KEYTOP

Unlock the Benefits of Ticketless Parking Management System

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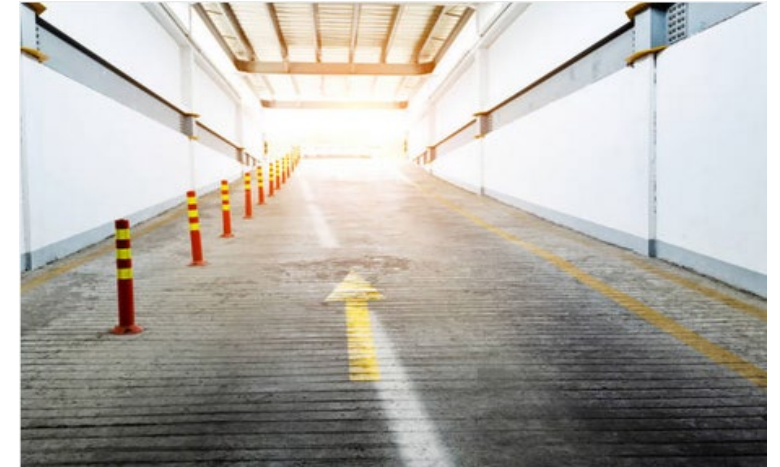
Content

- Challenges of Traditional Ticket-based Parking Management Systems
- ANPR Ticketless PMS
- ANPR PMS Advantage
- KEYTOP ANPR Unique advantages

Challenges of Traditional Ticket-based Parking Management Systems

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Manual Processes

- Take or validate a paper tickets
- Security risk, especially in parking lots with entrances or exits located on slopes

Limited Capacity

- Inability to handle large number of vehicles
- Congestion and long wait times during peak hours

High Costs

- Expensive installation, maintenance, and operation
- Especially for smaller parking facilities

Limited User Experience

- Non-user-friendly experience
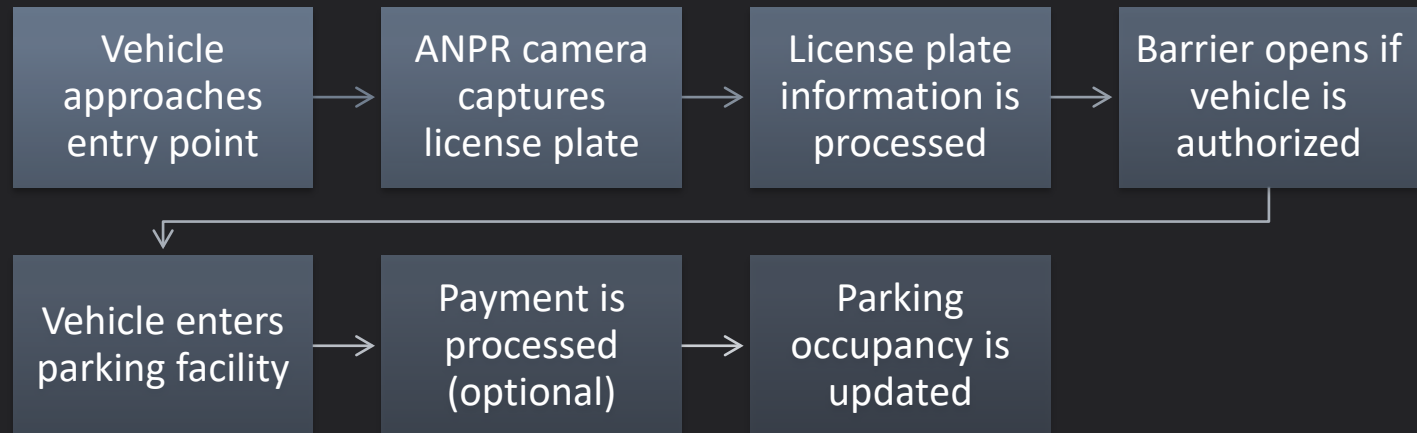- Use of cash-based payment systems

