

CASE STUDY

PSA LIVEABLE CITY, SINGAPORE: MODERN WORKPLACES FOR PORT OPERATOR

Datwyler supplied the communications network for the headquarters of PSA International – and also scored points with support and software expertise.

As suggested by the name, the PSA Liveable City building complex situated in Singapore's harbour area embodies the work/life balance. It comprises a twenty storey office tower with 42,000 square metres of floor space, and a four storey block full of leisure facilities. The main tenant is the port operating company PSA International, which is headquartered here and operates one of the world's busiest ports.

Following a construction period of almost three years, today PSA Liveable City is an intelligent and very sustainable building complex. It recently won the Building and Construction Authority's Green Mark Platinum Award, presented to exemplary resource-friendly projects in Singapore.

This is largely thanks to Surbana Jurong, a well-known consultancy for infrastructure and urban development. As the planner in charge, Surbana Jurong succeeded in reducing the heat transfer coefficient of the building envelope (EETV) to 36 watts per square metre. The facade is designed to protect the building against intense heat and at the same time to let in plenty of daylight. The effectively designed cooling, lighting and water systems help optimise maintenance costs even more.

A photovoltaic unit on the roof covers 36 percent of the annual energy consumption.



Greatly valued expertise

Lum Chang Building Contractors, the prime contractor for the construction project, has taken great care to select only the best materials and suppliers – among them Datwyler IT Infra. As a supplier of end-to-end solutions and services for structured building cabling with the software expertise needed for digitisation projects, Datwyler held a good hand from the outset.

The IT infrastructure supplier's team worked closely with its partners Alpha Media and Power Engineering, to optimise both planning and cost.

"For 20 years Datwyler has been our first choice for large, complex and iconic projects, as we highly value the consistent quality, flexibility and sales support," explained Andy Teo, Managing Director of Alpha Media Pte Ltd.

“This time again the Datwyler team supported us right through to project commissioning, not only in terms of the structured cabling but also the software for the digital recording and documentation of the solution installed.”

Today PSA International has a fast, reliable communications network throughout the building. Just under 10,000 data connection points were installed in the floors of PSA Liveable City using 250 kilometres of shielded Cat.6_A copper data cable. The backbone cabling – around 800 links – comprises altogether 10 kilometres of single-mode fibre optic cable terminating in over 70 server and network racks.

Coordinated software solution

As well as the high-performance network, Datwyler’s tried and tested documentation software is essential for the long service life of the IT infrastructure, particularly as regards future modifications and expansion.

In the case of the software the Datwyler team in Singapore also coordinated closely with all those involved – with the PSA users as well as with Lum Chang, Surbana Jurong and the partners. Once the proposal was accepted the team helped set up the solution, supported data recording, the test run, commissioning and training.

(April 2022)