



StarForce Content Enterprise



The reliable solution to protect confidential documents from unauthorized access and copying inside and outside the perimeter of a company's information system



Nowadays Challenges

In today's world, information is the most valuable product that can be bought, sold, exchanged or stolen.

For most companies, the potential value of the information which is a trade secret, can be tens or even hundreds of times higher than the cost of the IT systems storing and processing this information.

DLP systems help companies protect data from internal threats. But what if you need to send confidential documents to a client, contractor or other branch of the company, which is located outside the perimeter of your IT system?



StarForce Content

StarForce Content Enterprise solution by «Protection Technology» company (Russia) was created to protect the intellectual property of companies that need effective tools to control and manage the spread of confidential information. The solution is in demand among large and medium-sized companies that want to transfer paper workflow for internal use into electronic form, and also want to be able to send protected information to remote users with a guarantee of its non-proliferation.

The **StarForce Content Enterprise** allows you to prevent leakage of confidential information due to the fact that the user who has received the protected document is technically unable to:

- Open a document on another computer, for example, after sending it by e-mail;
- Edit it;
- Take a Screenshot;
- Print without permission to print;
- Live video stream via Zoom, Skype, MS Teams, etc.



Another important difference of **StarForce Content Enterprise** is that the program allows you to control a protected document on an «**other user's**» **remote computer**, adding and revoking rights to documents.



Operational Principle

Access to corporate documents is restricted by converting them into a special SFPDF format, which can only be opened in StarForce Reader by entering a personal serial number. Once opened for the first time, the document is «linked» to the device, and the employee will be able to work with it in accordance with his personal authorizations.

Each opening of a document is recorded in a browsing log available to the administrator or security officer.

An employee remotely can open and read protected documents both from the company office and from his/her home. Likewise, you can safely send confidential information to partners, contractors, counterparties or customers without worrying that they will transfer the document to a third party.

The administrator can also set the period during which the document must be read, for example, one day, after which the access to the document will be blocked. You can also revoke access to a document, including one that is on an «other person's» computer that is not part of the company's IT perimeter.

StarForce Content Enterprise solution is available in two versions: server **On-Premise** and **Cloud SaaS**.

Both versions of the **StarForce Content Enterprise** provide:

- Protection of electronic documents from unauthorized:
 - Access
 - Copying
 - Distribution, including through printing to a printer
- Bring Your Own Device (**BYOD**) support – working with information on an employee's personal device without the possibility of copying and distributing.
- Tracking the use of documents, including logging of unauthorized access attempts in real time.
- Safe distribution of confidential documents on any media and over the Internet.
- Transfer and storage of documents in a format that cannot be opened by standard programs.
- Protection of text and graphic files.
- The ability to integrate with third-party DLP (Data Loss Prevention), DMS (Document Management Systems), ECM (Enterprise Content Management) and EDI (Electronic Data Interchange) systems.



Areas of Use

▪ Information protection and leak prevention

Most large and medium-sized companies have a distributed network of branches, contractors, suppliers and business partners. Even with the implementation of DLP solutions controlling the document flow and employees within the company, you lose control over the document once it is sent outside your IT system perimeter.

StarForce Content Enterprise solution provides the necessary tools to control even those documents that are outside the perimeter of the IT system.

You can send confidential information without risk that it may be transferred to third parties. The recipient will be able to work with documents at the clearance level that has been provided to him. In addition, at any time the user's access to this document can be revoked or limited in time.



▪ The classified document flow management

Due to the confidentiality of the information filed in classified documents, the procedure for using them is quite complicated and bureaucratic, and a courier service is often used to send such documents to other divisions of the company. This affects the speed of decision making, as well as the cost of the document workflow.

Implementing the **StarForce Content Enterprise** solution, «classified» documents can be delivered to the addressee by e-mail within just a few seconds. An encrypted file can only be opened by a person who has the serial number of the document, and you will see when and how many times the document was opened and whether there were any failed attempts to do so.

▪ Monitoring compliance with NDA conditions

By signing a Non-Disclosure Agreement (NDA), you trust the other party with your confidential data, assuming that a person's signature on a document reliably protects your secrets. However, it is impossible to know exactly how partners will handle your information, without special tools.

With the **StarForce Content Enterprise** solution, you're getting unlimited control over your documents, being able to provide and restrict access to files, controlling their use by employees of a third-party company.



▪ Leak investigations

When protecting documents with **StarForce Content Enterprise** solution, document leaks scenarios are prevented, except for the option of actual photographing of the screen of the device on which the document is being used.

To investigate such cases, there has been created a leak investigation module in **StarForce Content Enterprise** which uses a special software that encodes an invisible number inside a document.

The **steganography module** allows you to investigate leaks of protected documents by imperceptible shifts in some blocks of a text. Thus, it is possible to recover the number of the document access operation and determine on which device the compromised document was opened at the time of photographing, which will help to identify the persons responsible for the information leak.



StarForce Content Enterprise

The **StarForce Content Enterprise On-Premise** system consists of the following components:

1. Basic systems deployed on the company servers:
 - a) Database containing information about users, document groups, serial numbers and activations.
 - b) Document Activation Server (can be accessed from outside the enterprise via the Internet).
 - c) Document Protection Server that converts documents into a secure format and manages the system.
2. System management website that allows you to manage document groups, users and serial numbers, and also view reports.
3. The **StarForce Document Protector** client application for document protection installed on computers of company employees where there is the need to protect documents.
4. The **StarForce Reader** program for viewing protected documents installed on user devices.
5. The **StarForce Leak Investigator** software for leak investigations. It is installed by the security service.

StarForce Content Enterprise can operate both in the open and in the closed network perimeter of the company without access to the Internet.



StarForce Content SaaS

The **StarForce Content Enterprise SaaS** differs from the On-Premise version in that the basic components of the system and the website are hosted on the server of Protection Technology LLC. In addition, **StarForce Content Enterprise SaaS** does not include a steganography module for investigating leaks by hidden tags and the **StarForce Leak Investigator** component, too.

The **StarForce Content SaaS** server is located in a data center in the Russian Federation in full compliance with Federal Law No. 242-FZ dated July 21, 2014.





Specifications

Basic functions

- Supported files formats:
- Protection against the use of the Print Screen function and other screen grabbers
- Controlling the printing function
- Supports Windows, Linux, MacOS, Android, iOS



Additional features

- The Steganography module that allows you to determine the source of the leak if a picture of the document has been taken from the screen.
- Integration via the StarForce API with third-party applications, such as electronic document management systems.

The method of processing and storing documents implemented in the **StarForce Content Enterprise** system complies with the Decree of the Government of the Russian Federation dated November 3, 1994, No. 1233 "On Approval of the Regulation on the Procedure for Handling Official Information of Restricted Use in Federal Executive Bodies".

The **StarForce Content** is included in the register of domestic software. The entry in the register No. 5146 dated February 26, 2019, was made based on the order of the Ministry of Digital Development, Communications and Mass Media of the Russian Federation No. 63 dated February 22, 2019.



About us

The "**Protection Technology**" company, which has been releasing its products under the StarForce brand since 2000, creates solutions for protecting IT infrastructure from targeted attacks, protecting information from illegal copying and distribution, as well as means of code obfuscation and data encryption.

More than **70 million licenses** have been sold under the **StarForce** trademark worldwide. Many large Russian and well-known foreign companies in the IT industry in Japan, South Korea, Germany, France, Italy, the USA, and Canada have chosen in favor of the solutions of **Protection Technology LLC**.

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