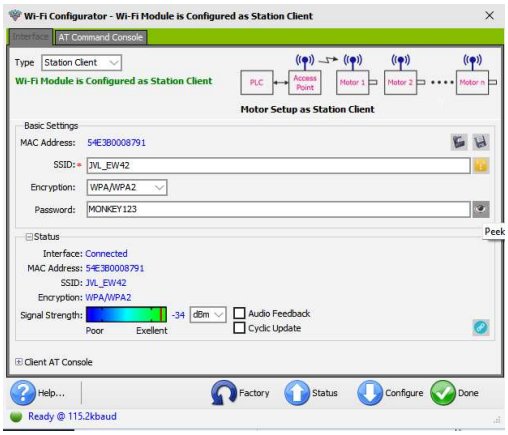
Profinet wireless Example 001

This example was developed in TIA portal V16.

2 MIS motors are controlled from the PLC using a Siemens Scalance W761 wireless accesspoint.

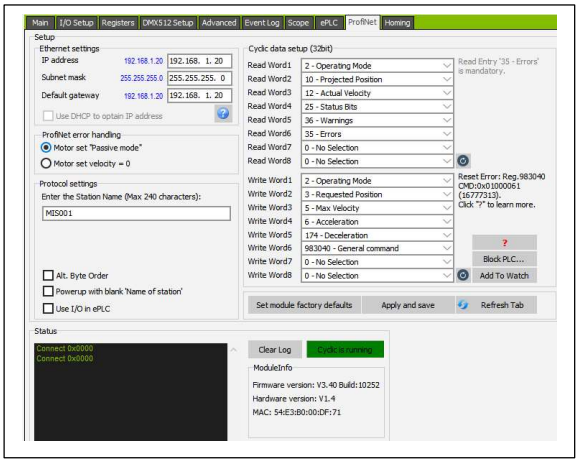
The TIA portal project includes configuration and setup for the Siemens scalance accesspoint as well as the PLC program.

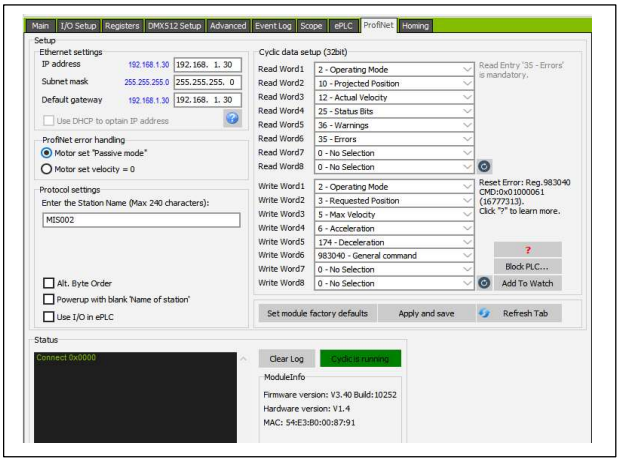
From MacTalk the wireless setting in both motors are as follows:



The Siemens Scalance accesspoint is configured for SSID **JVL_EW42** with encryption and the password **MONKEY123**. So the motors are configured as wireless clients with the settings required.

From MacTalk both motors are configured as follows:





Notice the Station names “MIS001” and “MIS002”.

Please make sure that the motors are configured accordingly.

The update time is set for 128ms on both motors, but it will depend greatly on the quality of the wireless network.

The program moves the motors between position = 0 and position = 409600 (exactly one revolution), each motion is started based on the “in position” -bit for the motors.

The example writes values directly to the tags associated with the cyclic data exchange to the motors, alternatively the JVL function blocks can be used.

