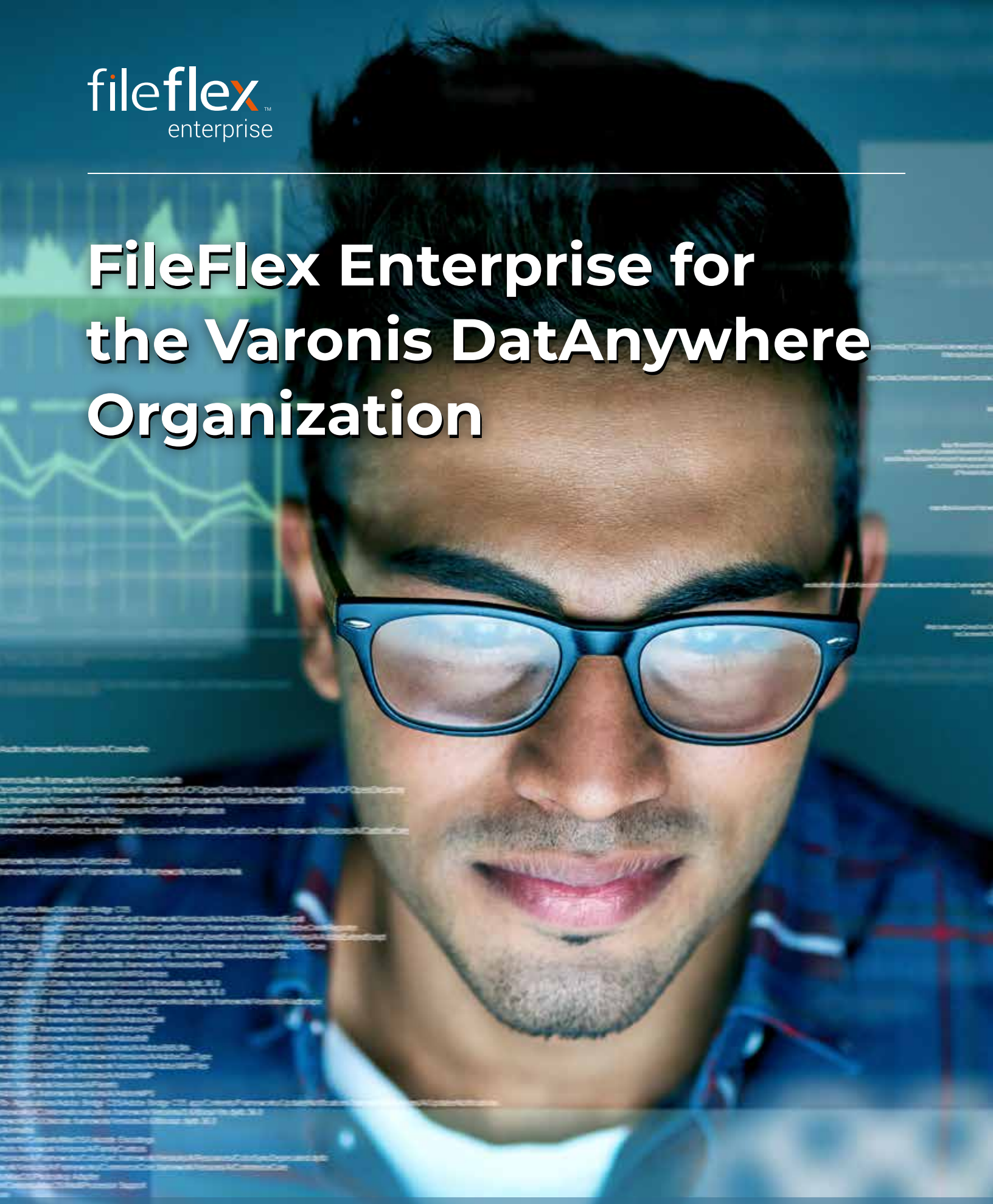
fileflex™ enterprise

FileFlex Enterprise for the Varonis DatAnywhere Organization



FileFlex Enterprise fulfills the value proposition of Varonis DatAnywhere – the ability to add cloud functionality to file shares (file servers) … and a lot more!

