Guest on Cloud

Mobility

Secure mobile-to-mobile authentication for subscription verification

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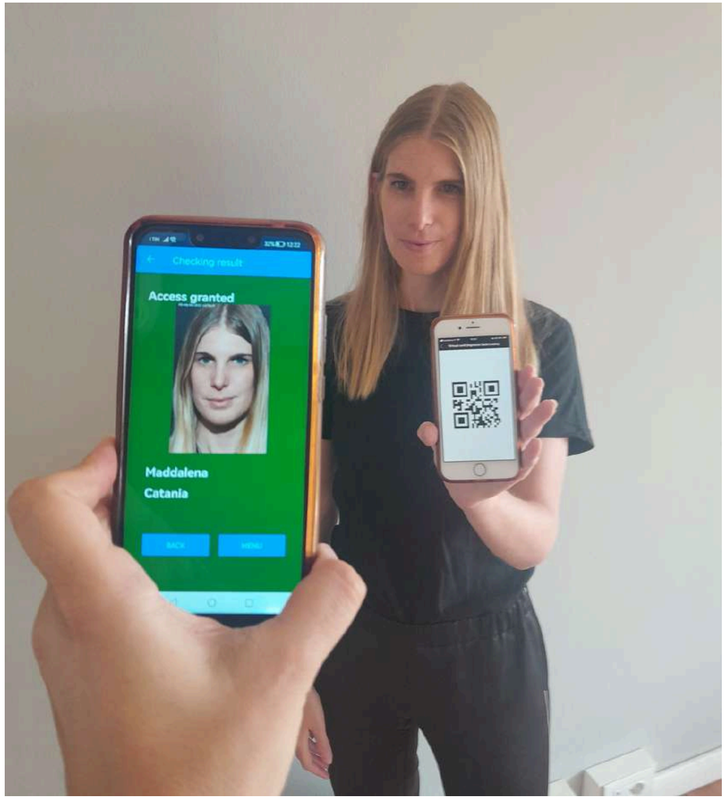
Predictive QR Code®

What is it and how does it work?



Patented* system that enables **secure mobile-to-mobile authentication** for verifying individual subscriptions.

It allows for the personal authentication of users, easily **integrating into the mobile apps of service providers** or using the **Guest on Cloud app** as a **wallet for digital cards** based on this technology.

It allows the user to **access a service** or authenticate during a check, identifying and authorizing them for the specific service.

When called from the wallet, it generates **infinite QR Codes that change every 500 milliseconds,** displayed on the smartphone screen.

