

Orchestrating a brighter world

NEC



NEC Smart City Solutions

Cloud City Operations Center

Why do Cities Need to be Smart?

Plan, manage and govern cities in a sustainable way, by maximizing economic opportunities and minimizing environmental damage today is a challenge.

The Transformation of Cities

Most public authorities are taking advantage of ICT technologies with the aim of reducing costs and improving public services.

Smart technologies in particular can help address some of the challenges of mass urban development by contributing to optimising the use of resources and improving services through better management of supply and demand. Considerable effort has been made to turn our cities into smart cities, but much of this focuses on connecting cities by installing a large number of sensors, cameras and other devices.

What do Cities Really Need?

Today, all Smart City solutions are focused on resolving a specific issue such as traffic congestion, accessibility or healthcare, and hence implement related vertical solutions.

However, what the city really needs is a solution engineered towards managing a large number of evolving smart services whilst enhancing its inhabitants quality of life.

Accordingly, a good Smart City solution has to be part of a more integrated approach, able to process and analyse vertical data provided by various solutions and, subsequently, carry out cross analyses to simplify operators workload.

Keep the City Connected

Making cities connected for collecting data is just the first step towards smart cities.

Turn big data into valuable insights.

Building up a flexible and efficient big data platform between data sources and applications is the key to achieving the next step towards smart cities.

Create better services for the citizens

The population of the city is a vital ingredient for transformation success. Citizens are critical to making city strategy deliver a fruitful impact.

NEC Smart City Solution

Cloud City Operations Center (CCOC)

Cloud City Operations Center allows cities to truly manage, interpret and automate responses to the data collected across the city.

NEC's Cloud City Operations Center (CCOC) is a truly integrated solution, designed to meet Smart City requirements in a flexible, efficient and economical way.

CCOC acts as the brain of the city, first receiving and monitoring the information received from the vertical services and their operating sensors, cameras and devices, and afterwards carrying out cross analyses of the data from vertical services, thus-

providing a holistic approach and providing added value by deploying prediction and simulation tools, among other features.



A transformation tool for the city

Product Highlights

Dashboard for end users

It is based on widgets that can be configured to display a customisable subset of data in a variety of ways. It also includes the feature of generating alarms.

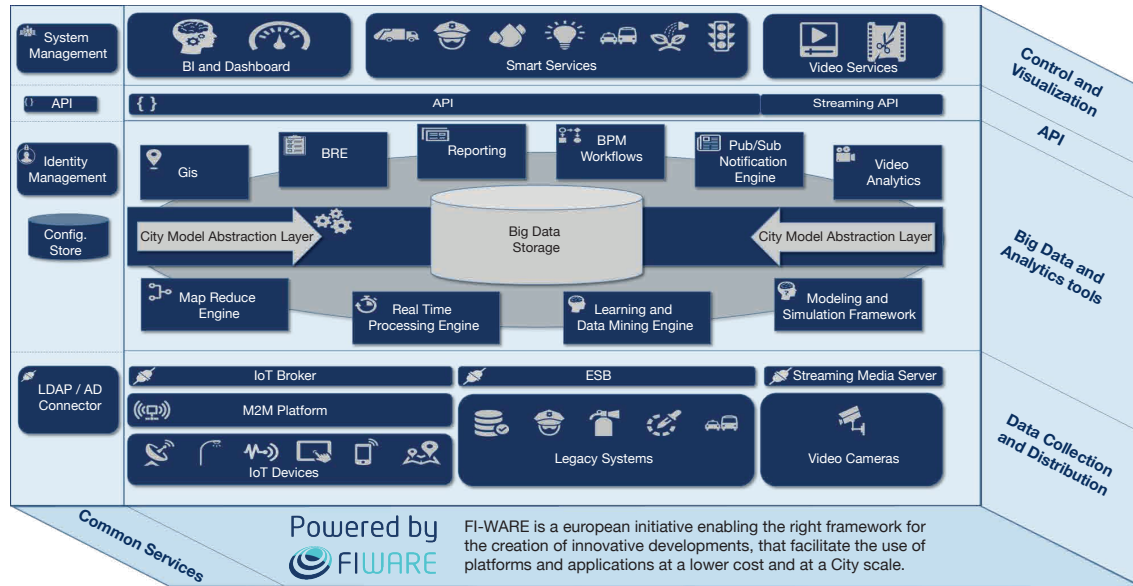
Business Intelligence Reports

Obtain reports for the purposes of city analytics and export it in multiple formats (HTML, PDF, Excel, etc.).

Big Data Storage

This handles and processes large amounts of data from IoT devices, condensing them into useful aggregated results. Real-time analyses and historical data filed.

CCOC Architecture



Reasons to choose Cloud City Operations Center

Manage & monitor city resources

CCOC dashboard enables KPIs (Key Performance Indicators) to be quickly cross-referenced and visualised. See various KPIs and city trends using intuitive charts, graph and maps.

Reduce the work load

Automating the analysis of public indicators, conclusions can be drawn easily and city planners can focus on taking decisions for public welfare. Therefore, public spending is reduced by improving the efficiency of processes and resources.

Events prediction

The analysis of historical behaviour allows future predictions and foresight to be established on the basis of a wide range of environmental parameters: temperature, pollen count, noise, carbon monoxide and ambient light levels.

Better services to citizens

Increase the information available and additional services for citizens and businesses. CCOC offers an open ecosystem for the creation of applications and services for citizens, thus covering all technical and commercial aspects.



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