



# Connectivity Control & Device Management

# unlimit

A RELIANCE GROUP COMPANY



INTERNET OF THINGS



ANALYTICS



BIG DATA



ARTIFICIAL INTELLIGENCE

- ✓ Commenced in 2016
- ✓ Dedicated 100+ man years of experience in IoT Business
- ✓ IoT centric organization targeting
  - Automotive Industry,
  - Industry 4.0 and
  - Transport & Logistics Industry
- ✓ First comprehensive IoT offering from managed connectivity to application platform to data insights

## About Us

**WINS**

Best results with reduced delivery time

**VALUE CREATION**

Growth potential to enlarge your business

**CORE STRATEGY**

End to End IoT Solution Provider

**INDUSTRY EXPERTS**

Industry Experts for the best advice

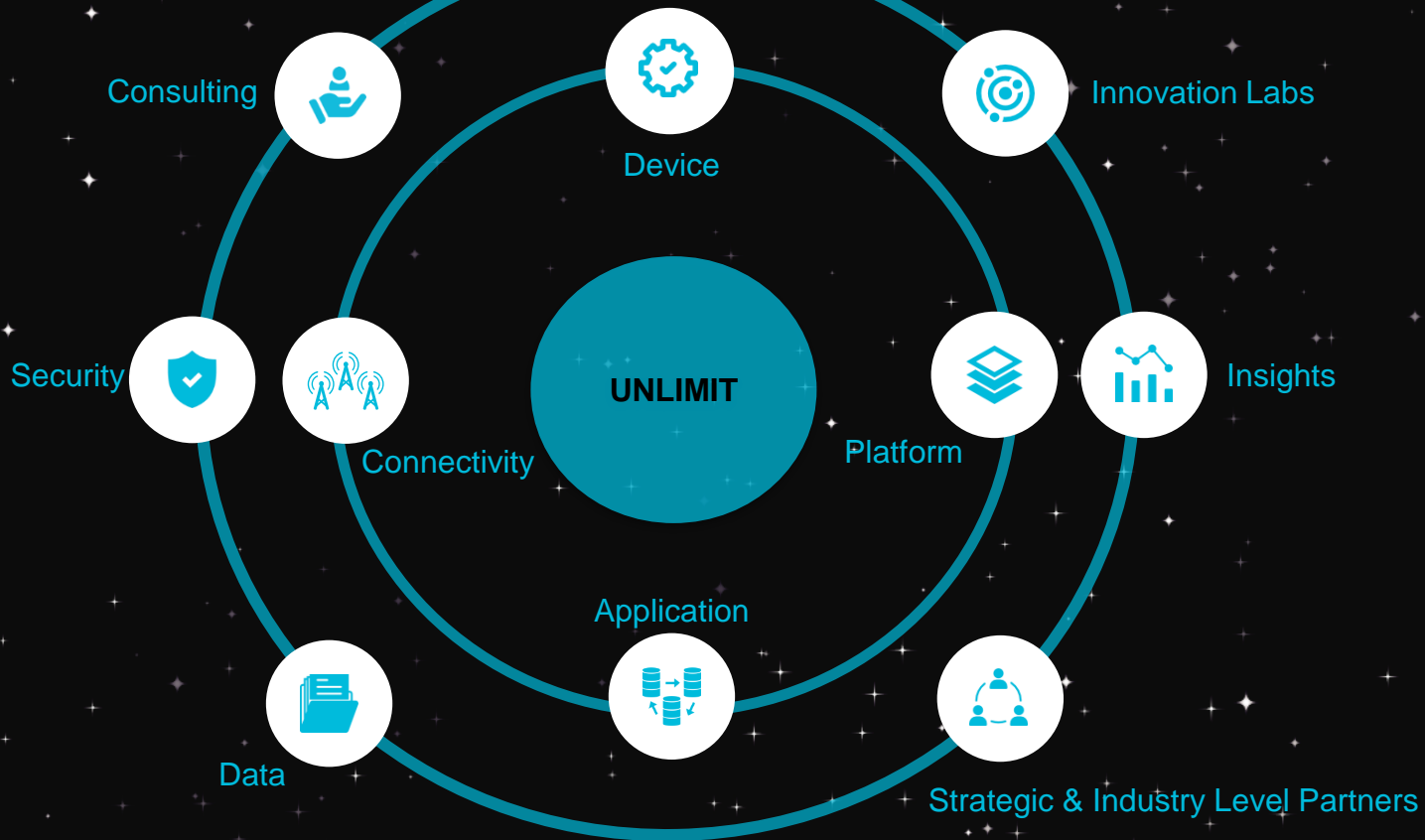
**LEADERSHIP**

Brightest & Best minds on your side

## **Our Value Proposition**

One stop IoT  
Consulting and  
Solution provider  
with -

- Best in class platform
- Robust application development
- Managed connectivity

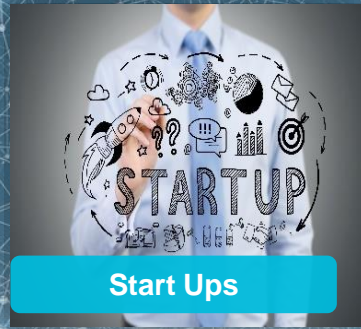


## Unlimit's IoT Ecosystem





Interthrone



Start Ups



Associations



Hackathon



University Connect

# Innovations



**THOMAS SCHRAMM**  
VICE PRESIDENT  
Technology & Services



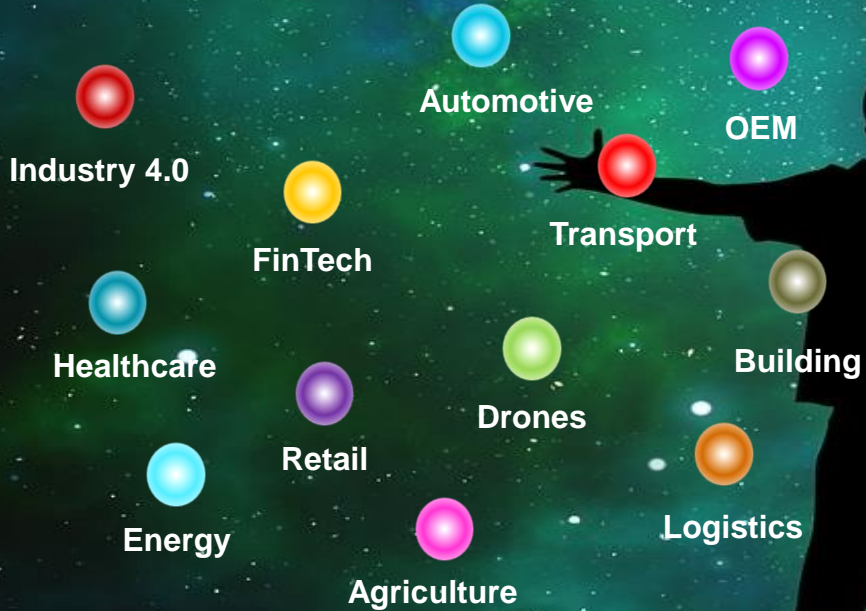
**PRADEEP SREEDHARAN**  
VICE PRESIDENT  
Sales & Business Operations



