



Architecture

Architecture client-server

Client sends data to the server for future storage in the database.

Windows, Linux, MacOS

Client part is provided in versions for Windows, Linux и MacOS. The server part is for Windows.

Support for multiples servers

The complex can work in the mode of several servers and one central database.

Additional IP-address for the connection with server

Ability to specify an additional external IP-address for communication (it is convenient when employees take their laptops out of the office).

Work of the server in DMZ

The server can work via reverse-proxy nginx beyond the "demilitarized zone" (DMZ), and is relevant for **remote employees**.

Terminal server, thin client

Clients of the software complex are named "thin", all data processing is performed on the server, so there are no difficulties when the complex works in terminal sessions.

Work in physical and virtual spheres

Clients and the server of the complex can work as physically as on virtual machines.

Data storage in SQL-base

All monitoring data is stored in SQL-base on the server machine, supported by **MySQL, Microsoft SQL Server and PostgreSQL**.

Local storage

If there is no connection to the server, the observation data won't be lost, but will be accumulated in the local database and will be transmitted to the server for sure after the connection is resumed. You can configure the local data storage history. SQLite is used as a local database.

Deferred monitoring

With a very large number of client machines it doesn't always make sense to collect data from all clients. With deferred monitoring enabled, data is transmitted to the server on request from the selected machines.

10000+

With relatively small system requirements the complex server and database can serve more than 10 000 client connections.

Traffic restriction

Ability to limit traffic from clients to the server under heavy loads and multiple connections.

Remote Web-watching

All online and offline watching is conducted via a web browser, regardless of your location.

Remote installation

You can install the client on remote machines in a hidden mode from the employee. There are 4 different ways to do this.

The instantiation of the server and database

It is possible to install the complex server and database in multiple instances on the same server machine.

Log in with Windows accounts

You can log in with the current Windows account or with any other one (including a domain one)

Domain users

For domain users you can make reports on all the machines that they worked on in total, as well as on specific machines.

Encryption of data traffic

The client-server channel is encrypted and you can also configure **https**-access to the web interface.

Support IPv6

Working as in IPv4 as in IPv6 networks.

Delineation of superiors' rights

Ability to assign rights to supervisors both at the database level for certain reports and for selected departments in the company hierarchy.

Employees' personal work schedules

The ability to assign individual work schedules to an employee or group, indicating days off, the beginning / end of the working day, a break, including a flexible / fixed schedule, around the clock. Support for holidays, pre-holiday days, personal holidays, sick days.

Search engine for text in files on client PCs'

A powerful multifunctional "search engine" with many settings for indexing the contents of files on client machines (including multi-level, password-protected archives).

Integration with ACTIVE DIRECTORY Support for multiple domains

Ability to sync data with multiple company domains simultaneously

Automatic installation on groups of machines

Syncing client installations/deletions with computer groups AD.

Synchronization of employees' names

Employee profile (full name, department, etc.) will be synchronized with register in AD.

Automatic installation on groups of machines

Syncing client installations/deletions with computer groups AD.

Synchronization of superiors' rights

The boss-subordinate relationship for accessing reports will correspond to the actual relationship in the company based on data from AD.

Synchronization of the company structure

Ability to synchronize the structure with several company domains automatically.



Monitoring reports

"Black box"

Permanent recording of video from screen and audio from microphone/dynamics with encrypted storage on employees' machines for further detailed analysis in a case of an incident investigation

Face recognition

Opportunity for periodic review of individual employees with a web camera and match it to other employees. The report is convenient for analyzing the presence of an employee or replacing it with someone else. It uses an offline "engine" of its own development based on a neural network.

Risk and efficiency analyzer

The analyzer which is customizable based on profiles and dictionaries shows an employee's efficient, inefficient or dangerous work.

Search by templates

Variety of search criteria based on which you can create your own templates.

Report on categories and deviations

The summary report showing statistics in the context of the resource use categories and deviations from the average values of employees.

Summary report

A convenient summary report for a specific employee in the form of clickable circular charts where you can deepen your analysis of a person's productiveness.

Summary simplified report

Summary report on a group of employees in tabular form and the ability to export to Excel.

Activity feed

A graphical report which allows you to evaluate at what time intervals, what the user was doing and which extent.

Keyboard typing style

Allows to assess the employee's condition in the workplace and to determine to some extent set the ability of another employee to work in someone else's place.

Machine time

You can see how long employees' computers have been turned on.

Loading CPU/GPU

Report allows you to see a detailed picture of CPU and video card usage over time (for controlling mining)

User time

User activity per day, absence, late arrivals, popular programs and sites, synchronization with **Outlook calendar and ACS**.

Employees' time sheets

In the form of a standard timesheet with the ability to display data on computer activity or ACS data, the report displays information about absence, late arrivals, beginnings/endings of the working day and total time worked.

Program start

You will be able to see which programs and how long an employee has been working on them.

Monitoring sites

Report on sites visited by an employee.

Input text (keylogger)

All programs and websites have the ability to intercept an input text.

Clipboard

Text, files and pictures in clipboard.

Search request

Ability to see all search requests in various search engines - Google, Yandex, etc.

Text messages in messengers

Telegram Desktop, Skype, Microsoft Teams, WebSkype, Lync, Viber, Slack, Myteam – all cases.

