



Smart Mobile Devices
Registration System

THE PURPOSES OF THE SYSTEM



- 1** To detect illegally imported and/or uncertified devices within mobile operator network in order to initiate enforced registration or to block them
- 2** To monitor and control the market of mobile devices being imported
- 3** To reduce the theft rate by tracking and blocking stolen mobile devices
- 4** To provide an opportunity for centralized monitoring, control, management and analysis of the unified mobile devices database
- 5** To detect and prevent usage of mobile devices with cloned and/or invalid IMEI-codes
- 6** To provide operators with an opportunity to conduct campaigns for certain device models and to prevent usage of devices sold as a part of a campaign within other operators' networks
- 7** To provide banking and other organizations with an opportunity to restrain usage of mobile devices in case of noncompliance with credit and leasing obligations



ABOUT THE SYSTEM



The **BORDER** system is a complex solution, which integrates with EIR of mobile operators and serves the purpose of real-time monitoring of mobile devices that are connected to the networks and initiates the process of enforced registration in case of detection of a new device.

The system has two subsystems:



CEIR – Central Equipment Identity Register



SIHS – Smart IMEI Handling System

ABOUT THE SYSTEM



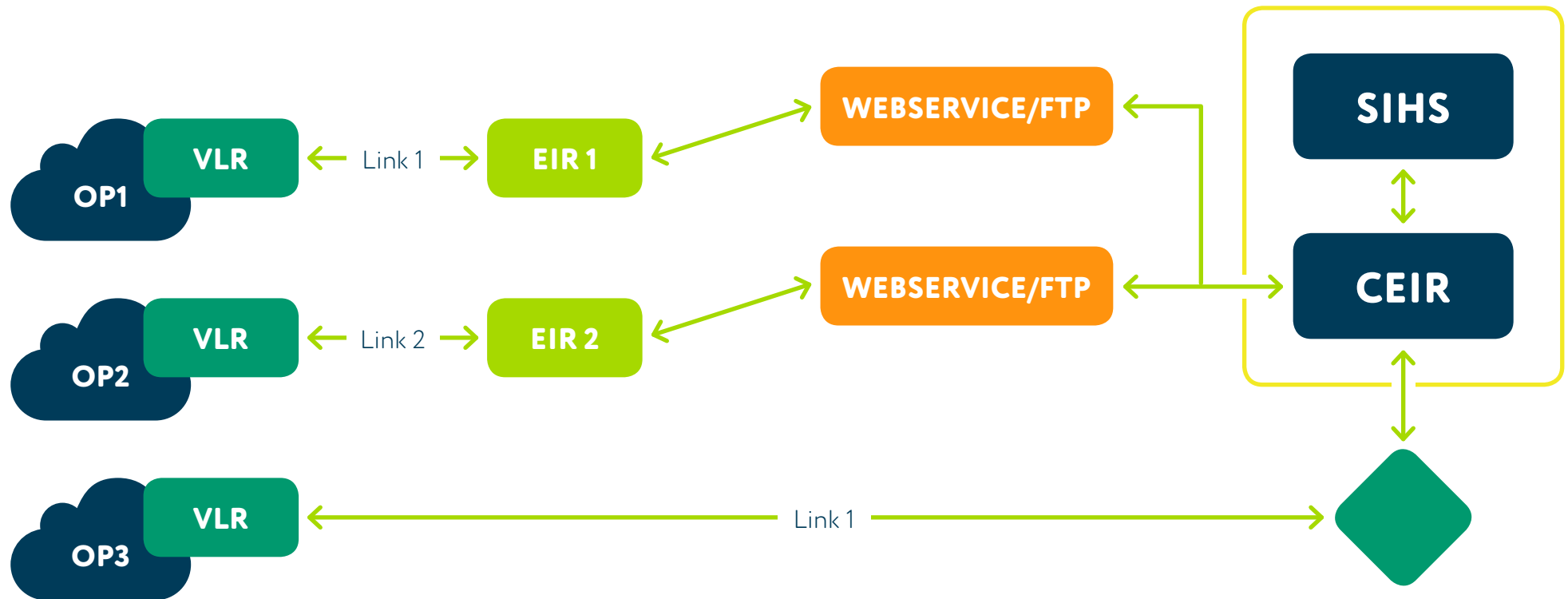
CEIR (Central Equipment Identity Register) is a subsystem, which provides integration with mobile operators' networks (with their EIRs) in order to:

- send up-to-date IMEI-codes lists generated by SIHS subsystem;
- receive from mobile operators the information required for preliminary analysis, assorting and filtering;
- identify cloned devices.

