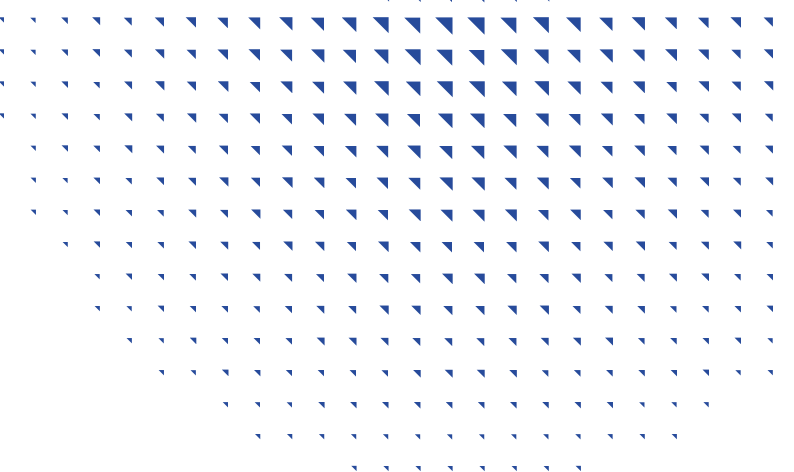




digitex

For a safer world

digitexWAVE Software



SCALABLE SYSTEM
ARCHITECTURE

SECURE DATA
TRANSMISSION

MULTI-CHANNEL
ALARM CONTROL

SCHEDULED AND
REAL-TIME OPERATION

VISUALIZATION
ON THE MAP

COMPREHENSIV
E REPORTING

MULTILINGUAL
SUPPORT

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digitexWAVE software and integrated public alerting systems

Digitex software was developed for integrated public alerting systems. These systems are used in crisis management, public administration, fire services, the military and industry. They warn the population against various hazards, accidents or sudden weather occurrences.

In addition to digitexWAVE, the dispatch software, the proprietary systems by Digitex also consist of a server system and the software which operates in the company's control panels. Thanks to the wide range of configuration options of Digitex software, it is possible to reflect the multi-level structure of any organization, both in public administration and in commercial entities. Dedicated views are available within digitexWAVE, tailored to the needs of individual roles in the organization.

Comprehensive integration

The digitexWAVE system can be integrated with, i.a.:

- existing client systems;
- third-party sensors (meteorological stations, gas, radiation, air quality and water level sensors);
- LED displays and traffic lights;
- Public Address internal speaker system;
- external devices (e.g. lighting, garage doors, etc.).

Scheduled and real-time operations

The digitexWAVE system provides both scheduled service and real-time communication. Broadcast messages can be played on any number and group of sirens. A custom-designed solution tailored to the needs of a given organization streamlines the work of dispatchers and ensures reliable alerting.

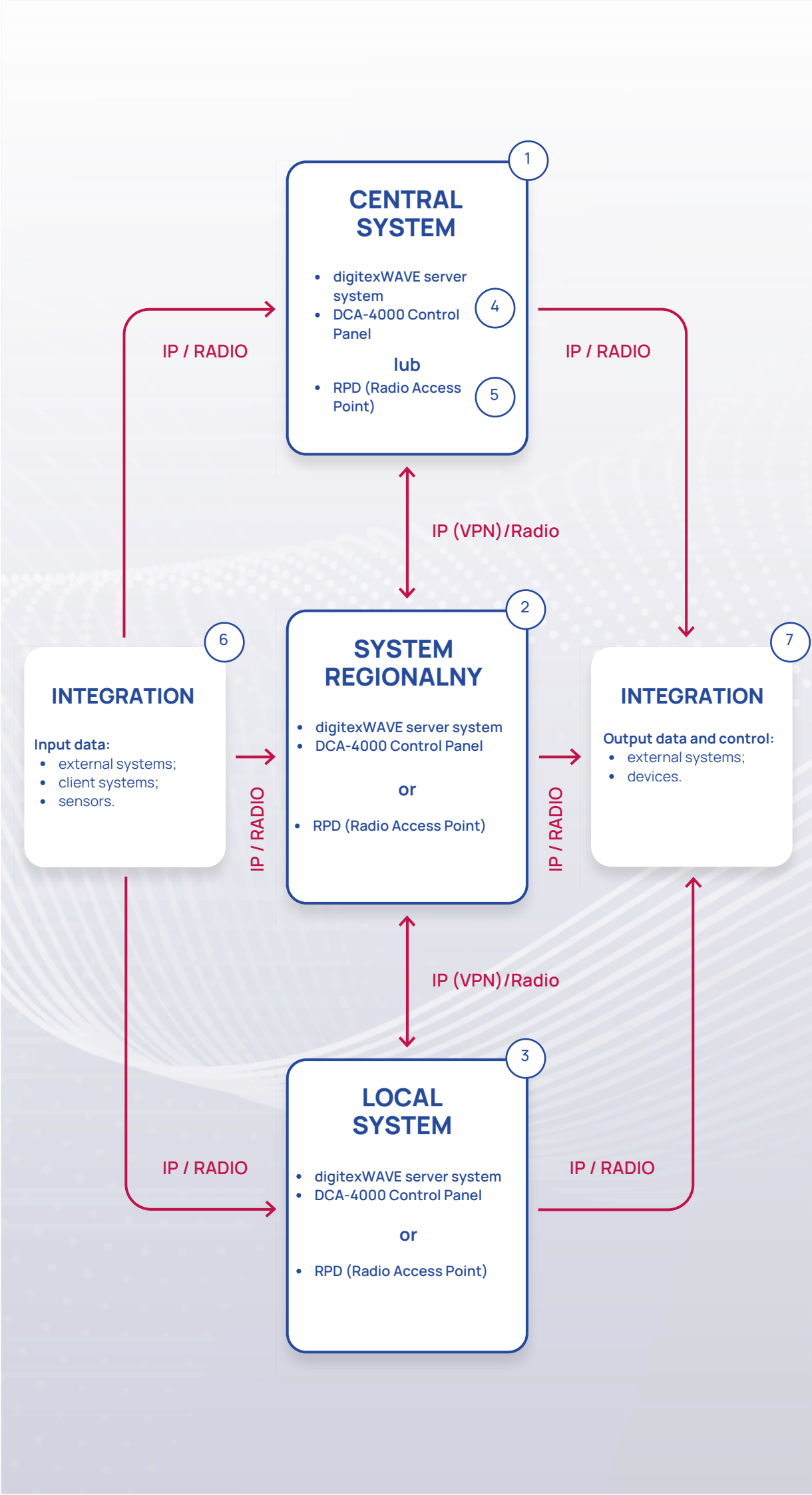
Within the dispatcher panel, the view includes an interactive map of a given area with alarm points and devices located on it. The status of individual devices and the results of online self-diagnostics are available as a basis of reports. digitexWAVE enables management of one, several or all sirens operating in the system at the same time. The system enables activation of alarms and transmission of voice messages to devices in the network. It also enables launching selected functions via GSM, using SMS messages. Built-in functions enable testing of sirens and playing messages in voice form based on text. Reporting can run in both scheduled mode and manually. System-generated reports can also be distributed to authorized recipients via SMS and email.

