

Essential remote access for keeping pace with the world's leading engineering design organizations



Remote access benefits for Engineers to improve workflows and accelerate product design

Using centralized engineering IT organizations move to the next level

Centralized IT increases security and makes life easier for IT in big ways

Leading the way to the next level of Engineering IT

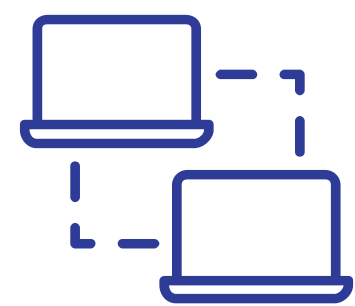
Organizations are under constant pressure to improve workflows, reduce cost and deliver products faster than ever. Using remote access and centralized engineering IT infrastructure organizations can make big leaps forward in accelerating time-to-market and at the same time benefits from strong cost reductions.

Engineers need fast and responsive remote access though they can operate their complex graphical product design

solutions remotely. Key to an engineering centralization effort is that Engineers are happy with performance, reliability and collaboration.

IT departments are always looking to reduce work by standardizing user workstations and server software and hardware. Centralized IT is without doubt the best practice for centralized administration and total control of user workstations and software installations.

Engineers can use low-budget PCs or laptops to access their powerful 3D CAD software for product design that is hosted in a central datacenter.



ExceedTurboX makes Engineers accept working with IT remote access to their code product design applications because speed and resilience are superior to any other solution.



Organizations draw major benefits from centralized engineering IT infrastructure. Product design cycles are accelerated, and best practice IP protection is implemented. Plus, significant cost reductions through IT consolidation.



IT benefits from centralized engineering IT because of centralized administration, central updates to operating systems and applications, higher security, lower spending.

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Fast remote access for engineers

49% of engineers consider performance the number one priority for remote access

Source: Engineering.com audience survey of remote access to design software

Engineers love their under-desk workstations because they are fast. Engineers also love to have access to their work from anywhere, from the office, from home, from customer sites, from production sites or hotels.

If engineers have good performance remote access, then the advantages of remote access outweigh the disadvantage of not having an under-desk workstation by far. Engineers can work on a 3D product design model in the

office, suspending their session before driving home. From home they can re-connect to the same session from say a MAC. Exceed TurboX automatically adapts the screen-size to the screen-size of a device that is resuming a session.

Exceed TurboX offers high performance remote access even when the user is on a different continent than the datacenter.



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High availability

78% of engineers say high availability is a most important factor for remote access.

Source: Engineering.com audience survey of remote access to design software

Exceed TurboX comes with Integrated high availability. Exceed TurboX can be configured as a highly available server “cluster” for high availability access to remote software with maximum uptime. Exceed TurboX distributes web sessions across ETX Servers in the cluster using a front-end web load balancer. And it supports regional load balancing for users to connect to the closest location.



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Connection stability

53% of engineers are concerned about potential connection instability issues with remote access that may cause lost work.

Source: Engineering.com audience survey of remote access to design software

With many remote access solutions losing the connection means losing the work. Reconnecting to existing backend sessions isn't provided by many solutions. That means with short network outages engineers lose their work and IT has high maintenance efforts with closing ghost sessions that use resources but cannot be connected to anymore. Exceed TurboX provides full suspend and resume support for session which also works with network outages. After a network outage, users can re-connect to their existing sessions without any problems. Suspended sessions are shown in the browser dashboard and can be enabled by a mouseclick.