It provides secure remote access, sharing and collaboration of all organizational storage and all locations – not just file shares - from a unified dashboard. And FileFlex brings “Fort-Knox” type security with Intel SGX platform hardening. Organizations do not have to modify their processes, infrastructure or permissions in order to give users the cloud functionalities they need. Access controls stay the same, data classification continues to function and data does not need to be moved to a new server or a third-party.

Overview

Organizations store massive amounts of information on servers, server-attached storage like SAN (Storage Area Network), DAS (Direct Attached Storage) and network (NAS) attached storage. Combined, these are commonly called file shares. They can be remotely accessed over the network and they are fast and inexpensive.

The problem is that file share technologies were originally launched in the late 90s, before the rise of mobile devices and the distributed workforces. At that time most users worked in an office and were plugged in to the network. Mobile devices like we have today did not exist. VPNs were around, but were generally only for senior management.

Today users work from anywhere – home, restaurant, airport – and organizations hire workers who are located anywhere in the world. These workers don't connect over the internal network, they connect via the internet. You need to give them the tools to enable the modern distributed workforce efficiencies.

"The problem is that file share technologies were originally launched in the late 90s, before the rise of mobile devices and the distributed workforces."

That's why you implemented DatAnywhere from Varonis. DatAnywhere provided cloud functionality to your file shares. It allowed you to access file share data from remote computers, tablets and smart phones without using a VPN – over the internet. It allowed you to share these files with external parties. It allowed you to create data rooms so that external parties can upload files to you. It honored your Active Directory and device permissions. All the processes and technologies you invested in stayed the same. Best of all, it kept your data on-premises, protecting your confidential documents and helping compliance with privacy regulations like HIPAA and GDPR.

"DatAnywhere provided cloud functionality to your file shares."

With Varonis DatAnywhere you were able to offer your employees cloud experience utilizing your existing infrastructure. You didn't have to modify your processes, infrastructure or permissions in order to give your users the cloud functionalities they needed. Access controls stayed the same, data classification continued to function, and data did not need to be moved to a new server or a third-party. And your users could collaborate without changing a thing.

The problem is that Varonis DatAnywhere will enter End of Life (EOL) in February 2020. That means that organizations that use DatAnywhere need to look for an alternative.

How Varonis DatAnywhere and FileFlex Enterprise are Alike

FileFlex Enterprise fulfills the distinct value proposition of Varonis DatAnywhere – the ability to add cloud functionality to file shares (file servers). Like DatAnywhere, FileFlex Enterprise provides secure access to files stored on an organization's servers and NAS devices from remote computers, tablets and smart phones. It provides sharing of these files with external parties. It allows an organization to create data rooms so that external parties can upload files and it honors Active Directory and device permissions. Like Varonis DatAnywhere, FileFlex Enterprise gives organizations cloud functionality utilizing their existing infrastructure. Organizations do not have to modify their processes, infrastructure or permissions in order to give their users the cloud functionalities they need. Access controls stays the same, data classification continues to function, and data does not need to be moved to a new server or a third-party.

Since no functionality is lost and the core value proposition of DatAnywhere is maintained, FileFlex Enterprise is the perfect migration for organizations that use DatAnywhere.

"FileFlex Enterprise fulfills the distinct value proposition of Varonis DatAnywhere – the ability to add cloud functionality to file shares (file servers)."

FileFlex Enterprise Offers Much More

FileFlex Enterprise goes far beyond remote access and sharing of file servers and network-attached storage. It does this plus much more. More than any other alternative.

Access and Share ALL Storage – Not Just File Shares

FileFlex Enterprise is a highly secure hybrid point-to-point, software-only service based on decentralized cloud or edge technology that provides secure remote access, sharing and collaboration of all organizational storage from source locations - from where the files are saved - storage that the organization already owns, behind their firewall and under their control. No syncing. No duplication. No third parties. No additional server costs. No need to build and maintain a private cloud or purchase expensive redundant cloud storage.

