EXACOOLA

Product brochure

The most advanced file transfer networks for security-sensitive files

INNORIX

Limitless technology,
Driven by innovation

EXACOOLA
Product brochure

Contents

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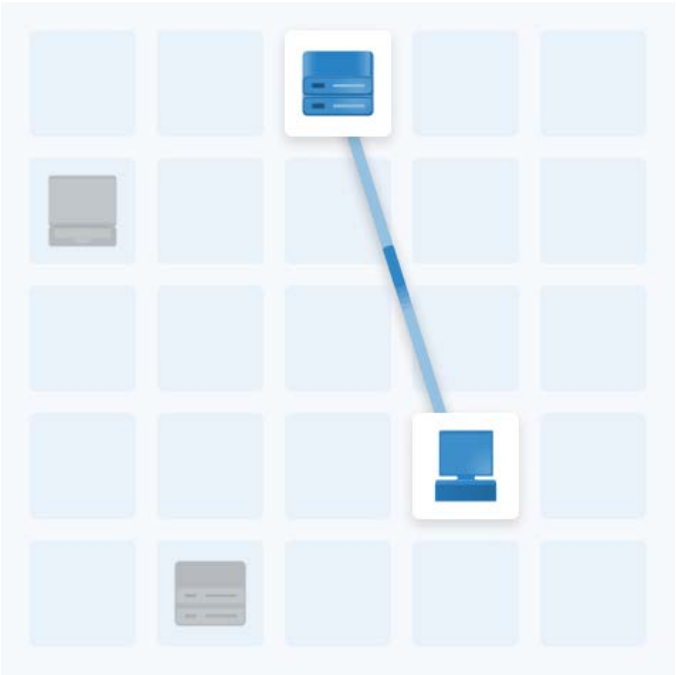
Direct transfers

Direct transfers

Directly transfer files between devices. Exacoola creates the direct transfer channels.

No way to transfer files directly to the destinations, so it is difficult to transfer large files even to nearby staff or devices. Files always have to be shared, sizes are limited, and transfer speeds are slow.

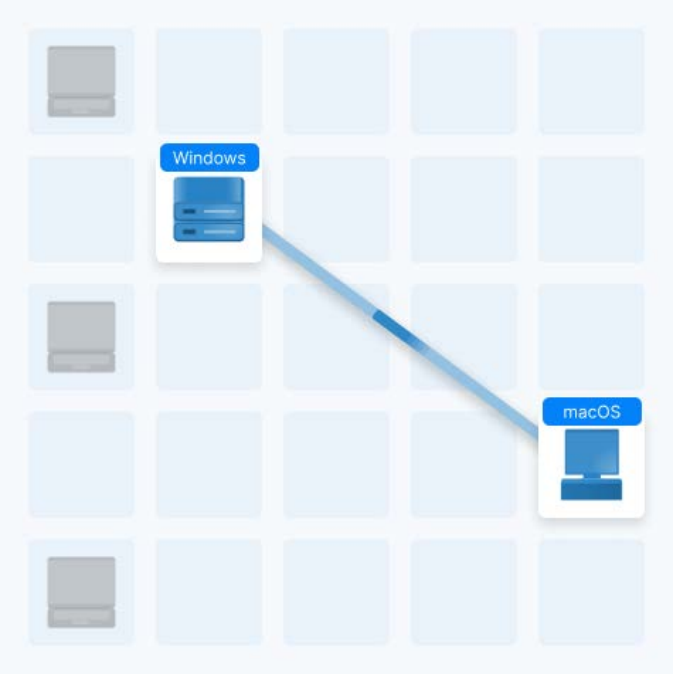
Exacoola creates direct file transfer channels between all devices, enabling the fastest and safest file transfers even for overseas devices.



Different devices

Device type does not matter. macOS, Linux, Windows, Amazon S3, and more are fully supported.

Regardless of device type, Exacoola enables direct file transfers between low-power IoT devices, workstations, servers, virtualized OS, and object storage.



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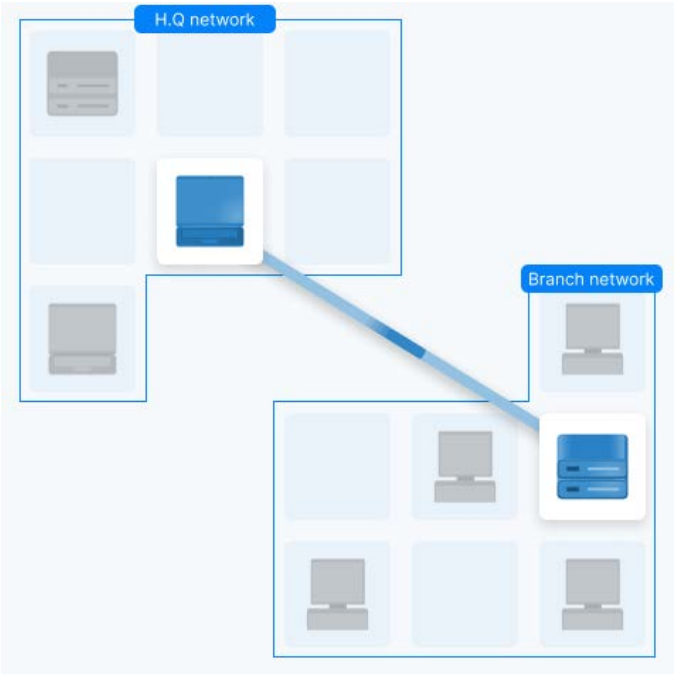
Direct transfers

Different networks

Even if the devices between the H.Q. and overseas branches can not be connected directly.

Regardless of the distances and locations of the devices, files can be transferred even between devices located abroad or distributed in multiple locations.



Supported devices

macOS

macOS 10
macOS 11
macOS 12
macOS 13

Windows

Windows 10
Windows 11
Window server 2016
Window server 2019
Window server 2022

Linux

Ubuntu 18.04
Ubuntu 20.04
Ubuntu 22.04
Redhat 7 to 9
Fedora 22 to 35
CentOS 7 to 9
Debian 8 to 11

Object storage

Amazon S3
MS Azure
Dell EMC
Standard object storage

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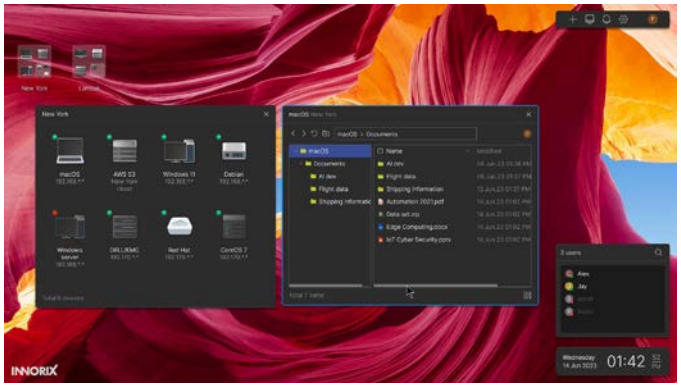
2 Interfaces

Web-based UI

Browse all device files remotely, and easily transfer them between devices

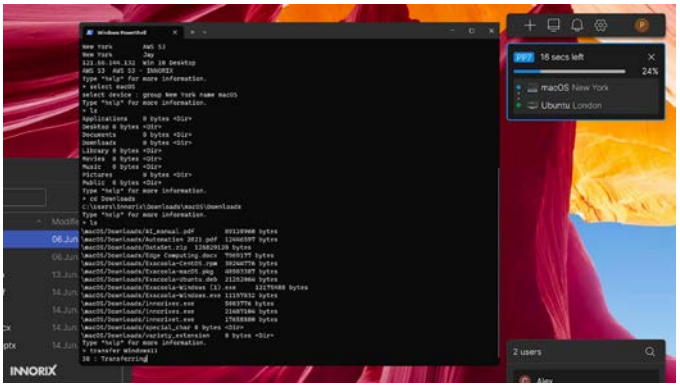
Once the devices are added to Exacoola, you can browse all files on the device remotely in the Exacoola UI, and you can transfer files between devices by drag & drop.

The browsing paths in the device can be limited and can also be changed at any time. Various information such as the network status of all devices, remaining capacity, transfer status, and transfer schedules are provided in the UI.



Linux command

Even in Linux commands, you can easily browse and transfer files on remote devices.