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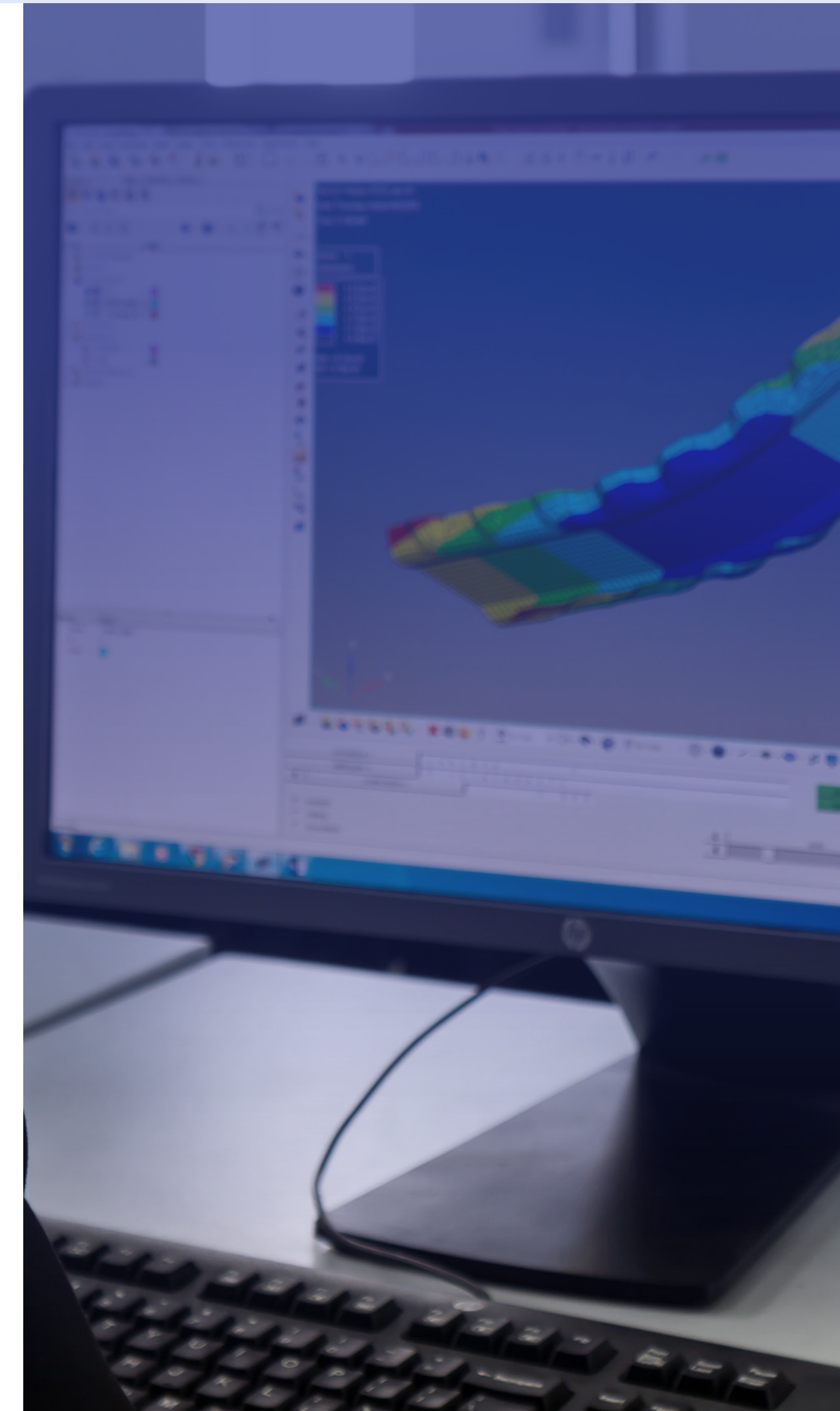
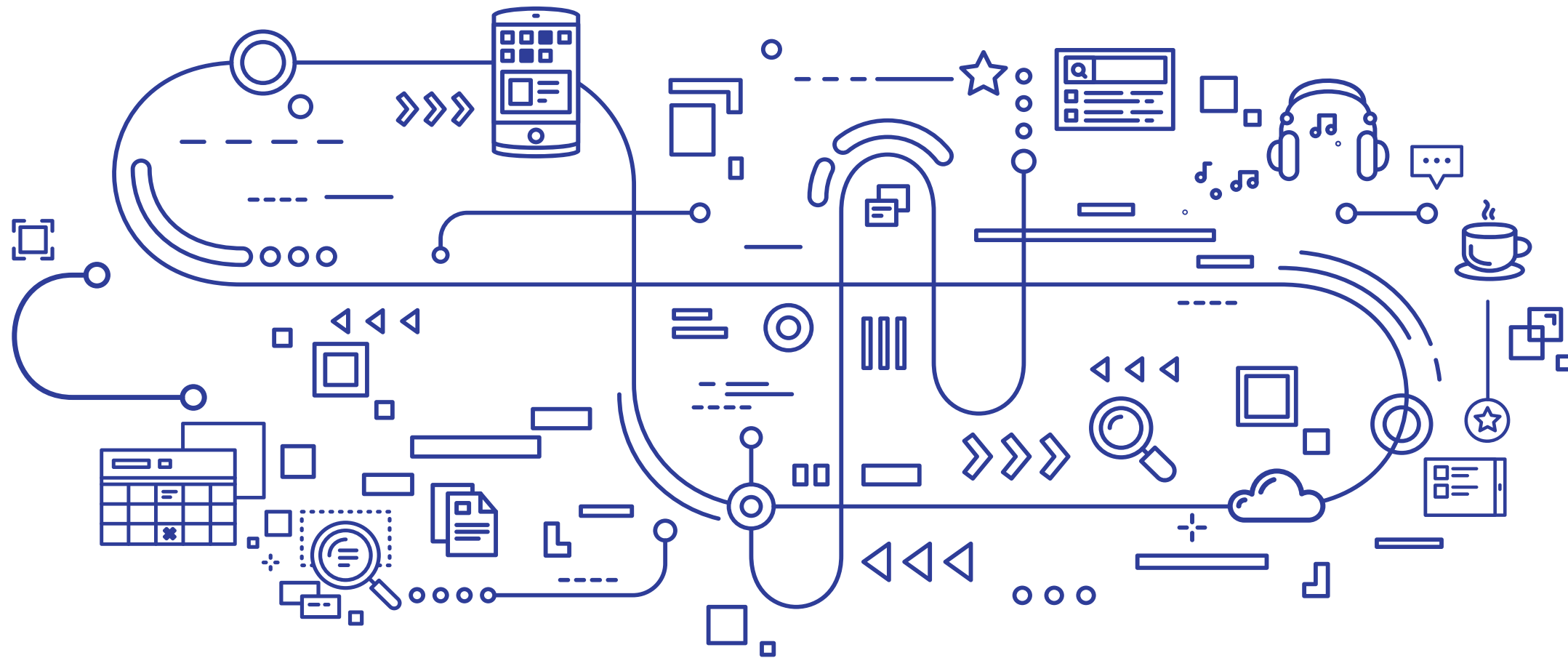
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Managing long-running tasks

