



PROFESSIONAL SERVICES FROM OT EXPERTS

Wireless Site Survey

Certified industrial network experts examine your wireless network and provide best practices to assist with network design, planning, and troubleshooting.

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Why do I need a wireless site survey?

When it comes to industrial wireless applications, many factors can influence the performance and stability of the network. Through many years of working with industrial companies, Siemens has seen all too often the negative effects of improper planning, analysis, and design; prior to implementation. These shortcuts at the beginning of the project often lead to decreased production or production outages post implementation. Therefore, the design stage is critical to establishing a reliable and robust network. However, designing a wireless network leads to many questions that are not always easy to answer. Questions like what frequency and channels should I use, where should I locate my access points, or what are potential sources of interference? This is why a wireless site survey is the foundational first step for any wireless project.

Failing to properly answer these questions when planning a wireless network can result in risking potential for:

- Additional labor and engineering costs to correct signal quality issues
- Project delays
- Interference with existing wireless systems.

Therefore, to mitigate these risks, it is recommended that a wireless site survey be performed. A site survey can provide crucial design insights like sources of RF interference, bill-of-material confirmation, coverage maps, and design support.

What is covered in a site survey?

- How to complement existing IT/OT networks
- What frequency should be used (2.4GHz or 5GHz)
- How to best allocate the available wireless spectrum
- Access points required
- Optimal access point locations
- Sources of RF interference
- Signal coverage maps
- BOM confirmation

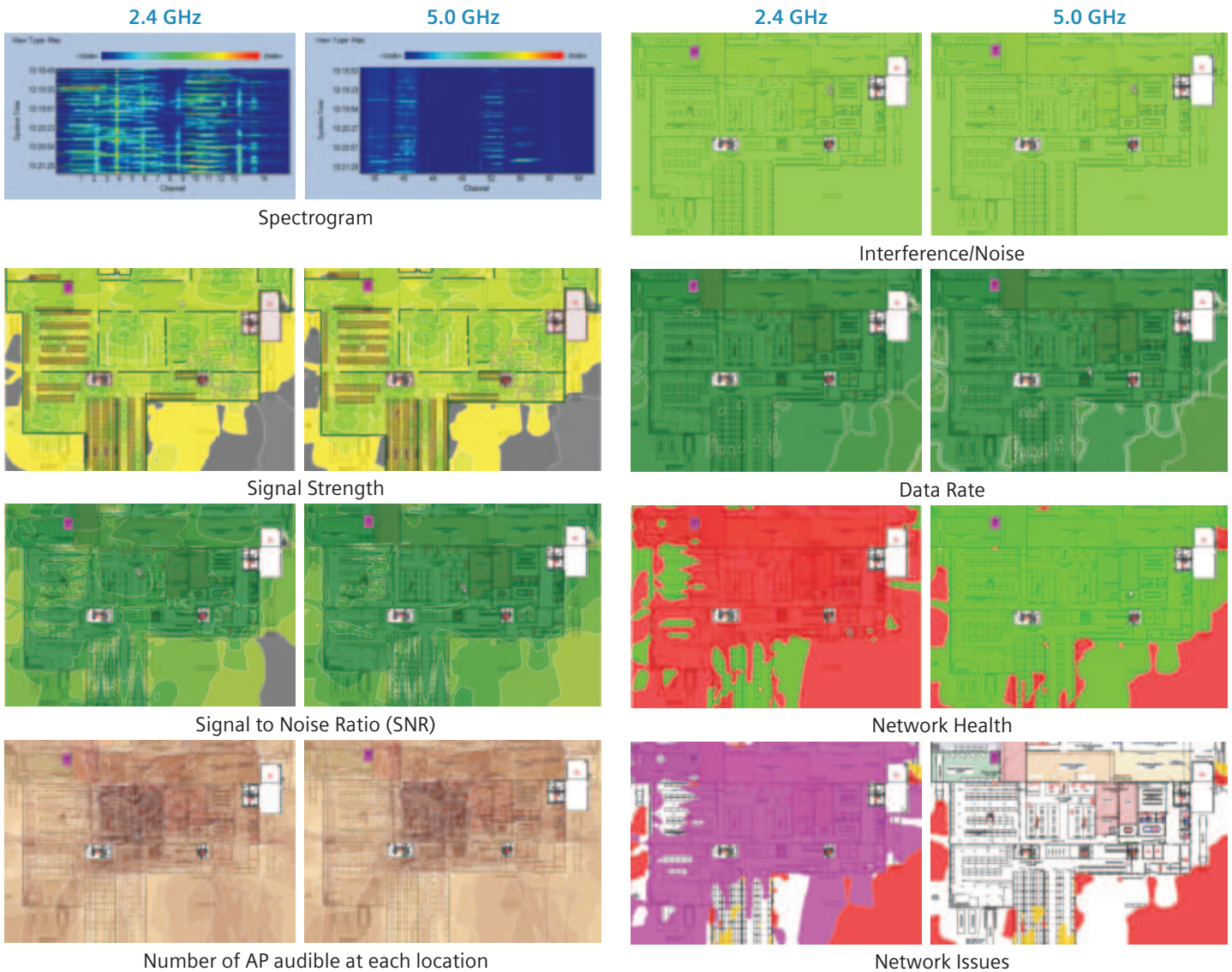


Partnering with Siemens for this wireless site survey during the design phase can save the trouble of trying to correct interference and signal issues within your wireless network and ultimately ensure you have a network ready to handle the challenges of your OT network. Plus, a Siemens expert consultant can help your team implement the current best practices and be a resource for any questions or troubleshooting that is needed.

In a wireless site survey, our wireless professionals use specialized tools to create a coverage map of your facility and highlight important design considerations. Our professionals also provide recommendations on how to mitigate interference issues and where to locate access points to provide a strong and clear signal throughout the entire facility.

Our wireless professionals have experience with all phases of wireless design and setup and can be a trusted resource for your team on all things wireless.

Use-case examples of tests that are run on both 2.4GHz and 5.0GHz bands.



Access point recommendations as a result of analysis in our use-case example.



Pre-Existing Access Point Locations



Recommended Access Point Locations



Recommended Access Points (with channel assignments)

Speak with a qualified expert from Siemens today about your wireless project. Whether you have an existing setup or are currently designing a system from the ground up, a Siemens wireless site survey can help provide a stable wireless network capable of handling any application.

Email us at siemensci.us@siemens.com.

We look forward to partnering with you on your next project.

Legal Manufacturer

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