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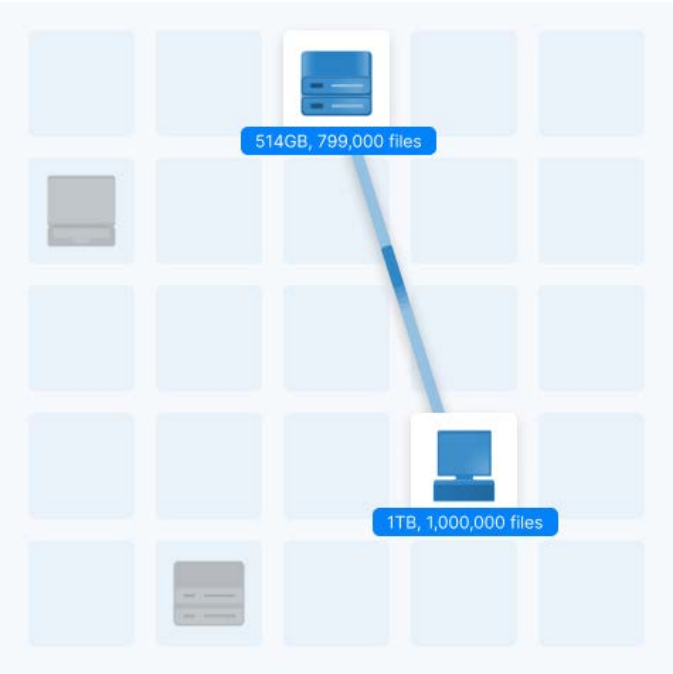
Fast transfers

Always fast

Yes, very fast. More and more files can be transferred at high-speed between more devices.

No need to share large files to transfer. The fastest way to transfer large files between devices is, of course, through direct transfers between devices.

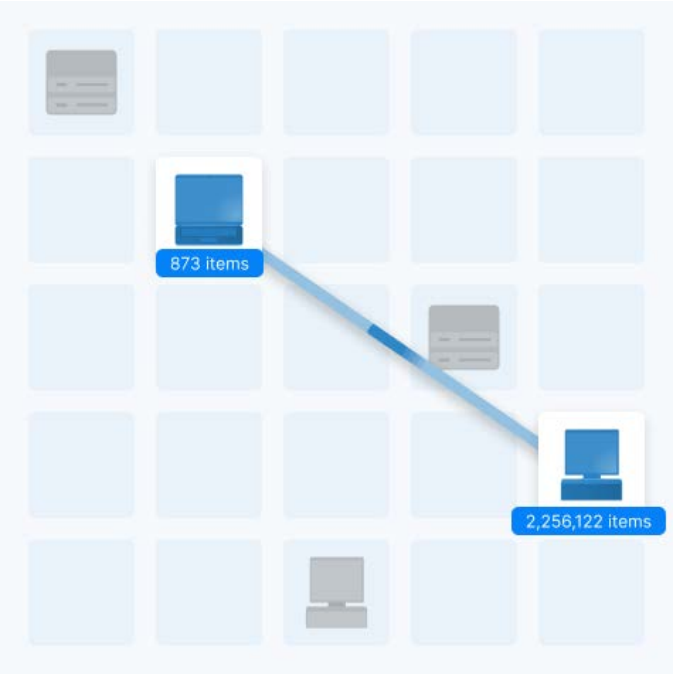
Through Exacoola direct transfer channels, over 10TB of large files and over 1,000,000 multiple files can be transferred between devices at high speeds without any limits on size and number.



Multiple files

Improves slower speeds as the number of files increases and transfers over 6 times faster.

Exacoola reduces the time required to transfer 1,000,000 multiple files by more than 6 times faster, from 3 hours to just 30 minutes.



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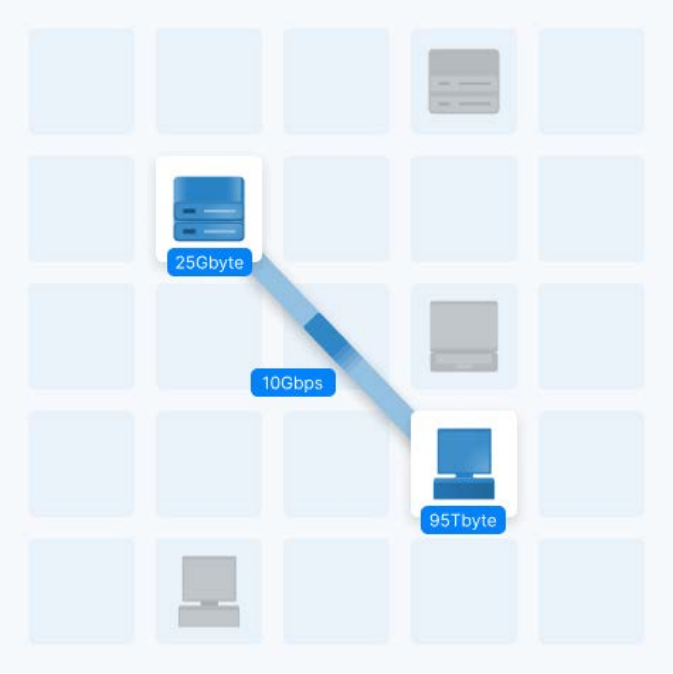
Fast transfers

In-house

Up to 10Gbps, ultra high-speed file transfers are possible between all devices in-house

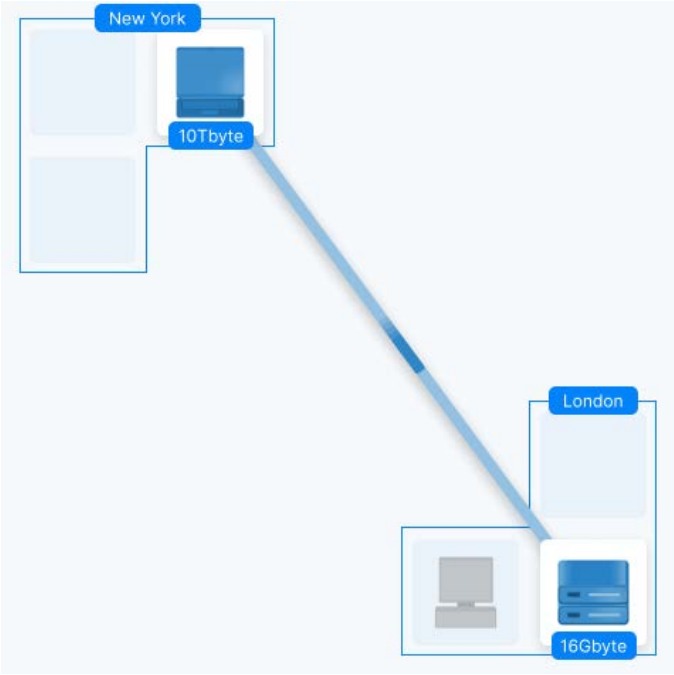
The fastest transfer in-house is only direct transfers between devices. No need to send files to the external sharing server and download them.



Long distances

Exacoola transfers large files at high speeds even to devices on the other side of the globe.

Distance is not a problem. Exacoola transfers files at high speeds over long distances by improving the file transfer speeds, which usually drop off as distance increases.



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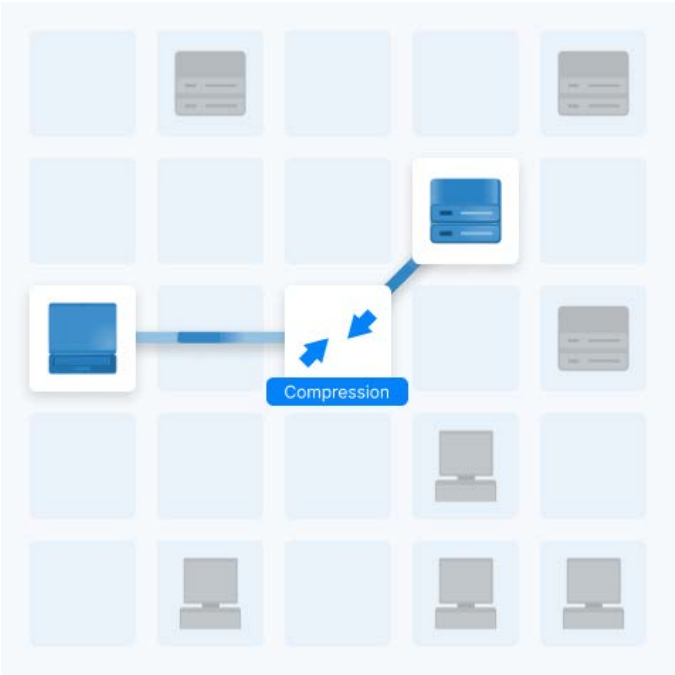
Fast transfers

Compression transfers

Do not be surprised. It could be 20x faster on all the speed improvements so far.

Only compressible files are selectively and automatically compressed. It reduces the total file transfer time including compression and decompression, by more than 20 times.



