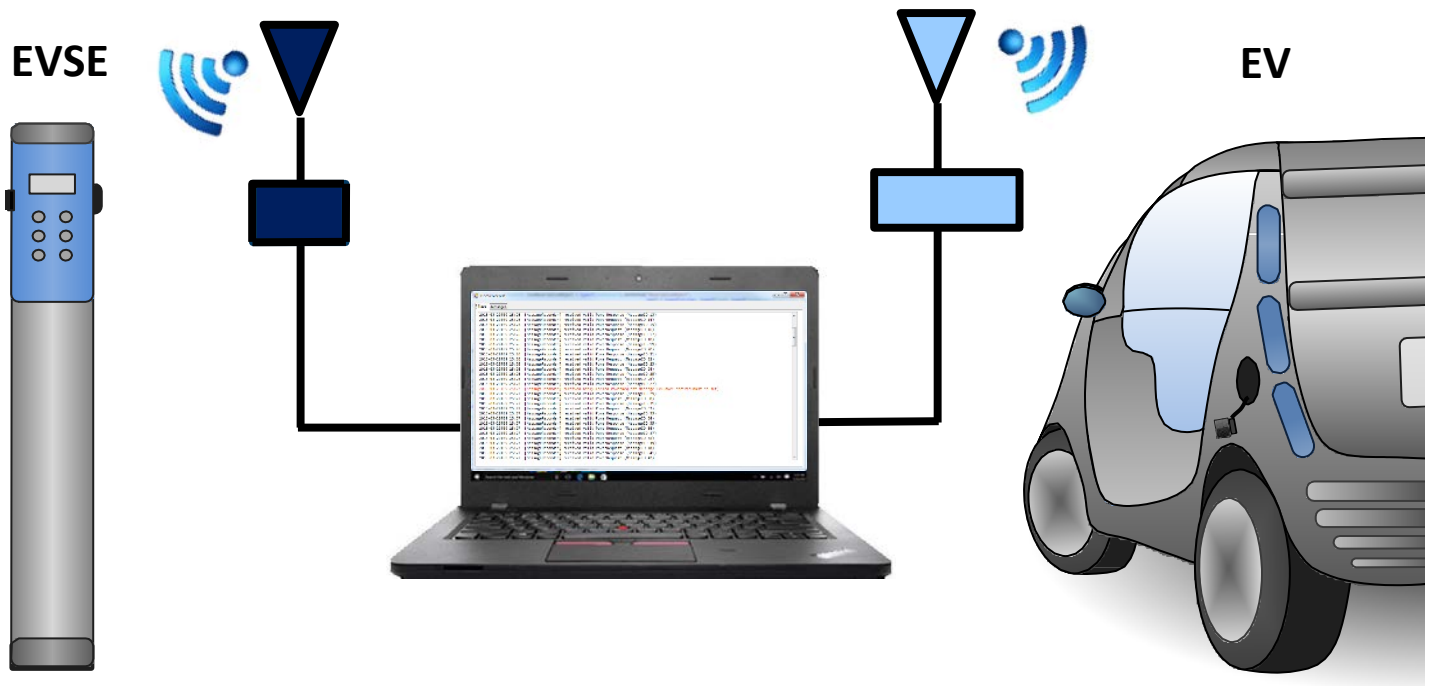


WPT 新能源汽车无线充电通信测试仪

符合 SAE J2954 无线充电规范

德国科尼绍



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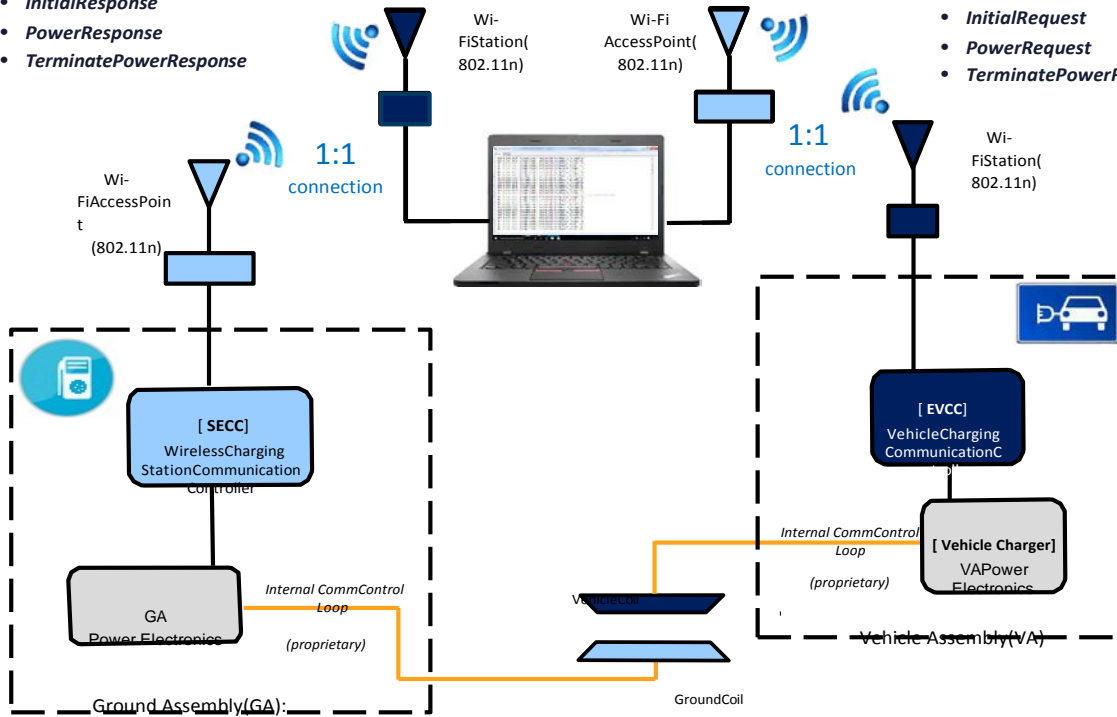
„Man-in-the-Middle” Mode - 应用 1

(GA) WPTMessages:

- InitialResponse
- PowerResponse
- TerminatePowerResponse

(VA) WPTMessages:

- InitialRequest
- PowerRequest
- TerminatePowerRequest



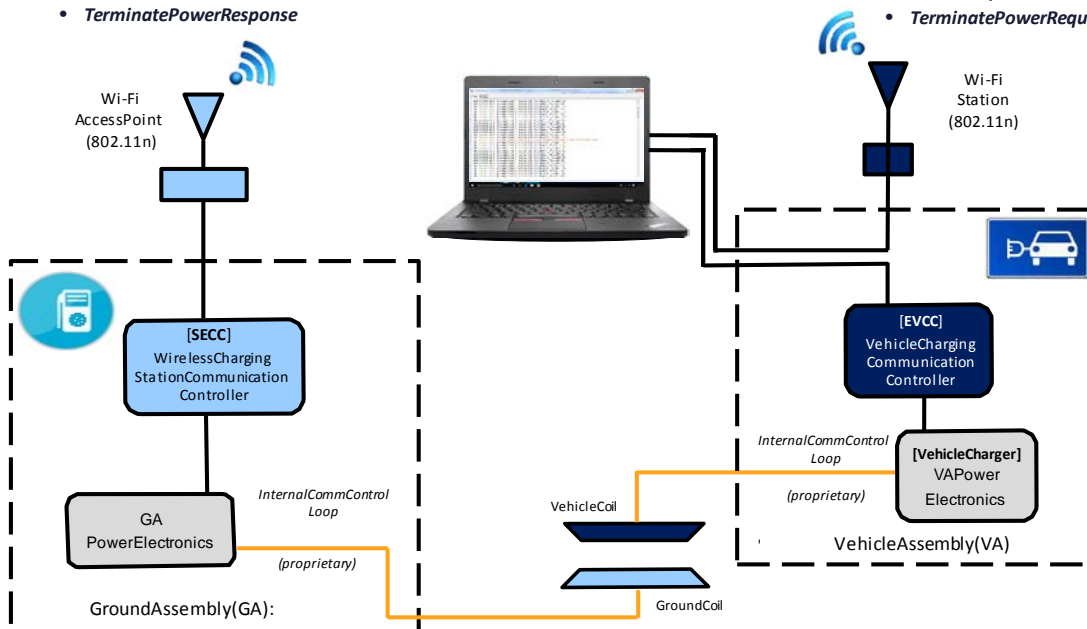
„Man-in-the-Middle” Mode - 应用 2

(GA) WPTMessages:

