VCOM DCIM
Visual Capacity Optimization Manager

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VCOM DCIM

- Grey & White space devices
- Power and Network Relationships
- Locations
- Telco
- Physical & Virtual

Asset Mgmt

Device Monitoring

- Data Collection over many protocols
- Alarms
- Notifications
- Actions
- Dashboards & Trends

Capacity & Workflow Driven

- Capacity Management
- Change Management
- Audits

Enterprise & Client Integration

- ITSM Integration
- Business Intelligence
- Systems
- Client views and reports

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VCOM Security

Visual Capacity Optimisation Manager

- Restriction of user scope
- Multiple clients access to view their equipment

- Centralised, in-context views of cameras

Multi-Tennant

Security Cameras

Rack Access

Room Access

- Centralized visibility control of rack access

- Centralized view of room access readers

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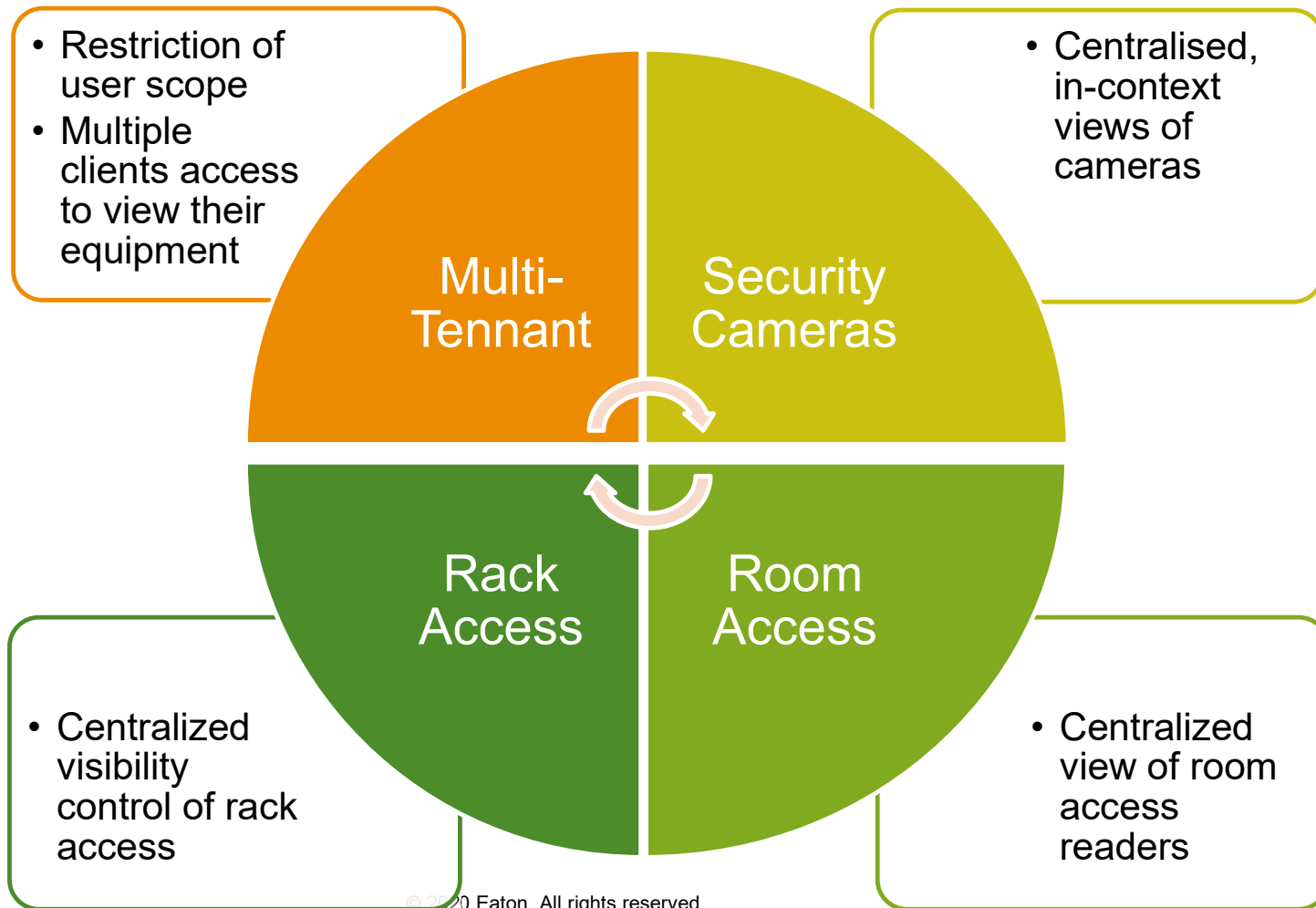
Aggregate Consolidate Simplify

