



ERICSSON

SUCCESS STORY
XL AXIATA, INDONESIA

TAKING OFF AT JAKARTA AIRPORT

XL Axiata boosts indoor connectivity
by up to 300 percent

CREATING CONNECTIONS

CUSTOMER PROFILE

XL Axiata is one of the major telecommunications operators in Indonesia. First established in 1996, the company provides digital services to both consumer and corporate markets. This is supported by its wide and high-quality network (2G, 3G and 4G) across the nation, covering 93 percent of the population.

www.xl.co.id/en/home

Airports are hubs of excitement, entertainment and innovation, connecting cities to the global marketplace. Business and leisure travelers rely on the mobile network to respond to emails, message family and friends, and update their social media channels in departures and arrivals.

Yet with many roaming subscribers in a limited space, it can prove challenging for operators to live up to performance expectations. Public in-building sites, such as airports, offices and stadiums, often struggle to remove broadband capacity bottlenecks and optimize user experience.

New heights

XL Axiata is a 'rising star' in Indonesia, aiming to improve indoor network experience for its 46.5 million subscribers.

Mobile broadband is growing at a phenomenal pace in the Indonesian market, with increasing smartphone penetration, a surge in data traffic, and ongoing 4G/LTE investments.

That said, only 40 percent of consumers are happy with their overall indoor connectivity experience. XL Axiata had recently transformed its brand proposition, and needed the optimum network to match.

The right fit

XL Axiata selected a 4G LTE and 3G/WCDMA indoor small cell solution based on the Ericsson Radio Dot System (RDS) and Ericsson Micro Remote Radio Unit (mRRU).

The Ericsson Radio Dot System provides high performance voice and data coverage and capacity in

the broadest range of in-building environments, including offices, event venues and airports. It features an innovative antenna element that, together with a distributed architecture and centralized baseband, enables the provision of high-level mobile broadband coverage for different kinds of users and spaces.

Dian Siswarini, President Director of XL Axiata, explains: "We see Ericsson's solution as the right fit in our commitment to continuously improving the mobile service experience for our customers. With the solution, XL Axiata's subscribers will enjoy a better indoor experience and we also enjoy the fast and easy deployment of the system."

The solution can integrate seamlessly with XL Axiata's LTE and 3G/WCDMA network, enabling the operator to efficiently expand indoor app coverage and network capacity.



Consumers expect high-quality data and voice coverage regardless of location, making the Ericsson Radio Dot System a key differentiator for XL Axiata."

Thomas Jul
Head of Ericsson Indonesia and Timor Leste, Ericsson





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President Director, XL Axiata



Test pilot

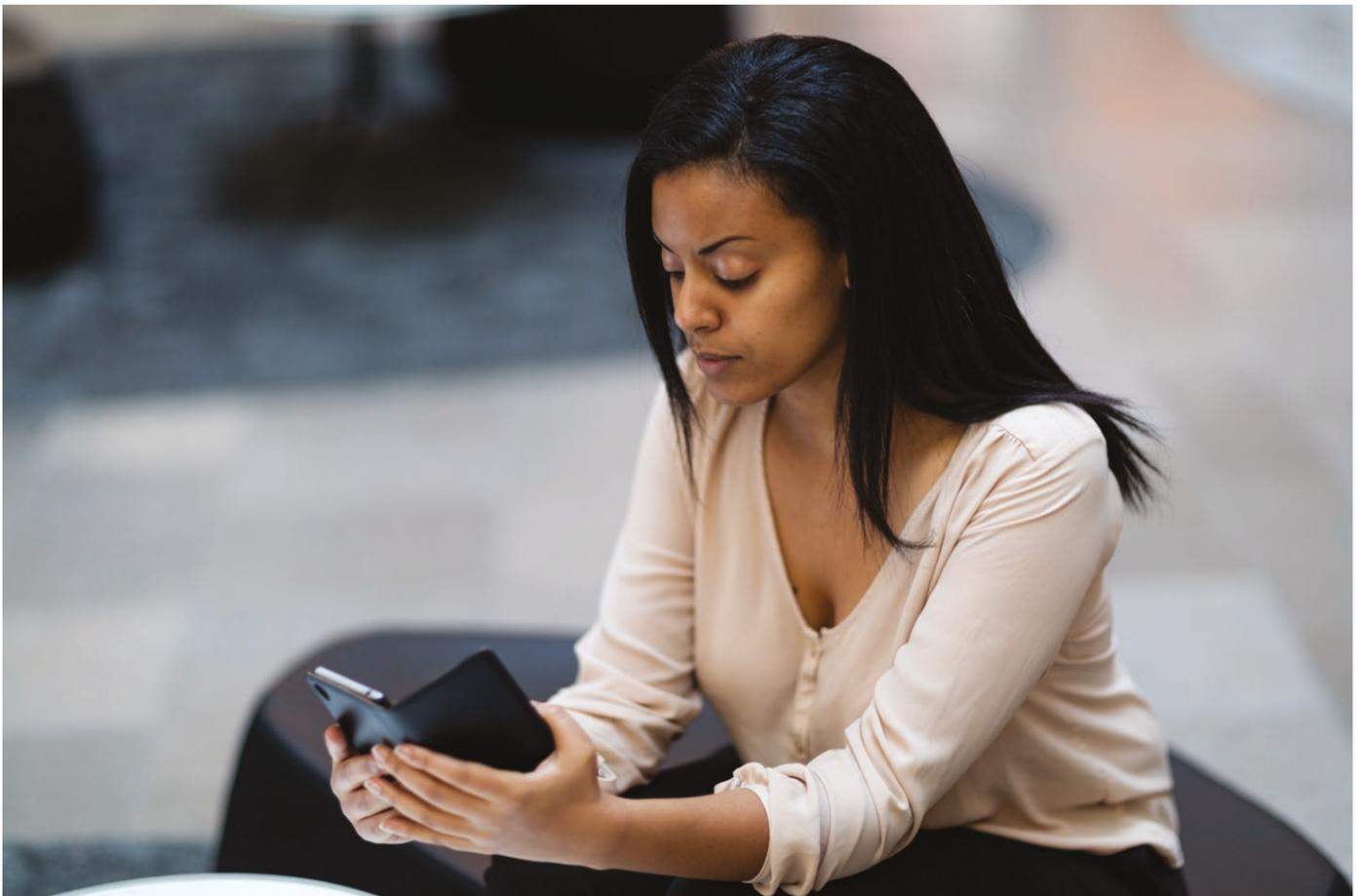
Working together with Ericsson, the team selected Jakarta Airport for the solution's initial rollout. Around 50 million passengers travel through the airport annually, equating to many roaming subscribers in a limited space, and high revenue opportunities.

