

WithSecure™ Elements Endpoint Protection

WithSecure™ Elements - Reduce cyber risk, complexity and inefficiency.

Contents

Executive summary 3	4. Mobile protection	16
Flexibility to build resilient cyber security with	4.1 Mobile vpn	16
WithSecure™ elements3	4.2 Security cloud	16
1. Solution overview5	4.3 Application protection	17
1.1 Solution packages6	4.4 Browsing protection	17
1.2 Solution components8	4.5 Faster browsing and less data use	17
1.3 Solution deployment8	4.6 Third-party mdm deployment	17
2. Elements security center9	5. Server protection	18
3. Computer protection11	5.1 Heuristic and behavioral threat analysis	19
3.1 Combining all required endpoint protection	5.2 Real-time threat intelligence	19
stack into one11	5.3 Integrated patch management	19
3.2 Heuristic and behavioral threat analysis 11	5.4 Multi-engine anti-malware	19
3.3 Real-time threat intelligence12	5.5 Proactive web protection	20
3.4 Designed specifically for macos12	5.6 Citrix and terminal servers	20
3.5 Protection for linux endpoints13	5.7 Linux	20
3.6 Integrated patch management13	5.8 Multi-engine anti-malware	20
3.7 Multi-engine anti-malware13	5.9 Integrity checking	20
3.8 Location based profiles13	6. Integration with siem/rmm	2
3.9 Flexibility by assigning automated tasks 13	7. Professional services	22
3.10 Extensive and proactive web protection 14	8. Data security	23

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DISCLAIMER: This document gives a high-level overview of the key security components in WithSecure™ Elements Endpoint Protection. Details are omitted in order to prevent targeted attacks against our solutions. WithSecure™ is constantly improving its services. WithSecure™ reserves the right to modify features or functionality of the Software in accordance to its product life cycle practices.

Executive summary

WithSecure™ Elements Endpoint Protection helps companies stop threats like ransomware and proactively avoid data breaches on their workstations, laptops, mobiles and servers. The solution has everything businesses need for endpoint protection, including fully integrated patch management capabilities to effectively prevent attacks that leverage vulnerabilities in installed software. Elements Endpoint Protection outperforms competing products, consistently earning top marks for providing the best protection in the industry.

Flexibility to build resilient cyber security with WithSecure™ Elements

In today's agile business environment, the only constant is change. WithSecure™ Elements offers companies all-in-one security that adapts to changes in both the business and the threat landscape, growing along with the organization. It offers flexibility in licensing models and in its pick-and-choose security technologies. WithSecure™ Elements integrates a full range of cyber security components, including vulnerability management, patch management, endpoint protection, and detection and response, into a single lightweight software package that is managed in one unified, cloud-based management console. Using the same console companies can manage the security of their Microsoft 365 collaboration services. The solution is available as a fully managed subscription service through our certified partners or as a self-managed cloud

solution. Customers can easily shift from self-managed to a fully managed service, so companies that struggle to find employees with cyber security skills can stay protected amid the ever-developing attack landscape.

WithSecure™ Elements consists of four solutions that are all managed with the same console, WithSecure™ Elements Security Center.

WithSecure™ Elements Endpoint Protection: WithSecure's multiple AV-TEST Best Protection winner, cloud-native, AI-powered endpoint protection can be deployed in easy and flexible ways, and manage the security of all your endpoints, keeping your organization fenced in from attacks. WithSecure™ Elements Endpoint Protection covers mobiles, desktops, laptops and servers.

WithSecure™ Elements Endpoint Detection and

Response: Gain full visibility to advanced threats with our endpoint detection and response. With our unique Broad Context Detection, you can minimize alert noise and zero in on incidents, and with automated response you can effectively stop breaches around the clock. WithSecure™ Elements Endpoint Detection and Response covers desktops, laptops and servers.

WithSecure™ Elements Vulnerability Management:

Discover and manage critical vulnerabilities in your network and assets. By exposing, prioritizing and patching vulnerabilities you can reduce your attack surface and minimize entry points for attackers.

WithSecure™ Elements Collaboration Protection:

Complement the native email security capabilities of Microsoft 365 by providing advanced security to prevent attacks via email and URL's. Cloud-to-cloud integration makes the solution easy to deploy and manage.

WithSecure™ Elements Endpoint Protection, Endpoint Detection and Response, and Vulnerability Management are packed into a single automatically updated software packet, saving your time and money in software deployment and administration.

Benefits of the integrated solutions

The modular WithSecure™ Elements solution adapts to your company changing needs. Unified cyber security means easier licensing, fewer security management tasks and more productivity without sacrificing your company's cyber security posture. The cloud-based console – WithSecure™ Elements Security Center - provides centralized visibility, insights and management across all endpoints and cloud services. It is fully managed by one of our certified Managed Service Providers, or self-managed with on-demand support from WithSecure™ for tough cases. The Security Center provides a single view to the security status combining the Endpoint Protection, Endpoint Protection and Response, Vulnerability Management, and Microsoft 365 protection.

All the endpoint solutions (Elements Endpoint Protection, Endpoint Detection and Response, and Vulnerability Management) are using a single software agent that is required to deploy only once. The add-on solutions can then later be activated without having to deploy additional solutions. WithSecure™ Elements Collaboration Protection is a cloud-based solution that does not require installations to company endpoints.

In addition to deployment and management benefits, the WithSecure™ Elements solutions are designed to work together maximizing the security benefits for the company. By combining security events and alerts the XDR capabilities

WithSecure™ Elements can provide holistic security breaking down the silos of disconnected solutions.