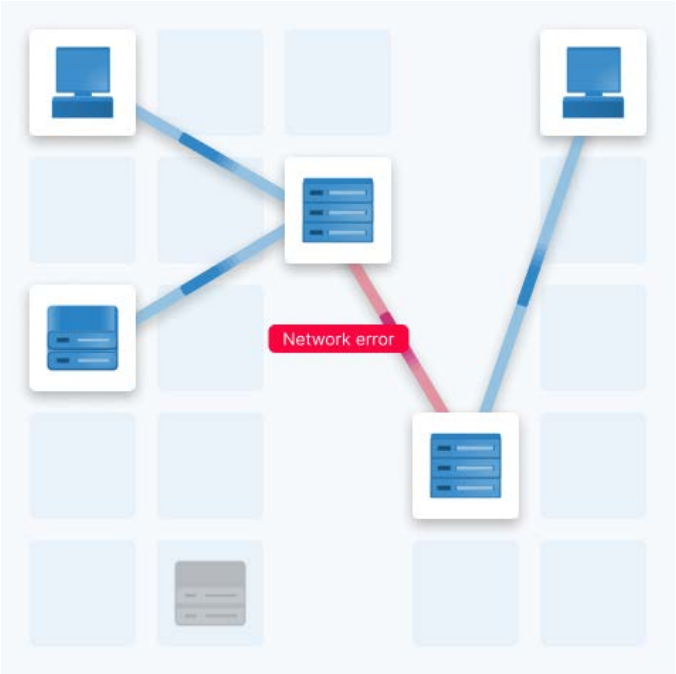
Reliable transfers

Always reliable

Yes, it automatically responds to all situations and completes all file transfers without user interventions.

Exacoola perfectly transfers a large single file of 10TB and multi-files of 1,000,000 without any changes or file loss while transferring.

Even if the networks are very long distance, unstable, disconnected repeatedly, and various errors occur, Exacoola automatically completes all the file transfers without any user interventions.



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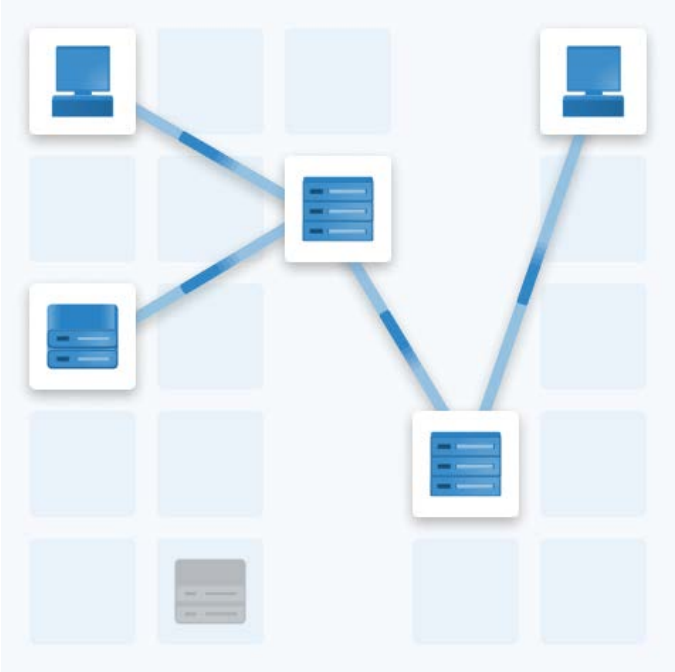
Transfer automation

Transfer automation

It's time to automate all the repetitive and time-consuming traditional manual file transfers.

Much more time is wasted on file transfers than we expect, but transfers are always unstable, and files always arrive late. New devices increase, and the number of files and the size continue to increase.

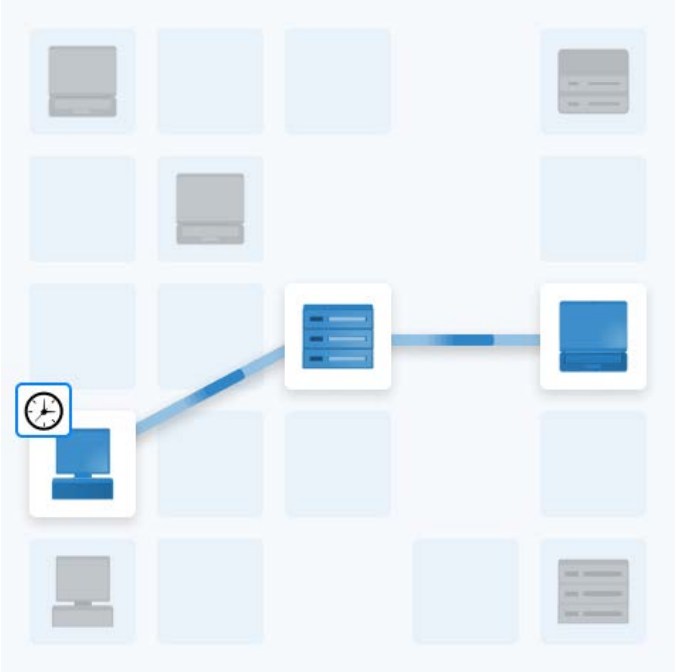
Now we must solve this issue. Exacoola features a new business innovation with the most modern file transfer automation.



Schedule & repeat

Set transfer schedules or automate all monthly, weekly, and daily recurring file transfers

Transfers files after business hours on weekends. Automate even recurring transfers at 5 am every Wednesday or on the 15th of every month.

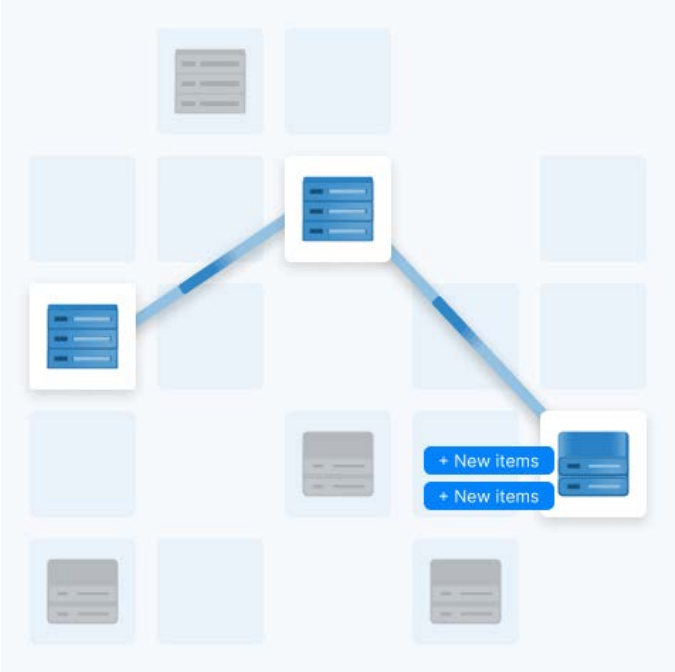


Transfer automation

Creating & updating items

Exactly what we always need, automatic transfers of files and folders as they are created.

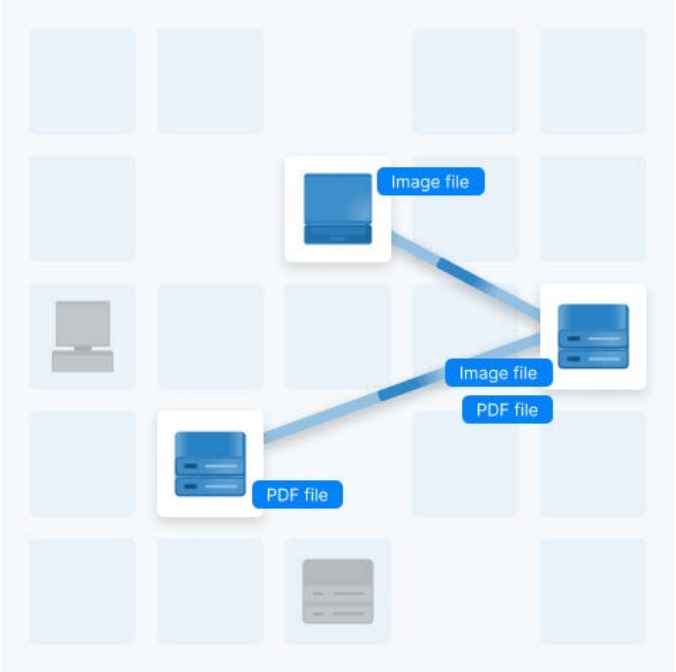
No need to manually check for new files and transfer them. When the items are created or updated, they are automatically transferred.



Auto-classify items

Video files can be transferred automatically to New York and only image files to London.

No need to select files one by one. Files are automatically classified according to the types and transferred to the designated devices.