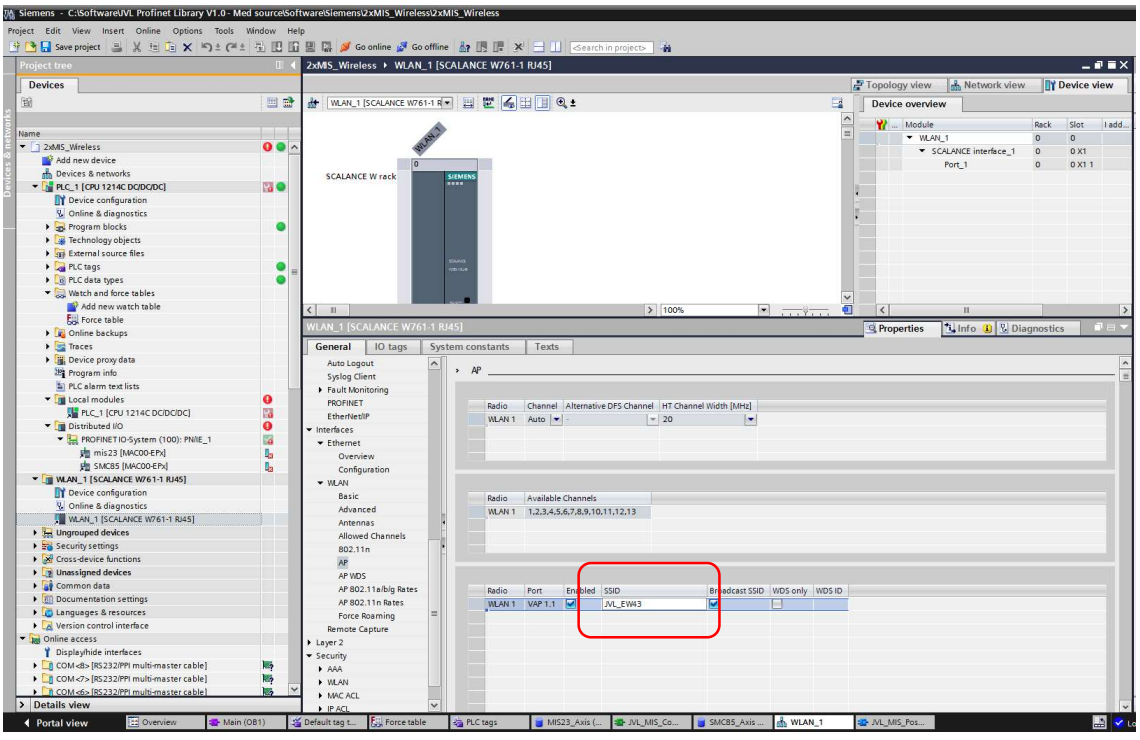
Siemens Scalance setup from TIA Portal.

