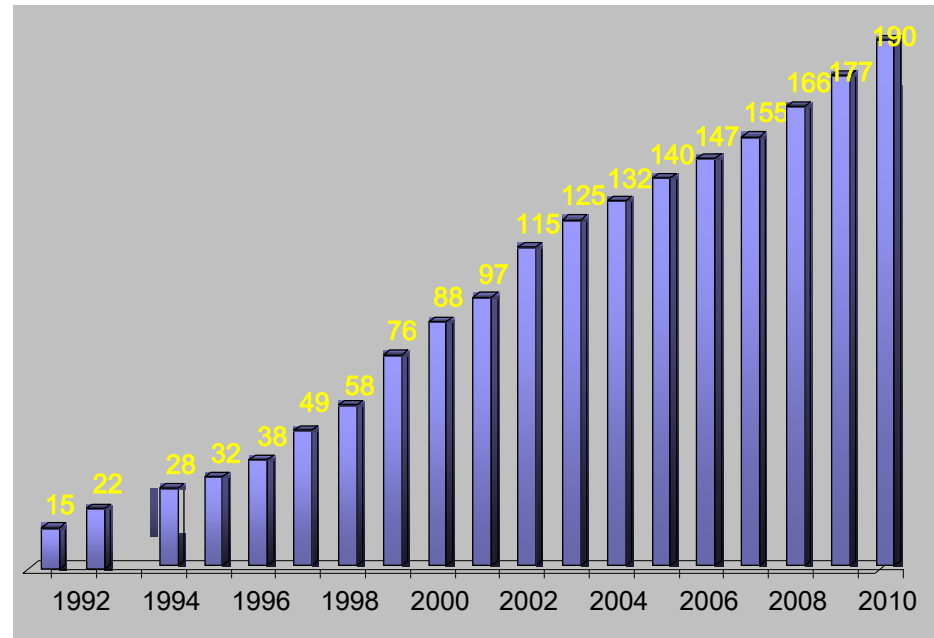
Sigma-IS Ltd. – Evolution

Turnover Growth



Product Diversity Growth

Quantity of product types



Last year turnover is more than € 15 mln.
An own building with area of 5500 m²

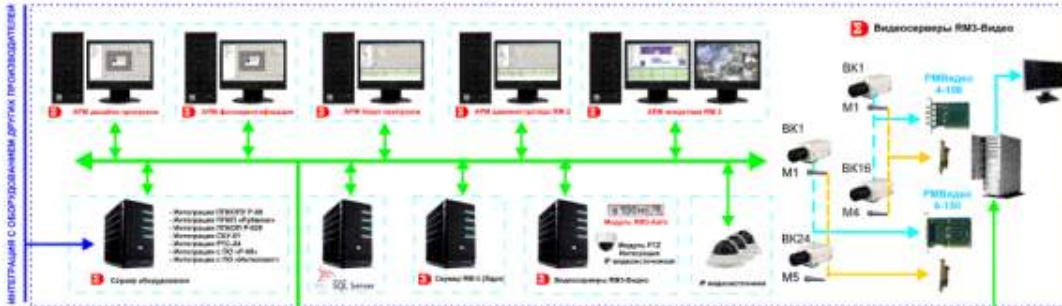


Sigma-IS Ltd. – Integrated Security System Rubezh

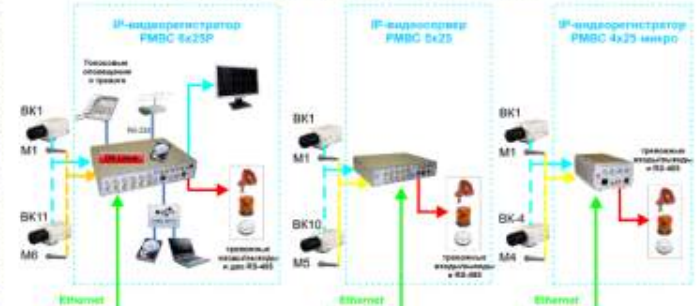


ИНТЕГРИРОВАННАЯ СИСТЕМА БЕЗОПАСНОСТИ РУБЕЖ

ПРОГРАММНАЯ ИНТЕГРАЦИОННАЯ ПЛАТФОРМА RM-3



ОБОРУДОВАНИЕ СИСТЕМ ВИДЕОНАБЛЮДЕНИЯ

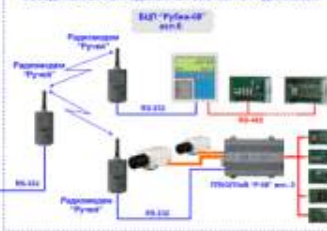


Ethernet

ПЛАТФОРМА P-08



ОБЪЕДИНЕНИЕ РАСПРЕДЕЛЕННЫХ СИСТЕМ ПО РАДИОКАНАЛУ



КОНТРОЛЬ УДАЛЕННЫХ ОБЪЕКТОВ ПО GSM-КАНАЛУ



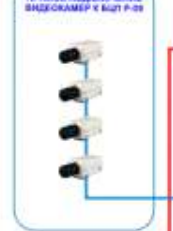
ИСТОЧНИК БЕСПЕРЕБОЙНОГО ПИТАНИЯ ДЛЯ ОПС И СКВ



ИНТЕГРАЦИЯ С ВСАДА СИСТЕМАМИ



ПРИМЕР ПОДКЛЮЧЕНИЯ ВИДЕОКАМЕР К БЦП P-08



ПЛАТФОРМА P-09



RS-485 до 256 сетевых устройств на один БЦП



Sigma-IS Ltd. – Rubicon

Rubicon

Address Security System

Integration Software Platform



Integrated
Security
System
Rubezh

FIRE

Call Point

RS-485
Indication Module

Ka2 Rubicon

ПОЖАР

RM-3

Control Panel
Rubicon

Isolation Module

PIR Detector

2-wire address loop
254 devices on loop

AR-5
5-input alarm
module

AR-mini
addressable
label

Output Module

Fire Smoke
Detector

Sigma-IS Ltd. – Products overview

RM3: Physical Security Information Management

The screenshot displays the Sigma-IS RM3 software interface. On the left, a tree view lists various camera locations such as '3-й этаж входа', 'К. 310', 'К. 301', '201', 'Архив', 'К. 311', 'Выезд на стоянку', 'Выездные ворота', 'Коридор 1-й этаж', 'Коридор Производства', 'Стоянка', 'Холл 1-й этаж', and 'Этаж1'. The central area features a grid of video feeds from different cameras, each with a timestamp and a 'NET' indicator. A large blue circular icon with a camera lens is overlaid on the video feeds. To the right, a floor plan shows a layout of rooms, with rooms 201 and 202 highlighted in blue. At the bottom, a table displays a list of events with columns for 'Дата и время', 'Объект', 'Событие', 'Статус', and 'Дополнительные параметры'.