- InitialResponse
- PowerResponse
- TerminatePowerResponse

(VA) WPTMessages:

- InitialRequest
- PowerRequest
- TerminatePowerRequest



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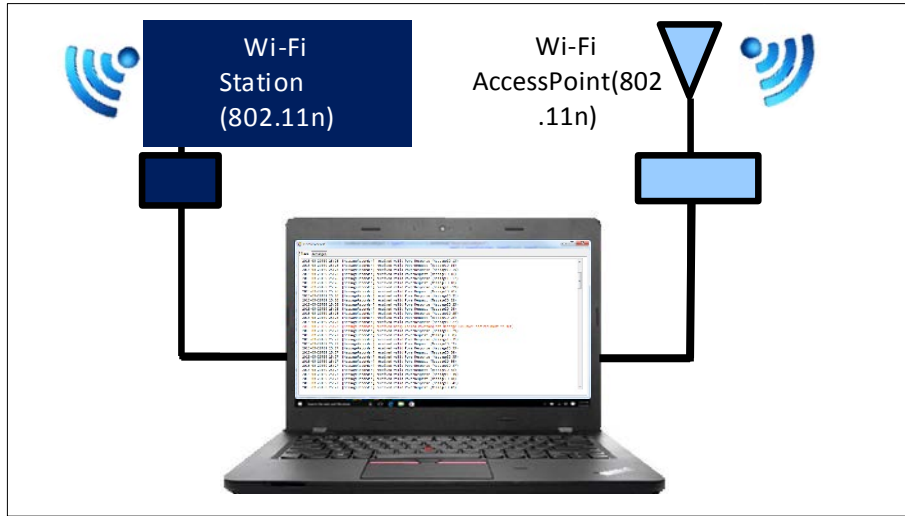
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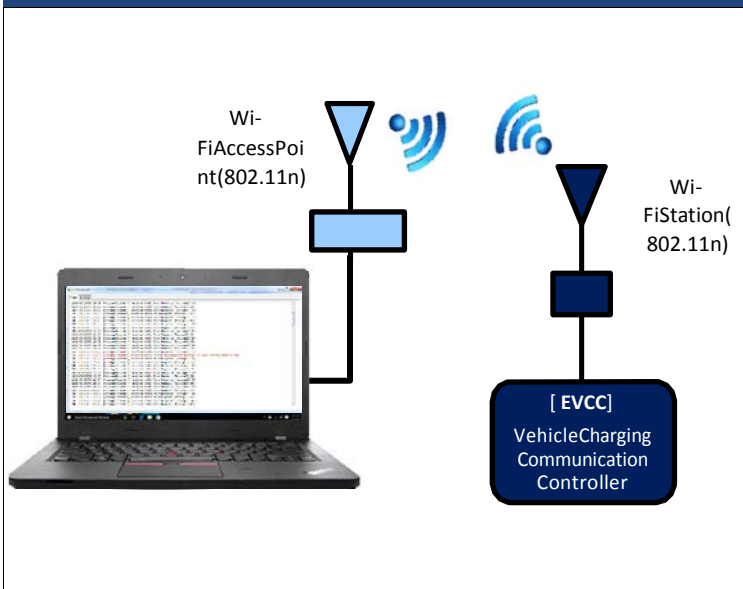
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可能性