WithSecure™ Elements Endpoint Protection is favored by businesses that want:

- Broader endpoint and service coverage than what common solutions on the market can provide, at a much more attractive total cost of ownership (TCO)
- Achieve excellent protection level with minimum resource requirements with an option to completely outsource the management of the solution to a certified service provider
- A straightforward and scalable way to provide visibility and protection for multiple geographically dispersed sites from one location
- To avoid investing time and resources into maintaining local server environments

By merging the protection of various endpoints and value-added security tools into one unified solution, Elements Endpoint Protection offers:

- Broader security coverage and capabilities than most endpoint security solutions
- Unified and streamlined cloud-based management that saves time and resources from security management and maintenance, further reducing TCO.

The solution is designed to be delivered as a cloud-based service; either as a self-managed service, managed service by a certified service provider, with an option to integrate it with 3rd party systems.

Our ability to provide better, more consistent protection than our competitors is proven year-by-year by testing done by independent industry experts and analysts.

WithSecure™ has demonstrated its consistency in independent tests by being the only vendor with 7 prestigious annual AV-TEST 'Best Protection' awards since its inception. AV-Test is making comparison tests continuously throughout the year so in order to reach this precious award one needs to consistency show good results in protection tests.

To meet these demanding standards, the solution utilizes a multi-layered approach to security and leverages various modern technologies, such as heuristic and behavioral threat analysis, and real-time threat intelligence provided via the WithSecure™ Security Cloud.

This ensures that you're at the forefront of security.

1. Solution overview

Companies are facing challenges in minimizing the business risk brought on by cyber threats like ransomware. WithSecure™ Elements Endpoint Protection is designed from the ground up to solve challenging business security needs with minimum maintenance and management overhead. It offers award-winning best protection for Windows and Mac computers, iOS and Android devices and a variety of server platforms. With integrated patch management, layered protection, and advanced behavior and heuristic analysis, Elements Endpoint Protection stops tomorrow's cyber threats – today.

WithSecure™ Elements Endpoint Protection delivers:

- **Best protection** in the industry improves business continuity and saves time in incident recovery
- **Proactively minimizes business risk** of cyber breaches with fully integrated patch management
- Cloud-native solution saves time in deploying, managing and monitoring security

WithSecure™ Elements Endpoint Protection solution is also available as a fully managed service. WithSecure™ certified service providers can use Partner Managed or SaaS version of the solution to leverage many unique service provider features, like multi-company dashboard, reporting and subscription management. The SaaS version of the solution allows service providers to utilize flexible business models, e.g. Usage Based Invoicing for all the WithSecure™ Elements products.



1.1 Solution packages

Elements Endpoint Protection solution's Computer and Server Protection for Windows and Mac are available as standard and premium packages. Standard features include advanced anti-malware, patch management and many other endpoint security capabilities. Premium features add better protection against ransomware and application control. Both endpoint packages can be complemented with Elements Endpoint Detection and Response, and Elements Vulnerability Management solutions. The detection and response features bring improved visibility, detection and automated response into advanced threats and breaches. The vulnerability management helps to discover and manage critical vulnerabilities in the endpoints. In addition, WithSecure™ Elements Collaboration Protection can be deployed using cloud-to-cloud integration without any middleware or software to be installed on endpoints.

WithSecure™ Elements

	Endpoint Protection standard	Endpoint Protection premium	Detection and Response	Vulnerability Management	Microsoft 365 Protection
dvanced anti-malware and atch management					
nti-ransomware with ataguard and application ontrol					
dvanced threat protection					
ulnerability management nd prioritization					
dvanced email security for licrosoft 365					

The different protection feature packages can be activated without having to re-install client software. More information on WithSecure™ Elements.

Software Updater

Automated patch management to update Microsoft and 2500+ 3rd party software apps.

DeepGuard

An intelligent, heuristic anti-malware engine offering 0-day detection capability. Read WithSecure™ DeepGuard white paper.

Web content control

Improve security and productivity with controlled access to websites. Prevent access to websites based on categories and enforce your corporate policy.

Connection control

Activate additional security for sensitive transactions such as online banking.

Real-time protection

WithSecure™ Security Cloud protects against new malware as it utilizes threat details seen by other protected machines, making responses far more efficient.

Multi-engine anti-malware

Provide unmatched protection with highly advanced, multi-engine anti-malware.

Firewall

Additional rules and management functionality integrated with Windows Firewall.

Browsing protection

Proactively prevents employees from accessing harmful sites that contain malicious links or content.

Device control

Device Control prevents threats from entering your system via hardware devices such as USB sticks, CD-ROM drives, and web cameras. This also prevents data leakage, by allowing read-only access, for example.

DataGuard

Provides additional protection against ransomware, and prevents the destruction and tampering of data.

Application Control

Blocks execution of applications and scripts according to rules created by our penetration testers, or as defined by the administrator. In addition, Application Control can be used to block loading of DLL's or other files for additional security.

XFENCE

Unique security capability for protecting Macs against malware, trojans, back doors, misbehaving applications, and other threats by preventing applications from accessing files and system resources without explicit permissions.

1.2 Solution components

The solution is composed of four main components, each described in this document:

- 1. **Elements Security Center** as a cloud-based management portal
- 2. **Computer Protection** as dedicated security clients for workstations (Windows, Mac)
- 3. Mobile Protection for mobile devices (iOS, Android)
- Server Protection a variety of server platforms (Windows, Citrix, Linux)

1.3 Solution deployment

Endpoint security clients can be deployed by email, local installation, batch script, enterprise management systems (SolarWinds, Kaseya, Datto) or with an MSI package via domain-based remote installation tools. Similarly, Mac clients are deployed as packages using macOS Installer or Mobile Device Management tools and can be configured with additional deployment steps into custom signed packages.