Asset Management

- Visual Floorspace
- Rack Building
- Port Mapping
- Reservations & LifeCycle
- Extensible Attribute Mgmt
- Service Scheduling
- Warranty Tracking

A-Rack001.abc   A-Rack002   A-Rack003   A-Rack004

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Monitoring & Alarming

Generic protocol support

SNMP

Modbus TCP

Bacnet IP

OPC

IPMI|WMI

CSV

API

HTML

MQTT

Threshold Definitions

Alarm Triggers

Notifications

Traps, SMTP, SMS, Scripts

Actions

Dashboards, Trend Charts & Prediction

Actionable Data in Context

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Connectivity

Power

Network

Fiber

Cable Trays

Power & Network Path

Circuit Trace

Cable serial numbers

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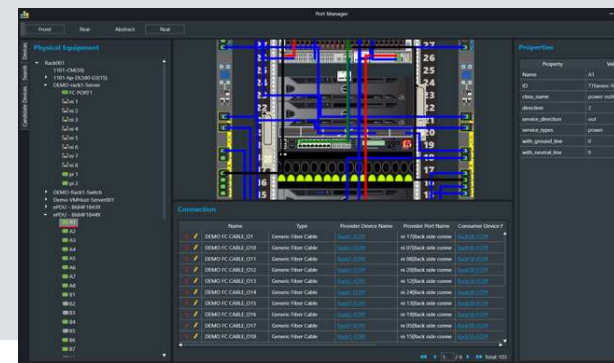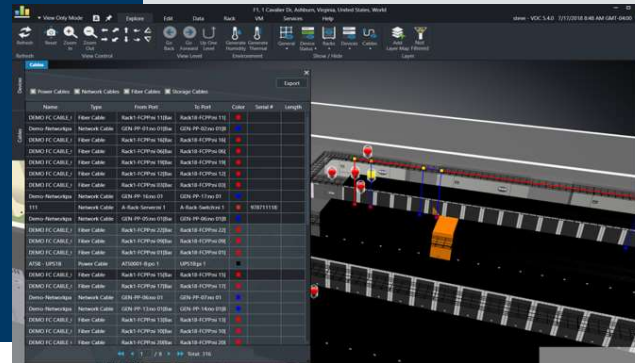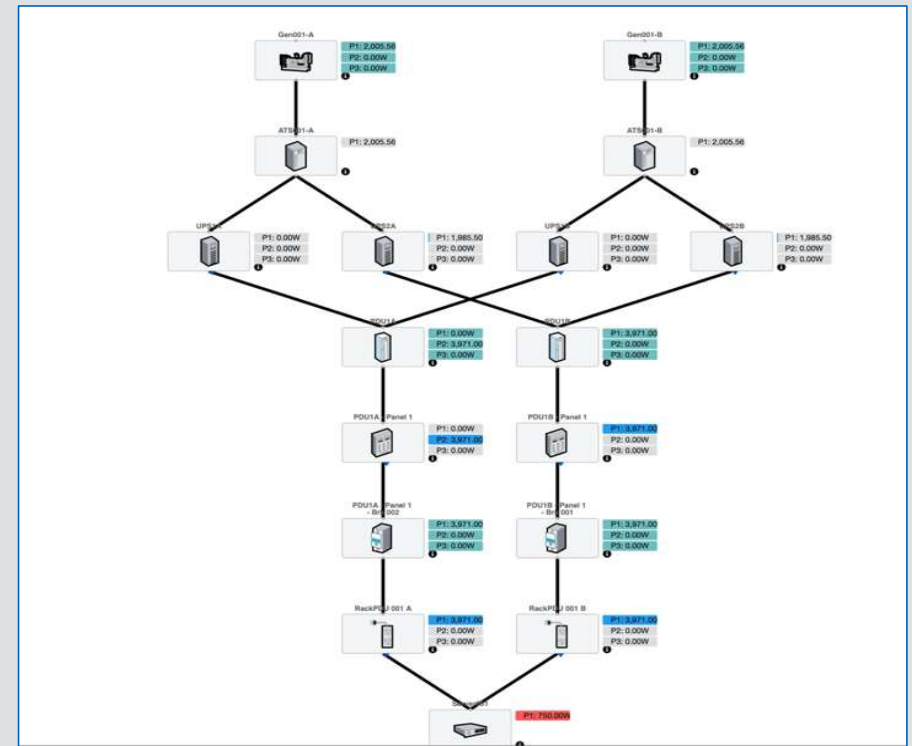
Capacity Planning