Дата и время	Объект	Событие	Статус	Дополнительные параметры
21.01.2010 18:28:33	SANYA2008		Норма	Идентификатор окна: 63399684509...
21.01.2010 18:28:32	SANYA2008		Норма	Идентификатор окна: 63399684509...
21.01.2010 18:28:30	ONRANARM : БЦП №3137 : Улица 100 : Тревожный ШС	Восстановление оборудования ТС	Норма	
21.01.2010 18:28:30	ONRANARM : БЦП №3137 : Улица 100 : Ворота открыть	Восстановление оборудования ТС	Норма	
21.01.2010 18:28:30	ONRANARM : БЦП №3137 : Улица 100 : Тревожный ШС	Восстановление	Норма	
21.01.2010 18:28:30	ONRANARM : БЦП №3137 : Улица 100 : Ворота закрыть	Восстановление оборудования ТС	Норма	
21.01.2010 18:28:29	ONRANARM : БЦП №3137 : Улица 100 : Тревожный ШС	Неисправность оборудования ТС	Неисправности	
21.01.2010 18:28:29	ONRANARM : БЦП №3137 : Улица 100 : Ворота открыть	Неисправность оборудования ТС	Неисправности	
21.01.2010 18:28:29	ONRANARM : БЦП №3137 : Улица 100 : Ворота закрыть	Неисправность оборудования ТС	Неисправности	



Sigma-IS Ltd. – Products overview

Integrated security systems

Key products of “Rubezh” (means “Frontier”) series :

- “R-08” (the current version of integrated safety systems of “Rubezh” series):
 - Typical functions of safety systems are implemented
 - An extended set of control interface (Ethernet, RS-232, RS-485, radio channel)
 - Reserve radio channels for communication with host system
 - Supports “hot sparing”
- “R-09” (a software toolkit for embedded platforms that allows extending control and surveillance possibilities):
 - Supported operating systems: Windows CE (in future, Linux)
 - For “R-09”, RISC-based platform has been developed
 - Optional DSP/FPGA -based module for multimedia processing