For normal deployments, all endpoint security client deployments can be initiated from the portal via an email flow. The subscription key is automatically included in the link or installer so that the end-user need only click the link for the installation process to start automatically.

For larger environments, you can create an MSI package that can be deployed either with your own remote installation tools or with ours. The Windows client also contains built-in program flags, which can be used to automate client deployment via batch scripting.

Whenever the Windows client is deployed on systems with a conflicting security solution, our sidegrade feature detects it and automatically uninstalls it before continuing with the installation of WithSecure™ software. This ensures a much smoother and faster transition from one vendor to another.

When a new computer is added to Elements Endpoint Protection a default configuration (profile) can be assigned automatically based on its location in an Active Directory hierarchy. This streamlines the deployment process and reduce risks for misconfiguration.

Mobile Protection features are commonly deployed by using a third-party mobile device management (MDM) available with a subscription that support the use of external MDM solutions.

The patch management capabilities are fully integrated into Windows server and workstation clients and can be controlled via the management portal. As a hosted solution, there is no need to install separate agents or management servers or consoles, unlike with traditional patch management solutions.

WithSecure™ Endpoint Proxy, also referred to as Policy Manager Proxy, is provided by WithSecure™ in order to minimize the bandwidth usage while downloading updates to Computer Protection clients. This proxy caches malware signature database updates as well as software updates of the Computer Protection client itself and patch management software updates.

Endpoint protection client software update malware signature databases and the client software itself automatically without administrator having to worry about the updates or upgrades manually.

WithSecure™ partners can customize both the endpoint protection client software and the Elements Security Center with their logo and support link.

2. Elements Security Center

WithSecure™ Elements Endpoint Protection makes it easy to deploy, manage, and monitor the security of your endpoints from a single, intuitive console. It gives you excellent visibility into all of your devices.

The Security Center was designed from the ground up to simplify and accelerate security management in demanding, multi-device and multi-site environments. Below are some examples of how the solution considerably reduces the amount of time and resources needed for security maintenance and management:

- Endpoint clients automatically receive client, security, and database updates, minimizing the time needed for updates and maintenance
- By consolidating the security management of various endpoints and tools into one portal, the overall management is streamlined considerably, saving time
- Patch Management can be set to deploy missing security patches automatically as soon as they are available, saving time from manual software updates

- As a hosted service, there is no server hardware or software to install or maintain all you need is a browser
- The portal has been designed by a dedicated User Experience team to utilize the most optimal user journeys, greatly increasing user efficiency

The console-endpoint communication works in real time. This allows IT admins to manage and monitor the security of the environment without disruptions or delays caused by polling intervals.

In essence, it allows IT admins to configure, deploy, and validate changes in one go. And if there is a security incident that needs to be solved 'right now', you can remediate and deploy a fix immediately.



You can create and customize individual security policies (profiles) and assign them either individually or in groups to computers, and servers by using labels. All settings and policies can be enforced down to the individual level if needed so that end-users cannot change them. Policies can be created e.g. per Active Directory group and assign the policies automatically to devices attached to the group.

The management portal gives you a complete overview of the security status of your entire environment. This includes potential software vulnerabilities, missing security updates, and the status of security features like real-time scanning and firewall. By using Security Events IT admins can easily see all alerts in one central location.

For example, you can track the number of blocked infections and pay closer attention to the devices that are attacked the most. You can set automatic email alerts so that specific infection parameters get your attention first. If you need more information on any particular infection, you can obtain it directly from our security database.

The management portal delivers a wide range of graphical reports in an intuitive format, making data easier and faster to digest and understand—and more appealing for stakeholders to read. Device security details can also be exported as CSV files if required.



3. Computer protection

Endpoint protection for computers forms the cornerstone of any secure environment. And in today's security landscape, it is vital to ensure that protection goes well beyond traditional anti-malware. With WithSecure™ Elements Endpoint Protection, it is simple to deliver powerful, resource-friendly security for Windows, Mac, and Linux computers.

3.1 Combining all required endpoint protection stack into one

Modern endpoint protection suites employ a multi-layered approach to providing security. Technologies such as network filtering and scanning, behavioral analysis, and URL filtering augment traditional file scanning components. These different protection features are built into WithSecure™ Ultralight in a multi-layered design, so that if a threat escapes one layer, there is still another layer that can catch it. And as the threat landscape changes, some layers may be removed, or new ones may be added both in the endpoints and in the cloud.

Ultralight combines all of the technologies present in WithSecure's full endpoint protection stack into a single package. It consists of a number of drivers, engines, and system services that provide mechanisms to protect both a device and its users. Ultralight provides traditional anti-virus functionality, such as real-time file scanning and network scanning. In addi-

tion, it includes modern, proactive protection technologies that aim to stop zero- day exploits and stay ahead of new attacks. WithSecure's Security Cloud provides Ultralight components with real- time information as the threat landscape changes.

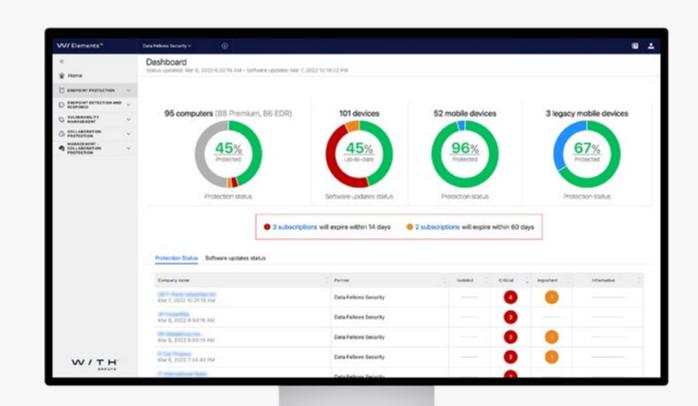
For more information on the integrated protection technologies done by Ultralight, see the <u>technical whitepaper</u>.