**JUERGEN HASE**  
CHIEF EXECUTIVE OFFICER

## Leadership Team

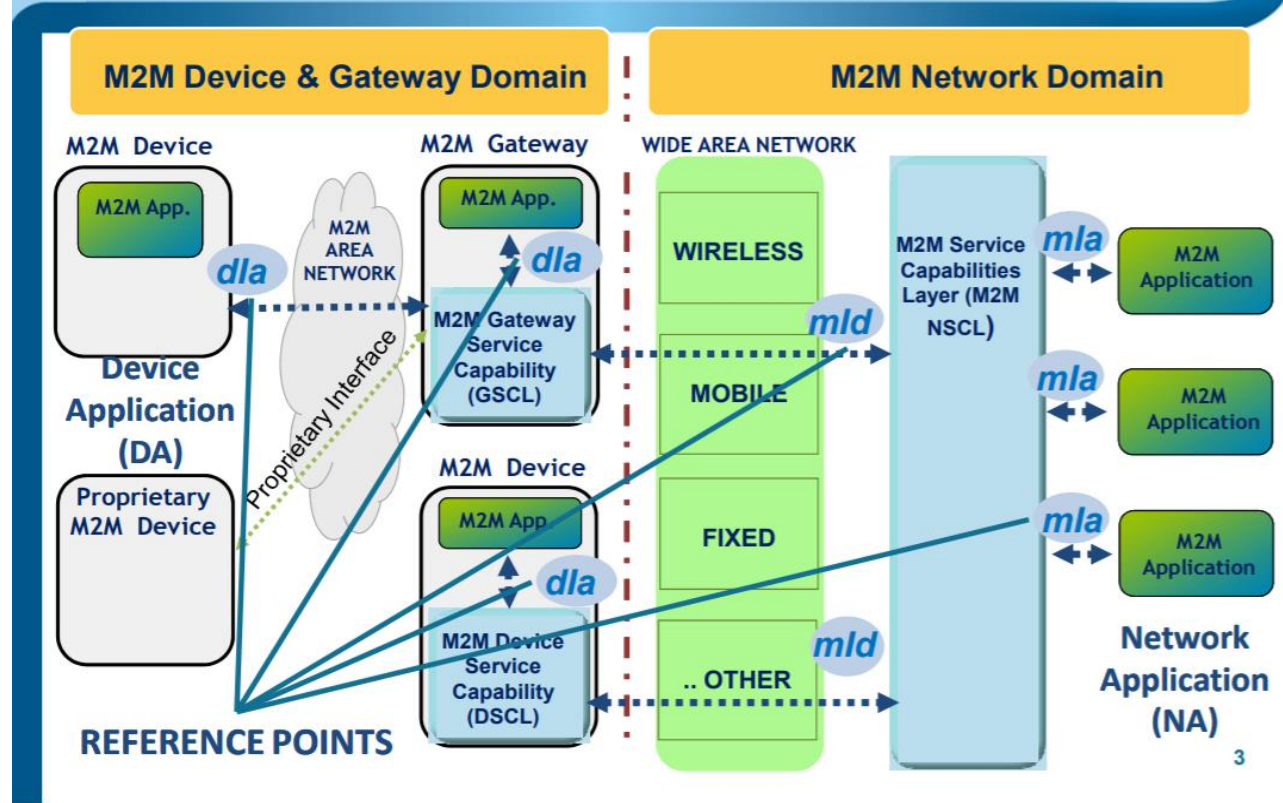
## Applications & Devices



# IoT Eco - System

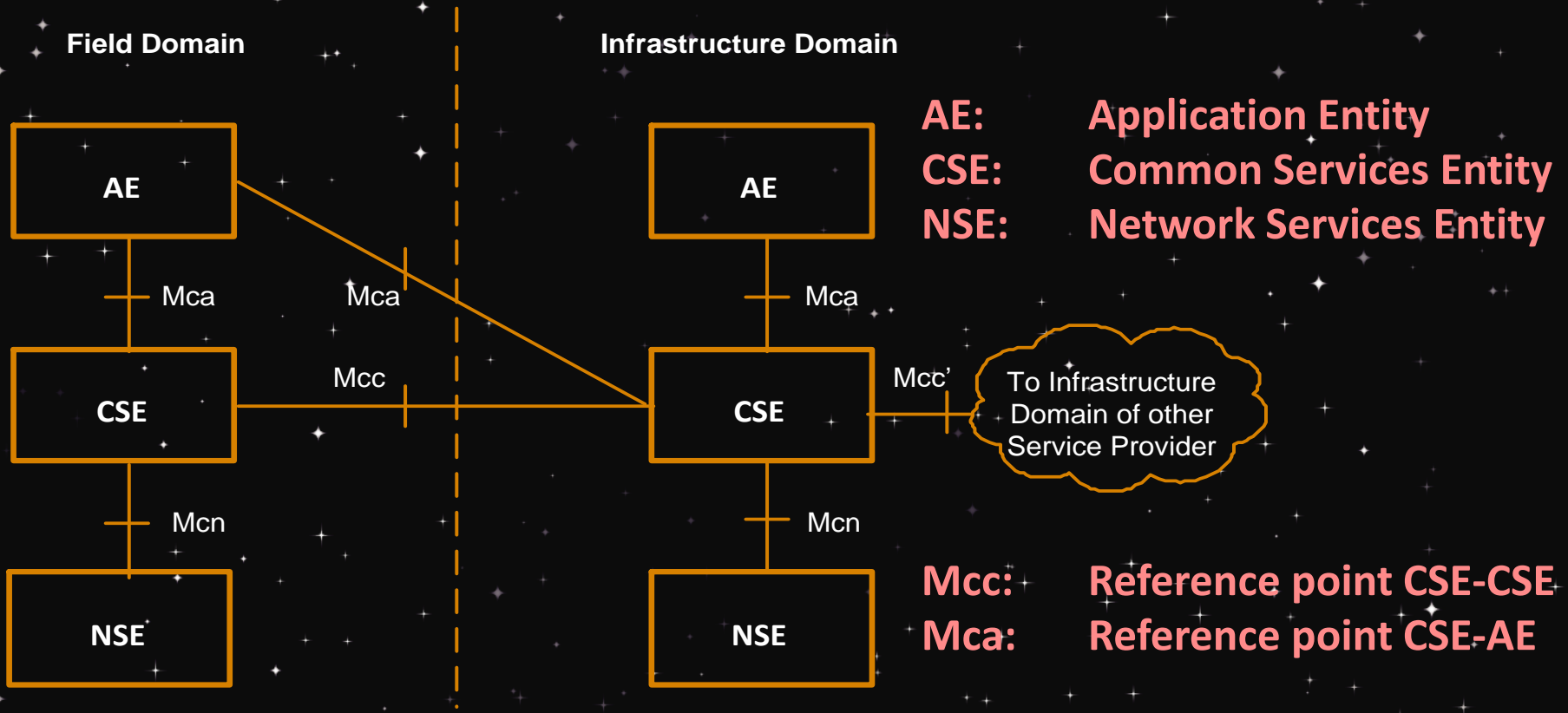


# M2M – High Level Architecture



ETSI M2M Architecture, Barbara Pareglio, Ericsson





# oneM2M: High-Level Architectural Model

# Application layer

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Common Services Layer  
Connectivity Management, Device Management, Billing, CKIM

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# Network Services Layer

## OneM2M IoT Functional Stack



Security Breaches



- Fraudulent device misuse
- Unauthorized 3<sup>rd</sup> party device communication



Cost Overages



- Near real-time monitoring of usage
- Adherence to rate plan policy



Global Scale



- Location Agnostic



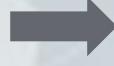
Detection of Abnormal Device Behavior



- Near real-time monitoring of network behavior
- Deviations from standard behavior



Reliable Data Delivery



- Ensure persistent connection for bi-directional data delivery

**Managed Connectivity is Critical to IoT Success**



## FROM

### Lack of control over IoT business

Inefficient operational black box creates complexities

- ! Security breaches
- ! Cost overages
- ! Difficult to scale globally
- ! Inability to detect abnormal behavior
- ! Unreliable data delivery



