IOWN INTEGRAL

NTT R&D FORUM 2024

BUSINESS

β01-07

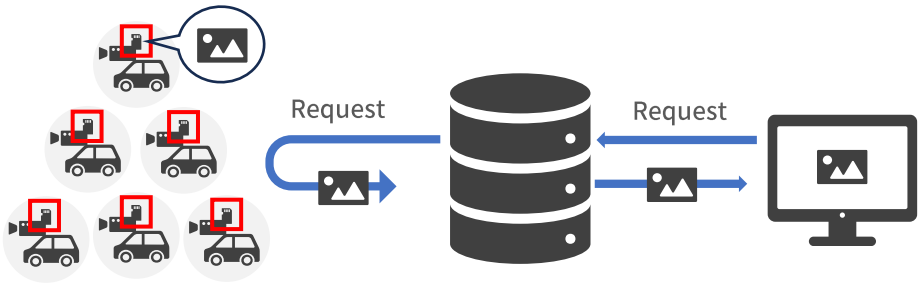
Distributed & selective video storage technology

Cost-effective and scalable massive video data handling

#Productivity Improvement

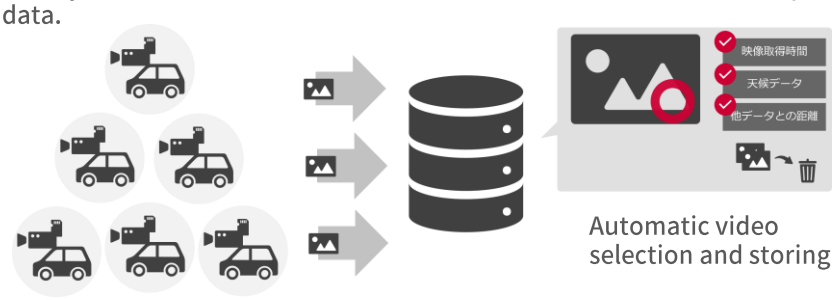
特許技術① 分散データ保存
Distributed Data Storage Technology(Patented)

映像データを各端末内に分散保存し、必要時に呼び出します。
The server manages the location of the video data stored in each recording device and retrieves the required video on demand.



特許技術② 最良映像の選別保存
Selective Video Storage Technology(Patented)

定期的に最適なデータを選別し、サーバ上に保存します。
Periodically select the best data from devices and store it on the server to preserve past data.



///Technical Issue

Collecting and handling large amounts of video data in the cloud inevitably brings economic challenges related to data transfer and increased storage capacity.

///Research Goal

Enables low-cost management of video data to power a city-wide real-time street view platform using thousands of IoT devices like vehicle's dashcams.

---Technology

Devices periodically registers information about the video it contains with the server, which uses this information to select and retrieve only the necessary media data. This technology minimizes the storage load on the server while handling a large amount of video data.

---Novelty

Since the video data is not uploaded and only the video location information is managed, cost efficiency is approximately 100 times greater than with the conventional method of storing all data in the cloud.

---Applicable Business

Applied to NTT Communications' large-scale urban video platform "Mobiscan®", which can be used for infrastructure maintenance and security operations. (July 2024)

Exhibitors＝NTT Communications Corporation　Related URL＝ NTT Communications News Relase"Launched Mobiscan®, a platform for big data from urban video" (2024)
Contact URL