Many times, engineers trigger long-running tasks like tests and simulations that need to keep running for a few days. Using Exceed TurboX Engineers can peek into the status every now and then from any device and any location, be it Windows, MAC, Linux, UNIX or an iPad.

Managing the files of a product design with a team of Engineers is error prone with user workstations. Files

are dispersed around user hard disks, versioning and synchronization is a challenge. Synchronization times across user workstations or datacenters can be multiple hours a day. Centralized engineering IT has all files at a central location with centralized versioning, no synch times and centralized backup.



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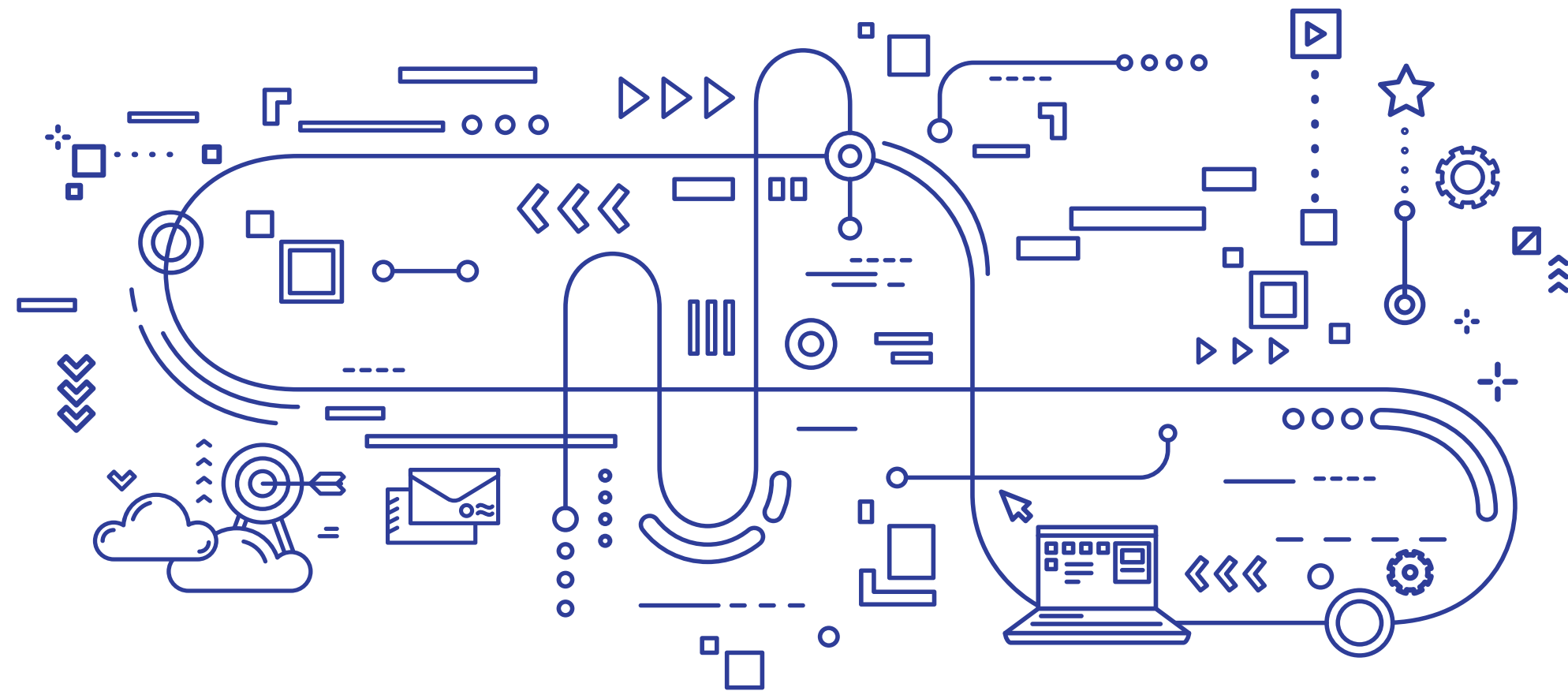
Remote access secures IP for organizations

Security of intellectual property is a concern for **37%** of participating engineers.