PART 01

ANPR
Ticketless PMS

- What is ANPR ticketless PMS
- Working flow

What is ANPR PMS

- ANPR stands for Automatic Number Plate Recognition.
- ANPR PMS uses cameras equipped with ANPR technology to capture license plate numbers of vehicles entering and exiting the parking facility.
- ANPR PMS eliminates the need for physical tickets, reducing printing and maintenance costs.
- ANPR technology allows for a more efficient and faster entry and exit process, as vehicles can enter and exit without stopping at a ticket dispenser.
- ANPR PMS provides accurate and reliable tracking of vehicles, making it easier to identify parking violations and manage occupancy levels.
- ANPR PMS can integrate with other parking management systems such as payment and security systems, improving overall efficiency and security.
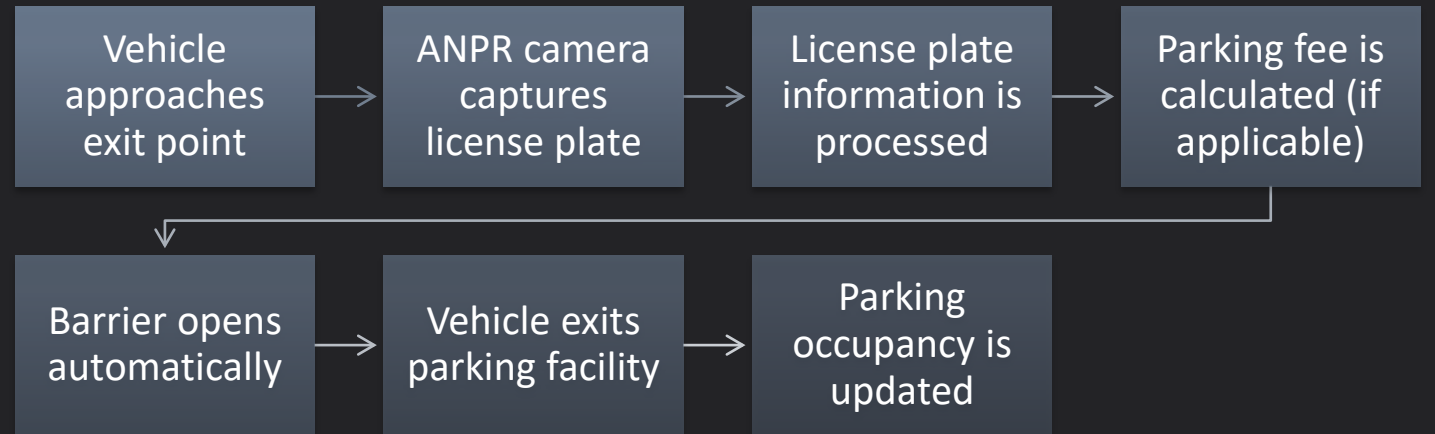
Entry Working flow

| Vehicle approaches entry point | → | ANPR camera captures license plate | → | License plate information is processed | → | Barrier opens if vehicle is authorized |

| Vehicle enters parking facility | → | Payment is processed (optional) | → | Parking occupancy is updated |

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Exit Working flow

Vehicle approaches exit point	→	ANPR camera captures license plate	→	License plate information is processed	→	Parking fee is calculated (if applicable)

Barrier opens automatically	→	Vehicle exits parking facility	→	Parking occupancy is updated

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PART 02
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ANPR PMS
Advantage

- Fast entry & exit
- Diverse parking payments way
- Parking space reservation
- Cost savings and increased revenue
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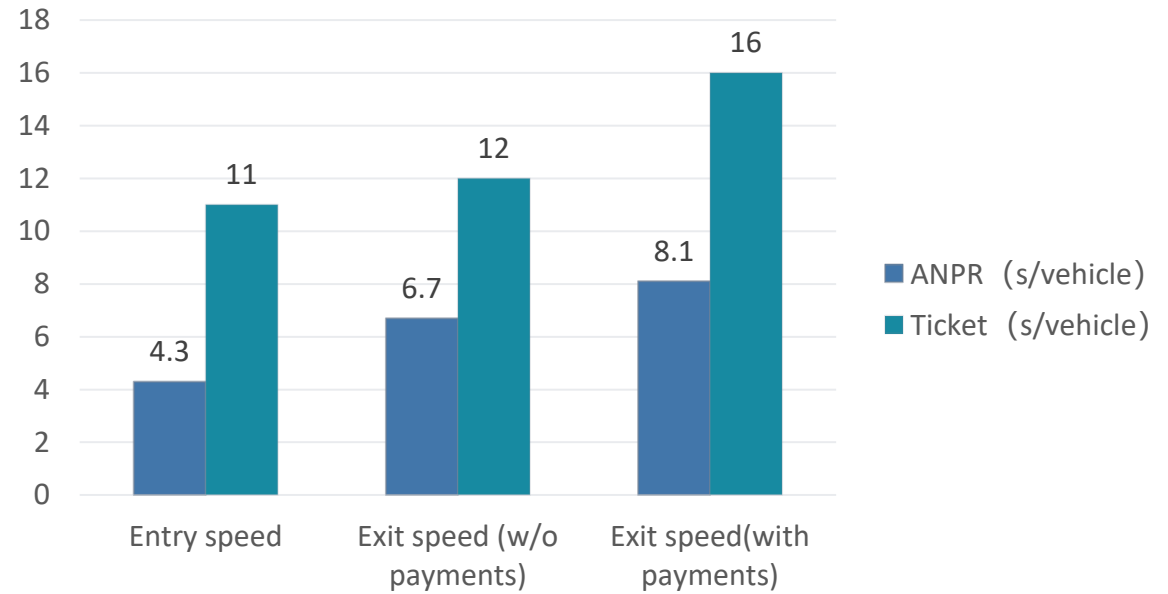- More environmentally friendly

