

Title: Vienna Power Communication 5G Base Station Project

Generated on: 2026-03-31 18:46:14

Copyright (C) 2026 ALEXANDRA BESS. All rights reserved.

---

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base ...

Currently, there are two 5G simulators under development; the Vienna 5G System Level Simulator and the Vienna 5G Link Level Simulator. They are described in more detail in the following sections.

The Vienna 5G System Level Simulator evaluates the performance of large scale 5G networks through Monte Carlo simulations. It can model different base station and user types, uses flexible object ...

Vienna Airport is developing an independent 5G campus network specifically designed for mission-critical applications such as automated apron operations and autonomous systems.

The document introduces the Vienna 5G Link Level Simulator. It provides flexibility to simulate different 5G candidate physical layer schemes and waveforms without a finalized specification.

The project will deploy a 5G SA, hybrid private-public network across an area of 10 km<sup>2</sup>, for a total of six outdoor macro base stations and 47 indoor small cells.

Jul 1, 2024 &#183; This paper conducts a literature survey of relevant power consumption models for 5G cellular network base stations and provides a comparison of the models.

5G LL Simulator and the Vienna 5G SL Simulator in terms of LQM and LPM in this work. This employed method of abstracting and simplifying individual communication links yields a necessary...

Website: <https://www.lesfablesdalexandra.fr>