More information on Rubezh series : www.sigma-is.ru



Sigma-IS Ltd. – Products overview

Software

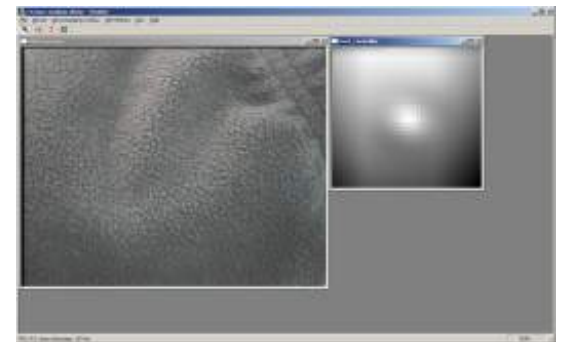
- **Security systems**

- Access control, including biometric systems
- Statistical data analysis
- Digital image and video processing: motion detection, behavior recognition, interactive video monitoring, etc.
- Digital signal and speech processing
- Specific software modules for digital signal processors



- **Custom designed software for**

- Specialized automatic control systems
- Speech processing (e.g., filtering, noise cancellation and synthesis)
- Texture processing systems



Sigma-IS Ltd. – Standardization activity

- **National standardization**

- SIGMA-IS chairs subcommittee TC22/SC129, which is a national analogue of ISO/IEC JTC1/SC29
- The development of the Russian national standard for still image and video coding for surveillance applications

- **International standardization**

- SIGMA-IS is the only representative of the Russian National body in the JPEG committee (ISO/IEC JTC1/SC29/WG1)
- 3 JPEG members work for SIGMA-IS, including the head of the Russian delegation in JPEG
- Since the joint JPEG and MPEG meeting (Guangzhou, China), we intend to regularly participate in MPEG meetings as the only representative of the Russian National body (ISO/IEC JTC1/SC29/WG11)