Thermal Images

Capacity Planning

Root Cause Analysis

Impact Analysis

Power Load Failover

Compound Filters

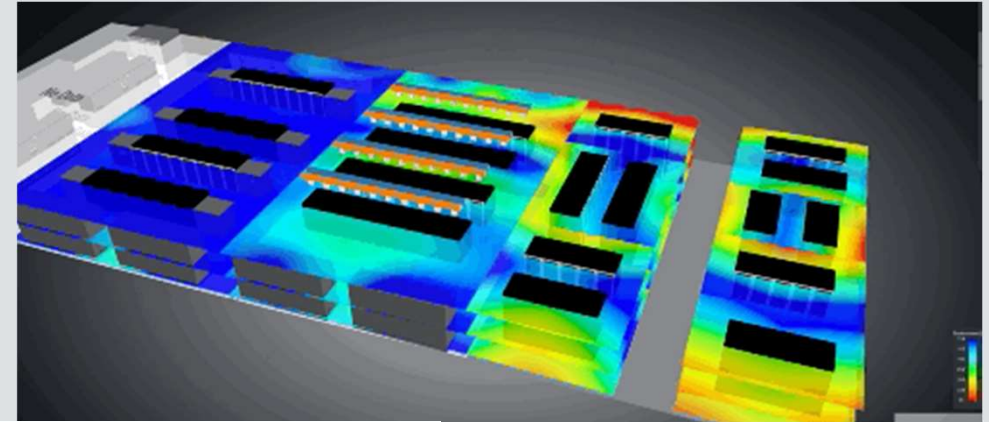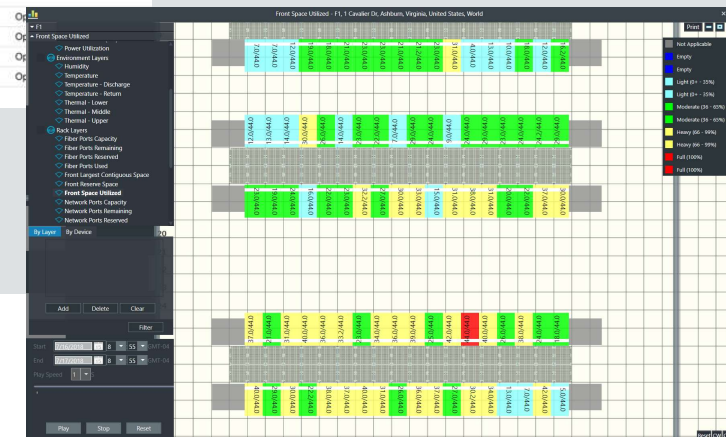Calculated Data & Metrics

PUE calculation

Power Rollup

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Project, Task, Work Order, Audit (VCOM)

Approval Cycles

Various Tasks

Install Decommission

Move   Connect/Disconnect

Auto Rack/Port Wizard

Work Order Routing

Graphical Reservations

Floor & Rackmount Devices

Auditing (Mobile Audit Manager)