(*) Patent Nr. 102021000030803 filed on 6/12/2021 granted on 26/3/2024

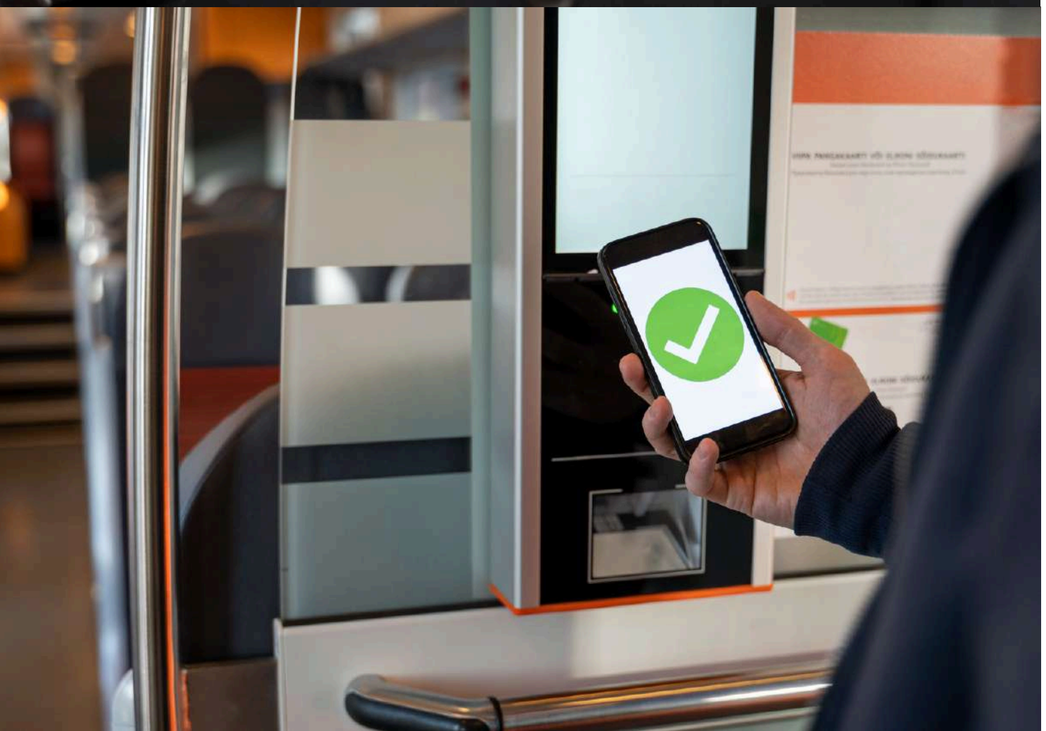
Advantages Predictive QR Code®

Advanced Security with Predictive QR Code: If copied, the Predictive QR Code cannot be used as its validity expires with each change. Additionally, it cannot be copied or transferred to another device as it is strictly tied to the user's smartphone.

Mobile-to-Mobile Authentication with Offline Functionality: The user can use the Predictive QR Code to access a service even when their smartphone has no internet connectivity, as the Predictive QR Code works offline.

Customizable Digital Wallet: The Guest on Cloud app not only manages subscriptions but also serves as a digital wallet for virtual cards from various services, centralizing and simplifying access to transportation, tolls, and other subscriptions.

Available for Android and iOS: This authentication technology, unlike NFC which is only applicable on Android devices (except in the banking sector), is also available on iOS.



Use Cases

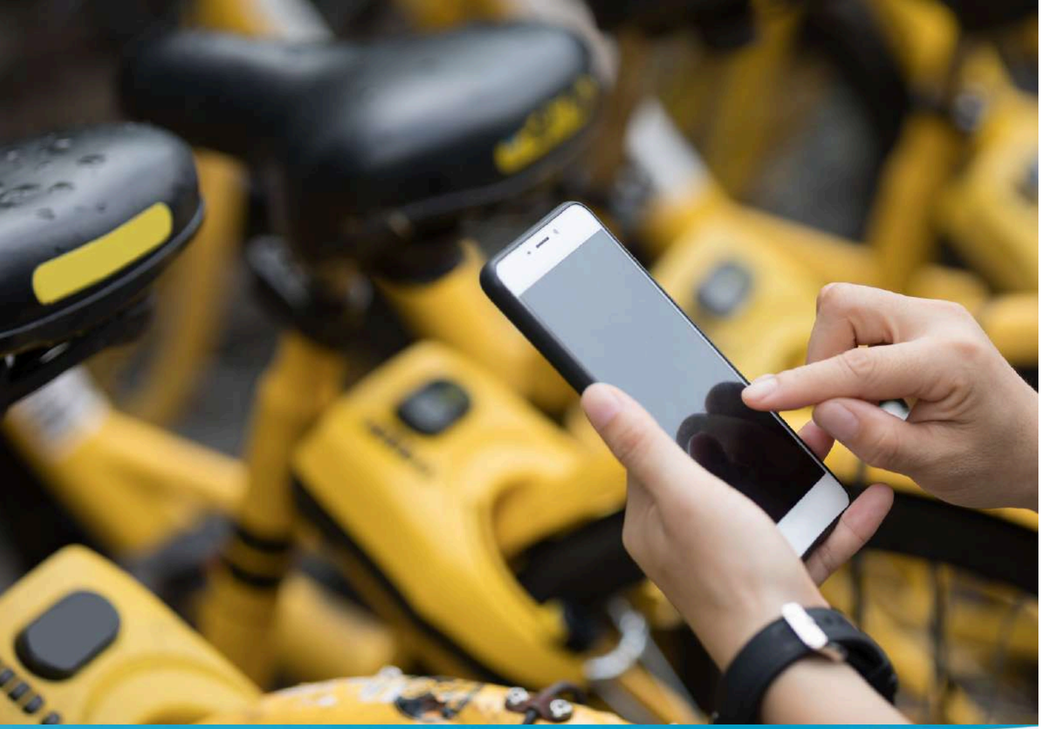
Public transport

Context: The verification of named subscriptions on commuter trains or surface vehicles, where there are no physical barriers for access, is entrusted to the conductor, who typically uses a smartphone.
Problem: The conductor can authenticate a user via smartphone but cannot ensure secure authentication. If a static QR Code is read, it can easily be copied. Additionally, the use of an NFC card is not compatible with iOS, as it is limited to payment applications.
Solution with the Predictive QR Code: The user receives a secure virtual card based on the Predictive QR Code from the service provider. This card can be read by the conductor via smartphone, allowing for immediate verification of the subscription's validity, even for users with iOS devices.