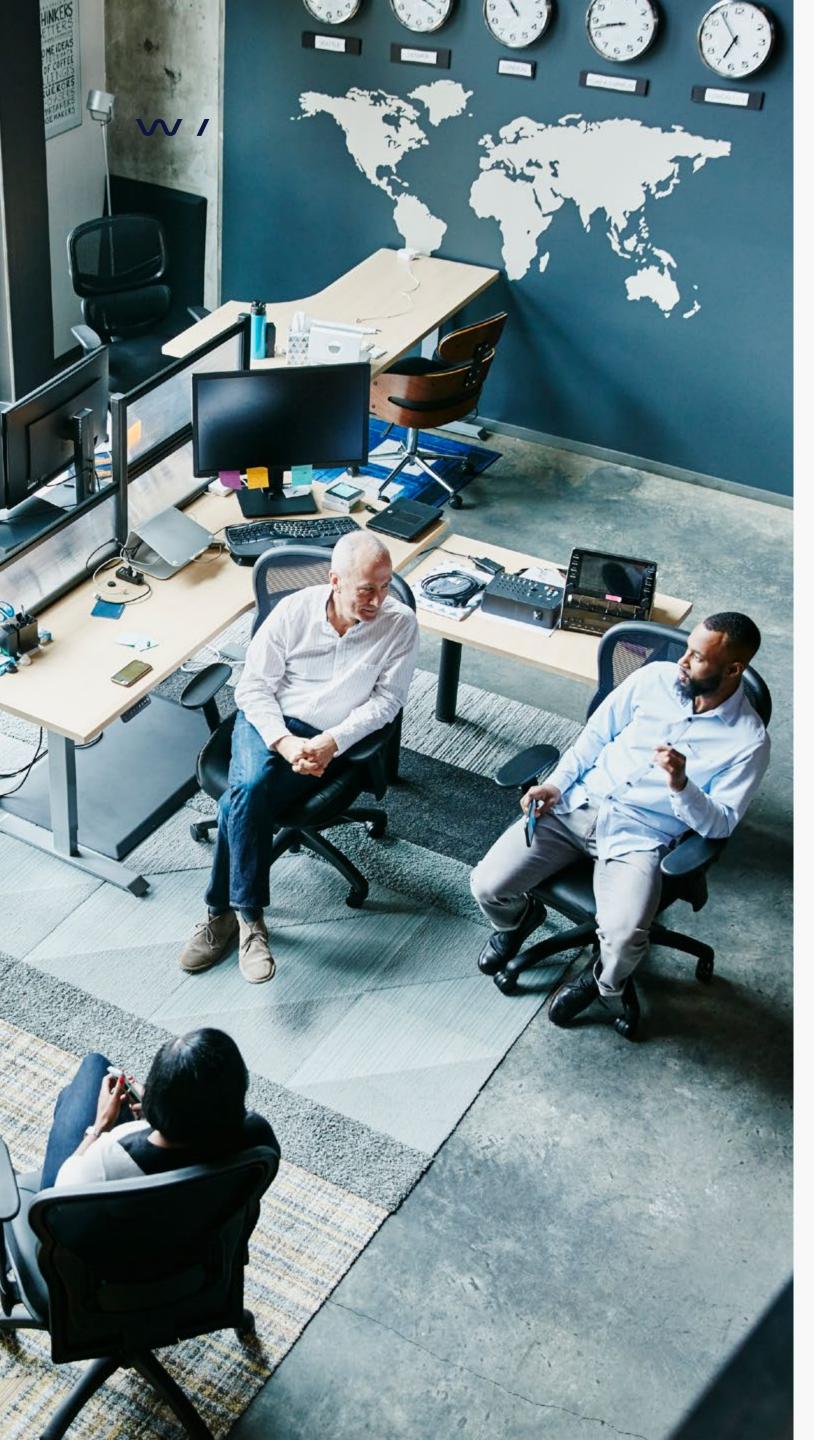
3.2 Heuristic and behavioral threat analysis

Heuristic and behavioral threat analysis, done by DeepGuard, is critical in identifying and blocking the most sophisticated malware prevalent today. DeepGuard provides immediate, proactive, on-host protection against new and emerging threats by focusing on malicious application behavior rather than through static identification of specific, known threats.

This shift in focus allows it to identify and block previously unseen malware based on their behavior alone, neatly providing protection until security researchers are able to analyze and issue a detection for that specific threat.

By communicating with WithSecure's Security Cloud, Deep-Guard is also able to use the latest reputation and prevalence information available for any previously encountered object





to fine-tune its security evaluations, reducing the risk of false positives or redundant analyses that can interfere with the user experience.

The on-host behavioral analysis also extends to intercepting attacks that attempt to exploit vulnerabilities in popular programs in order to install malware onto the machine. Deep-Guard is able to identify and block routines that are characteristic of an exploit attempt, preventing exploitation – and in turn, infection. Exploit interception safeguards users from harm even when vulnerable programs are present on their machine.

For more information about the heuristic and behavioral threat analysis done by DeepGuard, see the <u>technical whitepaper</u>.

3.3 Real-time threat intelligence

The security client uses real-time threat intelligence provided by WithSecure's Security Cloud, ensuring that all new or emerging threats are identified, analyzed, and prevented within minutes.