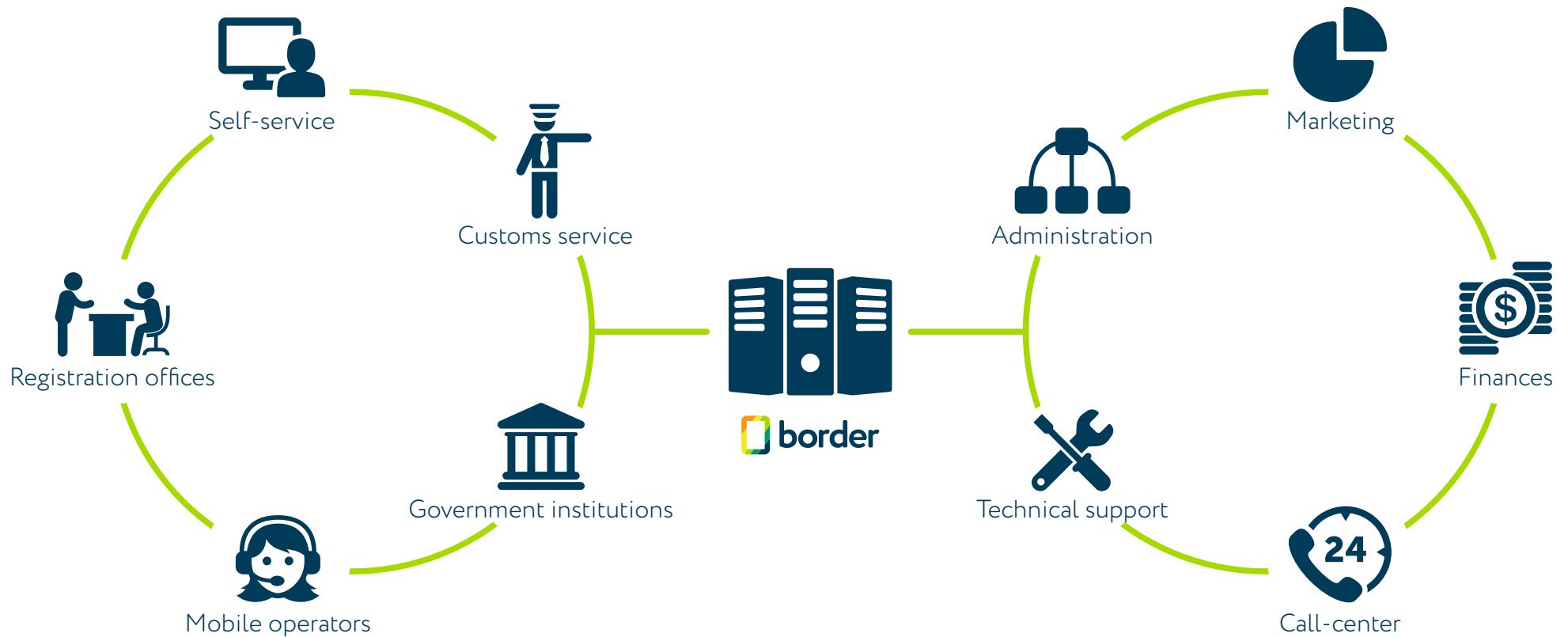
SIHS (Smart IMEI Handling System) is a subsystem related with CEIR with the purposes of forming and collecting lists of IMEI-codes that are allowed/forbidden for use within the networks of mobile operators, and lists of IMEI-codes that have been included into control list. The subsystem also provides detailed analysis of information received from CEIR, forms and sends required reports. The subsystem has interfaces for customs service, regulator, law-enforcement authorities, operators and subscriber services.

The System has modular architecture and this allows it to be flexibly configured according to the requirements of the law or specificities of the mobile network infrastructure.