Use Cases

Access to Parkings for Truck Drivers

Truck drivers who wish to access urban or highway parking facilities can obtain subscription access credentials through the concessionaire's website.
Problem: Currently, the truck driver must physically go to the service provider to receive, for example, a UHF tag for vehicle identification. With the tag or license plate, only the vehicle is authenticated, but not the driver.
Solution with the Predictive QR Code: The user registers online and receives a PIN to activate the virtual card on their smartphone. After registering the vehicle's license plate, they also receive a Predictive QR Code for personal authentication.
In this way, without having to physically visit the service provider, the truck driver can access the parking lot using the registered license plate, make use of internal services, access restricted areas via the Predictive QR Code, and exit the parking lot, with the assurance of multi-factor authentication, simultaneously authenticating both the vehicle via the license plate and the driver via the Predictive QR Code.



Other use cases

Bike Sharing Services: Authentication and bike rental, allowing users to unlock and use the bike directly through the generated Predictive QR Code.

Toll Payment: Fast toll payment, enabling users to authenticate and pay directly via the QR Code, improving efficiency and security during transit.

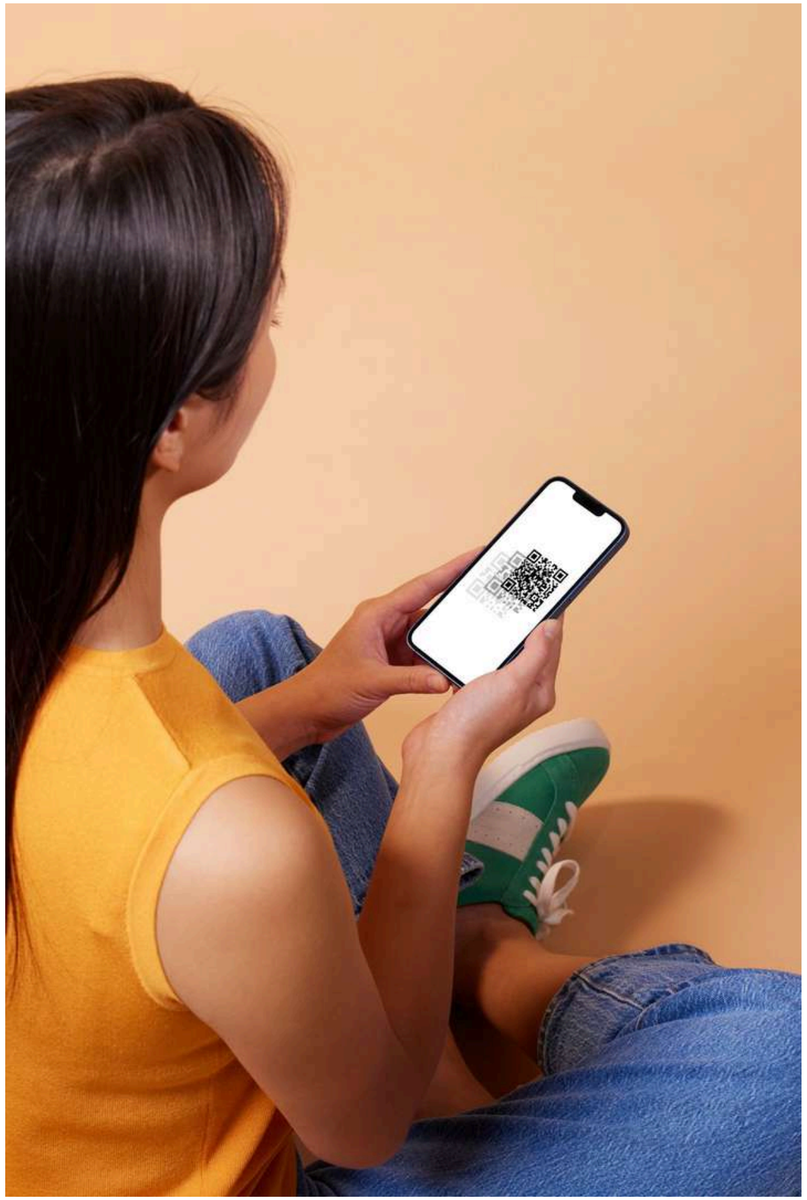
Smart Cities: Optimizing access management and the flow of people in smart cities.

Social Impact and Sustainability

Environmental Sustainability: Elimination of plastic and paper use, thanks to the digital management of subscriptions and payments.

Accessibility: Can offer dedicated features to provide special assistance to those in need, facilitating access to public and private services.

Data Security: Protects users' personal information through advanced encryption and geolocation.



Conclusions

The Predictive QR Code offers a **secure, efficient, and scalable solution** for managing subscriptions and access.

It is applicable in various sectors, including **public transport, smart cities, and trucker parking areas**.

It contributes to **sustainability** by reducing costs and improving operational efficiency, supporting smarter cities and **safer mobility**.

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