



Case Study

Toyota Motorsport, GmbH boosts productivity in a secure, high-end CAD/CAM/CAE environment

“With the Teradici PCoIP Remote Workstation Solution, our workstations are more secure and flexible, providing an increased level of IT support, better efficiency and productivity for our staff”

PER NORDQVIST
IT SERVICE DELIVERY MANAGER
TOYOTA MOTORSPORT, GMBH



Toyota Motorsport, GmbH (TMG) is a one-stop shop for specialized engineering services tailored to the needs of high-profile clients around the world, including members of the Toyota Motor Corp. family. Its migration from local UNIX to flexible Windows-based remote workstations dramatically streamlines support and improves user computing experiences.

AT A GLANCE

Challenge

- Outdated local UNIX workstations.
- 24-hour repair/replacement time.
- Stringent security (confidential client designs).

Solution

- Migration from UNIX to Windows in the data center.
- Centralized data.
- Teradici PCoIP Remote Workstation Solution and Teradici PCoIP Zero Clients.

Results

- **Comfortable office environment:** less ambient heat and noise, for a more pleasant and productive workplace.
- **Increased security:** data locked inside the data center; strict USB device control.
- **System flexibility and scalability:** onboarding new employees or consultants in a matter of minutes (zero client desktops, remote workstation host cards).
- **Improved IT efficiency:** hardware issues can be resolved in less than 5 minutes.

“When we have a project, but are missing resources, we often hire external consultants. When the consultants arrive, we can quickly set up new workspaces. It’s as easy as taking the zero client in your hand, placing it on a desk, and your consultant is up and running.”

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In their quest to boost productivity in a fast-paced, high-end CAD/CAM/CAE environment for engineering, IT and facilities teams were presented with multi-faceted technology challenges:

- Keeping traditional local workstations up-to-date and resolving hardware/software issues had become increasingly time consuming, impacting day-to-day efficiency, throughput, and uptime for 250+ team members.
- In a fiercely competitive market place, it was of the utmost importance to adhere to strict security measures, protecting top-secret client designs and project details from any potential breach.
- Tethering engineers to unwieldy, hefty desktop systems was out of step with user preferences for more flexible, collaborative work styles.
- Excessive ambient heat from 100+ noisy workstations in the facility created an uncomfortable work setting.

Toyota Motorsport, GmbH made a strategic decision to migrate away from traditional, under-the-desk computing models. They selected instead a flexible, cost-effective Windows-based CAD/CAM/CAE engineering environment equipped with Teradici PCoIP Remote Workstation cards.

The choice of the PCoIP Remote Workstation solution came after an extensive evaluation of alternatives, which demonstrated that the Teradici suite of hardware and software products uniquely delivered uncompromised workstation

performance over any network. The IT team replaced traditional UNIX workstations with zero clients on every desktop.

“From an IT support point of view, the local UNIX workstations were a disaster,” explains Per Nordqvist, IT Service Delivery Manager at TMG. “Each workstation weighed about 30 kilograms (66 pounds). When a user had a hardware problem, it took half a day just to replace the machine. Today, with the Teradici PCoIP Remote Workstation Solution, it takes us 5 minutes.”

Now, TMG users’ operating systems, applications, and data reside securely in the data center. IT management has ultimate control over any potential security threat posed by USB devices, with the option to enable, disable and manage zero client USB ports to protect sensitive client data and intellectual property from going off premises without authorization. And, power users have quick and easy LAN or WAN access to graphically intensive engineering applications and high-resolution, full-frame-rate graphics and HD media.

“People are a little bit afraid of a remote workstation solution – they believe you sacrifice performance and productivity with it,” says Nordqvist. “But that is not true. The performance is really stunning.... I must say that Teradici is the leader of the pack.”

Moreover, day-to-day IT support requirements have been slashed by 30 percent, resulting in greater engineering throughput and uptime. “With the Teradici PCoIP Remote Workstation Solution, we’re extremely

Products used

Teradici PCoIP Remote Workstation Cards

PCoIP Zero Clients

PCoIP Management Console

flexible today,” explains Nordqvist. “When we have a project, but are missing resources, we often hire external consultants. When the consultants arrive, we can quickly set up new workspaces. It’s as easy as taking the zero client in your hand, placing it on a desk, and your consultant is up and running.”

To enhance the company’s high-fidelity remote workstation experience, TMG’s IT department is currently looking at ways to bring even greater flexibility and mobility to its workforce. Under consideration is Teradici’s new PCoIP Software Client, which enables remote access to applications running on high-end workstations equipped with Teradici PCoIP Remote Workstation cards – at home or on-the-go – from a desktop or laptop PC. Getting started is as simple as downloading the software free-of-charge, and clicking to install.

Altogether, TMG’s transition to a modern, flexible remote workstation infrastructure has streamlined operational efficiencies across the company, leading to a dramatically improved computing experience for engineers, IT, and facilities staff members alike. “With Teradici, our workstations are more secure and more flexible,” concludes Nordqvist. “We can provide increased level of IT support, better efficiency and productivity – and a better environment in the office.”

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