

Car-Sharing by Smartphone made possible with Digital Key from Car Connectivity Consortium.

The Car Connectivity Consortium® (CCC) Digital Key is a standardized ecosystem that enables mobile devices such as phones to store, authenticate, and share Digital Keys for vehicles in a secure and private way that works anywhere, even when the smartphone's battery is low.

Features

- Security and privacy equivalent to physical keys
- Interoperability and consistent user experience across mobile devices and vehicles
- Vehicle access, start, mobilization, key sharing and other use cases via Near Field Communication (NFC).
- Support for mobile devices in Battery Low Mode, where normal device operation is disabled. Even after the phone no longer turns on, you can still access the car.

Release 2.0

This second in a series of releases specifies standardized interfaces to ensure interoperability between solutions from different mobile device makers and OEMs.

Release 2.0 forms the basis of developing the future releases that will continue to expand the capability, ease of use, and convenience of mobile vehicle access.

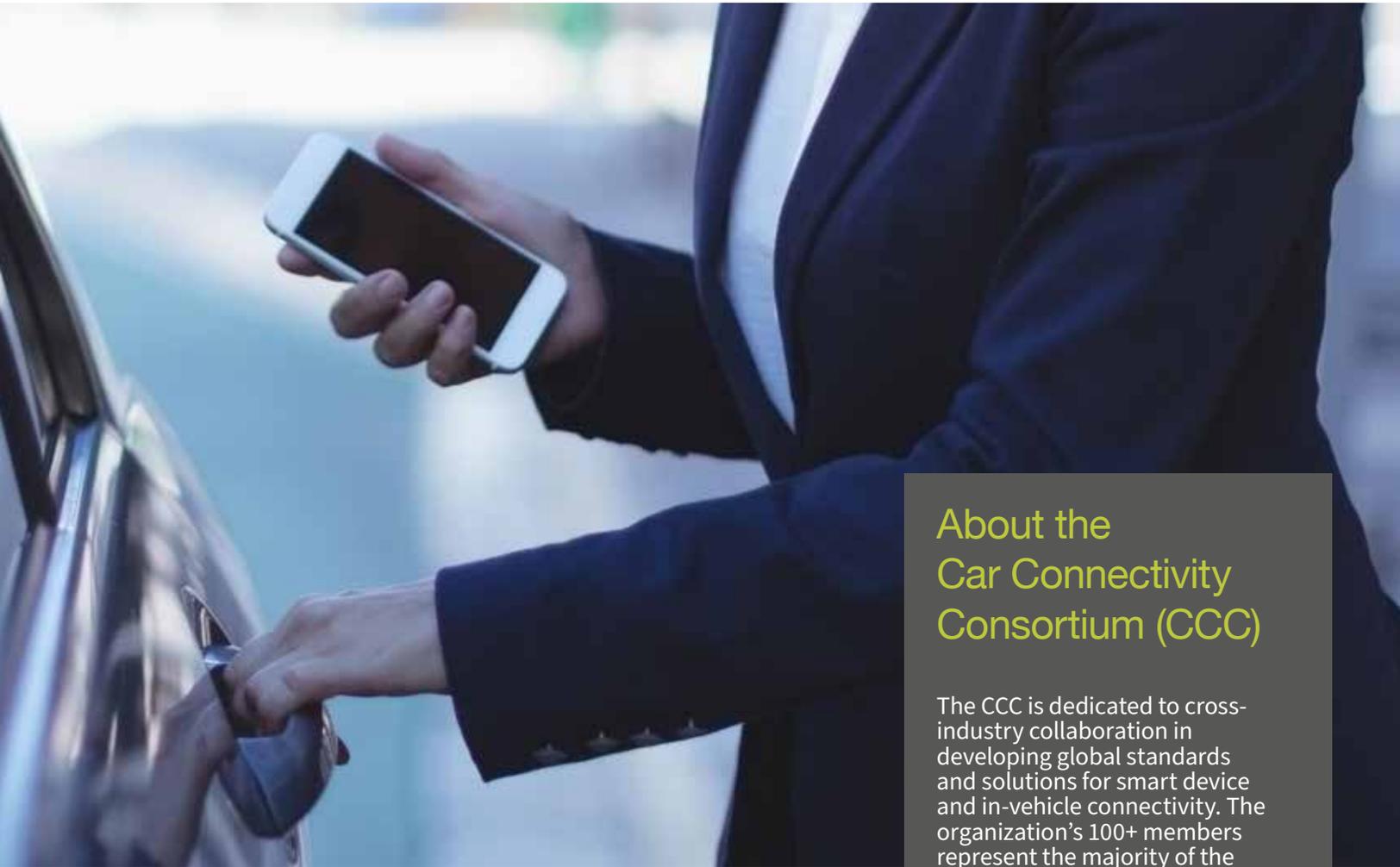
With Release 2.0, car keys are stored in a predefined, secure environment in the smartphone. The specification prioritizes security and privacy, especially as it provides access to assets as expensive and privacy-critical as mobile phones.

Security is ensured by using standardized public key infrastructure and storing the Digital Keys within Secure Elements for a high level of security.

This new CCC specification will securely converge drivers' mobile and automotive worlds, enhance their digital lifestyle by conveniently providing access across their mobile devices. It means no more worries about lost or misplaced keys. You will be able to share a Digital Key with friends or family via your smart device, and even specify the number of days it can be used.

Digital Key has the potential to support all the use cases that existing vehicle access systems support, including unlocking doors, starting engines, sharing or disabling additional keys or restricting the functionality of shared keys, for example, giving only vehicle access.





About the Car Connectivity Consortium (CCC)

The CCC is dedicated to cross-industry collaboration in developing global standards and solutions for smart device and in-vehicle connectivity. The organization's 100+ members represent the majority of the global auto and smart device markets and the top aftermarket consumer electronics vendors. For further information, visit www.carconnectivity.org



Owner Pairing

Any mobile device that complies with the Digital Key standard can be paired with a vehicle and become the owner's device (or key) for that vehicle.



Sharing

Digital Key improves the sharing experience by enabling you to share multiple Digital Keys with a variety of properties. No matter the location or physical distance, Digital Keys can be securely and conveniently shared, for example, by text message..



Vehicle Access /Engine Start

Digital Key may be used to access a vehicle, start the engine, mobilize the vehicle, or authorize any other operation by simply placing a mobile device near the vehicle's NFC reader.



Sharing Properties

Each Digital Key contains a number of entitlements encapsulated in standard access entitlement profiles. These entitlements allow each Digital Key to be customized for many different use cases. For example, you could allow only temporary access to the trunk or a particular compartment, or enable full driving capability.



Termination and Suspension

Unlike physical keys and key fobs, Digital Keys may be easily terminated or suspended by friend devices, owner devices, vehicles, and vehicle as well as device OEM Servers. You are able to terminate all Digital Keys associated with a stolen mobile device – or suspend them if your device is lost.