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Device Management

Auto Discovery

Rack PDU

   Eaton Firmware Upgrades and Configuration
   Outlet Controls

Server

   KPI Collection
   Application

Network Switch

   Port usage & Assignments
   Throughput

Virtual Machines Host & Guest Controls

Device Controls

   User Initiated & Automated
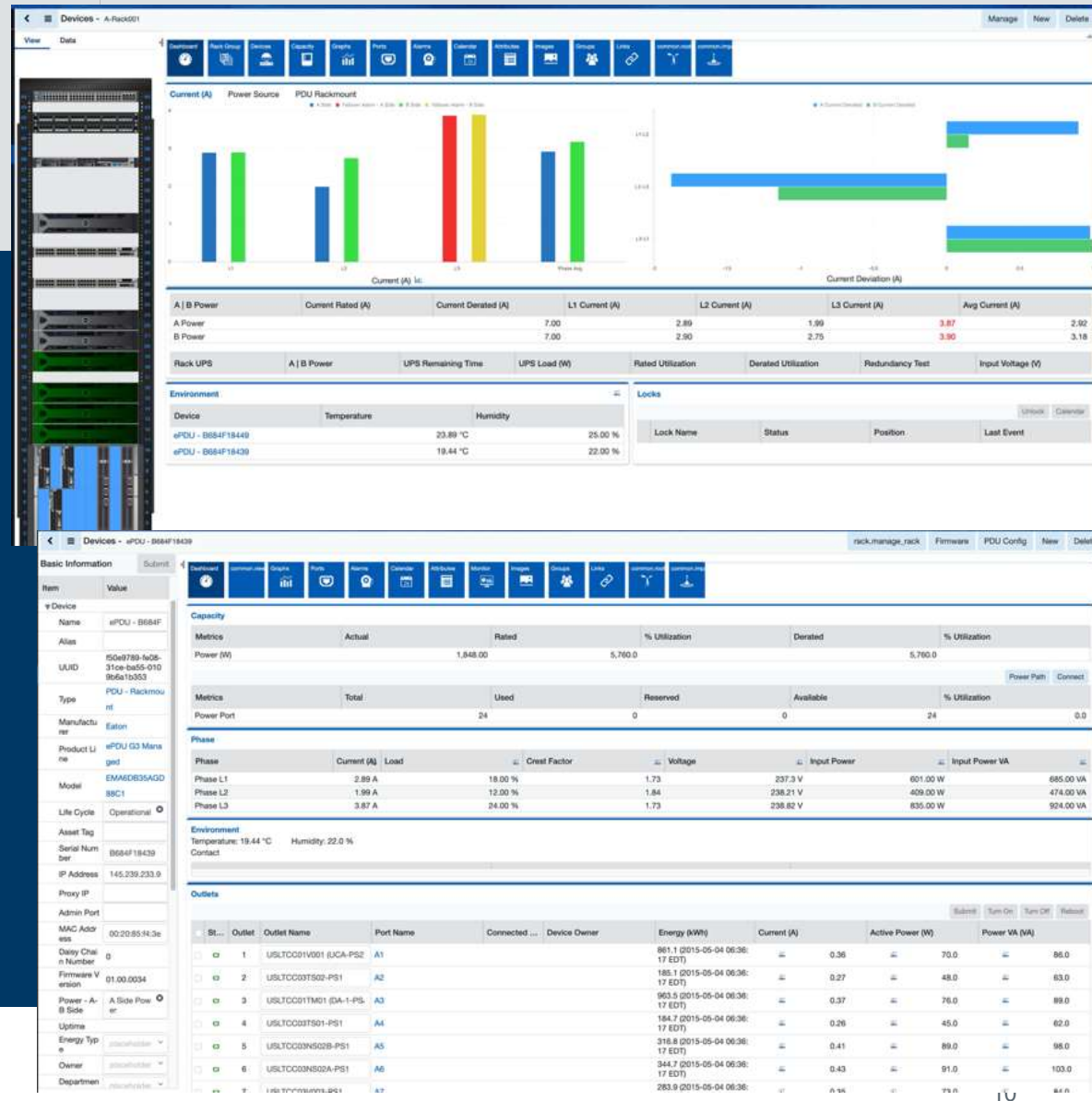
Security & Rights Access

