



## **Technical and Commercial offer for StaffCop Enterprise monitoring software**

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## About us

**“Atom Security” LLC. is a Russian software developer in the field of information security.**

The company’s main product line is StaffCop – a bundled software solution aimed to increase efficiency of commercial and governmental organizations by mitigating risks associated with inside threats, providing workstations monitoring, events analysis, reports on dangerous and unproductive activity.

More than 11000 companies from 26 countries have already become our customers.

StaffCop was considered the best product by PC magazine Russian Edition in 2010 and 2016.

StaffCop Enterprise got into TOP-8 employee monitoring software by PCMag.com in 2017.

«Atom Security” is a resident of Academpark of Novosibirsk Academic City from year 2012, with a status of innovative company. The headquarters of “Atom Security” are situated in the heart of Russian Science – Novosibirsk Academic City.

## Tasks we solve

- Timely employee monitoring and risk groups defining.
- Prevent data leaks and insider threats.
- Reveal disloyal employees and fraud schemes.
- Investigate information security incidents.
- Employees time tracking.
- Staff efficiency evaluation.

## Advantages

The main advantages of StaffCop Enterprise are:

- Complexity – StaffCop helps solve tasks on information security, control of business-processes and employees efficiency, and also features tools for remote administration.
- StaffCop Enterprise is a fully integrated solution which doesn’t require purchasing any additional third-party software and database;
- High speed of processing data and building reports due to the hybrid database mode allow to use ClickHouse and PostgreSQL simultaneously;

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- Architecture is built on the modern technologies and provides scalability and relatively low hardware requirements.
- Low implementation and ownership cost, fast ROI.

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## General description

StaffCop Enterprise is an application based on client-server architecture which allows to monitor all the user activity on workstations, system events and information channels. The solution collects data, analyses it, reports on security policies violations and prevents data leaks by blocking information channels.

The solution consists of two parts: server and endpoint agent. The server part is used to collect, store, analyze and view data. Endpoint agent represents a service launched on employees' workstations. It collects data to send it to the server.

A single server running GNU/Linux is enough for StaffCop Enterprise to operate. System administration, monitoring rules configuring, viewing and analyzing of data is processed in the web-interface accessed in a web-browser.

## Monitoring functionality for Windows

### 1. User activity

- 1.1. Automatic user activity tracking by keystrokes and mouse movements.
- 1.2. Presence at workplace monitoring. At the moments of user inactivity the system asks to confirm presence at the workstation with a pop-up window. E-mail notifications of absence can be set up in the admin interface.
- 1.3. Track user log on/off the OS.

### 2. File access and file operations

- 2.1. Track all operations with files and directories: reading, writing, moving, copying and renaming.
- 2.2. Shadow copying of files transferred outside the corporate network: files sent by e-mail, uploaded to cloud storages, sent by network protocols, copied to removable USB-drives, printed documents.
- 2.3. "Special monitoring" for files allows forced shadow copying for remove and copy file operations.
- 2.4. Creating digital fingerprints (hashes) of content of all the intercepted files for detecting unauthorized documents' copying and track their movements.

### 3. Employees communications monitoring

- 3.1. Intercept contents of emails sent and received by POP3, IMAP, SMTP, MS Exchange and MAPI protocols. Interception of the attached files.

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- 3.2. Intercept e-mails and attachments sent and received in web-mail services.
- 3.3. Interception of messages and files in instant messengers: Skype, ICQ, Mail.Ru agent, Jabber (XMPP).
- 3.4. Tracks calls and messages of SIP-applications. Calculation of calls duration.

## 4. USB-devices

- 4.1. Track connections of USB-devices with categorizing by device class, time connections and unique hardware identifier.

## 5. Network activity

- 5.1. Track facts and duration of visiting websites by HTTP/HTTPS, including visits in the private mode.
- 5.2. Track search queries in Google.
- 5.3. Intercept files uploaded to cloud storages: Dropbox, OneDrive e.t.c.
- 5.4. Track all network connections: application, address and port.

## 6. Launching and installation of applications

- 6.1. Track facts of applications installation with precise time, computer and user name.
- 6.2. Track facts of launching applications and processes.
- 6.3. Регистрация времени продолжительности активного использования приложений.  
Track duration of active applications usage.

## 7. Audial and visual monitoring

- 7.1. Screenshots taken by specified interval
- 7.2. Screenshots at changing the active window
- 7.3. Webcam snapshots taken at the moment of logging on
- 7.4. Live view of remote desktop with the ability to take control.
- 7.5. Record stream video from remote desktop
- 7.6. Record sound from microphones available on the workstation.