Fast entry and exit

Entry speed: increased by 155%

Exit speed: increased by 98%

The system eliminates the need for drivers to stop and take / validate a ticket, reducing the time it takes to enter and exit the parking lot. This results in a better user experience and can reduce congestion during busy times.

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Diverse parking payments way

In addition to the traditional method of parking payments , license plate recognition technology enables the parking lot to enter the era of mobile payments.

Driver can use their mobile phones to scan the parking lot's QR code or open a mobile payment app, enter their license plate number, and prepay for parking to reduce the time spent queuing to pay for parking.
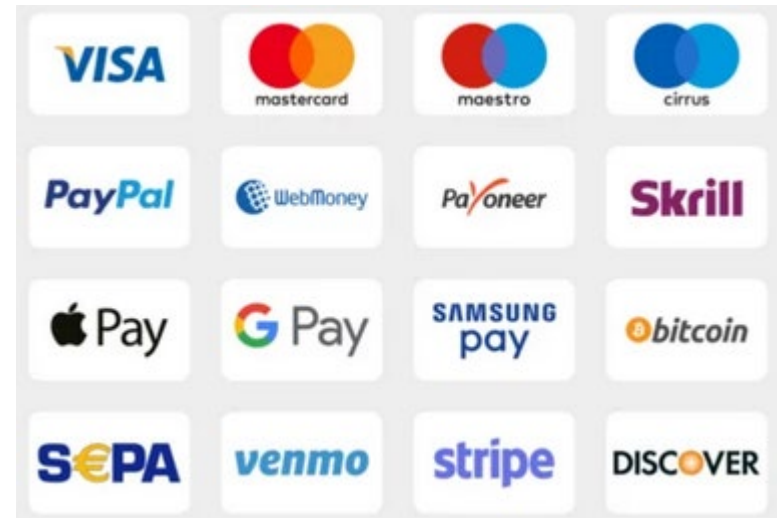
Support integrated with all main E payments way

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Cost savings and increased revenue

•ANPR PMS eliminates the need for physical parking hardware, such as ticket dispensers and checkers, reducing the initial investment cost.

•With ANPR PMS, there is no need to purchase and distribute paper tickets or Bluetooth cards, which can save costs in the long run.

•ANPR PMS requires less installation and maintenance compared to traditional parking systems.

•The use of ANPR technology can also improve parking efficiency, leading to increased revenue from more cars being able to park in the same space.

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Reduction in parking lot staff

- 24/7 fully automated parking system reduces the need for human staff at the parking lot

- Automated system handles tasks that would have been done by human staff, such as ticket checking, fee collection, and parking management

- Reduction in the need for human staff reduces the cost of labor for parking lot operators

- Automated systems can make parking lot operations more efficient

- Staff can be allocated to more critical areas such as customer service and security

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More environmentally friendly

- ANPR systems can help reduce paper waste in parking lots, making them more environmentally friendly.

- The use of ANPR systems can also help minimize the time vehicles spend idling, reducing the amount of emissions generated by cars.

- Improved air quality resulting from reduced emissions can benefit the health of individuals and communities surrounding the parking lot.