The main setback was the existing distributed antenna system, which was designed based on 2G technology. This not only resulted in a poor performance

for 3G and LTE network users, but a high opex for XL Axiata as it was paying a high rental fee on the antenna ports.

Representing the first commercial deployment of its kind in Indonesia, XL Axiata and Ericsson installed 43 antenna points for the RDS system and 8 mRRU spots in the arrivals area, as well as 53 antenna points for the RDS system and 14 mRRU spots in departures. The complete solution connected to the same baseband.

Thomas Jul, Head of Ericsson Indonesia and Timor Leste, noted the significance of the Jakarta Airport test: "Consumers expect high-quality voice and data coverage regardless of location. By delivering seamless coverage in a wide range of in-building deployment scenarios, the Ericsson Radio Dot System can therefore be a key differentiator for XL Axiata in the competitive market of Indonesia," he says.





The first thing I do when I arrive at an airport is check my phone for new messages and inform family and friends I've arrived. To be able to connect is important for me, and the process here is seamless."

Lestari Astriani, business traveler
Jakarta Airport

First class results

Overall, data and voice traffic increased by up to 300 percent throughout the terminal, highlighting a great improvement in users' indoor connectivity experience.

The solution utilized 118 antenna points, as opposed to the 170 needed previously, reducing the overall rental cost to XL Axiata by 30 percent. This equates to a 23 percent reduction in annual opex, and a 12 percent reduction in total capex.

Lestari Astriani, a business traveler at Jakarta Airport, noted: "The first thing I do when I arrive at an airport is check my phone for new messages and inform family and friends I've arrived. To be able to connect is important for me, and the process here is seamless."

Proven to offer a better-quality data and voice experience for subscribers in indoor environments, small cell architectures like the Ericsson Radio Dot System are set to become increasingly prevalent as networks evolve towards commercial 5G availability.

OVERVIEW

CUSTOMER

XL Axiata, Indonesia

CHALLENGE

- > 40 percent of 3G traffic comes from in-building sites, but only 40 percent of consumers are happy with the overall indoor connectivity experience
- > Jakarta Airport has a lot of roaming subscribers using an antenna system designed for 2G technology, resulting in poor performance for 3G and LTE network users
- > The existing antenna ports installed at the airport have a high rental fee

SOLUTION

- > LTE and 3G/WCDMA indoor small cell
- > Fully integrated within the existing network
- > Project management, design, implementation and tuning services

RESULTS

- > 200–300 percent traffic increase
- > 30 percent reduction in antenna rental costs
- > Subscribers enjoy a better indoor connectivity experience

IMPROVING INDOOR CONNECTIVITY

The Ericsson Radio Dot System is redefining the concept of indoor small cells with the industry's most cost-effective and high-performance indoor radio system.

It addresses the broadest range of in-building environments, including offices, event venues and airports, with a common solution, enabling the provision of high-level mobile broadband coverage for different kinds of users and spaces.

The system has a clear operational benefit for the operator, but also for IT managers, building owners and managers responsible for multi-location businesses and campuses where buildings can greatly vary in size and user traffic.

Featuring an elegant product design and network architecture, the Ericsson Radio Dot System is easily deployed and fully integrates with the outdoor network.