Using patented decentralized cloud or edge technology, FileFlex Enterprise takes the functionality of the cloud and applies it to the entire storage infrastructure (including the file servers), puts it under IT control and allows users to access all of it from a single dashboard. This also includes files stored on

"FileFlex Enterprise is a highly secure hybrid point-to-point, software-only service based on decentralized cloud or edge technology that provides secure remote access, sharing and collaboration of all organizational storage from source locations."

infrastructure-as-a-service providers (IaaS) such as Amazon AWS S3, Microsoft Azure and Google Cloud, files stored on public clouds such as Google Drive, OneDrive and Dropbox, files stored on EFSS providers such as Box, files stored on private clouds, files stored on PCs and files stored in SharePoint – all from a single 'pane-of-glass' or dashboard.

Robust, Secure and Private File Sharing

With FileFlex you can remotely share files without having to sync, move, duplicate or upload them to the cloud by providing shared access from source locations - where the files are saved. File sharing and access to shared files is always through the FileFlex application and not through the use of attachments or links. This ensures that file sharing itself is subject to permission-based user authentication, layered security and visibility and control of IT.

The edge-computing technology of FileFlex Enterprise makes files and folders shared act like an extension of the recipient's local device. There are no storage limitations, no file size limits, no quality degradation (no compression) and no complicated IT type setup requirements for the sharing of files. Watch the demo

Content Collaboration Platform (CCP)

In addition to providing remote access and sharing to file shares, FileFlex Enterprise enables content collaboration of those files for individuals and teams inside and outside the organization. Content collaboration ability applies not just to file shares, but to all storage locations, from source locations on owned storage without duplicating or syncing confidential content to a secondary location or a third-party server. Your users can collaborate using their favorite applications like Office 365 or Google Docs. Activity tracking, audit trail, version control, file locking, a unified workflow across devices, and simple, secure access make teams more productive, protects organizational information and provides visibility and control to IT.

Remote File Management Between Storage Devices and Locations

In addition, FileFlex Enterprise provides remote file management between these storage locations. Storage locations are no longer separate silos. Using a consistent user experience, from any remote PC, tablet or smartphone, a user can perform file management functions like cut, copy, paste, rename, delete and create a folder between any and all company storage. And, as well, they can share any files that they have, stream any media or collaborate with file editing and locking. Thus, FileFlex Enterprise integrates all storage and eliminates the pain of having separate silos. Watch the demo

“The User Administration Console includes strong IT control over file sharing.”

IT Control

The User Administration Console includes strong IT control over file sharing where sharing can be controlled or restricted, downloading can be restricted and even collaboration

of PHI (Personal Health Information) and PII (Personally Identifiable Information) can be controlled so that no copies are ever stored on remote devices, third-party servers or by unauthorized parties.

With FileFlex, organizations provide IT controlled access to files in their source locations or upload permission to verified trusted senders. Since access is subject to user authentication it is the perfect tool for organizations that are moving their cybersecurity paradigm from the traditional perimeter approach to the zero-trust model where information access is controlled and all users and all devices must always be authenticated.

Intel SGX Platform Hardening

FileFlex Enterprise is the only solution that has the option of using Intel® SGX platform hardened secure enclaves for encryption key generation to provide added protection at the deepest level – within the silicon itself – and provide added protection against shared data being snooped or tampered with at any stage of access or transmission – even if the system is compromised. Watch the video

Privacy and Compliance

FileFlex Enterprise is differentiated from cloud storage options in that it uses a decentralized or edge computing architecture instead of the centralized cloud model. Instead of transferring and storing data in a central data center located miles away from connected devices, edge computing leverages the CPU power and storage of the end-point devices who communicate directly with each other. Privacy and confidentiality are protected by keeping data in source locations, on-premise, behind the corporate firewall, on corporate storage assets, in specific geographic regions and

access controlled to prevent secret exfiltration from third parties. This also accelerates compliance with GDPR, HIPAA and all other privacy regulations. More