E-mail + attachments

Interception of incoming and outgoing emails (with attachments) for:
Microsoft Outlook – Exchange/IMAP/POP3/SMTP in all cases (with or without encryption);
IBM Lotus Notes – all outgoing email;
Outlook Express, Thunderbird, Bat, Mail – POP3/SMTP (with or without encryption).

Sending files to the Internet

Files sent via the browser, email clients, Skype, Lync and popular messengers, FTP/FTPS. In all cases files are intercepted and saved (with the possibility of prohibiting sending).

File operation

Intercept copying, deleting or transferring files. When there are copying files to a flash drive, shadow coping is possible. Support WebDav.

Screenshots

Taking screenshots with a lot of settings.

Video based on screenshots

Generation continuous video from screenshots for viewing via browser or media player.

Print control + value

Ability to intercept printed files in spooler format and calculate the cost depending on the set rate.



Suspicious events

Write to the report events that you can configure yourself (launching programs, websites, entering text based on the algorithm for inaccurate word comparison).

Search for employee information

Ability to search in generated report with regard to the algorithm for inaccurate word comparison.

Webcam recording

Recording of screenshots from the webcam of employees' machines and saving on the server automatically.

Report «contacts»

Ability to see employee's contact list, with whom he communicated by email, Skype and in chats.

Report «connection Graph»

Visual display of the report "contacts" as an easy-to-view graph.

Report «Online users»

Allows to see visually when certain users are connected to the server.

Geolocation

Geolocation of laptop locations in **Google maps**.

Control of the number of copies of installed software

Ability to see the setting number of various software among the whole company to identify unlicensed software.

Hardware and software monitoring

Demonstrates changes in a part of the hardware on the machines and installed/removed software.

Report based on SQL-requests

Ability to make reports from the SQL base independently.

Online watching

Screen watching

Taking single current screenshots or in a form of video stream. Ability to save as a video file.

Webcam watching

Taking a single current photo or in a form of video stream. Ability to save as a video file.

List of processes and windows

Obtaining a list of active processes and opening windows of users.

Pause monitoring

You can always pause and remove the monitoring from the pause.

Reaction to suspicious events

Notification outputting of important events for users in the tray system and the browser window with sound. Ability to get SMS or email notifications.

Integration with Telegram

Ability to send notifications about important events in personal chat of Telegram messenger.

Sending messages

Ability to send instant messages to users.

Managing

Realization a number of administrative functions online. Выполнение ряда администраторских функций онлайн.

DLP features

StopPhoto

Protection against taking photos of the PC screen with a smartphone while critical apps or websites are running.

DLP in documents

Opening, sending to the Internet, copying to a flash card, to clipboard of a document with keywords or phrases is accompanied by an event (or prohibition). Support .docx, .xlsx, .odt, .ods, .sxw formats. Ability to use an inaccurate text search, search by templates: credit cards, contacts, custom regular expression (**RegExp PCRE**).

Prohibition of full or partial sending of files

Ability to prohibit sending files via file sharing sites, email sites and programs, chats and social networks.

Face recognition, fact of employee replacement

If an employee is replaced at the workplace by another third-party person or another employee, a security officer will immediately receive a notification of this situation in the form of an event. An offline "engine" of our own development based on neural networks is used for face recognition from web cameras.

Protection of the sealing web cameras

If an employee closes or seals a web camera, the system will block the screen and issue a notification (when face recognition is active).

Protection of workplace from an outsider

If the face recognition machine detects that another person is at an employee's workplace, the computer will be blocked until an employee's username/ password is entered for the next time.

Reporting of atypical user behavior

The system will notify the leader, if it detects atypical user behavior such as coping, sending or deleting files, copying symbols in clipboard, opening browser tabs, etc. The number is set by the administrator.



Digital fingerprint of files

Support for digital fingerprints of files by search and DLP-operations.

Text recognition in screenshots (OCR)

Prohibition of copying screenshots in clipboard (if it has important text data). Inaccurate text search is possible. **Support for the built-in offline engine OCR and online Abbyy OCR.**

Ability to prohibit clipboard

Full prohibition or prohibition of PrintScreen button.

Ability to prohibit web-sites

Prevent browsers from visiting selected sites.

Ability to prohibit FTP

Full prohibition of transferring/receiving via FTP-protocol.

Ability to prohibit WiFi/Bluetooth/USB-modem

Ability to prohibit network connection via WiFi/Bluetooth/USB-modem

"Black" and "white" list of programs

Ability to prohibit start of programs in accordance with "black" and "white" lists.

Ability to prohibit flash drive

Ability to prohibit recording or full access to removable media.

White/black lists for USB devices

This feature immediately allows or blocks specific USB devices to enhance security.

OTHER FEATURES

Hidden and open watching

You choose how to monitor employees.

Working in the "outsourcing" mode

In this mode an employee enables or disables self-monitoring.

"Alarm button"

Ability to turn off or lock all the computers quickly or make scripts on the server at the command via **Telegram** messenger.

Sending reports to employees

Ability for employees to receive reports of their work to their personal email every day on a schedule.

Sending reports to chiefs

Ability to generate reports of employees on a schedule and send it to chiefs (by email, FTP, DropBox and other ways) automatically.

Login with FaceID

The ability to use FaceID for login provides secure and convenient access through facial recognition technology.