Source: Engineering.com audience survey of remote access to design software

Corporations that design complex products like semiconductors, automobiles, aero crafts, computing equipment and many other products like to have strict control over their IP. Using personal workstations is the worst-case scenario for IP protection. Users can simply copy IP related files to memory sticks. Using a centralized IT approach all IP is locked down in a well-protected

datacenter. Good remote access software like Exceed TurboX allows to configure if users should be able to copy files to the local machine, use the clipboard to copy content to the local machine and print on the local machine. Disabling file transfer, clipboard copy and local printing makes sure now IP can leak from the datacenter.



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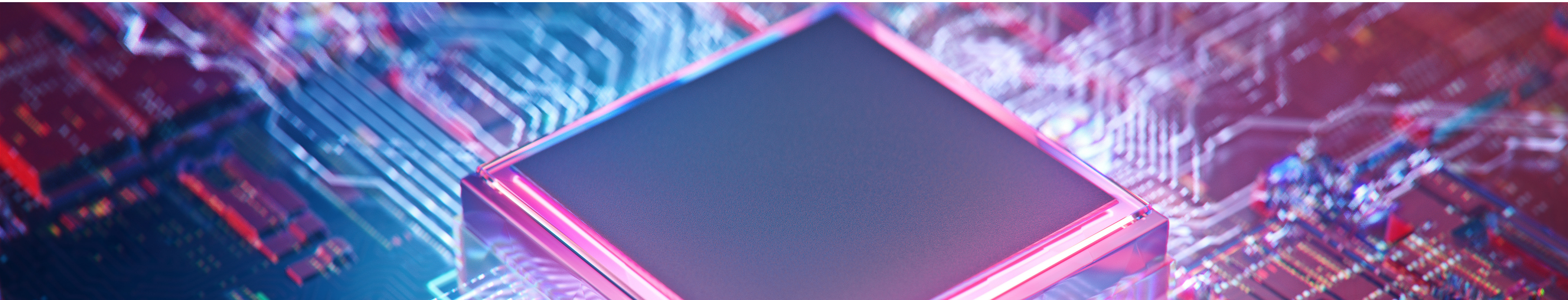
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Accelerated time-to-market

Exceed TurboX customers see major improvement in time-to-market for their products. Keeping all files in one central place eliminates file synch times and other process bound wait times when multiple locations are involved. The powerful collaboration feature of ETX allows to include resources around the

globe to quickly resolve issues. With centralized Engineering IT teams can be allocated without any limitations opposed by local datacenters. Flexible teams allow organizations to quickly move manpower where it needs to be, and such accelerate time-to-market.



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Major cost savings through datacenter consolidation

Say an organization has 5 global datacenters for their engineering IT. Each datacenter costs them \$2M per year. What would be the cost benefit for this organization moving to one global datacenter. Their datacenter cost will likely be down by multiple factors. Instead of 5 times \$2M (\$10M) they will end up with one datacenter that has maybe a \$3M yearly cost which is almost 3 times less than before.



Business continuity for medical, political and other emergencies

Never before the 2020 Coronavirus pandemic it became so clear to organizations that having a work from home with remote access strategy in place can keep productivity up during difficult times. In fact, remote access is becoming a key digital strategy for organizations worldwide. OpenText Exceed TurboX enables access to centralized desktops from anywhere and almost any device.



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IT benefits of centralized engineering IT

Centralized management is the holy grail for most IT challenges. Centralization enables further automation of tasks like operating system patches and upgrades, software installation and patches and infrastructure installations and upgrades. Anything central can be done much quicker and with less disruption than with local user workstations. Centralized IT increases security by forced patches and central security hardware and software. Implementing a secure backup strategy is only possible within a datacenter. Single user workstations easily fall out of backup strategies because they have new disks, software is not configured right or similar issues.

New engineering desktops can be rolled out much quicker, no hardware purchase is needed. Just some central configurations need to be applied.

Remote access to centralized IT also helps IT itself as IT personnel can access systems from anywhere and any device to resolve issues.

CIOs will like the cost reduction part of centralized IT. As mentioned before, a single global datacenter can reduce IT cost by multiple factors when consolidating multiple datacenters into one.



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