X1 Secure Session: for automation that's secure and rapidly scalable

The multi-patented Secure Session technology is one of the most unique features of the Servicetrace XceleratorOne (X1) RPA platform. It offers enterprise customers significant advantages for scalability, security and stability - at a much lower overall cost compared to competitor solutions.

X1 enables complete automation via an application's graphical user interface (GUI). The benefit is the ability to automate every digital business process - across all applications, without having to change existing IT and system landscapes.

X1 Secure Session: High scaling through parallelization

A software robot can typically only log on and use one Windows desktop session on one machine (e.g. server, client, virtual machine etc.), leading to a massive hardware requirement when scaling. Using the X1 Secure Session, several desktop sessions can run in parallel on each machine. All you need is more X1 Secure Session licences for the software robot. **Your benefit:** You can scale quickly and cost-efficiently without additional machines.

X1 Secure Session: High standard in security & data protection

Since 2011, Secure Session technology from Servicetrace has made it possible to meet regulatory data protection requirements, such as those introduced in 2018 with the EU-GDPR. To prevent unauthorized persons from accessing or spying on sensitive data during the process, X1 Secure Sessions run as hidden desktop sessions, not even visible to users with admin rights. Additional security features such as data encryption and automatic shutdown and alerting if unauthorized access is attempted offer the highest level of protection in operation. **Your benefit:** You always automate with maximum security.

X1 Secure Session: Fully automatic optimization of stability

All RPA solutions on the market depend on the basic settings of the Windows desktop used on the robot machine. If these differ from those of the recording session, the stability of the automation can no longer be guaranteed. The automation quality is therefore dependent on the quality of the configuration of the robot machines, leading to costly solutions. X1 functions in a completely different and simpler way. When the automation is distributed, all X1 Secure Sessions are automatically started with the setting of the original recording session. A particular configuration of special robot machines is not necessary. **Your benefit:** Configure all robot sessions to run in the most optimal and stable manner, without any special effort.

Other RPA solutions: Open Desktop Session

X1: Hidden, parallel Secure Sessions

The implementation of the Secure Session as a hidden, invisible and thus protected Windows session prevents unauthorized access and spying, while its configuration is optimized automatically.

X1 Secure Session: Cost-Effective Automation

All RPA solutions on the market can only scale by adding more robot machines (horizontal scaling). This is both costly and time-consuming, as a new robot machine must be configured and brought online for each scaling step. Even if virtual machines are used to ease deployment, additional resources and licences will still be needed.

X1 is the only solution on the market that offers more effective scaling: additional X1 Secure Sessions are simply started (vertical scaling) on existing robot machines. This can even be done completely automatically without any intervention by an administrator.

Thus, the X1 solution makes it possible to provide multiple processing capacities based on the existing automation infrastructure if required - without installing additional hardware and software. This „automation capacity on-demand" is unique in the market and offers X1 customers the opportunity to scale their automated processes extremely quickly and cost-effectively.

Total cost elements of process automation:

- License costs
- Installation costs
- Support and administration costs
- Hardware costs
- Software costs

Parallelization as a cost brake

For most RPA vendors, each software robot requires its own separate machine (such as a workstation or virtual machine). However, a large percentage of the processing power of the machine will never be used by the robot - an inefficient, cost-intensive approach due to massive under-utilization. Servicetrace's Secure Session technology acts as a cost brake by enabling multiple parallel desktop sessions per machine.
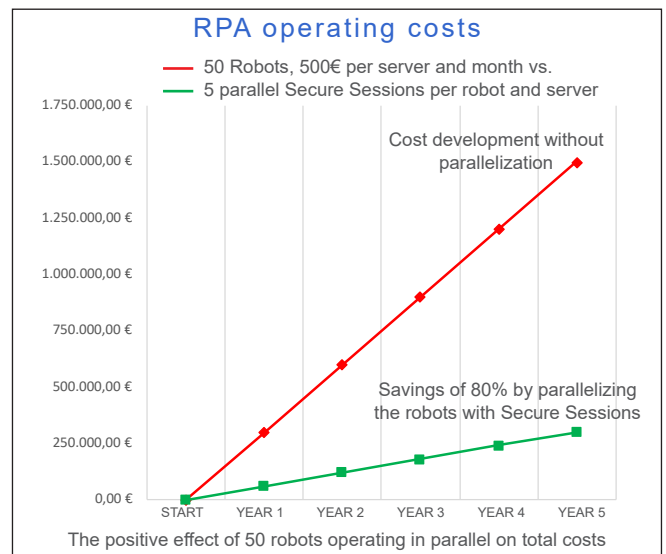
The parallelization saves three times the costs:

- Less hardware and fewer software licences are required
- The available capacities of the hardware are used more effectively
- The administration of the overall automation platform becomes easier with fewer devices to manage.

A sample calculation

The full IT costs for a single RPA robot (just the workstation) are estimated by many IT operators to average approximately 500€/month. Using this industry average, for a modest digital workforce of 50 robots, the costs for the workstations alone add up to 300,000€ per annum in pure operating expense.

Using X1 Secure Session, it's typically possible to run five parallel sessions per robot on a single workstation meaning just 10 are required instead of 50. **In such an example, this results in operating cost savings of around 240,000€ per year**.

RPA operating costs

— 50 Robots, 500€ per server and month vs.
— 5 parallel Secure Sessions per robot and server

Cost development without parallelization

Savings of 80% by parallelizing the robots with Secure Sessions

The positive effect of 50 robots operating in parallel on total costs

Cost savings by the factor n

It is not uncommon for Servicetrace customers to run five (or more) X1 Secure Sessions in parallel on a single X1 Bot machine. By parallelizing the Secure Sessions, optimal utilization of the X1 Bot machines is achieved. In this way, X1 customers significantly reduce the operating costs of their RPA landscape.

X1 Secure Session: Security for your data

Servicetrace developed the Secure Session technology back in 2011 in order to offer customers an above-average level of security for regulatory compliance, IT security and data protection. The following two aspects are decisive for security.

Access protection: The RPA solution must ensure that no unauthorized person has access to or knowledge of the data it processes.

Data protection: The processed data must be securely stored and processed in accordance with corporate, legal and regulatory requirements.

X1 Secure Session: Four integrated security features

X1 Secure Session has four built-in security features that provide organizations with automated and unparalleled data and access protection.

„Black Box processing"

X1 Secure Session is a hidden Windows session that runs invisibly and closed in a separate user account. The screen does not show what is happening or what information is being processed.

Access Protection & Auto-Shutdown

Without explicit authorization, no one - not even an IT administrator - can access the X1 Secure Session. The Auto-Shutdown function detects an unauthorized access attempt and immediately terminates the session.

High Data Encryption

All data required for process execution is securely stored on the X1 Server with 256-bit encryption. Data transmission from the X1 Server to the software robot is encrypted on two levels:
- Via HTTPS
- Additionally via an asymmetric 2048 bit encryption to prevent man-in-the-middle attacks.

Principle of forgetting

The software robot (X1 Bot), which executes the process within a Secure Session, does not store any data. The central X1 Server controls the bot and only makes the data available in encrypted form the moment it is needed - which it then immediately „forgets" as soon as a task has been completed.

Outside of the X1 Secure Session, the X1 solution allows users to specify exactly when and which data is made available to the software robot during the automation process. The use of the data can thus be configured and controlled in accordance with the principles of data protection and data minimization required by the EU-GDPR.

Four good reasons for X1 Secure Session

1. High security & high data protection
2. Stable automation
3. Fast and easy scaling
4. Unrivalled favorable scaling