Unparalleled Security and Lowered Risk Posture

Since FileFlex Enterprise involves no duplication, no third parties and files are kept on organizational storage in their source locations behind the firewall, the result is a significantly reduced threat surface, a simplified storage structure and governance, risk management and compliance (GRC) under organizational control. Add AES 256 encrypted hybrid point-to-point communication, optional double-encryption, Intel SGX hardware hardening, U2F universal two-factor authentication, device authentication, virus scanning, single sign-on (SSO), active directory integration, and operation and incident management and you have a solution offers a much lower risk posture. And FileFlex Enterprise adds confidentiality, integrity and availability capabilities (CIA) with minimal impact on existing processes and infrastructure. More

Governance, Risk Management and Compliance (GRC) Under Organizational Control

Since files are kept in their source locations on existing infrastructure and behind the firewall, data that is already under the GRC framework and under organizational control stays that way.

Support for Hybrid Cloud, Multi-Cloud and IaaS Environments

Provides cloud functionality to an organization's hybrid and multi-cloud environments and Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure and Google Cloud. More

"Privacy and confidentiality are protected by keeping data in source locations, on-premise, behind the corporate firewall, on corporate storage assets, in specific geographic regions and access controlled."

The Perfect Addition to SharePoint

FileFlex Enterprise is the perfect addition to an implementation of SharePoint. If the implementation is on-premises, then FileFlex will provide remote access and collaboration to a distributed workforce and allow for sharing with external users. Organizations do not need to migrate their SharePoint to the cloud-based version, they don't have to add external users to their SharePoint and users don't need to use a VPN for remote access. If the implementation of SharePoint is either cloud-based or on-premises, then FileFlex integrates SharePoint in a 'Single-Pane-of-Glass' dashboard with the entire corporate infrastructure to address the pain of having separate silos. More

"FileFlex Enterprise is the perfect addition to an implementation of SharePoint."

Improved Productivity

The decentralized cloud or edge computing architecture of FileFlex Enterprise addresses the inefficiency issues of uploading, downloading and syncing subsets of data to the limited storage capacity of cloud servers. More

HPE Technology Partner

Qnext is a silver-tier member of the HPE Technology Partner Program. Hewlett Packard Enterprise (HPE) has tested and approved FileFlex Enterprise for secure remote access, sharing and collaboration of all organizational storage with select HPE servers and storage products. It also supports on premise, hybrid and multi-cloud environments. More

Very easy and quick to install, configure and maintain

In most cases no additional manpower or infrastructure resources are required.

The Layered Security Ecosystem of FileFlex

Decentralized Edge-Cloud Technology: On-premises data storage to protect confidential data privacy from access and exfiltration from third parties.

Secure Patented Architecture: FileFlex server, PKI server, connector agent and client app are used in a patented process along with AE256 symmetric encryption to protect the user data.

Intel SGX Silicon-to-Silicon Hardware Hardening: Key generation in isolated portion of physical memory is not visible to the application layer, the OS layer or even the BIOS to protect against man-in-the-middle, impersonation, intercept and snooping even on systems compromised by malware.

Secure Processes: FileFlex uses a set of secure processes to access, secure and transmit data. These include processes for user authentication, secure data transmission, accessing information, protecting credentials, use of anonymous tokens, request management and permission management.

IT Dashboard & Management Controls: IT controls who is provisioned, who they can share with, how much bandwidth they can consume and what content and storage they can access.

Robust Security Feature Set: AES 256 encrypted hybrid point-to-point communication, optional double encryption, two-factor authentication, device authentication, virus scanning, single sign-on (SSO), active directory integration, activity log and operation and incident management.

Diagram 1 *- The Layered Security Ecosystem of FileFlex*

FileFlex Enterprise uses a layered approach to cybersecurity. The ecosystem created by these layers provides an absolute knock-out punch and brings “Fort-Knox” type security to remote content access, sharing and collaboration.