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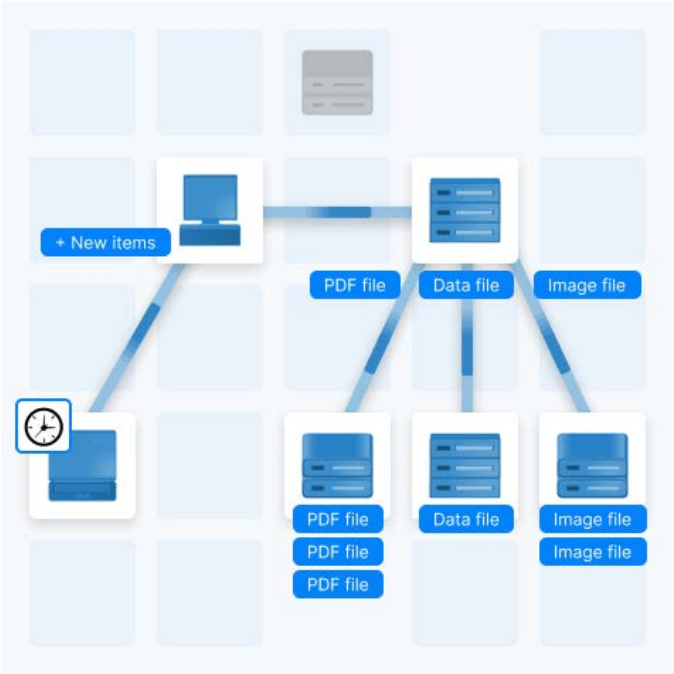
Transfer automation

Multi-step transfers

Ultimately, all devices should be able to automatically transfer files between each other.

There are a lot of devices, and the number continues to grow. No human intervention is required to transfer files between these devices.



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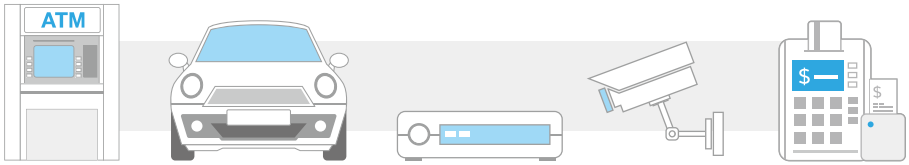
Devices

Transfer between devices

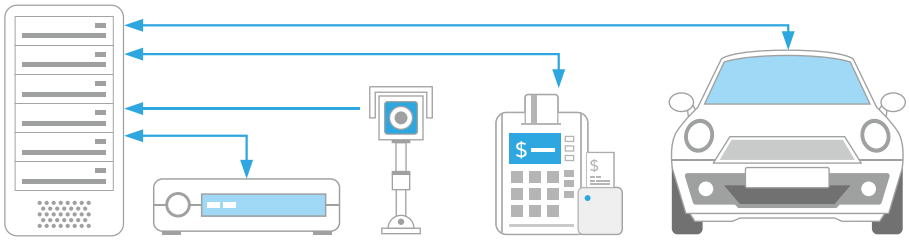
With the advent of the Internet of Things era, all embedded devices, such as home appliances, mobile devices, and wearable computers, etc., can connect to the internet and process data. Exacoola enables these embedded devices to exchange files with servers in the fastest and most efficient way.



Rapidly increasing number of devices and files

High-definition video cameras, display devices, and various unmanned devices are frequently launched with high-performance processors and high-speed wireless communication capacity. In the past, these were just independent unmanned devices. However, recently these devices can connect to the internet, exchange files back and forth with each other, and provide entirely new features.

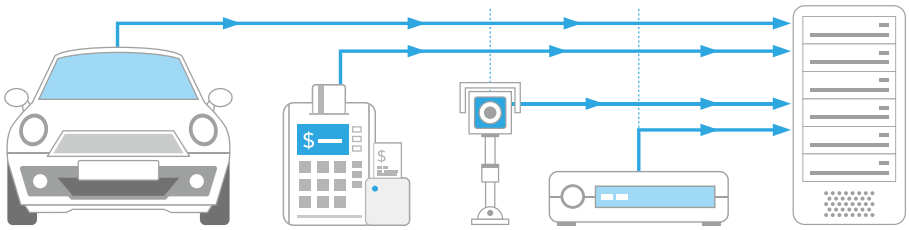
However, before we can fully take advantage of innovation, file transfer issues between unmanned devices and servers have been the biggest challenge due to low-speed, frequent transfer failures, and high costs. Exacoola clearly resolves these file transfer issues for unmanned devices.



Devices that produce a lot of files daily

Even if it is not the Internet of Things era, a lot of files are accumulated and created daily in the process of financial and retail transactions. Numerous unmanned devices, such as production facilities and security systems in various industries, also face these issues. However, since there is no proper solution to exchange these files, this problem is now recognized as an obscure problem.

Temporary transfer methods cause slow speeds, unstable file transfers, security issues, and high operating expenses. High operating expenses are a major concern for management. As a result, they are fully inadequate to meet the increasing transfer demand. As a specialized file transfer solution for unmanned devices, Exacoola resolves these issues. Exacoola enhances management convenience and significantly reduces operating expenses, enabling organizations to be fully prepared to meet the file transfer demands.

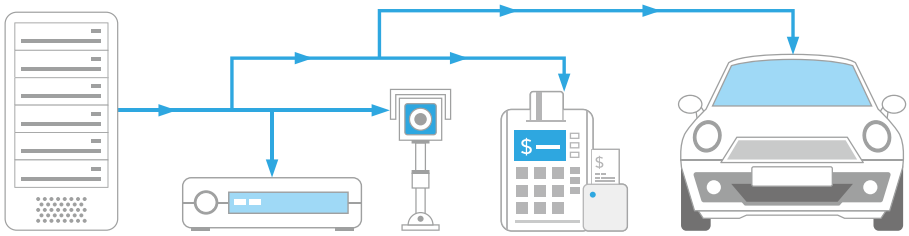


Servers that must exchange files with many devices

Devices such as set-top boxes, digital billboards, and traffic systems need to communicate and exchange files with central servers. However, exchanging files with distributed devices is impossible without a specialized solution. Temporary methods cannot handle a variety of exceptions while transferring in the live operating environment, leading organizations to eventually reduce and limit their transfer throughput.

Exacoola is designed to automatically respond to and process various file transfer issues, as well as complete the transfers. It completely eliminates transfer uncertainty and significantly reduces operating expenses. Featuring two-way transfers, servers can push files to distributed devices, and these devices

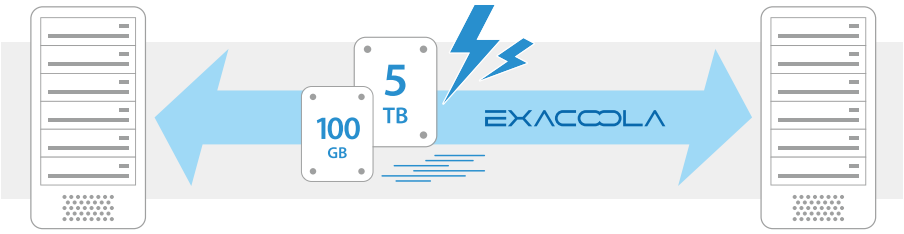
can also pull files from the servers using only minimal traffic, making it the most efficient transfer method.



Servers

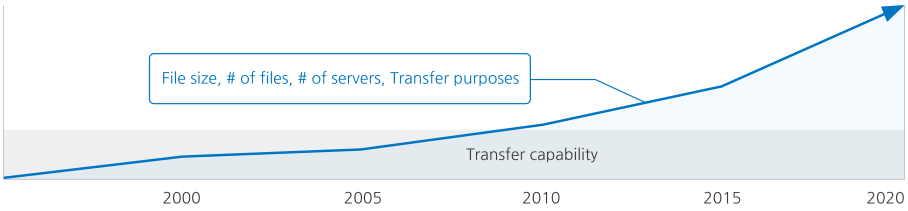
File transfers between servers

Exacoola is specialized in file transfers between servers; it can transfer ultra-large and mass files between servers in the fastest way. Exacoola ensures file transfers even in unstable network conditions, high server loads, etc., providing the most reliable solution and resolving all kinds of troublesome transfer problems between servers.



Urgent need to improve file transfers

All companies have many servers. In these servers, a lot of files that PCs cannot process are constantly integrated, and large-sized systems and log files are created. However, with existing alternatives, they have never ensured a perfect transfer and take a long time when transferring large files between servers. To work smoothly, more files have to be transferred between more servers. However, for companies that have not prepared for this situation, this issue remains an irresolvable mission.



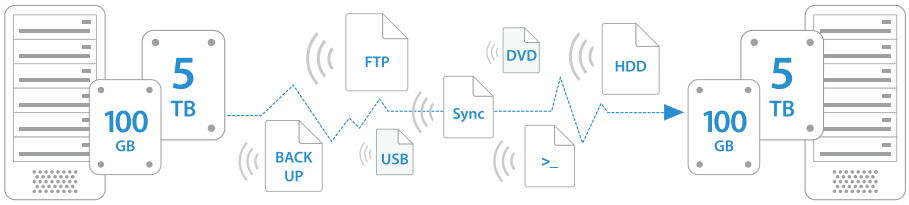
File transfers are faced with limitations

The mission to transfer only 10,000 files is never easy because there is no appropriate solution to transfer files between

servers. However, in business environments, more than millions of files are integrated, stored, and created in servers every day.