A cloud-based threat analysis service affords many benefits over traditional approaches. WithSecure™ gathers threat intelligence from tens of millions of client nodes, building a real-time picture of the global threat situation.

For example, if heuristic and behavioral threat analysis identifies a zero-day attack on another endpoint on the other side of the world, the information is shared with all protected devices via Security Cloud—rendering the advanced attack harmless mere minutes after initial detection.

For more information on the functions and benefits of WithSecure's Security Cloud, see our <u>technical whitepaper</u>.

3.4 Designed specifically for macOS

WithSecure™ Computer Protection for macOS includes XFENCE, a unique security capability for Macs. The product takes advantage of modern macOS security capabilities enhancing the protection against malware, trojans, back doors, misbehaving applications, and other threats without sacrificing usability and performance. The powerful XFENCE protection prevents errant processes, ransomware and other malware from accessing your files and system resources without explicit permission.

WithSecure™ Computer Protection for macOS leverages advanced rule-based analysis to monitor apps that attempt to access confidential files and system resources, enhanced by the threat intelligence provided by Security Cloud to minimize false positives and user interaction through allow/disallow prompts.

In addition, WithSecure™ Computer Protection for macOS provides application layer firewall that can configure and control network access on application level. It can be used to isolate hosts, to allow network access only to trusted singed applications, and to blacklist/whitelist applications by bundle id.

WithSecure™ Computer Protection for macOS comes with admin tools for easy deployment and management of the Mac clients.

3.5 Protection for Linux endpoints

WithSecure™ Elements Endpoint Protection includes protection for Linux in WithSecure™ Server Protection. The product can be used to protect endpoint devices as well.

3.6 Integrated patch management

Windows endpoints include an automated patch management feature that is fully integrated with the clients. There is no need to install separate agents, management servers, or consoles.

It works by scanning for missing updates, creating a vulnerability report based on missing patches, and then downloading and deploying them automatically. You can also choose to install updates manually if needed. Security patches include Microsoft updates and 2500+ third-party applications such as Flash, Java, OpenOffice, and others that commonly serve as attack vectors due to their popularity and larger number of vulnerabilities.

Administrators can define detailed exclusions for the automatic mode based on software names or bulletin IDs. Some updates are excluded by definition, such as Service Packs. Administrators can also flexibly define the day and time when installations should be performed, as well as how restarts are forced and the grace time before forcing a restart after installation.

Patch management is a critical security component. It's the first layer of protection when malicious content reaches endpoints and can prevent up to 80% of attacks simply by installing software security updates as soon as they become available.

3.7 Multi-engine anti-malware

Our computer component utilizes a proprietary, multi-engine security platform to detect and prevent malware. It offers superior protection compared to traditional signature-based technologies:

- Detects a broader range of malicious features, patterns, and trends, enabling more reliable and accurate detections, even for previously unseen malware variants
- By using real-time look-ups from WithSecure's Security Cloud, it can react faster to new and emerging threats in addition to ensuring a small footprint
- Emulation enables detection of malware that utilize obfuscation techniques, and offers another layer of security before a file is run

3.8 Location based profiles

WithSecure™ Elements Endpoint Protection can be configured to trigger different configurations based on the endpoint's location. As an example the admin can set up network locations and rules so that when a device is at home, the Patch Management and firewall are on, but when at the office, both Patch Management and firewall are off.

3.9 Flexibility by assigning automated tasks

WithSecure™ Elements Endpoint Protection can be configured to run certain automated tasks on a very granular manner. As an example, product updates can be configured to be run at a specific time, install missing critical and other security updates immediately, scan for missing security updates on every day, and run a full system scan for malware on every weekday. By using the automated tasks you can configure endpoint protection to fit into your company's security needs with minimum performance impact.

3.10 Extensive and proactive web protection

Furthermore, the solution offers extensive and proactive web protection, ensuring the most exploited attack vector is well defended.

- Proactively prevents access to malicious and phishing sites even before they are accessed (e.g. on Google search and when clicking on a web link). This is particularly effective, as early intervention greatly reduces overall exposure to malicious content and therefore to attacks.
- It prevents the exploitation of active content such as Java and Flash, which are utilized in the vast majority of online attacks. These components are automatically blocked on unknown and suspicious sites based on their reputation data, with the option of setting exclusions.
- The solution can also be used to restrict inappropriate web usage, granularly denying or allowing access to non-work-related destinations, such as social media sites and adult sites, to maximize efficiency and avoid malicious sites.

- After the initial layers of web protection, the content in HTTP web traffic is also subjected to analysis in order to provide additional protection against malware, before it gets into contact with the endpoint itself.
- IT admins can also designate business-critical web activities that utilize HTTPS (like intranets or sensitive cloud services, for example CRMs) to use an additional security layer. When active, it closes all untrusted network connections, preventing attacks and exfiltration of data from the services during the session.

The security features vary depending on the chosen operating system. Below is an overview of the feature comparison between Windows, macOS, and Linux.

	Windows	macOS	Linux
Security			
Anti-malware	Yes	Yes	Yes
DeepGuard	Yes	No	No
DataGuard	Yes	Yes*	No
Security cloud	Yes	Yes	Yes
Patch management	Yes	No	No
Application control	Yes	No	No
Browsing protection	Yes	Yes	No

	Windows	macOS	Linux
Security			
Web traffic scanning	Yes	No	No
Web content control	Yes	Yes	No
Content type filtering	Yes	No	No
Connection control	Yes	Yes	No
Firewall	Yes	Yes	No
Integrity checking	No	No	Yes

^{*} Part of the functionality provided by XFENCE

4. Mobile protection

Maintaining control over mobile devices is a fundamental aspect of modern cyber security. With Elements Mobile Protection, IT admins have an easy way to secure and control mobile devices, both Android and iOS.