Decentralized Edge-Cloud Technology

The security architecture starts with decentralized edge-cloud technology. Decentralized edge-cloud is a revolutionary technology that moves processes and storage to on-premises devices that use a hybrid point-to-point connection to communicate directly with each other as opposed to storing and accessing files from a central server. For your organization this is fundamental to protecting the privacy and confidentiality

of your information because FileFlex can be used to keep your data in source locations, on-premises, behind your corporate firewall, on corporate storage assets, in specific geographic regions and access controlled. Access to your files by third-parties needs your express permission and knowledge. Unlike traditional centralized cloud services, secret access without your permission or knowledge is not possible.

Secure Patented Architecture

Underlying decentralized edge-cloud technology is the patented secure architecture of FileFlex Enterprise. The FileFlex server, PKI server, connector agent and client app are used in a patented process along with AES256 symmetric encryption to protect the user data. For your organization, the FileFlex use of encryption, coupled with architectural design and process flow ensures privacy, security and authorized access to content.

"The FileFlex server, PKI server, connector agent and client app are used in a patented process along with AES256 symmetric encryption to protect the user data."

Intel SGX 'Silicon-to-Silicon' Hardware Hardening

FileFlex Enterprise is the only solution that hardens the cybersecurity in hardware using the SGX enclaves of the Intel processor to effect 'silicon-to-silicon' security. Using Intel SGX technology, the encryption keys are generated in an isolated portion of physical memory and is not visible to the application layer, the OS layer or even the BIOS. For your organization this is important to protect against man-in-the-middle, impersonation, intercept and snooping, even on systems compromised by malware.

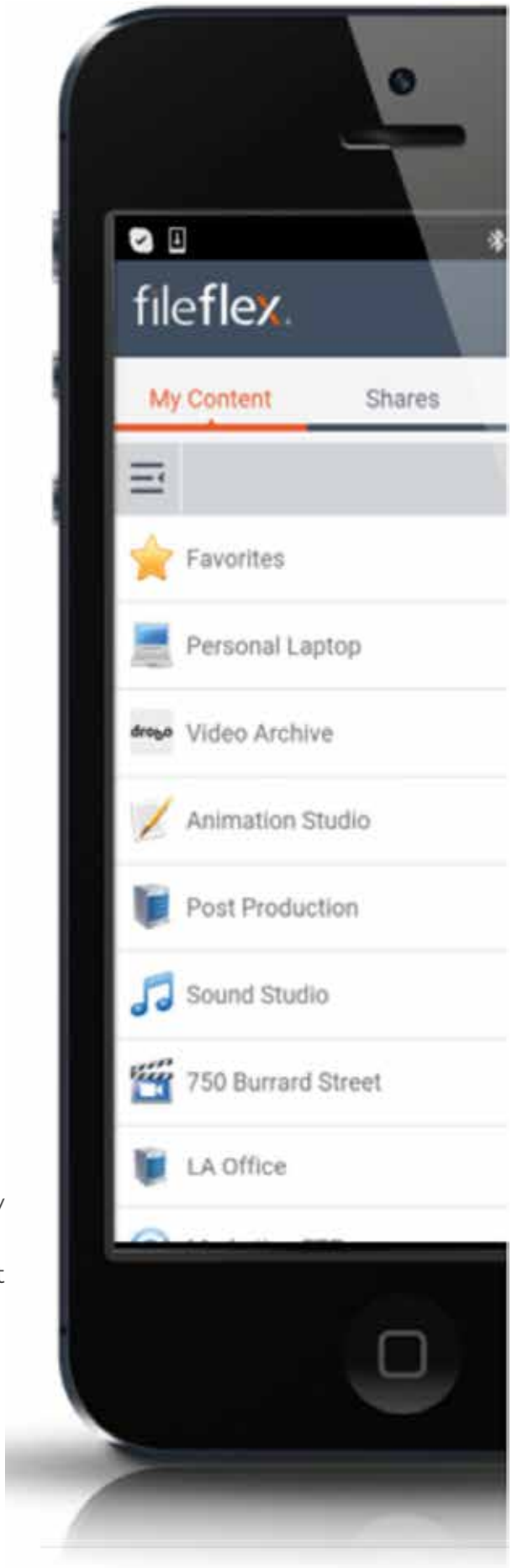
Secure Processes

The architecture of FileFlex Enterprise itself has a layered approach to security and functions using a set of secure processes in how it accesses, secures and transmits data. These include processes for user authentication, secure data transmission, accessing information, protecting credentials, use of anonymous tokens, request management and permission management.