Response delays due to transient server load lead to transfer failure. Additionally, a network's natural errors and losses exacerbate these problems. As more files are transferred more often and the size of files is larger, more files will be lost or altered during the transfer, resulting in failed file transfers.

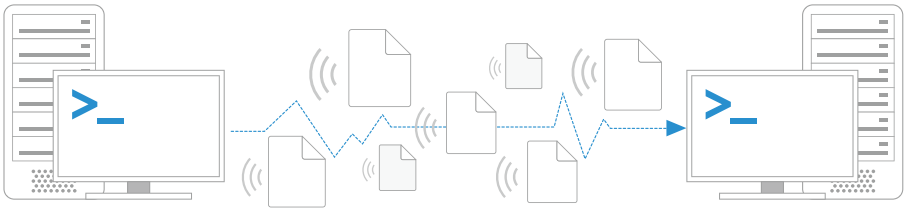
At present, the only transfer alternatives are FTP or the system synchronization command. Due to the inefficiency and instability of these alternatives, it is a better choice for companies to move physical data storage devices (HDD and USB, etc.) through logistics services. To improve these situations, if companies rely solely on an engineer's experience and impose additional efforts and sacrifices on engineers, it does not align with the effectiveness that companies desire.



Limitations of system commands

Current business environments are very different from when system commands (sync or copy) were developed. However, companies without an alternative depend on system commands. To utilize system commands, engineers have to search for appropriate instructions on the internet, apply the methods, and then verify the results. If some problems occur, engineers have to resolve the problems themselves. Engineers who have experienced this situation will remember the anxiety and inconvenience.

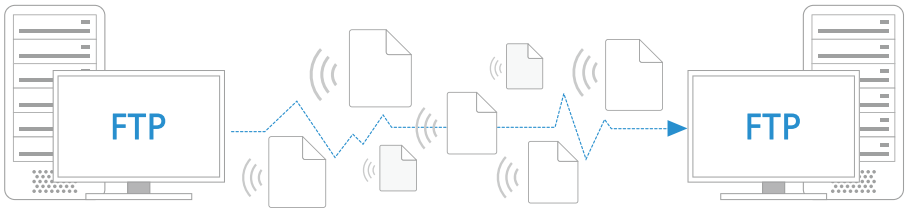
Despite all the engineers' efforts, system commands can only utilize a small part of server performance and network bandwidth. Due to the slow speeds, the commands cause only disappointment. Additionally, when the number of files increases, a drastic speed reduction is inevitable.



Limitations of FTP (file transfer protocol)

Due to the name 'FTP (file transfer protocol)', it is often used for transferring files. The way of using FTP is quite ridiculous: engineers install FTP server software in one of two servers, connect to the other server, execute FTP commands, and then connect to the first server again to check all transfer results one by one. Although security issues may seem resolved using SFTP, its speed is much slower than FTP. Moreover, both SFTP and FTP still cause many security problems because they have access authentication and require all servers to open additional ports.

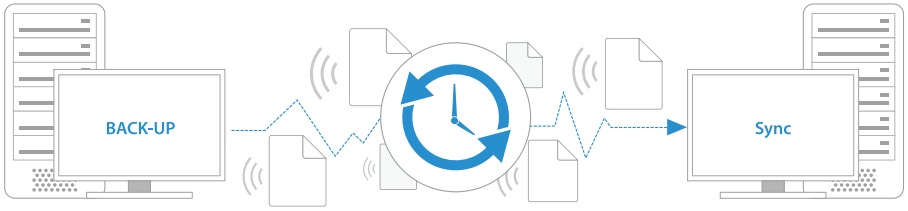
Although the inconvenient use and management of FTP are very similar to system commands, there is no key folder feature that can detect new folders and files. Thus, engineers have to do repetitive tasks and spend too much time on the same file transfer mission. Additionally, it cannot assure a perfect transfer and transfers only at slow speeds.



Synchronization and backup solutions

Despite the high costs, companies are using synchronization and backup solutions for some important purposes due to the importance and convenience of synchronization and backup. These solutions can resolve the inconvenience and the anxiety caused by system commands, but intricate and complicated configuration options present new difficulties.

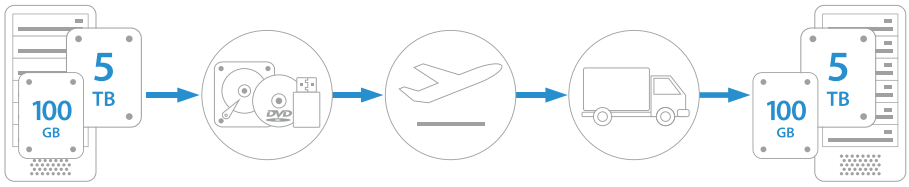
These classical concept solutions were developed a long time ago, and new options were added continuously. This is the reason why they are very complicated to use. Additionally, they focus only on synchronization and backup functions, resulting in slower file transfer speeds than system commands and FTP. Therefore, these solutions cannot cope with current companies' environments that require transferring large and mass files between servers.



Physical storage movement

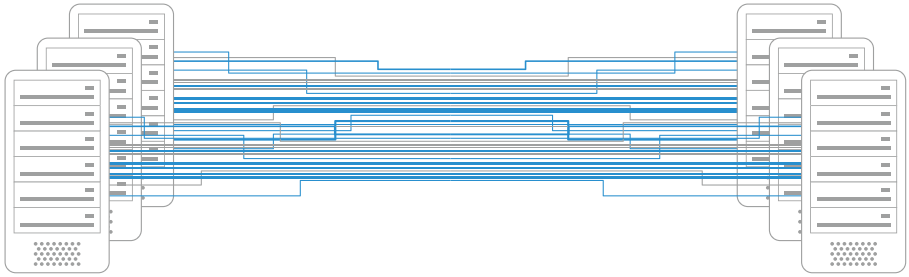
To transfer files between servers, system engineers have to resort to traditional methods and accept inconvenience because there is no solution. Although system engineers overcome all kinds of transfer problems through their experience and trial and error, the slow speeds still frustrate them.

In most cases, moving physical storage is faster than spending more time and effort, especially for long-distance transfers. For this reason, to avoid complex problems, almost all companies use logistic services to move physical data storage (HDD and USB, etc.) between domestic and international borders. Even if we disregard slow speeds and high costs, this is still a very dangerous method and challenges companies' security enhancement efforts, putting important files at risk of serious security breaches and loss.



Server additions and their complexity issues

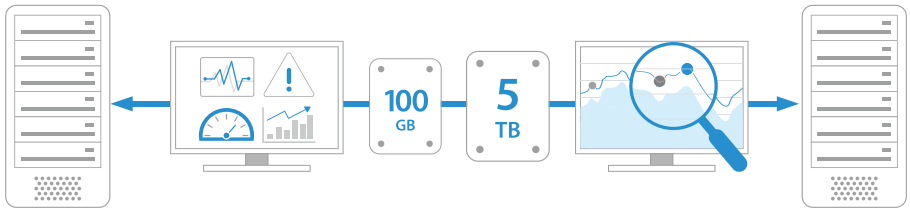
In the live working environment, files have to be transferred between 2 to more than a dozen servers. This mission causes engineers significant stress and wastes companies' time and resources. Although file transfer issues between servers are dealt with by experience and patience of the engineers once or twice, there is a limitation that they cannot be flexible enough to overcome new exceptions that will happen in the future.



Improved awareness about file transfers

To transfer files between servers using traditional methods, numerous prerequisites are needed. However, these methods transfer files at slow speeds and produce only disappointing results compared to the preparation time and effort required. As a result, companies plan to transfer files between servers only in special situations. Exacoola fundamentally improves this awareness of transferring files between servers.

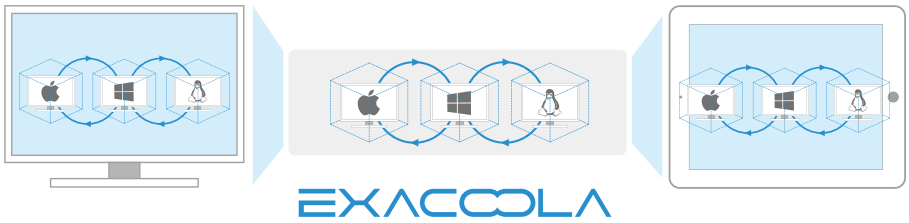
With Exacoola, companies can easily plan to transfer more files between more servers whenever needed regardless of existing limitations. At the same time, system engineers and administrators can entrust the time-consuming and troublesome mission to Exacoola. Featuring the file transfer status monitor of Exacoola, companies have the opportunity to experience the most advanced innovation to improve business efficiency.