The component delivered by WithSecure™ Elements Mobile Protection includes everything that is needed for exceptional mobile protection in one package: personal VPN, Wi-Fi security, and proactive App (Android) and web protection.

The mobile client is also designed to complement and be deployed via third-party MDM solutions.

4.1 Mobile VPN

The mobile VPN automatically encrypts traffic between your mobile device and a selected

WithSecure™ service node, allowing your employees to safely use public Wi-Fi and mobile networks.

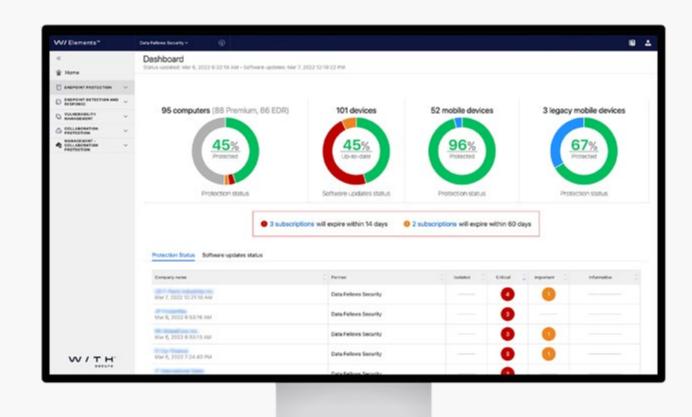
It prevents the interception of emails, browser sessions, and use of online services, in addition to providing an extra security layer over HTTPS connections. It also enables you to change your virtual location, hide your IP address, and access local services when abroad.

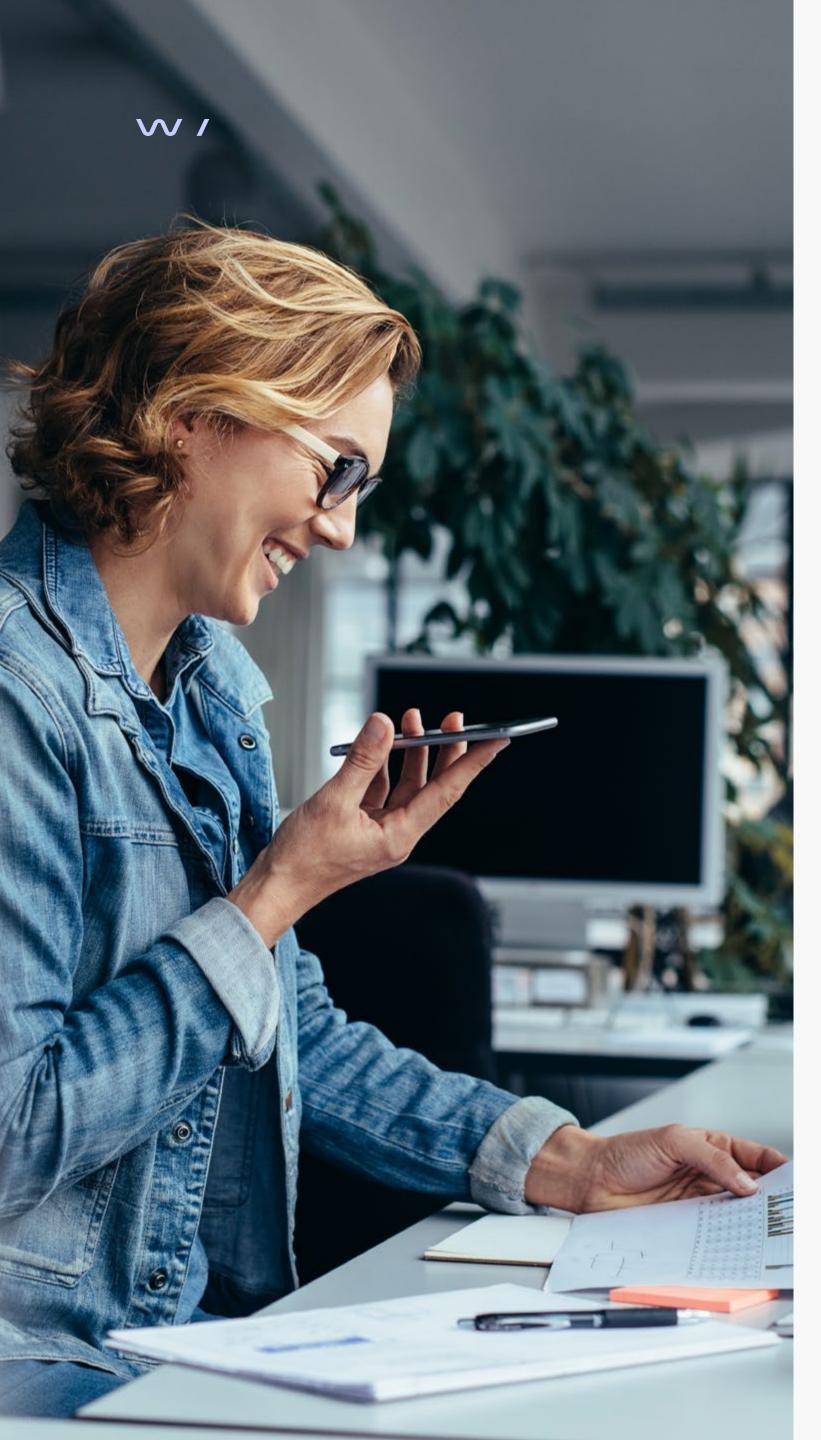
4.2 Security Cloud

The security client uses real-time threat intelligence provided by WithSecure's Security Cloud, ensuring that all new or emerging threats are identified, analyzed, and prevented within minutes.