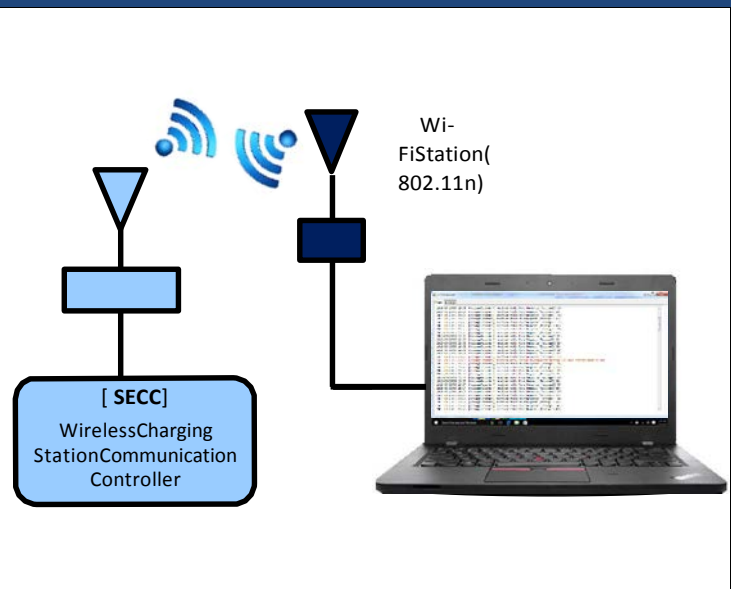
Man-in-the-Middle(可选)



EVCC Test(未来)



SECC Test(未来)

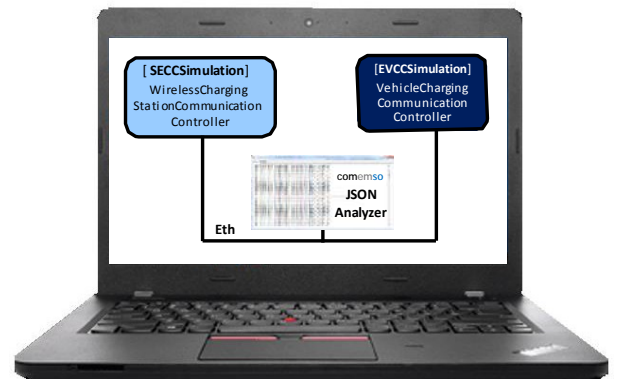


当前状态:

- JSON 分析仪 (可用)
- 通过自己的测试脚本在 PC 上模拟 SECC 和 EVCC

可用功能:

- 追逐/调试
- 消息



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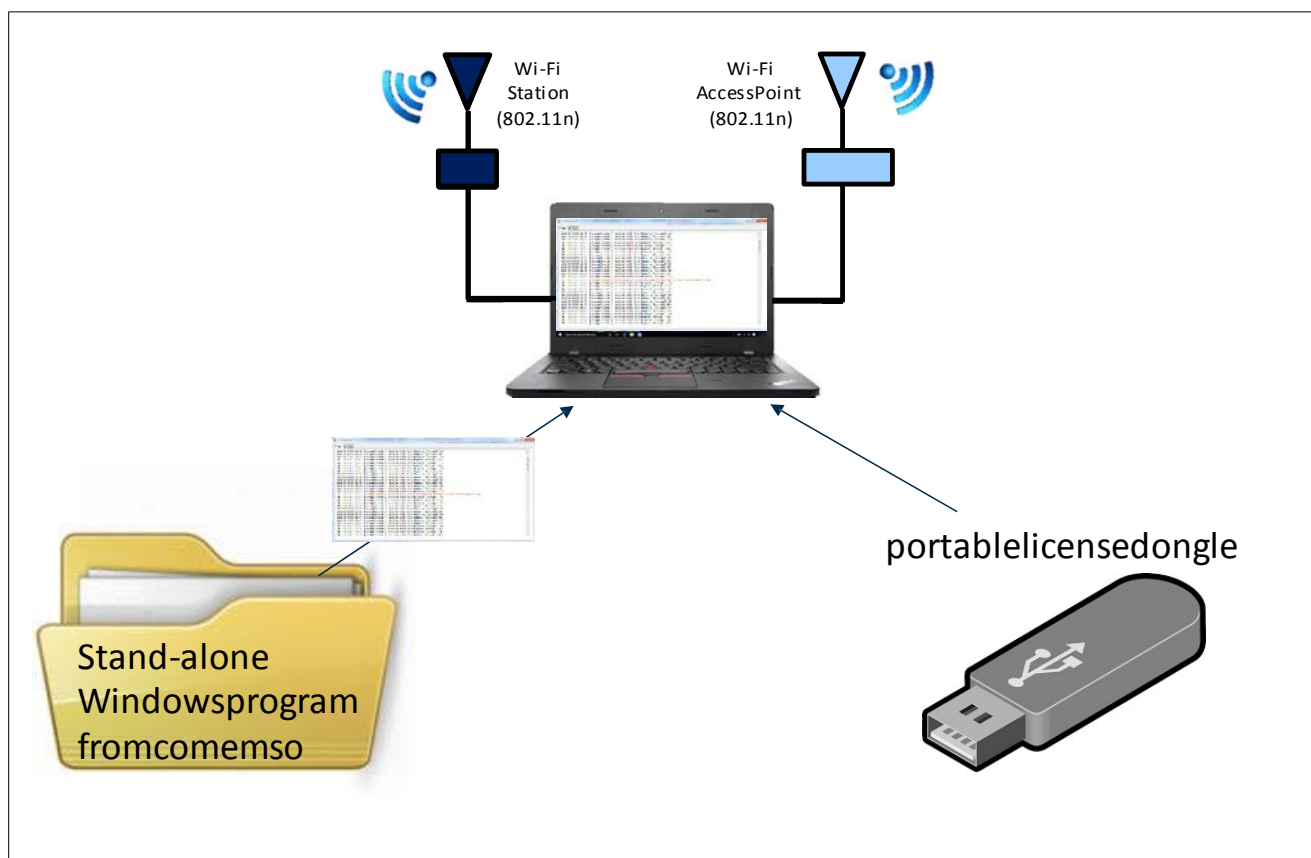
现状

独立 Windows 工具:

- 安全双向 HTTP 代理, 不需要运行管理权限, 用于在 EVCC 和 SECC 之间转发 JSON 消息
- 多线程应用程序, 以确保对用户输入做出反应