Virtualization

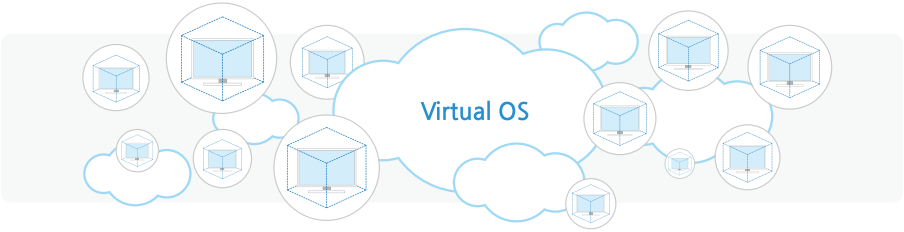
File transfers between virtual OSes

Today, with virtualization technology, companies can instantly create and use new virtual OSes at any time regardless of the physical servers' locations. Exacoola enables a few engineers to easily command file transfers between hundreds of virtual OSes and monitor these transfer statuses through various devices, such as PCs, smartphones, tablets, etc.



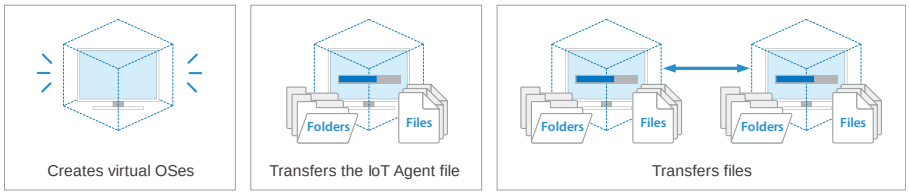
Unprecedented increase in virtual environments

Virtualization innovatively converts static OS concepts to dynamic OS concepts. As systems are integrated with virtualization, the need for physical hardware has significantly decreased. As a result, spaces and costs are being reduced and business efficiency is being maximized. Many companies fully understand these advantages and have actively adopted virtualization, leading to an unprecedented increase in virtual environments.



Virtualization work begins with file transfers

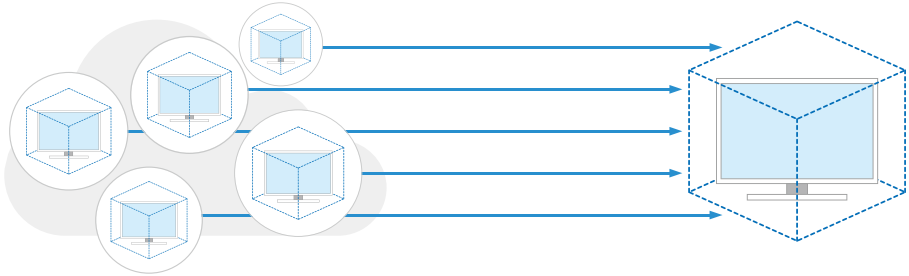
Although with virtualization technology, companies can easily create more than hundreds of virtual OSes a day, engineers still need to transfer and install working software and files first to start work. In this situation, Exacoola features the fastest and most convenient file transfers between virtual OSes. As an essential product in the virtualization era, Exacoola maximizes the advantages of virtualization.



Resolving FTP problems

For development teams working on projects in virtual OS environments, file transfer issues are a significant headache. To apply developed results, developers have to transfer result files to all virtual OSes. However, when the result files are updated, they have to connect to all virtual OSes using FTP, upload the result files, and then check all files' dates to ensure accuracy. Even if we ignore cumbersome and repetitive work processes, if there are many virtual OSes and frequent updates, human errors will occur in the process of transferring, leading to longer completion times. Furthermore, FTP always has additional problems such as unstable transfers, slow speeds, critical security issues, etc.

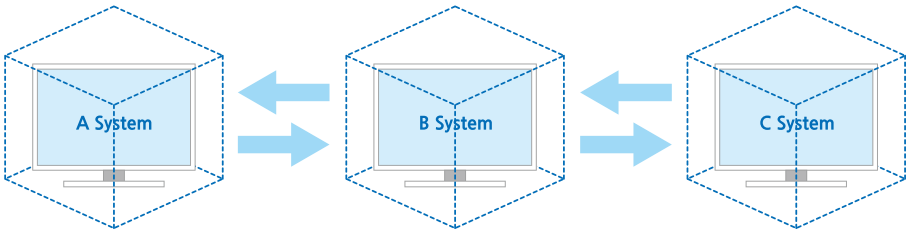
As a specialized file transfer product for virtual OSes, Exacoola clearly resolves all these issues. Exacoola features convenient file transfer control and highly reliable flawless transfers, enabling the development team to concentrate more on their work and utilize virtualization efficiently.



Resolving shell script problems

To overcome cumbersome and repetitive update processes, some system engineers are using shell scripts. For example, after files are transferred to server no.1, these files will be automatically transferred to other servers. Due to various exceptions while transferring, transfer failure and file loss can occur anytime. Whenever transfer failures occur, developers have to improve their shell script. Even if the developers apply the shell script files to all virtual OSes and thoroughly check everything, the new script cannot respond to new exceptions. As a result, even the developers cannot fully trust their shell script.

Exacoola features advanced transfer stabilization technology that is designed to respond automatically to a variety of exceptions and to ensure perfect file transfers. As a result, while transferring, various exceptions such as response delays caused by transient loads, inherent and expected file alterations between different OSes, etc. can be completely handled by Exacoola without any engineer intervention. Exacoola fundamentally improves the unstable and inconvenient transfers of shell scripts, enabling companies to achieve flexibility, immediacy, and efficiency when it comes to the purpose of virtualization.



Integrating files created by virtual OSes

It is not easy to integrate all files that many virtual OSes are creating. Without burdensome processes such as connecting to every virtual OS, transferring, and checking all files, Exacoola integrates all files from all virtual OSes to central servers in the fastest and most reliable way according to prescribed methods.

File transfers across different virtualization systems

There are various virtualization systems in the market. Due to the differentiated advantages of each virtualization system, companies use various systems depending on their needs. Bundled file transfer features in virtualization systems have a fundamental problem: they cannot support file transfers between different virtualization systems. Apart from these problems, there are other issues such as the inconvenience of use and slow speeds, etc.

INNORIX is not a virtualization system provider, and as a specialized file transfer company, it supports all kinds of virtualization systems to transfer files without any limitations.

Transfers

High-speed file transfers

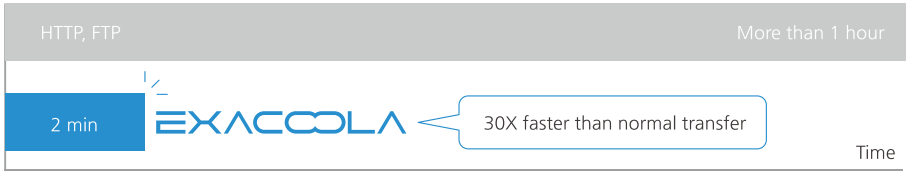
The file transfer speeds of other methods are limited due to factors such as the geographical distance between the origin and destination, delays in the response of the standard protocol, and inefficient data exchange. Although companies have high-performance IT resources, due to non-hardware limitations, they cannot fully utilize these resources, such as high-performance mass storage/server, high-capacity network equipment, and high-bandwidth networks.

Featuring Exacoola software-based transfer technology, these limitations can be easily overcome without network bandwidth expansion. This innovative technology can transfer all kinds of files at high speeds and also maximize utilization efficiency of the company's IT resources.

Furthermore, additional features such as optimizing packets, intelligent compression, high-speed mass file transfers, and various file transfer features enable Exacoola to transfer files more quickly, even in unexpected environments that have not been predetermined.

High-speed file transfers for devices

In existing standard transfer methods, UDP transfer loses a lot of data while transferring, unnecessarily using too much bandwidth and requiring the opening of many ports, resulting in threatened security. TCP transfer is very slow due to inefficient communication methods. Exacoola drastically improves these TCP slow-speed problems and provides high-speed file transfer rates that are up to 30 times faster, even in situations like low bandwidth, high latency, high loss, and other hostile environments.



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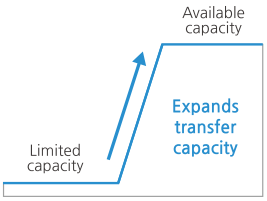
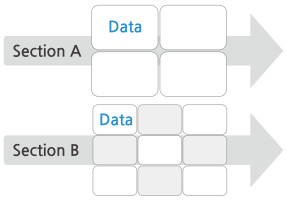
Expanding the limited transfer capacity



File transfer speeds in existing transfer methods are greatly affected by the devices, OSes, types of software, network conditions, overload of servers, etc. To exceed the existing maximum speed, Exacoola expands transfer capacity at the software level, making file transfer speed the fastest in any environment.