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Parking space reservation

- Reserve a parking space through plate No.
- Navigate to the reserved parking space
- Alert when the parking space is occupied
- Automatic payment of parking fees
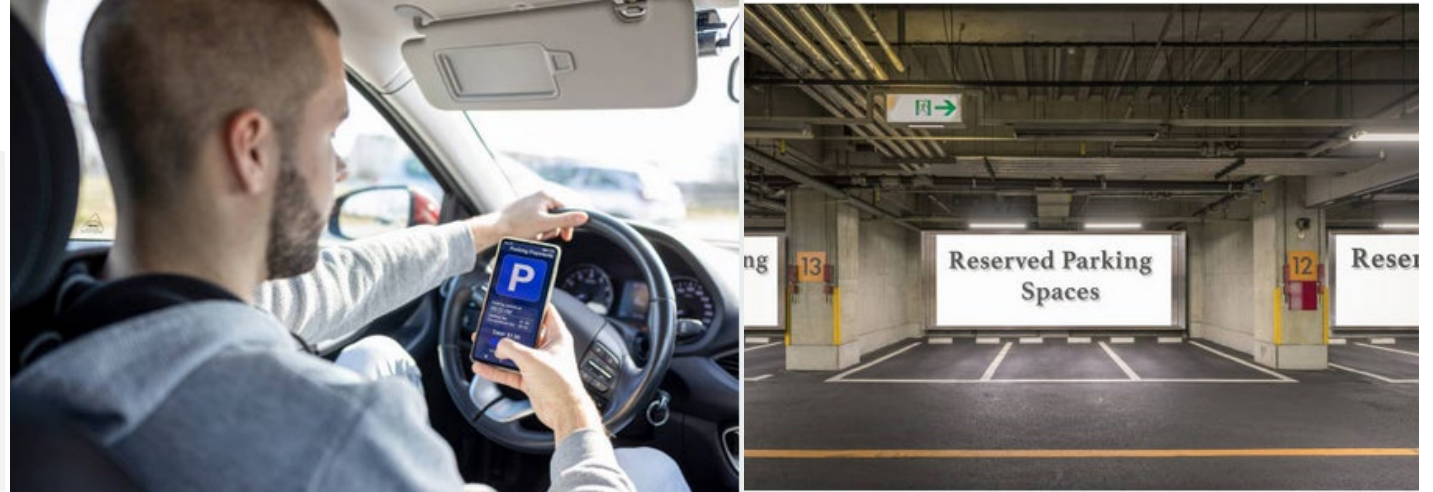
Parking space search

- Search for nearby parking lots and available parking spaces information.

Reserve space

- Enter reservation time and license plate number to reserve a parking space, then use a third-party map app to navigate to the reserved parking spot with just one click.

Notification

- The reserved parking space can be monitored through the software to detect its usage status. If the space is occupied, the software can push a notification to the person who made the reservation.

Diverse payments way

- Support payments by cash, mobile etc

PART 03

KEYTOP ANPR
Unique advantages

- AI training center
- Unmanned parking management
- Mobile App for parking lots management
- Centralized management platform
- Customizable software and hardware

AI Training Center:

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Let every parking 's traffic flow smoothly and quickly

Plate No.   **Car Model**   **Car Color**   **Traffic flow**

- Abnormal traffic conditions in the parking lot are detected by the AI training center.

- Info about the vehicles involved, including license plate numbers and vehicle types etc, is automatically collected.

- The collected information is sent back to the AI training center for optimization of the license plate recognition algorithm.

- The optimized algorithm is automatically updated in the parking lot system.。

Unmanned parking management

Unmanned parking management system

- Ability to detect abnormalities in parking lot passages

- Remote customer service available through intercom

- Remote customer service can assist with various tasks, such as opening gates and correcting license plates

- Guidance provided to parker regarding payment of fees

- Actions taken based on situation at the scene.

Parking made simple with our unmanned assistance

Parking 1   Parking 2   Parking 3   ......   Parking 20

Unmanned parking management center
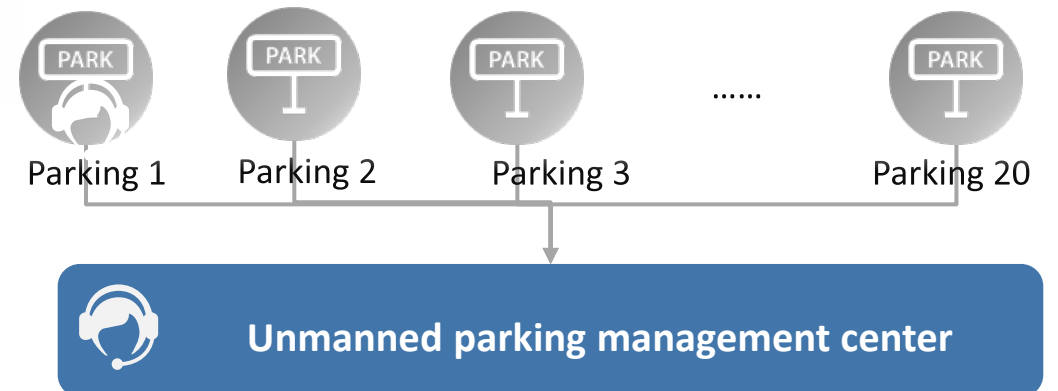
Manage parking lots anytime and anywhere.