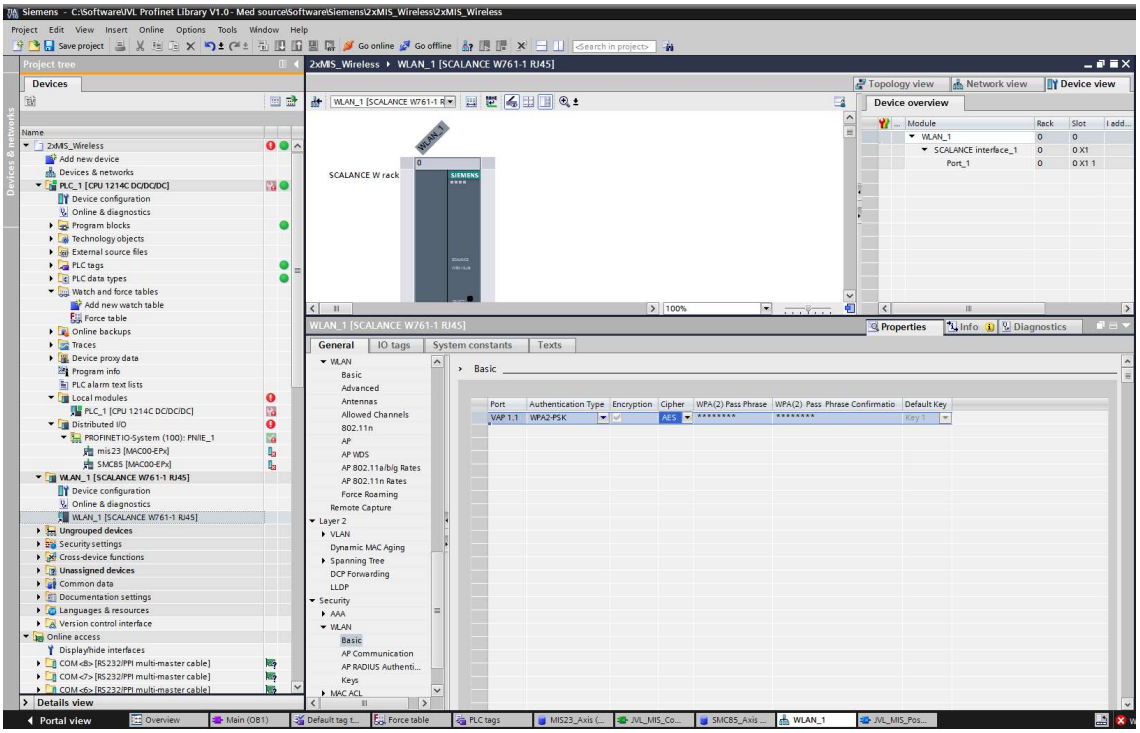
The following shows the setings for the Siemens scalance accesspoint, but a complete guide to all the details and considerations that must be done for a strong infrastructure is beyond the scope of this manual.

The example project holds a setup for the accesspoint.

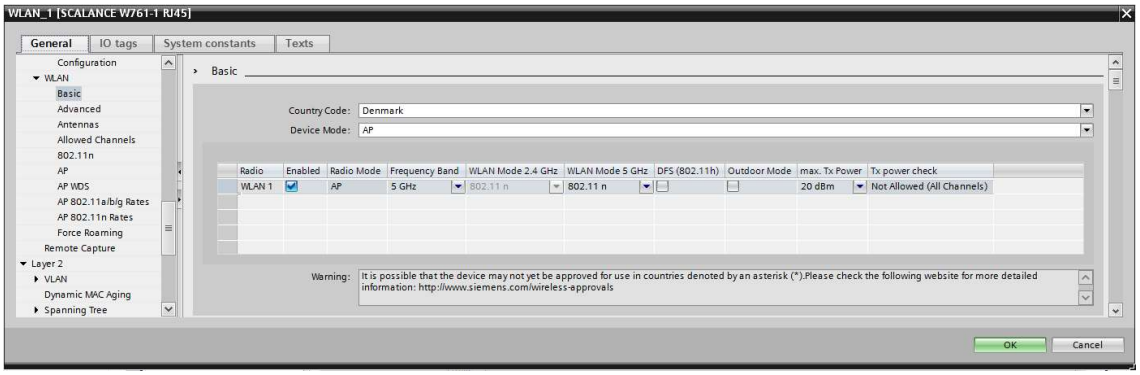
Configuration and commissioning of the accesspoint can also be done by using the embedded web server in the accesspoint. This also holds some additional features to analyze the wireless environment, such as the spectrum analyzer etc.

SSID:

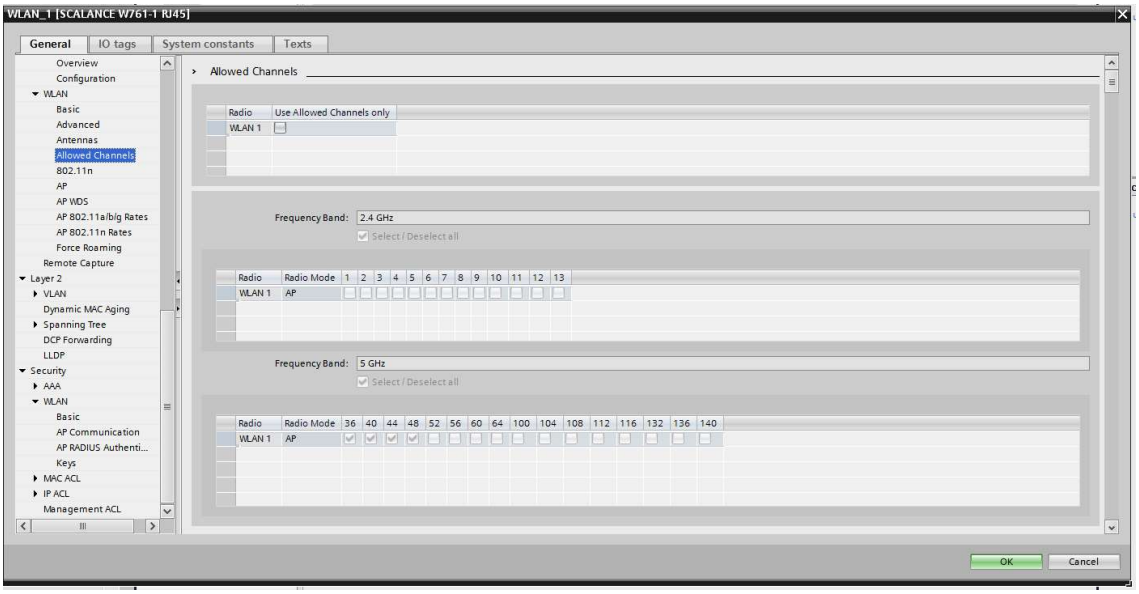




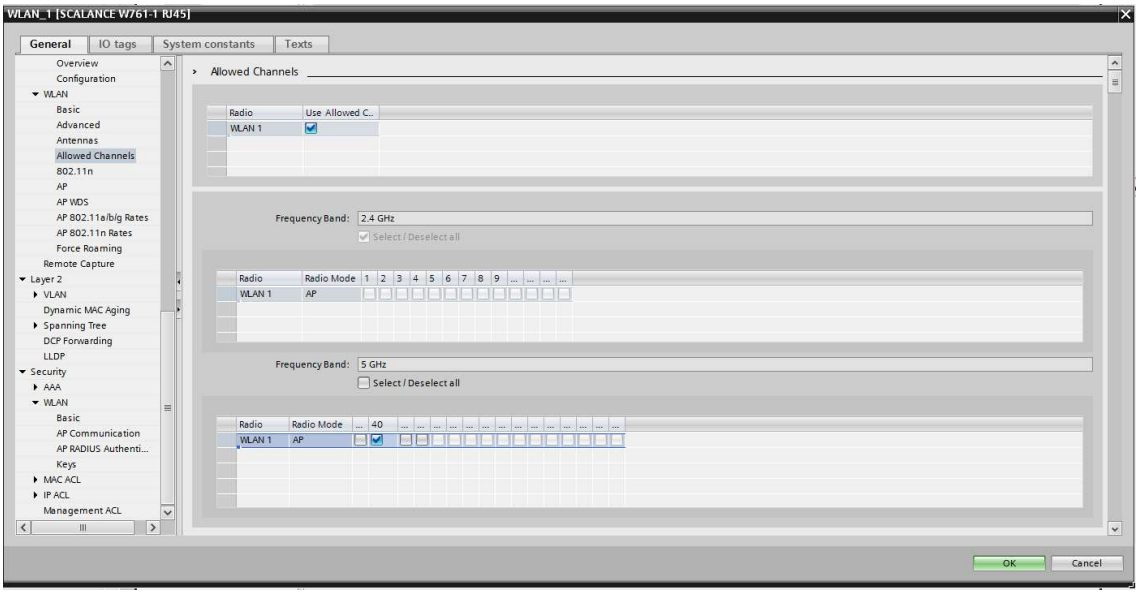
Enable the accesspoint and select frequency band (2.4GHz or 5GHz).



Channel selection:



5GHz, channel 40 –selection



Spectrum analyzer is only available from the web based client.