- 性能: 在英特尔酷睿 i5-6500 @ 3.2 GHz 上; 在不到 10 秒的时间内分析 1000 个电源请求和 1000 个电源应答 JSON 消息 (总共 2005 条消息)

授权:

- 通过 USB 加密狗授权, 简单易用



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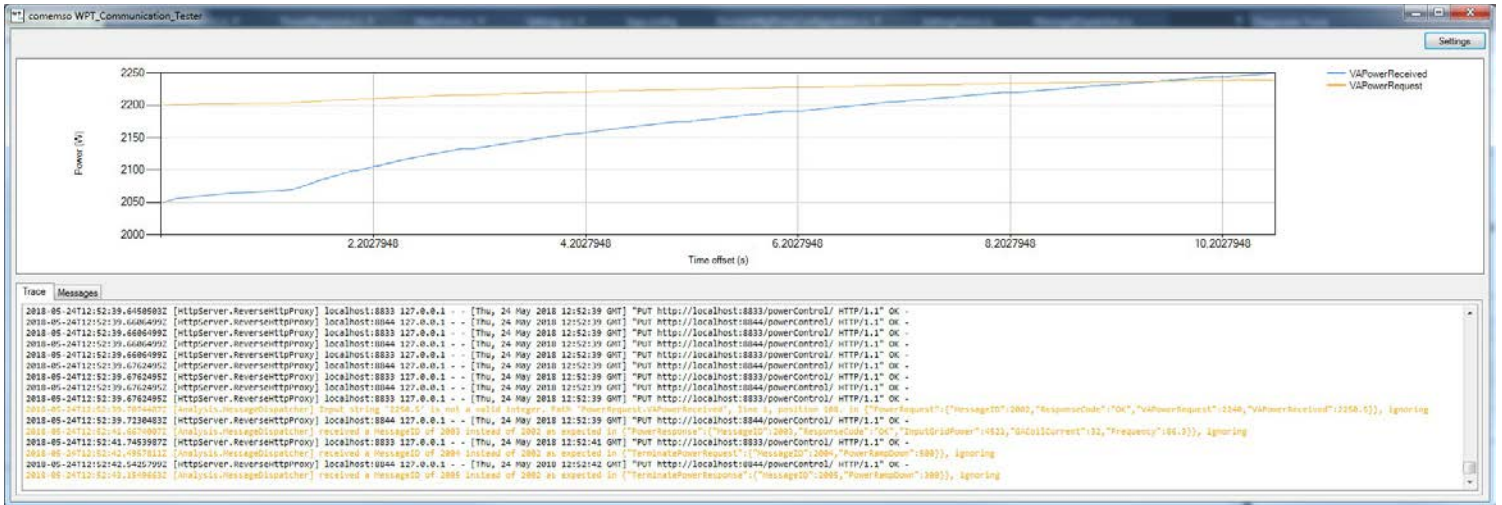
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验证和导出功能

