

SYDNEY MOTORSPORT PARK LIGHTING PROJECT

– NETWORK INFRASTRUCTURE

Design and Delivery of
Network Infrastructure for
Operation and Broadcast
Requirements



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Success Story



At a Glance

Client: Sydney Motorsports Park / Evolve Projects

Location: Sydney, Australia

Industry: Motorsport Facility

Project Value: \$350,000 - Network Infrastructure

Project Date: 2020/21

Challenge:

Sydney Motorsports Park, in collaboration with Evolve Projects, faced a pressing need for a customized network solution. This solution was crucial to support the installation of their state-of-the-art track-wide lighting system and align with their ambitious vision of becoming a pioneering force in motorsport track technology. Beyond the immediate requirements, they sought a solution with scalability to accommodate future expansion plans.

Involvement:

Chevron Network Group played a pivotal role, engaging during the project's design phase to craft a fiber optic network design that precisely met the client's outlined objectives. Upon submission and approval of the design, Chevron Network Group continued to provide invaluable services throughout the project's lifecycle. Their involvement was integral to ensuring the successful realization of the meticulously crafted designs.

Success:

The collaboration with Chevron Network Group bore fruit, marked by the triumphant deployment of the designed network. This network seamlessly connected more than 30 remote locations within the site to the new fiber optic infrastructure. Importantly, this infrastructure also incorporated additional fiber cores, thereby granting the client an extensive range of expansion options. These capabilities extended to prospective clients and external suppliers operating onsite, setting the stage for dynamic growth and fostering valuable leasing opportunities.

The project's success underscored Chevron Network Group's expertise in delivering robust, forward-thinking network solutions, ultimately contributing

to the evolution of Sydney Motorsports Park as a trailblazer in the motorsport industry's technology landscape.

Background

Sydney Motorsport Park, under the management of the Australian Racing Driver's Club and in collaboration with their trusted Project Management Partner, Evolve Projects, embarked on a transformative venture in late 2019. This venture involved the ambitious installation of a track-wide lighting system. However, this endeavor necessitated a comprehensive upgrade of the site's core fiber infrastructure to cater to the communication demands posed by the new track lighting control hardware.

The Challenge

Sydney Motorsports Park and Evolve Projects faced the formidable task of identifying a provider capable of designing a site-wide fiber optic network that could not only address the immediate needs of the project but also align with the dynamic nature of the client's operations and the potential future technology advancements that would be integrated throughout the venue.

The distinctive characteristics of Sydney Motorsports Park added an extra layer of complexity to the fiber optic network design. These included gaining an in-depth understanding of the client's existing operations and processes, the examination of current systems and configurations, and projecting the venue's future technological trajectory. The overarching objective was to devise a design that not only met the requirements of the present but also provided the adaptability needed for the demands of the future, all while adhering to budgetary constraints.

As the project continued to evolve, the need arose for network operational equipment to be strategically deployed across the site. This equipment had to exhibit simplicity and flexibility in terms of scalability. It needed to allow Sydney Motorsports Park to commence with their foundational requirements and expand seamlessly in response to evolving demands, all without

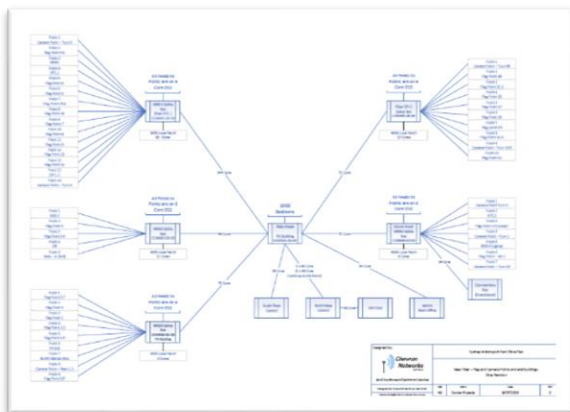
necessitating a comprehensive hardware overhaul or causing disruptions in network traffic.

Lastly, the chosen equipment had to be easily managed, monitored, and controlled remotely, ensuring efficient operation and maintenance in alignment with the facility's high-tech ambitions.

The Solution

Design

Chevron Network Group specializes in crafting tailored network solutions, recognizing that a one-size-fits-all approach may not be suitable. Throughout the design phase of this project, several consultation sessions were conducted, involving not only the client but also stakeholders to ensure that the proposed design would fulfill the requirements of all parties involved.