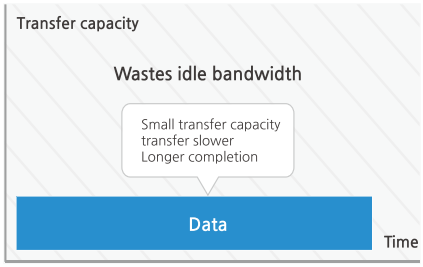
Interval-based file transfer optimization



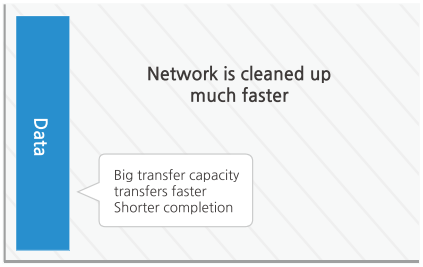
Exacoola analyzes various file transfer environments (file sizes, transfer distances, and network conditions, etc.) and automatically optimizes file transfer processes. According to the transfer environment, Exacoola determines the most optimal data size and data arrangement, as well as exchanges data back and forth with the server in each environment. As a result of these actions, Exacoola can transfer files at the fastest speed in any transfer environment.

The most optimal transfer method

Other transfer methods can only utilize minimal capacity, so bandwidth is wasted, resulting in slower and longer file transfers. Additionally, they cause various transfer problems such as frequent transfer failures, etc. Exacoola can utilize optimal capacity, enabling file transfers to be quickly completed and the network to be cleaned up much faster. Exacoola fundamentally resolves the issue of having too many files remaining in the network for a long period of time. Therefore, more files can be exchanged in the same network without changing any IT infrastructure.



Standard transfer method



EXACOOLA Transfer method

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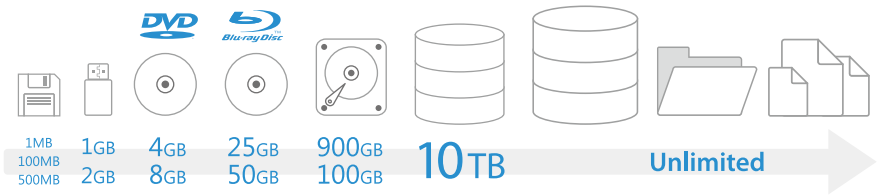
Handling large and mass file transfers

The file size and number of files are continuously increasing in current business environments. However, files are not being exchanged when needed because most companies still use previous temporary methods to transfer files.

Exacoola is optimized to transfer large files. Whether choosing any files (documents, large files, folders, etc.), Exacoola can transfer anything to anywhere in the fastest and most convenient way without any limitations. It also clearly eliminates repetitive efforts and the time wasted that users put into the transfer of large files, making it possible for the productivity of the whole organization to be dramatically improved.

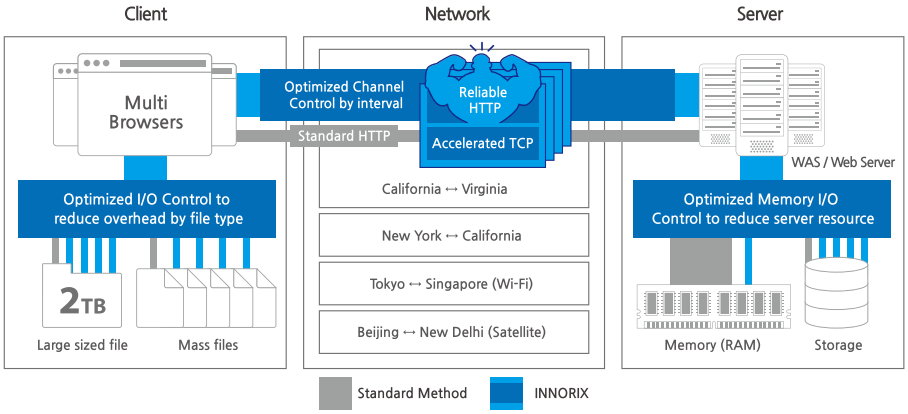
Large file transfers

Due to all different kinds of technical difficulties, almost all transfer methods limit file sizes. Exacoola is the only way for companies to transfer files of all sizes, from small size to large-size 100GByte, as well as very large-size more than 10Tbyte, without any limitations between devices in a single process.



Overcoming various transfer limits

Exacoola changed HTTPS, which is being used in all web-based business systems, to RHTTP (reliable HTTP), a proprietary technology developed by INNORIX, so that Exacoola can transfer files in any network environment without any security threats. Exacoola is the only way in the industry to transfer large and mass files in all OSes such as Windows, Mac, Linux, UNIX, and embedded OS, etc.



Flawless file transfers

Speed, accuracy, and perfection are important requirements in all enterprise business environments. However, in the current business system, file transfer methods between web browsers and servers are imperfect. As a result, these methods cannot perfectly meet the needs of companies. In the current environment, after a file transfer begins, all users can do is sit around and pray for the file to be completely transferred.

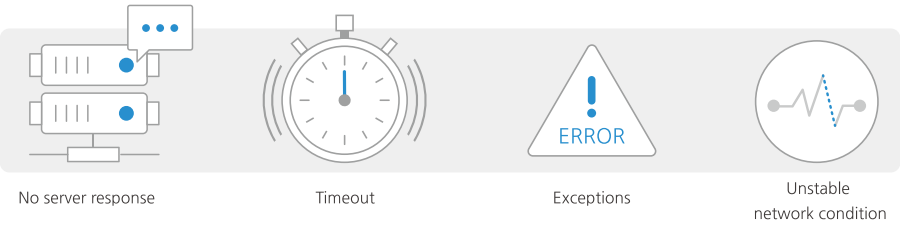
Generally, in typical business environments, when a file transfer is interrupted by unstable network conditions, server load, or other various reasons, the user has no choice but to start the transfer again from the beginning. When a transfer has failed after many repeated tries, the engineers have to start from the beginning or try to seek other alternatives. The engineers have no choice but to be tolerant and accept inconveniences.

Exacoola fundamentally resolves all these incomplete and inconvenient issues. While transferring, Exacoola responds automatically to a variety of exceptions that occur and assures a perfect file transfer. Moreover, Exacoola provides security and integrity. Exacoola can perfectly meet the mission-critical needs of companies required in business environments.

Unstable issues in the existing environment

Situations in which file transfers fail occur countlessly within a day and can sometimes happen repeatedly to the same devices. Although the above situation has not taken place, current file

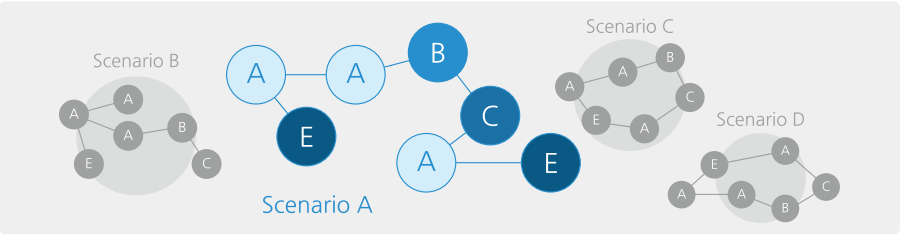
transfer methods have never assured a perfect file transfer. Various security policies, network environments, server/device types, and OSes have applied more pressure to these unstable situations.



Built-in scenarios for overcoming obstacles

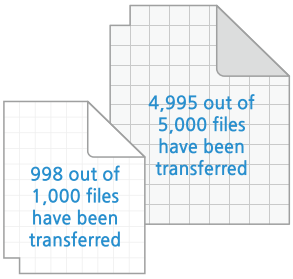
When carrying out a perfect file transfer mission, if system engineers only rely on traditional methods, they have to use all kinds of server technologies and detailed monitors. Even if they find the causes of failure, it is very difficult to devise fundamental solutions that can respond to a variety of causes. It is also not easy to find proper solutions in general situations, such as transient network disconnections by unstable network conditions or response delays of servers.

Exacoola has built-in scenarios that automatically respond to a variety of situations while transferring. After the transfer is started, even if problems occur, Exacoola automatically analyzes all situations and completes file transfers on its own. Unless the network has been completely disconnected between client and servers, or unless the servers have not been recovered, Exacoola automatically completes transfers without any engineer's interventions.



Flawless lossless file transfers

In all business environments, flawless lossless transfer is a required feature that enables every single file to be transferred without any file loss. However, in existing file transfer methods, lossless transfer is not taken into account, resulting in more files being lost as more files are transferred.