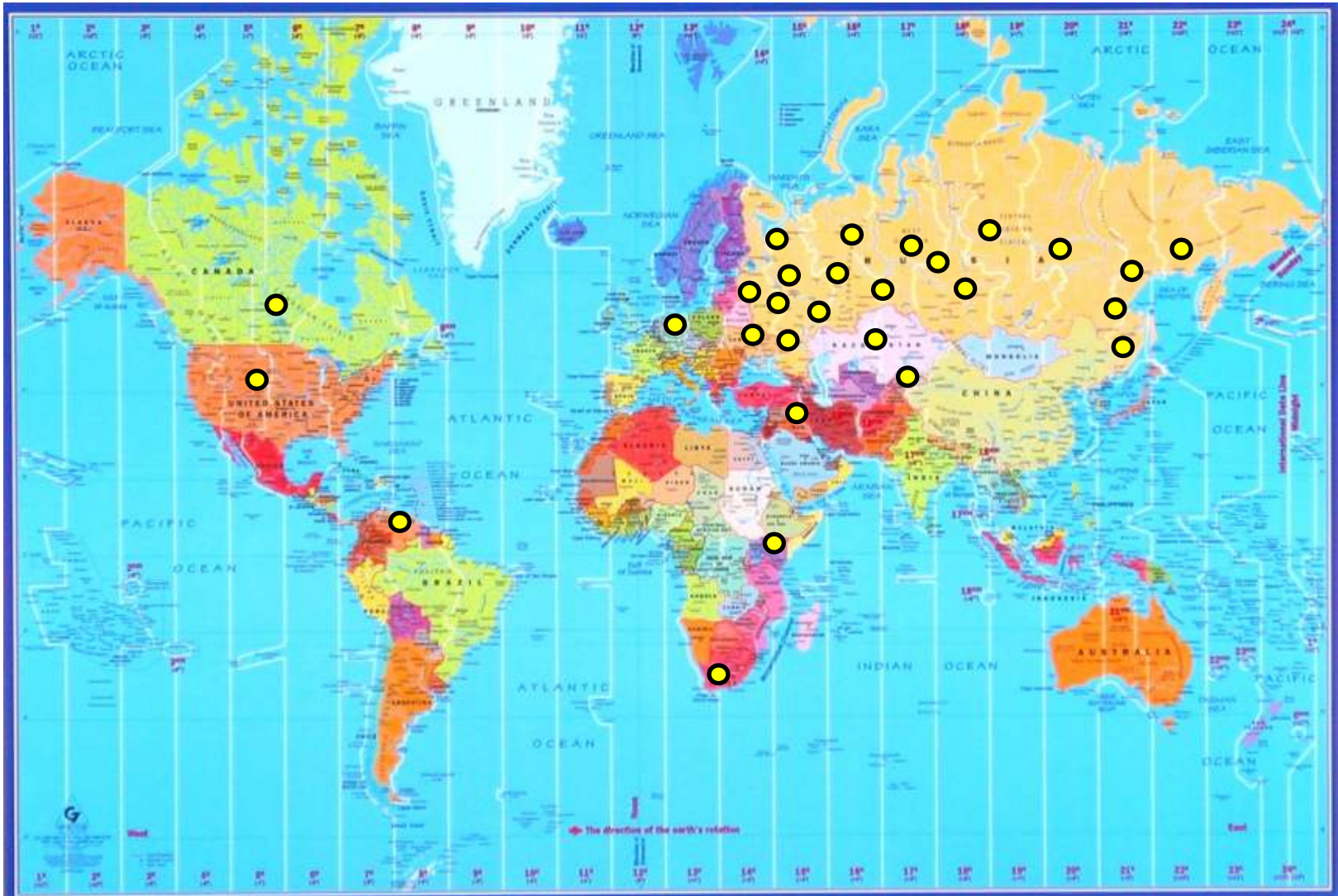


Sigma-IS Ltd. – Manufacturing

Surface Mounting Equipment



Sigma-IS Ltd. – Worldwide clients



Sigma-IS Ltd. – Our international partners



Sigma-IS Ltd. – Awards and licenses

All of our affairs are licensed by the state



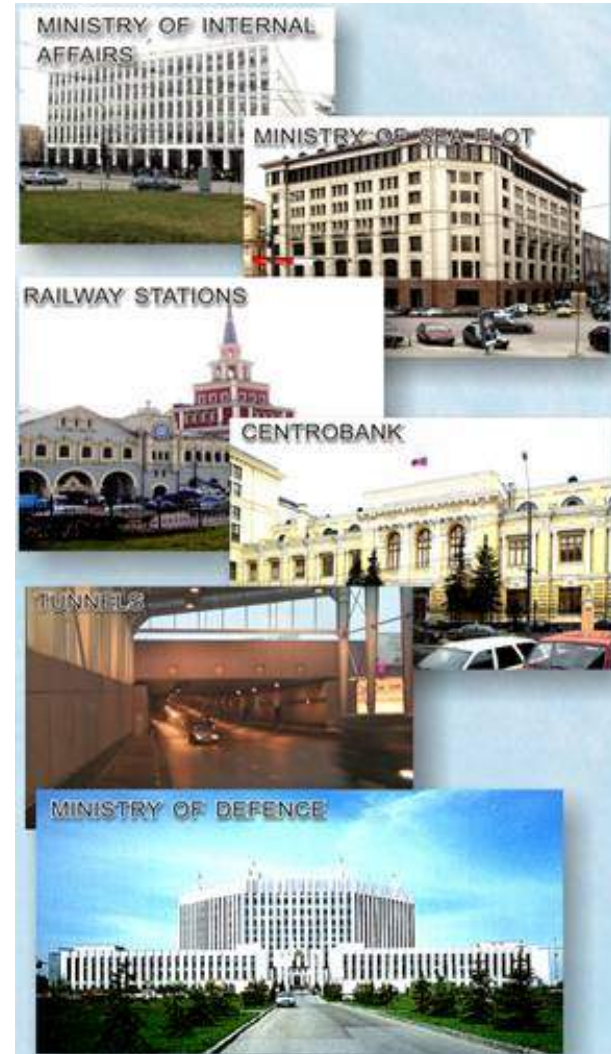
The quality of our security systems is confirmed with awards



Sigma-IS Ltd. – Integrated Security Systems
Advantage through Technology

Sigma-IS Ltd. - Key customers

- Private industry
- Great Russian Corporations (e.g., GAZPROM, RusAl, RosNeft)
- Police / Government
- Security system installers
- Communication Industry
- Transportation



Thank you

Our contacts:

Head office in Moscow

Tel: +7(495) 5424170

Tel/fax: +7 (495) 542-4180

Web: www.sigma-is.ru

E-mail: info@sigma-is.ru