Chevron Network Group iteratively refined the design as more information became available regarding the network's intended direction, a collaborative effort involving all stakeholders. Once the final design received approval from Evolve Projects, it was handed over to the teams responsible for civil works and cable hauling. Additionally, Chevron

Network Group's business partner company was awarded the contract for fiber termination and certification testing.

Delivery

Chevron Network Group's involvement extended to the delivery stage of the project, offering consulting services to accommodate any last-minute design requests that needed to be seamlessly integrated during the ongoing delivery stage. They also oversaw the delivery process to ensure it adhered to the approved topological design.

During delivery, Chevron Network Group collaborated with a local fiber hardware manufacturer to design and construct a cost-effective custom cable module, addressing an issue encountered during the deployment of the core fiber rack.



Additional Services



Chevron Network Group was not only chosen as the primary supplier of fiber hardware and networking devices for this project but also demonstrated their flexibility in sourcing or developing any required product. They played a vital role in commissioning the new data network, offering programming and deployment services for the expansive data network spanning remote points.

This comprehensive network upgrade now positions Sydney Motorsports Park as a digital transformation-ready venue, poised for future ventures and upgrades. Over 30 network switches were deployed and integrated into the existing network during the commissioning process. This also included an upgrade of the onsite core network from the existing underperforming optical network to the new certified optical network infrastructure.

Outcomes

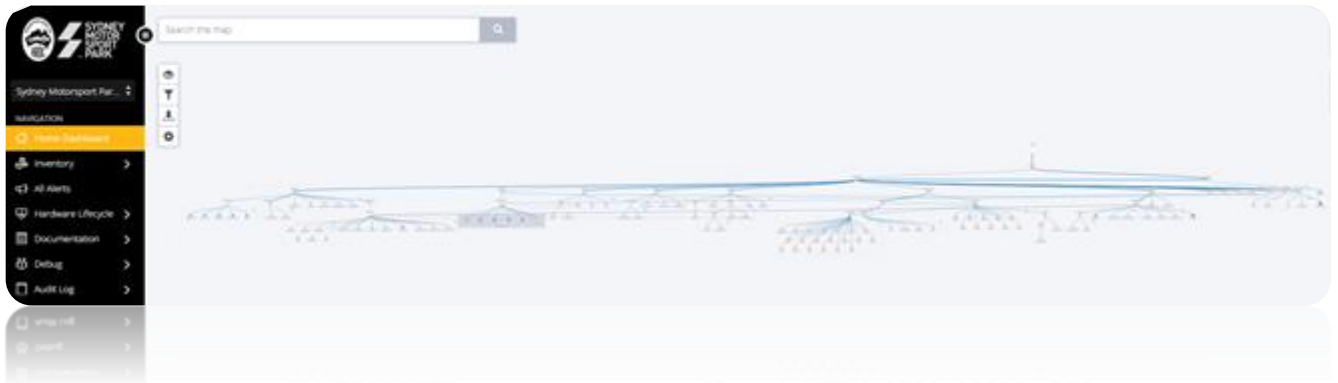
Chevron Network Group achieved all expected outcomes of the project, which encompassed the following achievements:



- A fit-for-purpose site-wide optical fiber design.
- An optical fiber network design that allows for seamless future expansion without the need for significant upgrades.
- A robust optical fiber network to support essential communication pathways to key lighting control locations.
- Enhanced communication to track operation points and various onsite outbuildings.
- Support for network connections to track flag lighting systems at each flag point.
- Additional fiber capacity available for lease to clients during onsite events.
- Extra fiber capacity available for lease to external contractors for broadcast production held onsite.
- Successful project completion within the allocated budget.
- Effective integration into existing site networks.

Ongoing services and support

Following the project's completion, Chevron Network Group has continued to provide essential network management and real-time monitoring services for all onsite network equipment. They have implemented an advanced network monitoring solution to ensure mission-critical devices are under continuous surveillance, with alerts promptly issued in the event of any issues, facilitating swift remediation.



Their ongoing services encompass:

- PC and network health and management services.
- On-call support services for events and normal operations.
- Remote and onsite network modifications on demand.
- Installation services for new hardware.
- Ongoing project consultation.
- Special systems support for Sydney Motorsport Park solutions.
- Emergency support services for network issues.
- And more.

Chevron Network Group remains committed to delivering a wide range of ongoing services and support, ensuring the sustained efficiency and reliability of the network they have implemented for their clients, including Sydney Motorsports Park.

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