

NETWORK
M A N A G E R

WIFI SURVEY CASE STUDY:
Schneider Electric SE



**PROVIDING FAST AND RELIABLE
WI-FI FOR CLOSED OFFICES**

Customer:
Schneider Electric SE

Requirements:

Update Schneider Electric SE wireless network to ensure reliable and fast connection, and support business critical devices and processes in Schneider Electric SE headquarter. Design the network for both 2.4GHz and 5GHz.

Solution:

Ekahau Site Survey and Planner were used for network design, testing and validation of new AP positions.

Results:

Wi-Fi that reliably supports business-critical applications in Schneider Electric SE headquarter.

Schneider Electric SE is a French multinational corporation specializing in electrical equipment that is headquartered in Rueil-Malmaison, France. This location is on 7 floors, and it's projected as a closed office space building. Since this is a main headquarter top of the line network infrastructure is a must have. This location has a lot of client devices, including laptops, phones, conference systems, etc.

CHALLENGE:

For location like this, which focuses on video conferences and real-time information, biggest obstacle was that they were using older access points that weren't positioned as they should and they had too big user density per access point. Since this location has offices that are separated by the walls, it needs to be accounted for when projecting new infrastructure. Current wireless network was already reaching an end of life, so they needed to swap out for a newer and more fitting equipment. New network needs to be designed for both 2.4GHz and 5 GHz, with emphasis on 5GHz.

350
ACCESS POINTS
CISCO 3800 SERIES



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SOLUTION:

New Wi-Fi network in the building has over 350 access points which are all from Cisco 3800 series.

Big problem from before was usage of older access points and mounting locations which were inefficient. That problem was solved with access points with internal omnidirectional antennas mounted on ceilings, and with external directional antennas in hallways where needed, so the coverage was 98%. While Schneider Electric SE network and Wi-Fi infrastructure are managed internally, the network design and survey are done by our engineers. Ekahau Site Survey Pro was used for pre-deployment on-site survey, and for the network design based on the pre-survey measurement data. Schneider Electric SE chose Ekahau Site Survey tool because it's the leading tool in market for conducting wireless site surveys. Using Ekahau Site Survey ensures the best performance since it has features to draw in all walls and obstacles to wireless signal propagation.

RESULT:

The end user feedback on work that was done in terms of coverage and performance was positive. Currently Schneider Electric SE wireless network is stable and performance-wise, it can support even more users than they have at the moment, and no further changes to network that was implemented is planned. However, regular site surveys are an effective way to ensure network reliability during its current lifecycle, and can prove vital in case any new changes are needed.



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