验证

- 非常彻底的 JSON 验证，目前基于 SAE J2954 的 JSON 规范 v6



导出功能

- 通过在消息列表中选择一个或多个 JSON 消息将其复制到剪贴板 - 生成的文本是有效的 JSON 数据，可以在另一个程序中加载（如果用户想要重放或分析消息）

This section illustrates the export functionality. On the left, the WPT Communication Tester interface is shown with the 'Trace Messages' window open. A selection of messages is highlighted in blue. A callout box with an arrow points to the 'Copy as JSON' button. On the right, a text editor window titled 'Unbenannt - Editor' displays the copied JSON data. The JSON structure includes an 'InitialRequest' object with parameters like 'VAPowerClass', 'VAMaximumReceiveablePower', 'VAMaximumGroundClearance', 'VAMinimumGroundClearance', 'VAFrequencyMode', and 'VAControllLoop'. It also contains a 'PowerRequest' array with multiple entries, each having a 'MessageID', 'ResponseCode', 'VAPowerRequest', and 'VAPowerReceived' value. The JSON is valid and ready to be used in another program.

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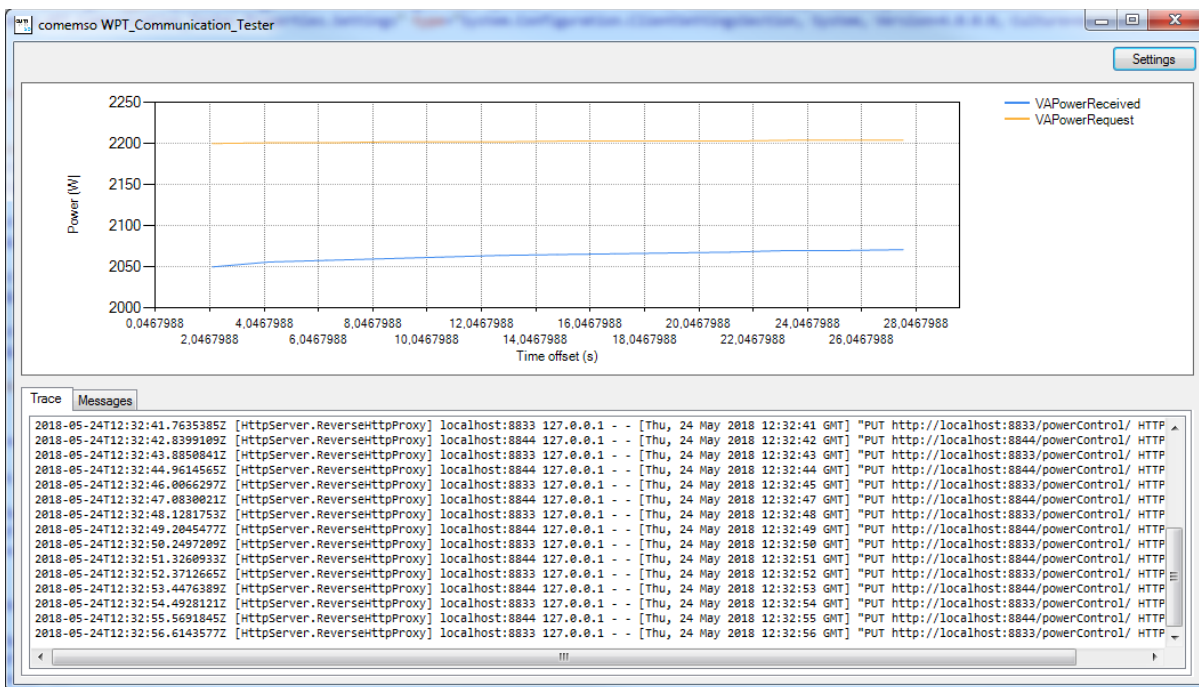
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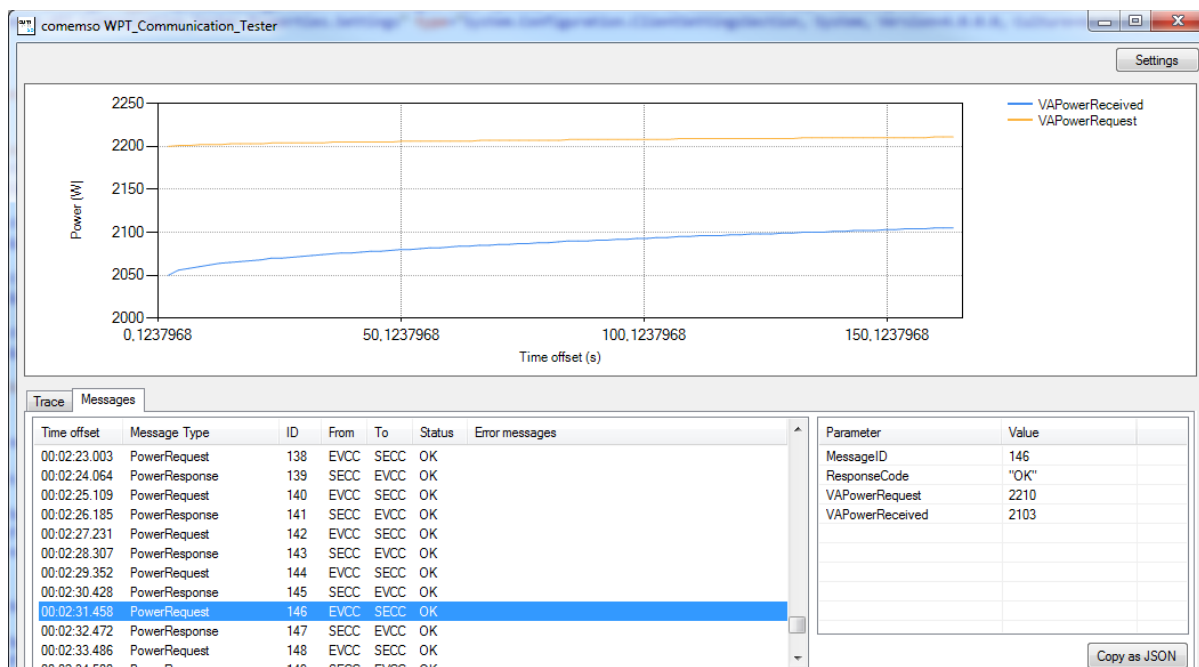
自动缩放

- 该图根据 EVCC 的电力请求 JSON 消息的内容显示请求的和接收的功率；具有时间和信号的自动缩放

Normal chargingtrace



Normal chargingmessage



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我们的目标： 使复杂的充电过程易于分 析和测试！

适用于移动和机架使用的设备，以及适用于全球所有标准的设备。
小册子中所示的装置和部件就是例子。
实际外观因所选设备而异。

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