INTEGRATION OF THE SYSTEM



THE SYSTEM INTERFACES



OUR EXPERIENCE IN AZERBAIJAN

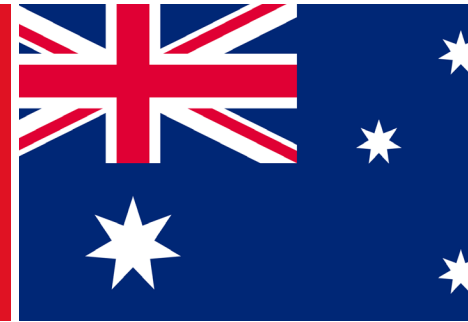
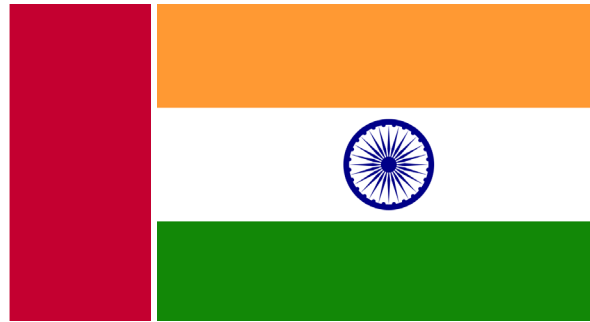


Mobile Devices Registration System, adoption of which is carried out nowadays in many countries around the world, intends creation of a common database containing information about the IMEI-codes of all functioning in and imported to Azerbaijan cell phones in order to effectively combat illegal entry and theft of mobile phones, as well as cloning of IMEI-codes. The project started to be developed by order of the Cabinet of Ministers of the Republic of Azerbaijan in the framework of “Integrated Action Plan against dissemination of misleading information on Terrorism”.

GSM-operators, as well as Ministries and state departments were involved in its implementation: the Ministry of Communications and Information Technology, the State Customs Committee, the State Committee on Standardization, Metrology and Patents, and others. We are proud of the fact that the development of a system of such scale was entrusted to us – **Kibrit Company**. Our analysts and developers as part of the government delegation visited the Information Technology Organization (BTK) in Ankara, where they got acquainted with the experience of Turkish colleagues. As a solution we have developed a software-hardware complex called **Mobile Devices Registration System**, endowed with a variety of user interfaces, analytical and statistical modules.

During the development process a number of advanced technologies based on Oracle, Jboss, Red Hat, etc. had been used. Today, the system is successfully operating, meeting the customer’s expectations and proving the quality of the proposed solution.

EXPERIENCE OF OTHER COUNTRIES



Quantity reduction of mobile devices
theft offences

for 80 %

The legal import market ascend

up to 85 %

Budget revenue grow due to increase
of customs dues, etc.

> 100 %

FROM THE GOVERNMENT POINT OF VIEW



Investment:

- Updating legislation
- Creating the system
- Educating citizens
- Creating registration points
- Advertising

Benefits:

- Additional money inflow due to introducing paid registration of mobile devices
- Additional money inflow due to increasing tax revenues
- Additional money inflow due to increasing customs revenues
- Additional money inflow due to certification fees
- Additional money inflow due to marketing activities
- Creating of fair and competitive market
- Increasing public confidence
- Creating unified credit and loan database



FROM THE MOBILE OPERATORS POINT OF VIEW



Investment:

- Installation of EIR
- Updating internal procedures

Benefits:

- Possibility of selling bundles – device can be used with 1 Sim Card only
- Possibility of selling devices - device can be used in exact operator only
- Clear marketing data for different purposes
- Certified devices in network
- Increasing public confidence and loyalty



FROM THE LEGAL IMPORTERS POINT OF VIEW



Investment:

- Updating internal procedures
- Pay only taxes and fees in accordance with legislation

Benefits:

- Possibility of selling bundles in cooperation with operator – device can be used with 1 Sim Card only
- Possibility of selling devices in cooperation with operator - device can be used in exact operator only
- Clear marketing data for different purposes
- Increasing public confidence and loyalty
- Using unified credit and loan database with possibility to close bad debtors' devices
- Decreasing of credit and loan cashing out
- Fair and competitive market
- Increasing public confidence and loyalty by selling branded and certified devices only



FROM CITIZENS POINT OF VIEW



Investment:

- Support and understand the changes in legislation
- Support legal importers
- Additional registration fee in case of individual import for personal usage

Benefits:

- Insurance on certified device usage and related warrantee
- Reduction of mobile device thief
- Possibility to obtain credits, operator campaigns and other advantages
- Easy and user-friendly registration procedure



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THANK YOU FOR YOUR
ATTENTION!