IT Dashboard & Management Controls

FileFlex Enterprise layers its security with a set of management tools for IT putting them in ultimate control over how files are shared in your organization. The toolkit includes strong IT control over file sharing where sharing can be controlled or restricted, downloading can be restricted and even collaboration of PHI and PII can be controlled so that no copies are ever stored on remote devices, third-party servers or by unauthorized parties.

The management console also provides the ability to add and delete users, set permissions, manage the Access Control List (ACL) and control, assign storage and access logged activities. IT controls who is provisioned, who they can share with, how much bandwidth they can consume and what content and storage they can access. This powerful layer gives IT an incredible number of controls that allow IT to adjust FileFlex Enterprise to meet the company's GRC (Governance, Risk Management and Compliance) requirements for security, governance, compliance. They are both powerful and flexible giving IT control over how files are shared, who has remote access to those files and who they can share with.



Robust Security Feature Set

Finally, the security ecosystem is buttoned down with multiple levels and layers of security features such as 256 encrypted hybrid point-to-point communication, optional double-encryption from sender to receiver, generation of encryption keys via Intel SGX hardware hardening, two-factor authentication, device authentication, virus scanning, single sign-on (SSO), active directory integration and activity log for operation and incident management. These tools are used in conjunction with the secure processes to protect your remote file access, sharing and collaboration and in conjunction with the IT dashboard to give your organization control over how files are shared.

Summary

For the DatAnywhere User

Varonis DatAnywhere users who migrate over to FileFlex Enterprise receive the following:

- Remote access, sharing, streaming, collaboration and file management of on-premise file shares without building or maintaining a private cloud
- Ability to add cloud functionality to all company storage, not just file servers
- Ability to add cloud functionality to file servers located with Infrastructure-as-a-Service providers such as Amazon AWS, Microsoft Azure and Google Cloud
- Ability to remotely access, share and collaborate public cloud storage (if permitted) such as Google Drive, Microsoft OneDrive, Dropbox and Box.
- Ability to remotely access, share and collaborate SharePoint files and document libraries
- Ability to aggregate all file servers and organizational storage in any city or country under a single pane-of-glass or dashboard to address the silo of information and access to only specific devices or locations
- Add remote multi-device file management capability such as cut, copy, paste, move, rename, delete and create folders on or between storage silos over the internet without the need to be networked or the use of a VPN
- Add Intel SGX platform hardened silicon-to-silicon secure file access and sharing
- Add Content Collaboration Platform (CCP) capability
- Add automatic photo and video backup capability.
- Ensures privacy, protection against secret data exfiltration and compliance to privacy regulations such as GDPR and HIPAA
- Unparalleled Security - Significantly reduced threat surface, simplified storage structure and governance, risk management and compliance (GRC) under organizational control, AES 256 encrypted hybrid point-to-point communication, optional double-encryption, Intel SGX hardware hardening, U2F universal two-factor authentication, device authentication, virus scanning, single sign-on (SSO), active directory integration and activity log for operation and incident management
- Improved productivity
- Very easy and quick to install, configure and maintain
- Qnext is an HPE Technology Partner