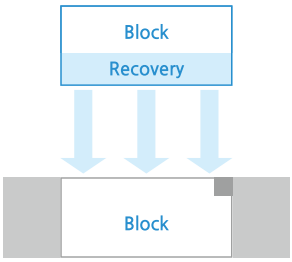


Most engineers do not want to accept this fact about file loss, but it is an ongoing inherent problem in the live operating environment. When only a few files fail to transfer among the files being transferred, companies have to invest an unthinkable amount of time and cost to find the one failed file. Even if the transfer is restarted from scratch, unstable situations will remain, and the same problems can happen.

Devices and servers cannot respond to all requests, and the loss of files often occurs due to various environmental constraints. With a flawless transfer structure, Exacoola can resolve these problems, so that hundreds of thousands of files can be transferred without any file loss or additional delays.

Double integrity verification

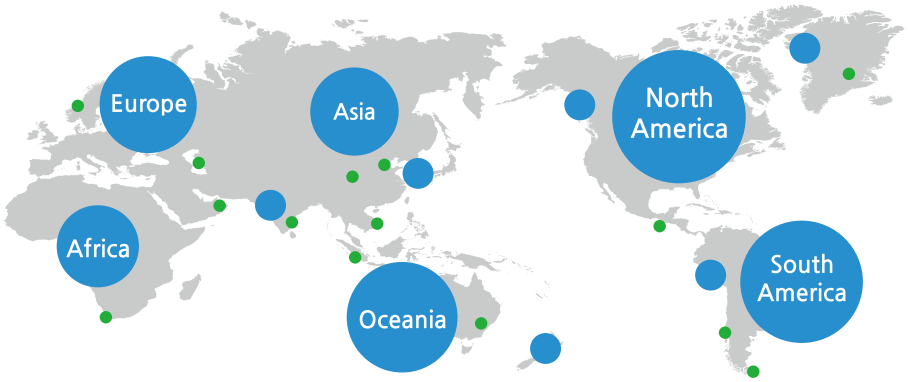
File alterations occur due to malicious attacks or the insertion of malignant codes into files during the file transfer process. To prevent these alterations, Exacoola verifies the integrity of the files twice (first for each block of a file and then for the whole file again).



Even if an altered part of a file is detected, only the altered part will be automatically retransferred, ensuring more accurate and reliable transfers. This guarantees safety and convenience.

File transfer testing center

As a specialized file transfer company, INNORIX operates file transfer test centers for continuous monitoring and improvement of the quality of file transfers. INNORIX conducts tests in all network environments and all OSes in major cities of North America, Europe, and Asia around the clock, 365 days a year.



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Security

Secure file transfers are becoming more important

Important information that can affect businesses and organizations resides in files. All kinds of organizations exchange files both in-house and externally with a vast range of organizations. While transferring files, malicious alterations and file theft can happen. It is the reality that many organizations are not even aware that files are being stolen.

Organizations face difficulties when estimating the scale of damage caused by security breaches. Although they can identify a leak, assessing the significance of files, which may include sensitive information from financial institutions or businesses, can be challenging for an organization. Security experts recognize and emphasize the impact this can have on businesses, thus reinforcing the importance of secure file transfers.

Today, investment in security systems for organizations is at an all-time high. To ensure the best security, companies are pouring both money and manpower into security solutions. However, during this process, the security of file transfers has not kept pace with other security measures. This creates a potential security threat to companies daily.

Evolving purposes and methods of security threats

Recently, there has been a definite change in the security threats targeting organizations. In the past, threats such as DDoS directly affected service operations. However, recently, there is only evidence of files being stolen, but the threats do not directly affect the service operation. These threats have raised many questions: 1) Why did they target the service? 2) What is their purpose, for political or commercial reasons? 3) What is the country of origin?

We know for sure that former attacks led by black hat hackers crippled only the service operations. These individuals continuously collect important information and organize with groups who have malicious intentions towards organizations and bureaucracies. We do not know when they will use the information and what their purpose is. Hence, many organizations are concerned about the potential secondary damages.

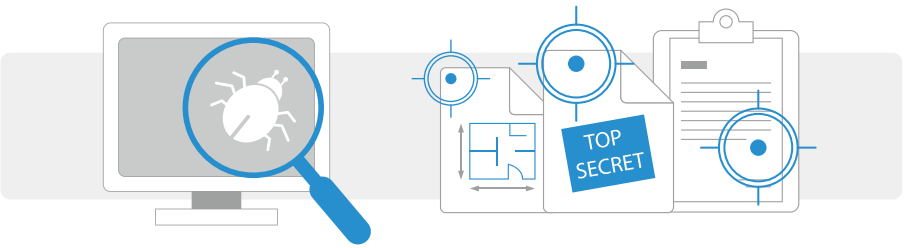
Stealing files while transferring

Leakage of files from servers

Alteration of files while transferring

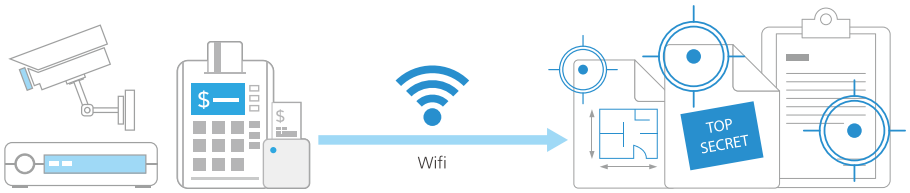
Relatively weak file transfers

All different kinds of security solutions have already been introduced and used to protect against 1) Direct attacks 2) Detect and treat malignant codes and viruses 3) Protect documents and databases, etc. Except for the file transfer area, IT security has been continuously strengthened. Thus, more security threats are present because the file transfer area can be exploited more easily than other IT areas.



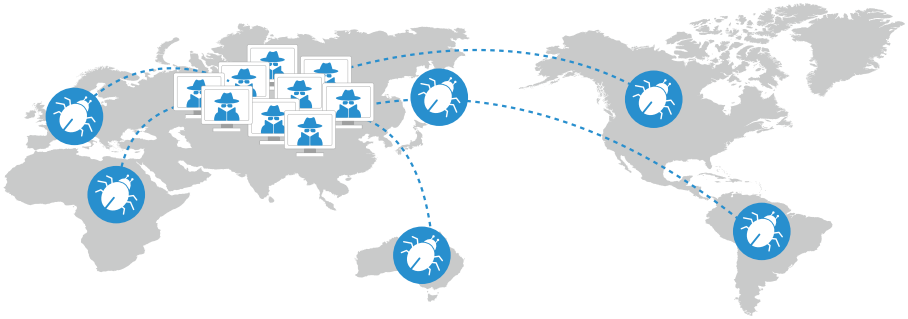
Transferring business files over wireless networks

Many people use laptops and wireless networks to work; however, in-house security can never fully protect file transfers. Although wireless networks have security issues when executing file transfers, wired networks also experience the same threats. Additionally, if companies exchange files daily, they definitely need file transfer security solutions.



Increasing security threat situations

Security attacks have grown more sophisticated over time. Year by year, the number and scale of attacks have been increasing. Attack methods are also more intelligent with the improvement of security solutions. Recently, due to organized domestic attacks, as well as attacks from emerging countries, the overall threat situations have been rapidly increasing.



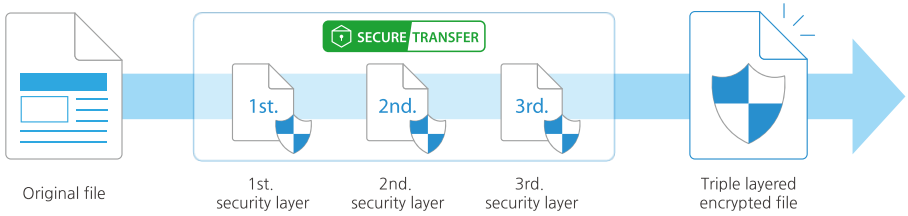
Key features of secure file transfers

Exacoola provides secure features for specialized file transfers as stated below.

- Advanced multiple en/decryption algorithms
- Making secure channels while transferring
- Safest file transfers in any device OSes
- No impact on existing security policies
- High-speed large-sized file en/decryption
- Integrated with the advanced transfer features
- Triple-layered encryption for metadata

Advanced encryptions for all files

Before starting to transfer files, Exacoola applies advanced encryption algorithms to all files. The encryption ensures that intact files are maintained from the devices to the other devices. Exacoola protects all file transfer processes and also prevents server leakage, enabling all processes to be perfectly protected. processes, preventing server leakages and enabling all perfect protection throughout the processes.



High-speed encryption and decryption for large files

Unlike small data, for large-sized files to be en/decrypted, it takes a considerable amount of time. As a result, engineers' waiting time will depend on the size of the file. When the waiting time increases, business efficiency decreases. To resolve this problem, Exacoola features high-speed en/decryption that is up to 20 times faster than existing methods. Although the speed is faster, the triple-layered encryption protects all files and is much more secure than any other methods.

The time that required to encrypt and decrypt large files in gernal ways.

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The most advanced file transfer networks for security-sensitive files

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