Flexible communication channels

The WAVE system enables the management of messages and communication channels, supporting audio, visual, text and voice sources, including Text-to-Speech (TTS). It enables recording of audio files and their playback on sirens, adapting messages to the situation. Sound and light signals are supported, inside and outside buildings and in the field. digitexWAVE offers an audio library and recording and emission of sounds with various parameters adjusted to local needs.

Data security

Communication within the system is carried out via encrypted digital channels (radio and/or IP network). Remote key exchange and asymmetric encryption (RSA) are used for IP transmission. Data transmission security is supplemented by standard VPN security.



1. CENTRAL SYSTEM

- for public administration entities, the central system may operate at the national or regional level;
- for a company or corporation, the system can provide the headquarters with integrated data from individual organizational units;
- the central system acquires and visualizes data from subordinate systems, based on which it can send messages and actions to subordinate systems, based on which instructions and messages can be sent to individual alarm devices at all levels.

2. REGIONAL SYSTEM

- in the case of public administration, the regional system may operate at the provincial or district level;
- for a company or corporation, it is possible to adapt the system to the organizational structure;
- the regional system can integrate data from local systems and send them to the central system. At the same time, it is possible to implement alarm and warning functions at the regional level.

3. LOCAL SYSTEM

- at the local level, the system can operate, for example, at a fire station or a manufacturing plant;
- the system can control systems and devices and collect data from sensors in a given location;
- control of local devices is possible both locally and from the central and regional levels.

4. DIGITEXWAVE – DISPATCH SOFTWARE

- user interface;
- multi-user support;
- map of the region with the location of alarm points;
- integration with sensors and other devices;
- testing and reporting.

5. SOFTWARE IN DCA-400 AND RPD DEVICES

- digitexWAVE software in client-server architecture;
- delivers live voice messages and plays predefined messages selected from a list;
- enables monitoring siren status, as well as automatic or manual device testing.

6. INTEGRATION – INPUT DATA

External systems and sensors:

- weather stations;
- gas sensors;
- radiation sensors;
- air quality sensors;
- water level sensors.

7. INTEGRATION – DATA OUTPUT AND CONTROL

External systems:

- sirens;
- PA systems;
- traffic lights;
- lighting.

Devices:

- LCD displays;
- garage doors.

Technical Data

Hardware requirements

Browser	Google Chrome or Mozilla Firefox
Processor	min Pentium i3
Memory	- RAM: min. 4 GB - disk space: min. 20 GB
Monitor resolution	Full HD

Functionality

Supported organizational levels	central, regional and local
Integration	existing customer systems, external systems, sensors
Device control	automation, sirens, PA systems, traffic lights, lighting, LCD displays, garage doors and more
Communication	IP (VPN), Radio
Data encryption	AES-128 key
Supported sensors	weather stations, gas, radiation, air quality and water level sensors
Supported sound systems	Siren systems and Public Address (PA) systems
Maps used	Open Street Map
Compatible with digitexARCHITECT	visualization of ranges and data export to MS Excel
Language versions	8 language versions available, more on request
Training	local and remote, in 4 languages: EN, PL, DE, RU



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Digitex is a manufacturer of integrated public alerting systems. The company's product range includes alarm sirens, siren control units, radio access points and the digitexWAVE software for controlling digital public alerting systems.

The systems perform warning and notification functions in public administration, crisis management, civil defense and fire brigade units in over 20 countries. They also support the military and selected industrial plants from high-risk industries.

The company operates its own research and development department (R&D), which allows for full control over the hardware and software development process and integration with third-party devices. In this way, thanks to the technological advantage consistently developed over 30 years, the company has established its position as a leader in Poland and Central and Eastern Europe.



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