Additional Highlights - For the User

- Provides the DatAnywhere user with a high-quality experience.
- FileFlex Enterprise addresses privacy concerns as it accesses and shares files from source locations using SSL encryption, optional double encryption, SGX hardening, optional U2F two factor authentication, optional device authentication, virus scanning, single sign-on (SSO), active directory integration and activity logging. Nothing is uploaded to Qnext, Varonis, the MSP or any middleman when accessing and sharing content.
- DatAnywhere users can be fully integrated with all storage options - PC or Mac computers, public clouds such as Dropbox, Google Drive, OneDrive and Box, Network Attached Storage devices, servers and server attached storage (SAN and DAS), Infrastructure-as-a-Service providers (Amazon AWS, Microsoft Azure and Google Cloud), FTP storage and select router storage.
- A user is able to share with all their contacts whether Gmail, Outlook, LinkedIn, Yahoo mail or contacts stored on their smartphones.
- Users can share files without quality degradation. Files preserve their original quality as there is no data compression.
- Users have access to an interactive product tutorial, FAQs and Knowledge Base.

Comparison

File Sharing

Description	DatAnywhere	FileFlex
Can share files from file shares (servers, SAN, DAS and NAS storage)	✓	✓
Can share very large files	✓	✓
Supports unlimited storage	✓	✓
Can share multiple files	✓	✓

Description	DatAnywhere	FileFlex
Can share folders	✓	✓
Can send a 'view-only' share that cannot be downloaded	✓	✓
Supports data room functionality and creation of upload folders	✓	✓
Can set an expiration date	✓	✓
Can include a personal note with the file share	✓	✓
Share recipients can only access files via an app to ensure user authentication and security protocols	✓ Via link options and email verification	✓
IT can restrict file sharing of confidential files, folders or limit file sharing of confidential files to view-only or view & print only and prohibit downloading	✓ Has IT toolkit however not as robust as FileFlex	✓
As file sender, keeps a record of all files shared and contacts shared with	✓ Keeps record of share links	✓
Remote file sharing from network-attached devices such as networked PCs, servers, etc.	no Does not support smart networking	✓
File sharing of files stored on cloud services such as Google Drive, OneDrive, Dropbox and Box	no Does not support public cloud access	✓
File sharing of files stored on Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure, Google Cloud	no Does not support IaaS access	✓

Description	DatAnywhere	FileFlex
File sharing of files stored on on-premises SharePoint and cloud-based SharePoint	no Does not support SharePoint access	✓
Does not require the user to download in order to view, access or stream a shared file	no Recipient must download	✓
Can cancel sharing at any time on a file-by-file basis	no Entire link must be cancelled affecting all users who have the link	✓
Can cancel sharing at any time on a user-by-user basis	no Does not support SharePoint access	✓
Can send a 'view & print' only share that cannot be downloaded	no	✓
As file receiver, keeps a record of all files shared to user and contacts that shared those files	no	✓

Remote Access

Description	DatAnywhere	FileFlex
Can remotely access and view files stored on file shares (servers, SAN, DAS and NAS storage)	no Must download to local device	✓
Can remotely access and view files stored on network-attached devices such as networked PCs, servers, etc.	no Does not support smart networking	✓
Can remotely access and view files stored on cloud services such as Google Drive, OneDrive, Dropbox and Box	no Does not support public cloud access	✓

Description	DatAnywhere	FileFlex
Can remotely access and view files stored on Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure, Google Cloud	no Does not support IaaS access	✓
Can remotely access and view files stored on on-premises SharePoint and cloud-based SharePoint	no Does not support SharePoint access	✓

Streaming

Description	DatAnywhere	FileFlex
Can remotely stream media files stored on file shares (servers, SAN, DAS and NAS storage)	no Does not support media streaming. Users must download	✓
Can remotely stream media files stored on network-attached devices such as networked PCs, servers, etc.	no Does not support smart networking	✓
Can remotely stream media files stored on cloud services such as Google Drive, OneDrive, Dropbox and Box	no Does not support public cloud access	✓
Can remotely stream media files stored on Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure, Google Cloud	no Does not support IaaS access	✓
Can remotely stream media files stored on on-premises SharePoint and cloud-based SharePoint	no Does not support SharePoint access	✓
Can stream music files via a playlist	no	✓