A cloud-based threat analysis service affords many benefits over traditional approaches. We gather threat intelligence from tens of millions client nodes, building a real-time picture of the global threat situation. For example, when an APK or file is downloaded, it is scanned and additionally its reputation is checked in the Security Cloud. Malicious files are prevented from running and unknown files or apps are uploaded for deeper analysis. Scan results benefit all users, for example by minimizing false positives and rendering new attacks harmless in a matter of minutes.

For more information about the functions and benefits of WithSecure's Security Cloud, see our <u>technical whitepaper</u>.





4.3 Application protection

When the VPN connection is active, mobile devices are automatically protected against malware and malicious content.

WithSecure™ service nodes scan the traffic at the network level, utilizing the full extent of available security analytics.

This allows us to provide better security than traditional mobile security solutions:

- Security is not hampered by limited mobile device resources
- Resource-intensive processes do not impact device performance and battery life
- Network-level scanning prevents contact with malicious content in the first place

For Android devices, security is further enhanced with local scanning—including real-time reputation checks from the WithSecure™ Security Cloud—even when the VPN is not connected.

4.4 Browsing protection

Browsing protection is a key security layer that proactively prevents end-users from visiting malicious sites. This is particularly effective, as early intervention greatly reduces overall exposure to malicious content - and therefore to attacks.

For example, Browsing protection prevents end-users from being tricked into accessing seemingly legitimate phishing sites, accessing malicious sites through an email link, or getting infected through malicious third-party advertisements on otherwise legitimate sites.

4.5 Faster browsing and less data use

The component is designed to have a minimal impact on mobile performance and battery life. In fact, by using traffic compression over VPN and preventing online tracking and advertising with Anti-Tracking, it increases browsing speed.

4.6 Third-party MDM deployment

The mobile client is also designed to complement and be deployed via third-party Mobile Device Management (MDM) solutions, such as AirWatch, MobileIron, Intune, and MaaS360.

By using a dedicated security component on top of the basic capabilities provided by the MDM solution, IT admins can significantly increase the security against malware, data theft, and phishing attempts that target mobile devices.

5. Server protection

Servers are critical to a company's communication, collaboration, and data storage. Elements Endpoint Protection provides security for servers while enabling them to run at peak performance. The solution provides security for Windows, Citrix, and Linux servers.

Below is an overview of the core capabilities for different server platforms:

	Windows	CITRIX	Linux
Core security			
Anti-malware	Yes	Yes	Yes
DeepGuard	Yes	Yes	No
Security cloud	Yes	Yes	Yes
Patch management	Yes	Yes*	No
Browsing protection	Yes	Yes	No
Web traffic scanning	Yes	Yes	No
Firewall	Yes	No	No
Integrity checking	No	No	Yes
Remote management via portal			
Security management	Yes	Yes	Yes
Security monitoring	Yes	Yes	Yes

5.1 Heuristic and behavioral threat analysis

Heuristic and behavioral threat analysis, done by DeepGuard, is critical in identifying and blocking the most sophisticated malware prevalent today. DeepGuard provides immediate, proactive, on-host protection against new and emerging threats by focusing on malicious application behavior rather than through static identification of specific, known threats. This shift in focus allows it to identify and block previously unseen malware based on behavior alone, neatly providing protection until security researchers are able to analyze and issue a detection for that specific threat.

By communicating with WithSecure's Security Cloud, Deep-Guard is also able to use the latest reputation and prevalence information available for any previously encountered object to fine-tune its security evaluations, reducing the risk of false positives or redundant analyses that can interfere with the user experience. The on-host behavioral analysis also extends to intercepting attacks that attempt to exploit vulnerabilities in popular programs in order to install malware onto the machine. DeepGuard is able to identify and block routines that are characteristic of an exploit attempt, preventing exploitation – and in turn, infection. Exploit interception safeguards users from harm even when vulnerable programs are present on their machine.

For more information on the heuristic and behavioral threat analysis done by DeepGuard, see the technical whitepaper.

5.2 Real-time threat intelligence

The security client uses real-time threat intelligence provided by WithSecure's Security Cloud, ensuring that all new or emerging threats are identified, analyzed, and prevented within minutes.

A cloud-based threat analysis service affords many benefits over traditional approaches. WithSecure™ gathers threat intelligence from tens of millions of client nodes, building a real-time picture of the global threat situation. For example, if the heuristic and behavioral threat analysis identifies a zero-day attack on another endpoint on the other side of the world, the information is shared with all protected devices via Security Cloud— rendering the advanced attack harmless mere minutes after initial detection.

For more information on the functions and benefits of WithSecure's Security Cloud, see our technical whitepaper.

5.3 Integrated patch management

The component includes an automated patch management feature that is fully integrated with Windows server clients. There's no need to install separate agents, management servers, or consoles.

It works by scanning for missing updates, creating a vulnerability report based on missing patches, and then downloading and deploying them automatically. You can also choose to install updates manually if needed. Security patches include Microsoft updates and 2500+ third-party applications such as Flash, OpenOffice, and others that commonly serve as attack vectors due to their popularity and large number of vulnerabilities.

5.4 Multi-engine anti-malware

Our computer component utilizes a proprietary, multi-engine security platform to detect and prevent malware. It offers superior protection to traditional signature-based technologies:

- Detects a broader range of malicious features, patterns, and trends, enabling more reliable and accurate detections, even for previously unseen malware variants
- By using real-time look-ups from the WithSecure™ Security Cloud, it can react faster to new and emerging threats in addition to ensuring a small footprint
- Emulation enables detection of malware that utilizes obfuscation techniques, and offers another layer of security before a file is run

5.5 Proactive web protection

Furthermore, the solution offers extensive and proactive web protection for terminals, ensuring the most exploited attack vector is well defended.