- Parking lot management not limited by geographical location

- Ability to manage parking lots anytime and anywhere

- **Mobile app** provides mobile management of entire parking lot management process

- Real-time push of visualized reports on both mobile and PC platforms.

Business insight

- Daily and monthly reports
- Traffic flow analysis
- Income analysis

Financial Hub:

- Payment records tracking
- Refund management
- Invoice management

Remote Management:

- Maintenance and inspection management
- Remote task management

Vehicle Tracking:

- Entry/Exit record
- Season parking car management
- Remote gate opening

Visitor management

- Authorized visitor management
- Visitor car release
- ....

E-coupon

- Scan to issue E-coupon
- Batch coupon issuance
- Coupon statistic

Centralized management platform

Centralized management

Parking operator who have multiple parking can easily manage all their parking in one platform.

Healthy rate

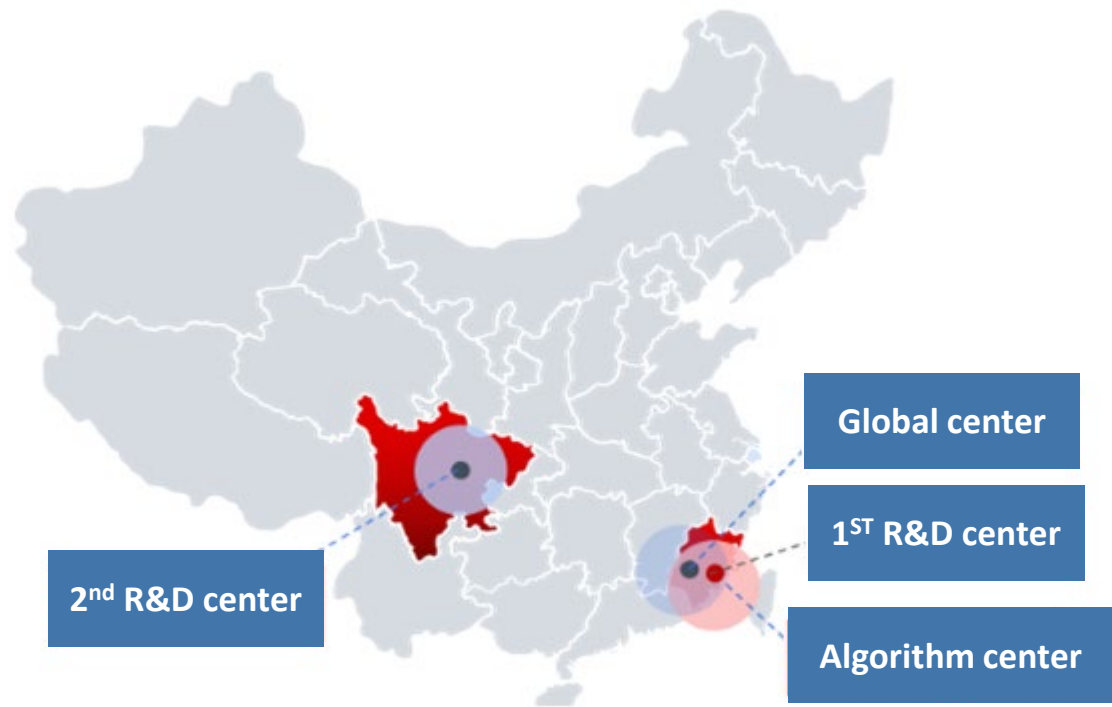Real time monitoring of operation status for each parking,

Monthly Report

Comprehensive, rich, standardized monthly parking operation reports are available in real time.