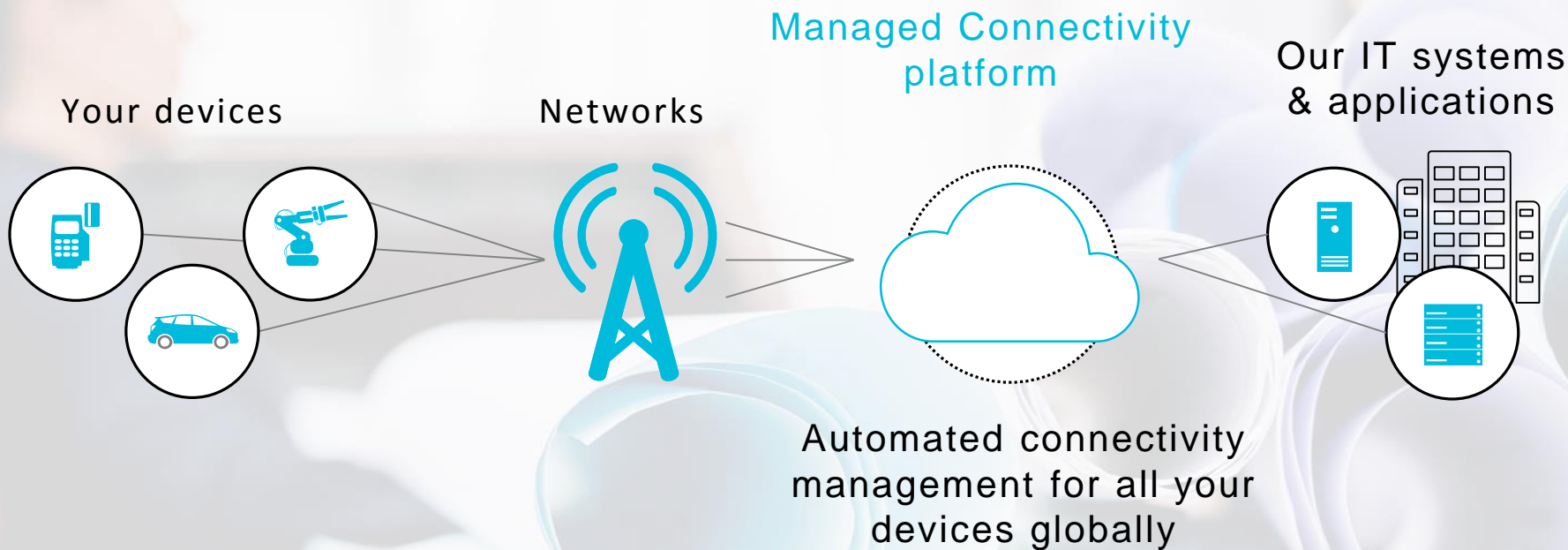
## TO

### In control of IoT business

Accelerating making money, saving money & transforming your business

- ✓ **Security:** Safeguard data, devices, IT systems
- ✓ **Lower TCO:** Elimination of unexpected spend
- ✓ **Global scale:** Services anywhere you need them
- ✓ **Better monetization:** Sophisticated revenue models
- ✓ **Reliability:** Always available service as expected

# Managed Connectivity for IoT Business



## Architecture : Managed Connectivity



### Lifecycle Management

- Automated Business rules
- Customized access
- Realtime visibility
- Customized reports



### Security

- Secure Authentication
- Device Level Security
- Audit Trail
- Access Verification
- Access Restriction

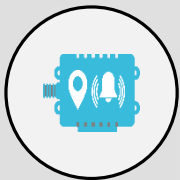


### Cost Control

- API Driven
- Auto-maneuvering to best fit plan

## Core Capabilities





### **AIS 140 ready:**

As per AIS 140 compliance the solution should be able to perform an Automatic Switch and an On-Demand switch between profiles on real-time basis for effective network management and transmission.