- Proactively prevents access to malicious and phishing sites even before they are accessed. This is particularly effective, as early intervention greatly reduces overall exposure to malicious content, and therefore to attacks.
- After the initial layer of web protection, the content in web traffic (HTTP) is also subjected to analysis, in order to provide additional protection against malware, before it gets into contact with the endpoint itself.

5.6 Citrix and Terminal Servers

On top of the same core security capabilities as for Windows servers, the Citrix component provides additional protection for Citrix environments by extending the integrated patch management capabilities for published applications. The client is Citrix Ready-certified, ensuring that it works flawlessly in Citrix environments. Similarly, Server Protection provides protection for Windows terminal servers. Please note that customers using Server Protection in remote desktop environments need a license for WithSecure™ Remote Desktop Protection as well.

5.7 Linux

Linux Protection provides core security capabilities for Linux clients: multi-engine on-access scanning, scheduled and manual scans, and integrity checking. It is designed to detect and prevent both Windows and Linux-based attacks, making it particularly useful in mixed environments, where an unprotected Linux machine can be used as an easy attack vector.

5.8 Multi-engine anti-malware

The clients utilize a proprietary, multi-engine security platform to detect and prevent malware. It offers superior protection to traditional signature-based technologies, with the added benefit of not being reliant on one technology alone. The platform detects a broader range of malicious features, patterns, and trends, enabling more reliable and accurate detections, even for previously unseen malware variants.

5.9 Integrity checking

The component comes with a built-in integrity checker, which detects and prevents attackers from tampering with kernels, system files, or configurations. It is a vital security feature, as it protects the system against unauthorized modifications, which could otherwise go unnoticed.

Integrity checking can be configured to send alerts to the administrator of any attempts to modify the monitored files. This makes unauthorized changes easy to detect, ensuring that any incident response actions can be taken without delay. If changes are needed on the baseline, for example due to OS, security, and software updates, admins can use a protected installation tool to make the necessary updates without any hassle.

6. Integration with SIEM/RMM

WithSecure™ Elements Endpoint Protection can be fully integrated with an SIEM, RMM, or any other third-party auditing, management, or reporting tool with WithSecure™ Elements Connector. These include tools offered by Kaseya, Tableau, N-Able, Splunk, among many others.

The integration helps to leverage an organization's existing investments and benefits from centralized tools, for example by streamlining the administrator's security and incident response-related work.

By using the capabilities of the SIEM/RMM systems, the integration enables – for example – the creation of additional automation, customized workflows, and reports, further reducing the workload and optimizing the solution towards your organization's specific needs. The scope of the integration can be as large or as small as needed, as any operation can be accessed individually via the API calls. For example, IT admins can opt to only get relevant data to a reporting, logging, or auditing system, rather than integrating the management capabilities as well.

The integration is done via a REST API, called WithSecure™ Management API. It provides access to all the operations and data available in the Management Portal.

For more information about the Management API and SIEM/RMM integration, see the management API description from connect.withsecure.com.

7. Professional services

WithSecure's additional support packages offer a collection of services for more flexible and comprehensive support experience. Our support is available to you during business hours or even in 24/7 service. We offer Advanced – or Premium Support with different level of service to suit your need.

Advanced	Premium
Local business hours (English, Finnish, French, German, Japanese and Swedish)	24/7 (English)
Priority access to technical support	Respond to critical incidents within an hour
Online tools for ticketing and follow-up	Management level escalation
Phone and call-back	Upgrade consultation
Chat and remote	Advice on malware removal

8. Data security

WithSecure™ Elements Endpoint Protection platform uses Amazon Web Services (AWS). This allows us to ensure high availability and fault tolerance, in additional to better response times and ability to scale as needed. Currently available geographic regions are Europe, North America, and APAC.

AWS states that each of their data centers are in alignment with Tier 3+ guidelines. For further information about the AWS datacenters, please see: https://aws.amazon.com/ compliance/

WithSecure™ complies with the privacy regulations and laws in all the countries where it operates.

We take the security of the data centers very seriously, and keep them secure by using dozens of security measures, such as:

- Security by design: Our systems are designed from the ground up to be secure. We embed privacy and security in the development of our technologies and systems from the early stages of conceptualization and design to implementation and operation.
- Rigorous access controls: Only a small vetted group of WithSecure™ employees have access to the customer data. Access rights and levels are based on their job function and role, using the concept of least-privilege matching to defined responsibilities.
- Strong operational security: Operational security is an everyday part of our work, including vulnerability management, malware prevention and robust incident management processes for security events that may affect the confidentiality, integrity, or availability of systems or data.

Who We Are

WithSecure™ is cyber security's reliable partner. IT service providers, MSSPs and businesses along with the largest financial institutions, manufacturers, and thousands of the world's most advanced communications and technology providers trust us for outcome-based cyber security that protects and enables their operations. Our Aldriven protection secures endpoints and cloud collaboration, and our intelligent detection & response is powered by experts who identify business risks by proactively hunting for threats and confronting live attacks. Our consultants partner with enterprises and tech challengers to build resilience through evidence-based security advice. With more than 30 years of experience in building technology that meets business objectives, we've built our portfolio to grow with our partners through flexible commercial models.

WithSecure[™] is part of F-Secure Corporation, founded in 1988, and listed on the NASDAQ OMX Helsinki Ltd.

