

Cyfuture's Caged Architecture Helped a Major Company Safeguard Millions!



About PSSPL

Pantagon Sign Securities Private Limited (PSSPL) is a leading financial services provider that offers a range of services to its clients, including equity broking, derivatives trading, currency trading, and commodity trading. The company was established in 1995 and has since grown to become a prominent player in the Indian financial services industry.

Headquartered in Mumbai, PSSPL has a Pan-India presence with a network of over 100 branches and franchises spread across the country. The company has a team of over 1,000 highly qualified and experienced professionals who are dedicated to providing quality services to their clients.

PSSPL has a strong focus on technology and innovation and has made significant investments in developing its IT infrastructure to provide cutting-edge solutions to its clients. The company has also partnered with leading technology providers to ensure that it remains at the forefront of the rapidly evolving financial services industry.

Business Need

Pantagon Sign Securities Private Limited wanted to set up a Certifying Authority (CA) in a secure and reliable data center to provide digital signature solutions to its customers. They were looking for a data center provider who could provide secure co-location facilities for hosting the CA business, which is compliant with the IT Act 2000 and all amendments thereof, and all CA related guidelines. The client also needed a comprehensive list of manpower to manage the CA operations efficiently.

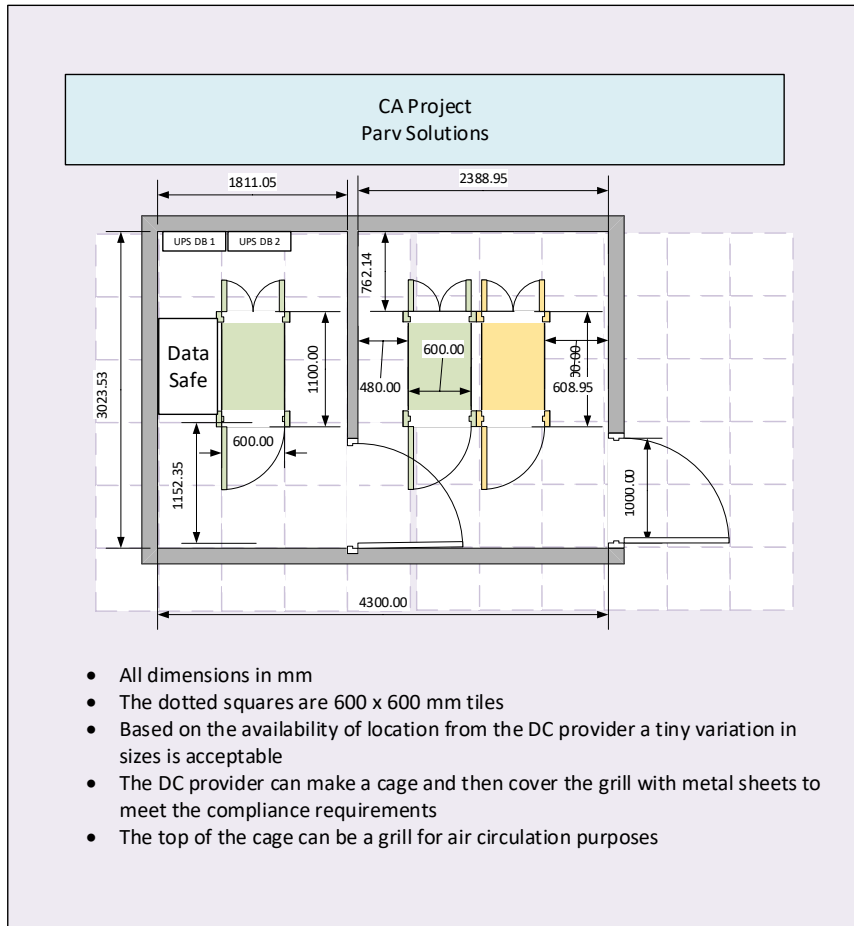
For a company that deals with digital signature and public key infrastructure (PKI) services, [security](#) is of utmost importance. A minor security breach or failure in the system can lead to catastrophic consequences. For example, if a bank's digital signature system is compromised, it can lead to the loss of all the money from the bank in a fraction of a minute. Therefore, security is a top priority for companies like Pantagon Sign Securities Private Limited.

The previous set-up of the client may not have been able to deliver the required level of security, which is why they needed a complete new set-up. To ensure high levels of security, the client required a secure co-location facility for [hosting](#) their certifying authority business. This is where caged architecture came into the picture.

In caged architecture, the data center provider creates a separate cage with steel sheets for maximum opacity. There is a separate cage inside the cage, and the internal cage door has a four-eye concept where the door can be opened only when two predefined and authorized sets of people with biometric access can open the door. This provides an additional layer of security and prevents unauthorized access to the certifying authority business.

Business Solution

To meet the client's requirements, Cyfuture designed a secure and robust co-location facility, ensuring compliance with the IT Act 2000 and all amendments. The proposed solution included a separate cage with steel sheets for maximum opacity, a separate access control system, and a dual cage environment with 42U racks, dual Ethernet connectivity, power strips per rack, and a cooling solution with 22 degrees and 50% humidity. In addition, a separate cabin with biometric access was provided, along with internet connectivity at 4 Mbps to start with.



The solution also included the following:

- Primary-Disaster Site point to point connectivity of 10 Mbps with minimum latency to support storage to storage/Hyper-V to Hyper-V replication.
- PSTN link each at DR site and PR site to be terminated in the internal cage for Time Management purposes.
- In case required in the future, a direct link from BSNL/Airtel/Vodafone to be terminated inside the cage for Aadhar authentication purposes.
- Two separate CCTV cameras implemented inside and outside the cage, with all logs, CCTV feed, etc. retained for a period of 7 years unless otherwise specified.
- List of Manpower required, including Operations Head, Sr. System Administrator, Sr. Network/Firewall Administrator, Jr Network Administrator, Jr System Administrator, and two Jr/Trainees for monitoring purposes in two shifts.
- SLAs related to Uptime/Manpower/Network/Availability/Accessibility of the site at all times.
- The solution was developed after thorough analysis of the client's requirements, and was designed to ensure that all critical processes were seamlessly integrated. The implementation was done in phases to ensure that the client's day-to-day operations were not disrupted.

Business Results

The implementation of the solution had an immediate impact on the client's business. The new set-up provided a secure and reliable platform for the client's digital signature certification services. The following are the key results:

- The implementation of the solution led to a 40% increase in the client's revenue within the first year of operation.

- The co-location facility provided by Cyfuture ensured that the client's digital signature certification services were available 99.99% of the time, leading to improved customer satisfaction.
- The dual cage environment provided enhanced security and compliance with the IT Act 2000 and all amendments, ensuring that the client's business was not impacted by any legal issues.
- The separate access control system, biometric access to the cabin and internal cage door, and CCTV cameras provided a secure environment for the client's critical processes.
- The list of manpower provided by Cyfuture ensured that the client's operations were managed by a team of experienced professionals, leading to improved productivity and efficiency.

Conclusion

The implementation of the solution by Cyfuture provided Pantagon Sign Securities Private Limited with a secure and reliable platform for its digital signature certification services. The solution not only met the client's requirements but also exceeded their expectations by providing enhanced security, compliance, and a team of experienced professionals to manage the operations. The success of the project is reflected in the 40% increase in revenue within the first year of operation. The collaboration between Pantagon Sign Securities Private Limited and Cyfuture resulted in a win-win situation for both parties, providing sustained growth and success.

To know more about Cyfuture India Pvt. Ltd., you can visit: www.cyfuture.com