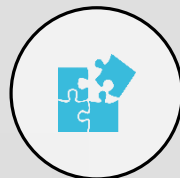
### **Automotive grade Ready:**

Segments like the OEM for Private and Commercial vehicles require apt solution that suits Automotive grade IoT/ M2M applications.



### **Industrial grade Ready:**

Segments like Vehicle Tracking, Energy Metering, Control & Monitoring, Vending Machines, require apt solution that suits Industrial grade IoT/ M2M applications.



### **Government of India Guidelines:**

Solution is in line with the M2M guidelines stated by Department of Telecommunication, Ministry of Communication.

## **Industry Ready Solution**

# Use Cases



## Internet capable meter that measures the consumption of power and energy

### CHALLENGE

- Improve customer service and support with reduced operational costs
- Increase efficiency and promote worker safety (e.g., fewer truck rolls)

### SOLUTION

- Enable customers to monitor their energy consumption and provide insights into alternative energy sources
- Align the organization to meet the demands of the changing energy and network businesses to shift demand loads

INSIGHTS

APPLICATION

CONTROL

CONSULTING

### BENEFIT

- Real-time control of smart meter communications
- Detect and prevent rogue usage and anomalous behavior
- Real-time performance and cost monitoring
- Automating network usage policy management
- Field workforce productivity

## ENERGY & UTILITIES





## Improvisation of the driving experience with in-vehicle connectivity

### CHALLENGE

- How to manage the monthly data charges and improve the service reliability?

### SOLUTION

- Unlimit Control assists in real-time visibility into data usage and retroactive data plan selection, the OEM is permanently able to manage and significantly decrease its total data costs

INSIGHTS

APPLICATION

CONTROL

CONSULTING

### BENEFIT

- Quickly roll out new vehicles and provision according to its stage in the vehicle lifecycle
- Reduce in Connectivity-related issues to 0.3% per month
- Ease in complete visibility of the rate plans, connection state, and more for the entire fleet
- Reduce costs providing the appropriate rate plan

# CONNECTED CAR



## IoT services to boost sales and enhance customer experience at POS terminals

### CHALLENGE

- How to meet the device deployment commitments in a timely manner over the next few year?

### SOLUTION

- Using Unlimit Control for automated deployment and terminal monitoring, the company was able to increase new device expansion by at least five-fold in select markets

INSIGHTS

APPLICATION

CONTROL

CONSULTING

### BENEFIT

- Quickly roll out new machines to meet business goals
- Returns information on all data sessions and messages sent or received by a device during a billing cycle for a given device (cost control)
- Cost monitoring
- Alert on anomalous device behavior

