*Project
reference* | Palm Jumeirah, Dubai

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Palm Jumeirah, Dubai

The coastline of Dubai is rapidly changing as the Palm Islands emerge from the sea. Today, the city of Dubai holds approximately 1.5 million people. In 2015 this number is expected to have increased to 3 million. Dubai is currently the fastest growing metropolis on earth.
To promote tourism, three islands have been built by Nakheel in the waters of the Arabian Gulf. One of those is Palm Jumeirah, where Siqura deployed its Up-the-Fiber™ 4200 SM solution.

78 km coastline

5.4 km monorail

1500 villas

94,000,000 cubic metres sand

52.3 billion USD

2000 apartments

Customer
Siemens Building Technologies – Security Systems

Technology
Siqura's fiber components

Market
Commercial

Challenge
Monitor the residential areas on Palm Jumeirah

Solution
Up-the-Fiber™ (UTF) 4200 SM system

The challenge
The island consists of a trunk, a crown with 17 fronds, and a surrounding crescent island that forms an 11-kilometre-long breakwater. The island itself is 5 by 5 kilometres and will add 78 kilometres to the Dubai coastline. Palm Jumeirah is primarily a retreat for tourists and a residential area for living, relaxation and leisure. It will contain more than 30 five-star hotel brands, three types of residential villas, shoreline apartment buildings, beaches, marinas, restaurants, cafes and a variety of retail outlets.

Dutch involvement in the construction of the Palm Islands is high because of their vast knowledge and long history of building dikes and other waterworks. Siqura, a company with branches all over the world, including the Netherlands, was awarded an order from Siemens Building Technologies – Security Systems to supply state-of-the-art digital fiber-optic transmission equipment in order to monitor the residential areas on Palm Jumeirah.

The solution
The cameras on the fronds are connected to a single control centre in the trunk of the Palm. System consists of more than 200 video and data modules to be used in the security network. Because of its small TX footprint and high picture quality, Siqura's Up-the-Fiber™ (UTF) system was chosen. The Up-the-Fiber™ series provides high-quality, 9-bit digitised video transmission over extended distances.

In this case, the Up-the-Fiber™ works with one single-mode optical fiber. The system features a potential free contact to transport alarms from the camera (anti-tamper or door contact). The miniature stand-alone transmitters are suitable to be used within outdoor camera housings or camera connection boxes and are managed with Siqura's Smart Network Management (SNM™).

"Dubai is one of the fastest-growing metropolises on earth, with a population expected to double within the next eight years", said Roger Decker, Managing Director. "We are pleased that Siemens Building Technologies – Security Systems selected our technology to help protect one of the wonders of the modern world."

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