CymbIoT
Making IoT Smarter

Immediate Urban ROI

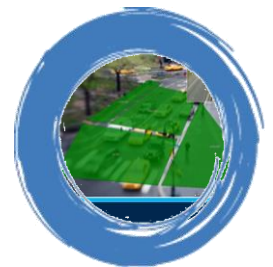# CymbIoT
Immediate ROI from IoT

CymbIoT offers urban centers an out-of-the-box, off-the-shelf integration & management solution allowing administrators to rapidly create a Safe Smart City that provides financial and operational returns from the moment of installation.

From reduced electricity bills due to targeted usage, through fuel efficiency based on smart route planning, to minimal water waste following immediate shutdown of leaking or damaged pipes – the integrated operational management delivered by CymbIoT offers tangible and measurable returns.

Easy to deploy, integration-ready, flexible, and scalable, CymbIoT C&C delivers management tools to operators and executives of all levels, allowing users from different verticals to plan and implement automatic procedures that increase efficiency, reduce expenses, and create an efficient, responsive Smart City.

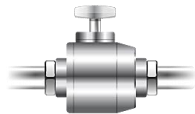# FINANCIAL & OPERATIONAL RETURN WITH CYMBIOT

Smart Lighting

Connecting street and building lights to cameras and presence sensors to switch on/off/dim only when occupied or in response to emergency triggers from cameras/panic buttons/audio sensors

- **25%-30% reduction in electricity bills**
- **Improved sense of security**
- **Immediate response to emergency events**

Smart Water

Connecting water lines to smart meters and automatic switches to detect piracy & leaks and automatically shut down/reroute.

- **10%-20% reduction in water waste**
- **Prevention of water piracy**
- **Accessibility of usage information to residents**

Smart Power

Connecting power lines to smart meters and automatic switches to detect piracy & surges and automatically shut down/reroute.

- **80%-100% reduction in black/brownouts**
- **Improved safety in event of downed lines**
- **Prevention of power piracy**

Smart Traffic

Connecting cameras with analytics to streetlights and smart signs to detect accidents and congestion, alert responders and reroute traffic.

- **10%-15% reduction in fuel consumption**
- **Reduced congestion & air pollution**
- **5%-10% faster First Responder arrival to accidents**

FINANCIAL & OPERATIONAL RETURN WITH CYMBIOT

Smart Waste

Bin sensors and collection truck GPS trigger collection only when bins are full and plan efficient collection routes.

- **30% reduction in fuel expense**
- **10%-15% reduction in truck-generated pollution**
- **Prevention of health hazards**

Smart Parking

Connection of cameras, parking sensors, and resident apps directing drivers directly to free parking spaces.

- **10%-15% reduction in fuel expense**
- **Reduction in car-generated pollution**
- **Improved traffic flow, less congestion**

Pollution Monitoring

Environmental sensors connected to public Smart Signs, health services systems, and resident smart apps.

- **Reduced resident sick days**
- **Better preparation of health systems**
- **Accurate pollution trend tracking**

Smart Irrigation

Connecting irrigation systems to humidity, temperature, and soils sensors to deliver effective irrigation and reduce water waste.

- **30% reduction in irrigation cost**
- **Improved quality of city green lungs**
- **15%-20% reduction in water loss**

ADDITIONAL BENEFITS

Using the CymbIoT C&C platform municipal authorities and providers can utilize a range of additional capabilities, increasing effectivity of municipal services and reducing expense for residents and city authorities. Additional benefits can range from preventive maintenance based on sensor information, through enhanced security, to improved response times for emergency teams.

Examples of additional CymbIoT C&C benefits include:

Security

Integration of cameras/motion sensors/audio sensors with alarms and Security personnel.

Preventive Maintenance

Integration of infrastructure sensors with city maintenance services for repair before accidents & malfunctions occur.

Visual Analytics

server-side analytics for existing cameras, adding capabilities such as crowd counting, motion sensing, speed sensing, etc.