Customizable software and hardware

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Support customization

Global center

1ST R&D center

2nd R&D center

Algorithm center

Professional R&D team

Hardware+Software+Apps+Algorithm

Powerful customize capabilities

Years of customization experience in multiple industries

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Cross region replication

Sync Replication

Cloud server A

Cloud server B

Disaster Recovery Center

Cloud region 1

Cloud region 2

active

active

spare

Production

On-Cloud 2 Site 3 Disaster Recovery
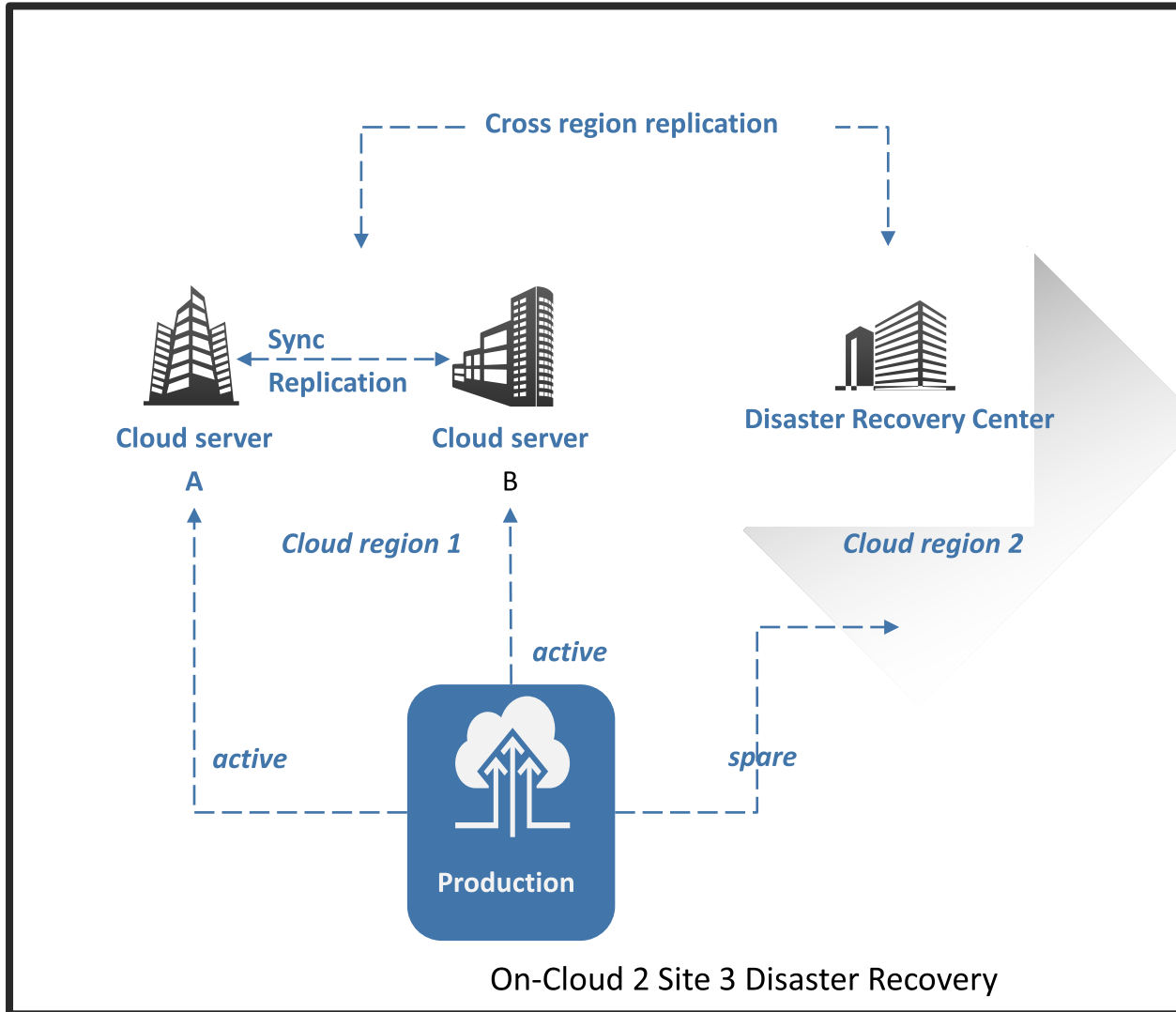
More safe

- Cloud storage and cluster backup are used to ensure data integrity.
- Cooperate with first class cloud supplier .
- Can enjoy the double security of parking data storage and communication without additional investment.

More stable

- The parking is completely free from the physical server virus infection , Server failures no longer affect parking operations.
- Choose an advanced and reliable disaster recovery mechanism to minimize disaster impact on business operation.

Continuous operation

- Data integrity and business continuity can still be warranty under exception such as hardware replacement, power outages and network interruptions etc.
- After business switching under abnormal conditions, it can ensure that core business and data are protected in a timely manner and ensure high system availability.
- Ensure that core business and data are protected timely under abnormal conditions to ensure high system availability.

Thank you !
Looking for cooperation !