POS



**Unlimit  
Insights**

**Supports decision making  
: Eg. User Based Insurance**

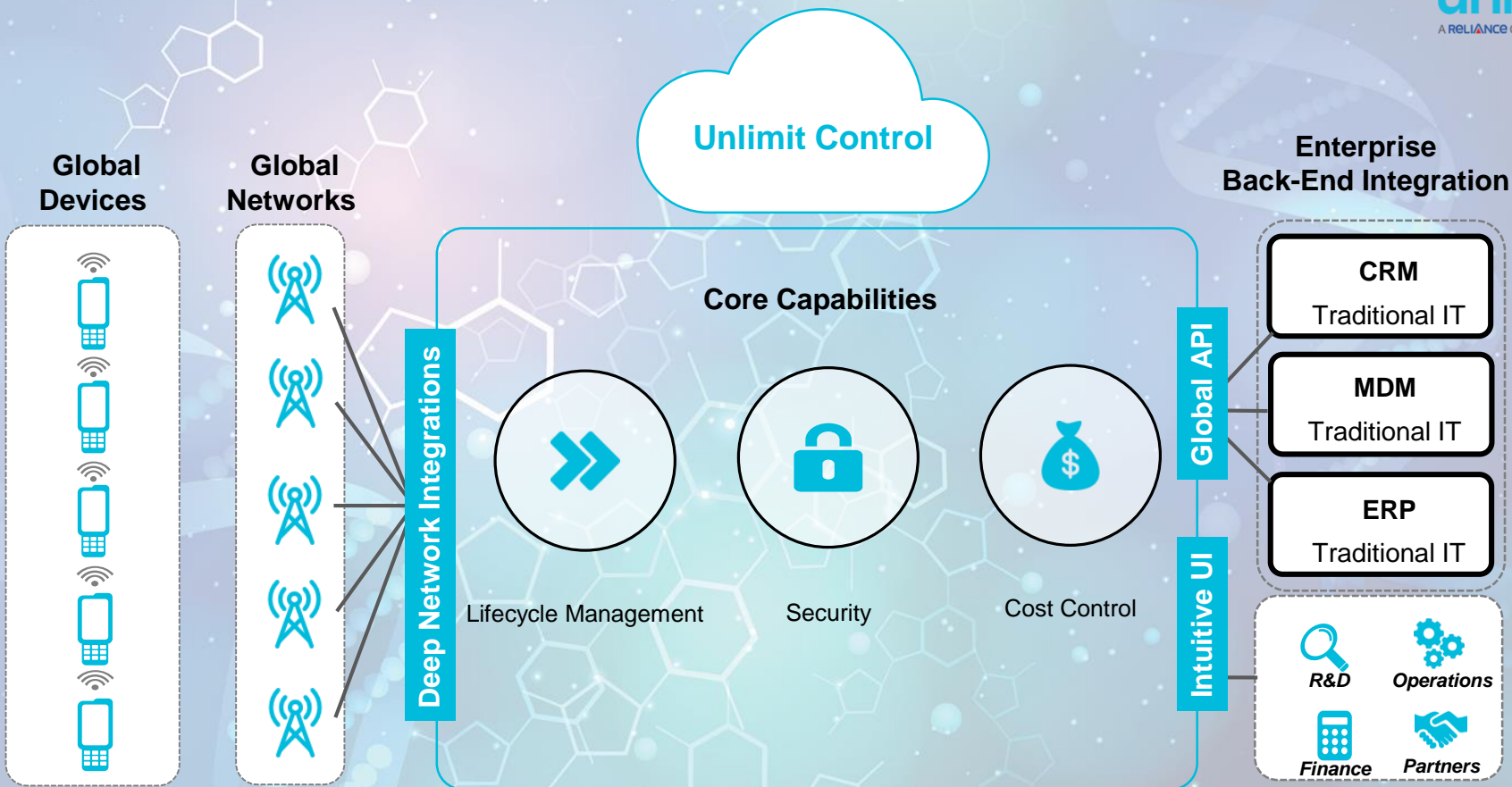
**Unlimit  
Enablement**

**•Device Management  
• Simple and fast Cloud  
Application Creation**

**Unlimit  
Control**

**Connections Management  
Platform**

# Unlimit's Products



# Automated Managed Connectivity

## LIFECYCLE MANAGEMENT



- Manage device lifecycle
- Avoid high cost of DOA
- Automate Deployment

**Faster Market accessibility & scalability**

## REAL-TIME VISIBILITY



- Gauge the status of your devices and monitor performance 24/7
- Make changes as needed

**Real-time intelligence for business development**

## DIAGNOSTIC & MONITORING



- Identify issues quickly
- Self-Diagnosis of connectivity issues
- 80% of issues gets self resolved

**Increase customer satisfaction**

## SET & FORGET AUTOMATION



- Automate routine tasks with business rules
- Eliminate high cost of manual intervention

**Automation with virtually zero-touch management**

## API DRIVEN



- Take automation to the next level
- Integrate with your IT and business systems

**Smoothen business processes**

## COST CONTROL



- Real-time visibility of your costs
- Instant access to your invoices

**On track accurate budgeting**

# Unlimit Control - Key Differentiators







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# Contact Us

THANK YOU