## 8. Keyboard input

- 8.1. Track keystrokes.
- 8.2. Forbid tracking passwords from windows applications.

## 9. Hardware and software inventory

- 9.1. Hardware inventory. Collect data on devices installed on the hardware.





9.2. Software inventory. The list of applications installed on a workstation.

## 10. Password interception

- 10.1. Intercept account passwords input at the moment of log on.
- 10.2. Intercept passwords on web-sites.

## Monitoring functionality for GNU/Linux systems

- 1. Track user activity;
- 2. Track user log on/off the OS;
- 3. Track all file operations, support for file operation rules;
- 4. Shadow copying of intercepted files;
- 5. Track connections and disconnections of USB-devices;
- 6. Web-site visiting history;
- 7. Calculate active time on web-sites;
- 8. Track search queries in Chrome and FireFox;
- 9. Track applications launching;
- 10. Calculate active time in applications;
- 11. Track printing facts;
- 12. Clipboard monitoring;
- 13. Keystroke interception in graphical and terminal sessions;
- 14. Track bash-commands;
- 15. Log-files monitoring;
- 16. Screenshots taken at the specified interval and when changing the active window;
- 17. Record sound from available microphones.

## Analytical functionality

StaffCop Enterprise has a wide functionality for analysis of collected data with OLAP technology as the cornerstone. OLAP (On-Line Analytical Processing) is a data processing technology which lies in preparing summary (aggregated) data based on large data arrays, structured according to the multidimensional principle.

This helps to correlate events by various dimensions for building multi-dimensional reports in a few clicks.

StaffCop Enterprise can work with PostgreSQL database and in hybrid mode, with PostgreSQL and ClickHouse working together. The hybrid mode allows gaining significant performance even on databases with hundreds of millions and even several billions records, as well as significantly increasing speed of data processing on servers with slow performance and hard disks.

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## Constructor of filters and reports

The Constructor is meant for searching and analyzing information, creation of new filters. It's made by consequent applying narrowing filters. Applying of each filter cuts the excessive data allowing finding the necessary information within 2-3 clicks.

## Dimension cards

Summary reports displaying details of an object or a multiple objects and related events in the view mode most convenient for each type. Dimension cards are available for the following dimensions:

- Employee (account);
- Computer;
- Application;
- Site;
- File;
- Device;
- Network connection;
- Conversations;
- Installations;

## OCR – optical character recognition in scanned documents

To recognize text in scanned PDF documents StaffCop employs both ABBY OCR Cloud technology and embedded ORC technology.

## Content analysis and full-text search

StaffCop Enterprise features full-text search among all collected events and shadow copies of files and documents (.txt, .doc, .rtf, .pdf, e.t.c.). Search can be performed by keywords, phrases and regular expressions. Search by keywords and phrases is made considering morphology.

## Data visualization

In StaffCop Enterprise data can be visualized with the help of tables, linear graphs, histograms, pie charts, heat maps, relation graphs, tree of events and separate reports for monitoring employee efficiency.

Each report has its own constructor for handy data detailing by dimensions. Reports support the Drill Down technology that helps to get detailed data on an element by clicking it.

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Tables are handy for viewing quantitative results with sorting by attributes.

## **Anomalies detector**

The function analyses user behavior during a specified time period and reveals deviations from the behavior that is normal for each user. Sensitivity can be tuned up.

## **Alerts on information security incidents**

StaffCop Enterprise can notify on security policies violations in the admin interface and by e-mail. It's easy to create various policies using the Constructor to implement the internal policies of your organization.

Policies can be configured and assigned to particular users or user groups.

## **Vocabularies**

StaffCop has the following vocabularies embedded:

1. Explicit expressions vocabulary
2. Drug slang vocabulary

You can create your own custom vocabularies, specific for your sphere or any others.

## **Employees' productivity categorization**

Different productivity policies can be assigned to different users and user groups which allows viewing employees' activity in sites and applications as the graph of strips that are colored in correspondence with their productivity categories, and see the activity time with the minute accuracy.

## **Categorize employees' activity by their job responsibilities**

User activity can be divided by categories, for example, "work in graphical editors", "visiting entertainment resources" e.t.c. In StaffCop Enterprise one can categorize events on computers according to the security policies set in a particular organization.