Collaboration

Description	DatAnywhere	FileFlex
Can remotely collaborate files stored on file shares (servers, SAN, DAS and NAS storage)	✓	✓
Supports file locking	✓	✓
Supports file versioning	✓	✓
Can remotely collaborate files stored on network-attached devices such as networked PCs, other servers, etc.	no Does not support smart networking	✓
Can remotely stream media files stored on on-premises SharePoint and cloud-based SharePoint	no Does not support public cloud access	✓
Can remotely collaborate files stored on Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure, Google Cloud	no Does not support IaaS access	✓
Can remotely collaborate files stored on on-premises SharePoint and cloud-based SharePoint	no Does not support SharePoint access	✓

Remote File Management

Description	DatAnywhere	FileFlex
Remote file upload, delete, download, cut/copy/paste, rename, create folder, create favorites and file info of file shares (servers, SAN, DAS and NAS storage)	no	✓
Remote management of files with cut, copy, paste, copy to, move to, rename, delete, create folder and create favorite for files located networked devices such as networked PCs, servers, etc	no Does not support smart networking	✓
Remote management of files with cut, copy, paste, copy to, move to, rename, delete, create folder and create favorite for files between and/or located on cloud services such as Google Drive, OneDrive, Dropbox and Box	no Does not support public cloud access	✓
Remote management of files with cut, copy, paste, copy to, move to, rename, delete, create folder and create favorite for files between and/or located on cloud services Infrastructure-as-a-Service providers such as Amazon S3, Microsoft Azure and Google Cloud	no Does not support IaaS access	✓
Remote management of files with cut, copy, paste, copy to, move to, rename, delete, create folder and create favorite for files between and/or located on either on-premises or cloud-based implementations of SharePoint	no Does not support SharePoint access	✓

Security Features

Description	DatAnywhere	FileFlex
Can access and share directly from on-premises file shares source locations without uploading to a secondary server or third-party to ensure privacy of confidential information	✓	✓
Encrypts communications	✓	✓
User authentication of share recipients	✓ Via email authentication	✓
Honors LDAP, Active Directory and device permissions	✓	✓
Activity log for audit and incident remediation of all activities visible to user and IT	✓	✓
Supports single sign-on (SAML)	✓	✓
Can add a second layer of encryption of data stream from sender to receiver to protect against intercept	no	✓
Can generate encryption keys outside of system memory in a PKI server to protect against snooping and intercept	no	✓
Can generate encryptions keys outside of system memory in-silicon using Intel SGX enclave technology to protect against snooping and intercept even on a compromised system	no	✓
Supports use of U2F devices such as YubiKey	no	✓
Supports device authentication	no But can block mobile devices	✓

Administration

Description	DatAnywhere	FileFlex
Can be hosted on-premises	✓	✓
Can be self-hosted	✓	✓
Can host on IaaS servers - Amazon AWS, Microsoft Azure, Google Cloud	✓	✓
Server can run in Windows Server	✓	✓
Can customize branding	✓	✓
Can set user permissions and roles	✓	✓
Server can be multi-tenant	no	✓
Server can run in a VM	no	✓
Server can run in Linux Server	no	✓

Ease-of-use

Description	DatAnywhere	FileFlex
Simple, intuitive navigation and user interface	✓	✓
Easy download and install of iOS and Android mobile clients from app store	✓	✓
Easy install of web client	✓	✓
Easy onboarding of remote capabilities	✓	✓
Search	✓	✓
Email event notifications	✓	✓
Online help and video tutorial resources	no Online resources no longer available	✓
Drag and drop	no	✓
In-app event notifications	no	✓
Can sync photos and videos from mobile devices to file shares storage	no	✓
Can sync photos and videos from mobile devices to IaaS, SharePoint, networked devices or cloud storage	no	✓

Multi-Device

Description	DatAnywhere	FileFlex
Web client	✓	✓
iOS client	✓	✓
Android client	✓	✓
Windows client	✓	✓
Mac client	✓	✓