Emergency Response

Integrating sensor input with automatic procedures to respond to preset emergency triggers, alert First Responders, etc..
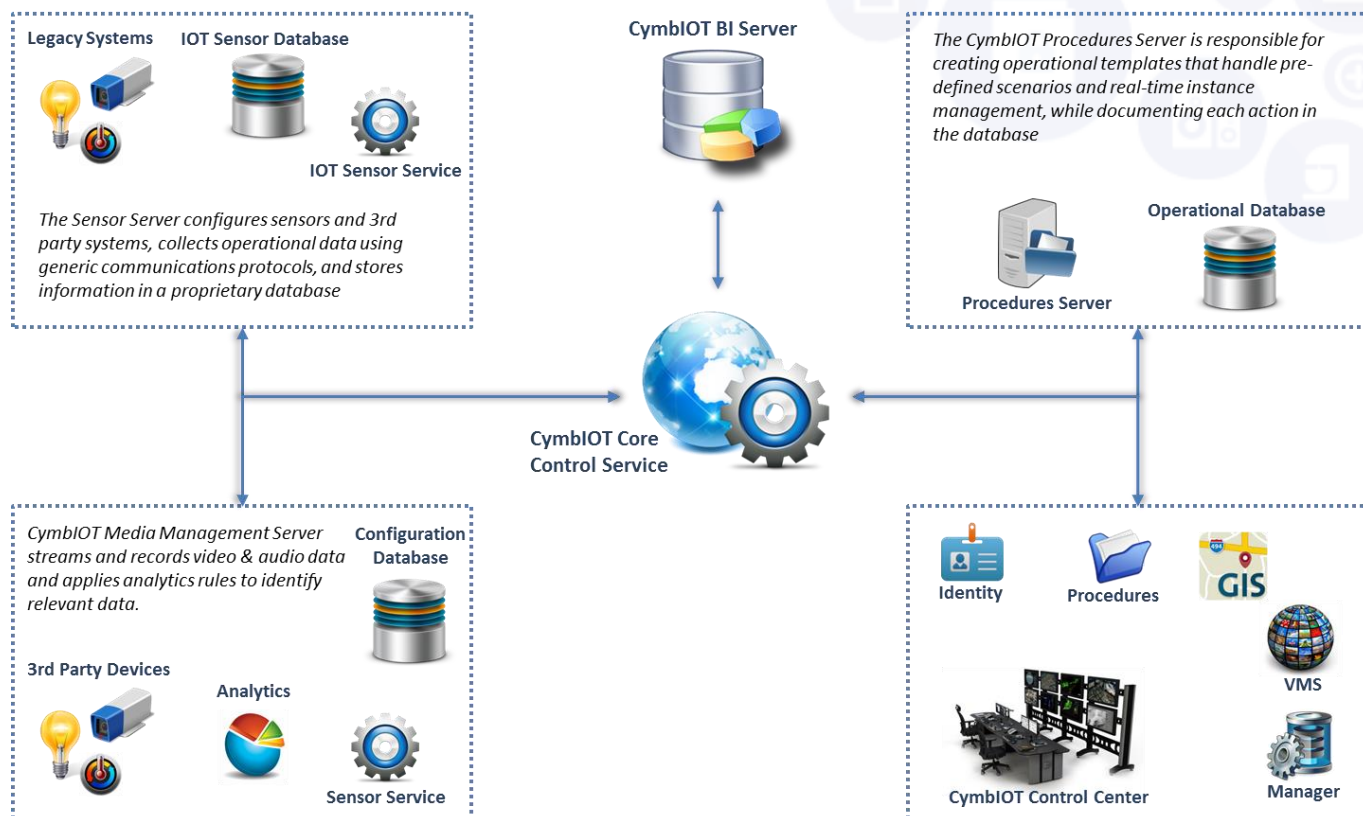
Dashboards

Data and operational input fusion in an executive Dashboard interface for one-sight functional overview.

CymbIoT C&C ARCHITECTURE
ON-PREM, HYBRID, OR CLOUD

Legacy Systems **IOT Sensor Database**

CymbIOT BI Server

The CymbIOT Procedures Server is responsible for creating operational templates that handle pre-defined scenarios and real-time instance management, while documenting each action in the database

IOT Sensor Service

Operational Database

The Sensor Server configures sensors and 3rd party systems, collects operational data using generic communications protocols, and stores information in a proprietary database

Procedures Server

CymbIOT Core Control Service

CymbIOT Media Management Server streams and records video & audio data and applies analytics rules to identify relevant data.

Configuration Database

Identity **Procedures** **GIS**

3rd Party Devices

Analytics

VMS

Sensor Service

CymbIOT Control Center **Manager**

BI Module
Enables smart integration and trigger interaction between different systems.

VMS Module
Connects of thousands of cameras, mikes, and radars, with internal video & audio analytics.

Smart ID Module
Manages multiple hotlists and supports ID-based event recognition & analysis.

IoT Sensor Server
Integrates any type of sensor or system, with access per process/user/device.

GIS Module
Integrates GPS and sensor data for analysis of information & alerts via map/image interface.

Reports Module
Real-time & forensic report engine, including data analysis, graphs, location and video .

Procedures Module
Supporting multiple stakeholders, cross-organization procedures, triggers, and responses.

Disaster Recovery
In the event of server failure, a backup server takes over without data or operational loss.

CymbIoT's mission is to design, implement and deliver advanced Internet of Things (IoT), Video Management Solution (VMS), and Command & Control (C&C) platforms. We empower end users to configure and manage integrated networks of all types and scales - from Smart and Safe Cities, through Transportation Hub security, to Smart Buildings and Enterprise management.

With millions of sensors across numerous verticals using our products to deliver actionable intelligence and real-time response capabilities to customers worldwide - we have the experience, know-how and technology to deliver real world solutions that work.

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