## **Time tracking**

StaffCop Enterprise allows tracking employees' working time at their workstations. There are a number of special reports to do that:

1. Strip graph – vivid understanding of the beginning and the end of working day.

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2. Monthly timesheet.
3. Reports and tops on lateness including quantity and summarized time.

It's possible to set up the yearly working schedule with specified launch breaks, vacations and holiday for different users and departments.

## Reports by department

StaffCop Enterprise can show the statistics on departments:

1. Summary productive/unproductive activity time of departments with tops of applications and web-site;
2. Summary presence time of employees by department and tops on overtime and lateness;
3. Summary activity/downtime of department employees with highlighting the most active and inactive employees.

## Blocking functionality

StaffCop Enterprise allows the following blockings by black and white lists on workstations and terminal server running Windows OS:

1. Block launching of applications and processes;
2. Block access to web-sites;
3. Block removable USB-drives by Hardware ID;
4. Read-only mode for USB and CD drives.

## Access rights distribution

For each administrator account of StaffCop Enterprise one can flexibly configure the access rights – rights to manage administrators, super user rights, rights to view particular reports. With such a distribution system one can create different administrator accounts. For example, allow HR department to view only the Time tracking report, and allow security officers to view only the reports on data leaks.

## Extra possibilities

- **Alert system** – in case of an incident is triggered the system will instantly notify you in the admin interface and send an e-mail with the description of the triggered incident and the direct link to the event in the admin interface.
- **Scheduled sending of PDF** reports to e-mail.
- **Export shadow copies** of files to a single ZIP-archive.
- **Export reports** to PDF and HTML.

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## Installation variants

**Install on bare-metal.** You can install StaffCop Enterprise from an ISO-image on a clean server/computer fitting the requirements for monitoring the desired number of computers.

**Install on virtual machine.** You can install StaffCop Enterprise from an ISO-image on a server/computer with any virtualization environment fitting the requirements for monitoring the desired number of computers.

**Import pre-build image.** You can import a pre-made virtual appliance for a faster installation. The appliance is created in the OVF (Open Virtualization Format) format as an OVA (Open Virtualization Appliance) package supporting Oracle VirtualBox, VMWare, KVM.

## Architecture

Staffcop Enterprise is based on client-server architecture.

Agents and administrators connect to the server via encrypted HTTPS protocol. Any types of infrastructures are supported, including NAT-translation, VPN-channels and other variants of connections.

This gives the possibility to operate on a remote computer which is not located in the local network of a company.

Moreover, StaffCop can work in offline mode and monitor users even when they are unavailable from the server. If an agent can't connect to the server it stores data in its local database and starts transferring it to the server at the first opportunity. This function allows to carry out constant monitoring of employees who connect to the internet using temporary channels – mobile 3G/4G modems, public Wi-Fi networks, e. t. c. So, in case an employee goes on a business trip with his working laptop, he keeps being monitored and controlled.

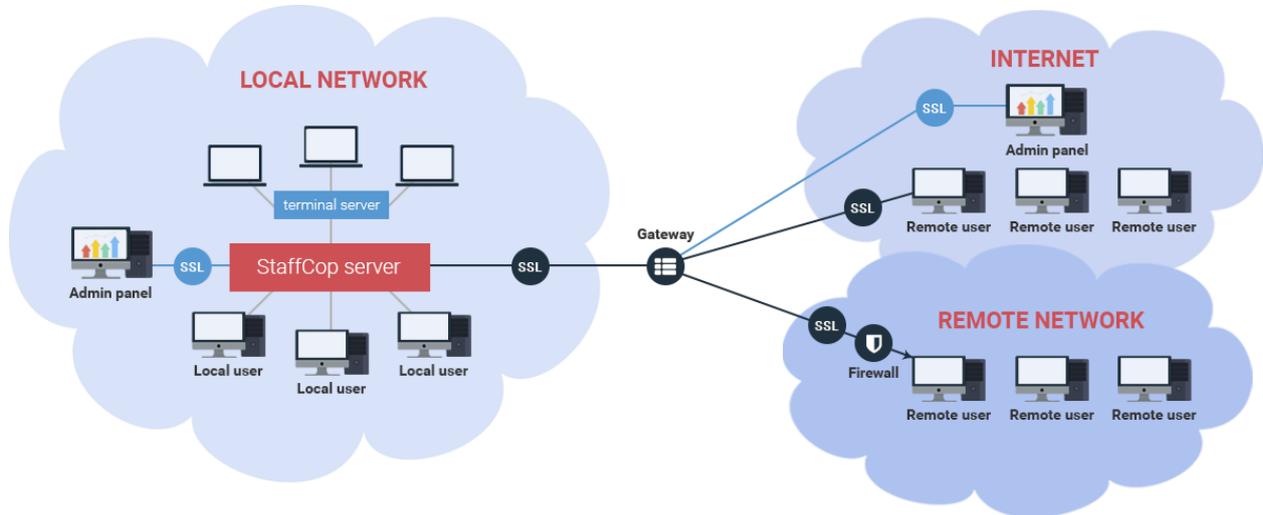
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Architecture map of StaffCop Enterprise:



## System requirements

### Supported OS on monitored workstations

Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 10.1,  
Windows XP – with limited functionality;

Terminal servers: Windows 2008, Windows 2008 R2, Windows 2012 R2, Windows 2016;

GNU/Linux: Ubuntu, Debian, CentOS, Gentoo, Arch, Rosa, Astra Linux.

### Requirements for monitored workstations

Minimal	Recommended
CPU: Intel Celeron 1,8 GHz; RAM: 1 GB; Storage: 5 GB.	CPU: Intel Core2Duo 2,2 ГГц; RAM: 2 GB; Storage: 5 GB+.

### Server

Staffcop Server works Ubuntu Server 16.04 LTS amd64 and can be installed on bare-metal, virtual machine or VDS\VPS server.

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Approximate server requirements estimated by the number of monitored computers:

Number of endpoints	RAM	CPU cores	Storage 1 month	Storage 3 months	Storage 12 months
1-10	2-4 GB	2-4	10 GB for database + 35 GB for files	30 GB for database + 100 GB for files	50 GB for database + 300 GB for files
10-50	4-8 GB	4-6	15 GB for database + 170 GB for files	50 GB for database + 500 GB for files	120 GB for database + 2 TB for files
50-100	8-16 GB	6-12	20 GB SSD for database + 500 GB for files	70 GB SSD for database + 1 TB for files	200 GB SSD for database + 4 TB for files
100-200	16-32 GB	8-16	35 GB SSD for database + 700 for files	100 GB SSD for database + 2 TB for files	300 GB SSD for database + 8 TB for files
200-500	24-48 GB	16-24	50 GB SSD for database + 1.5 TB for files	150 GB SSD for database + 3 TB for files	500 GB SSD for database + 12 TB for files
Over 500	Calculated individually				

StaffCop Enterprise has been tested to be compatible with:

- VMWare;
- VirtualBox;
- Hyper-V;
- Proxmox.

StaffCop doesn't support Docker .

## License policy

StaffCop license represents a non-exclusive type of license and gives the right to use StaffCop Enterprise for the time period specified in the specifications of the purchased license. Licenses are distributed in the form of a digital registration key to the e-mail address specified by the customer.

License of StaffCop Enterprise is valid only for one server of the company. When installation on two or more servers is required, a separate license should be purchased for each server.

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License is floating, which means that you can simultaneously monitor the amount of agents or accounts, and you can re-assign agents on other computers without losing license and data accumulated earlier.

StaffCop Enterprise is licensed by the number of computers with installed agents, except for usage on terminal servers.

In case with terminal servers, StaffCop Enterprise is licensed by the number of user accounts.

When using the monitoring system for particular workstations and terminal servers within a single license the system is licensed by the summary amount of user accounts.

StaffCop server doesn't require a separate license.

There are three types of licenses by lifespan:

1. Perpetual license
2. 12 months license
3. 3 months license

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## Technical support and upgrades

Technical support and access to upgrades are valid during the license lifespan but no longer than 12 month since the date of purchase.

The cost of prolongation package for support and access to upgrades:

- for perpetual licenses: 40% of initial cost;
- for 12 months licenses: 60% of initial cost;
- for 3 months licenses: 100% of initial cost.

StaffCop Enterprise can be upgraded to the latest version if the technical support is prolonged.

## Price for StaffCop Enterprise

Number of computers	Perpetual	12 months	3 months
5-25	\$98	\$70	\$35
26-50	\$91	\$65	\$33
51-100	\$87	\$62	\$31
101-150	\$81	\$57	\$29
151-250	\$78	\$56	\$28
251-500	\$75	\$53	\$27
501-1000	\$72	\$51	\$26
1001+	\$69	\$49	\$25

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