Multi Tenant Management

LDAP/Active Directory Integration

HTTPS Access

Encrypted SSL Database Access

Multi language Support

English, Française, Español, Português, Italiano
Русский，繁体中文，大和

Rack Locking

Room Access

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Camera Images

IP Cameras with FTP/SFTP

Image repository in VCOM

Historical views of images

Streaming Video

Rights Access
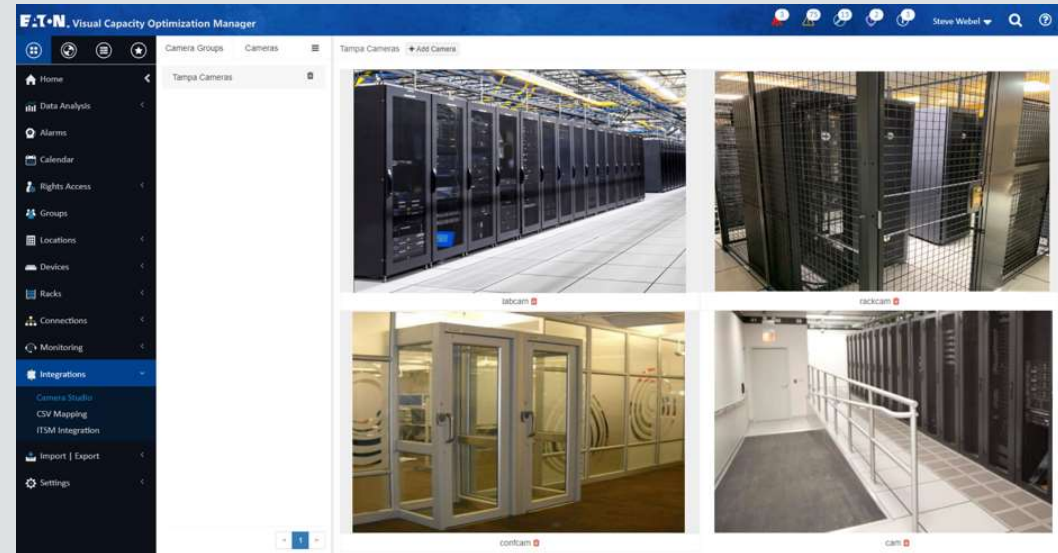
Reporting

Built in & Custom reports

Distribution reports

Client / Billing reports

Microsoft Power BI Integration

Apache SuperSet

    Asset, Capacity, Cost data

    Interactive navigation & Filter

    User Tables
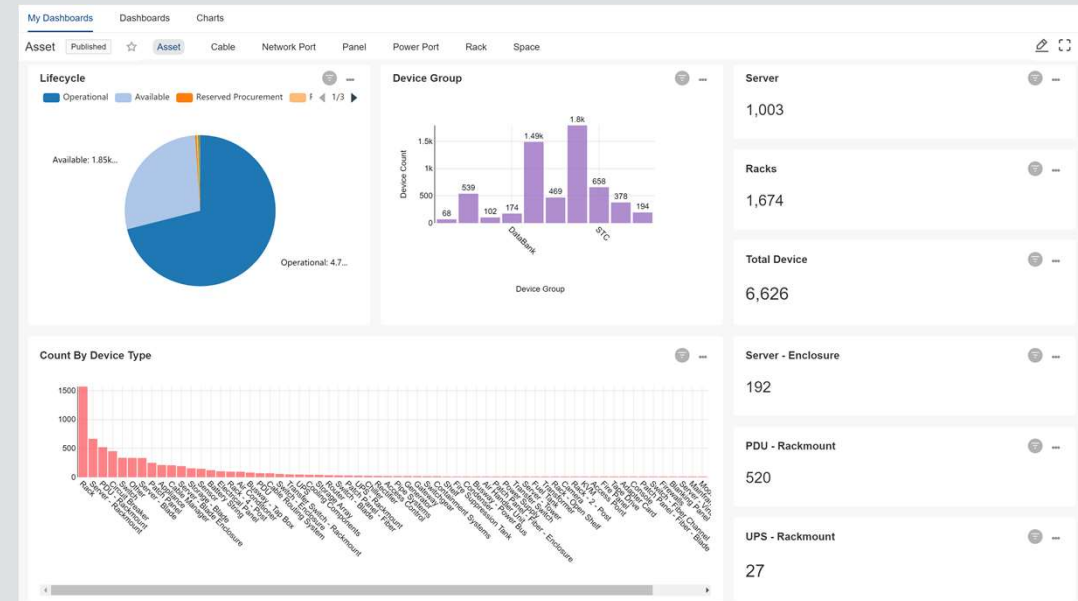
Highly Scalable and Extensible Architecture

VCOM Architecture
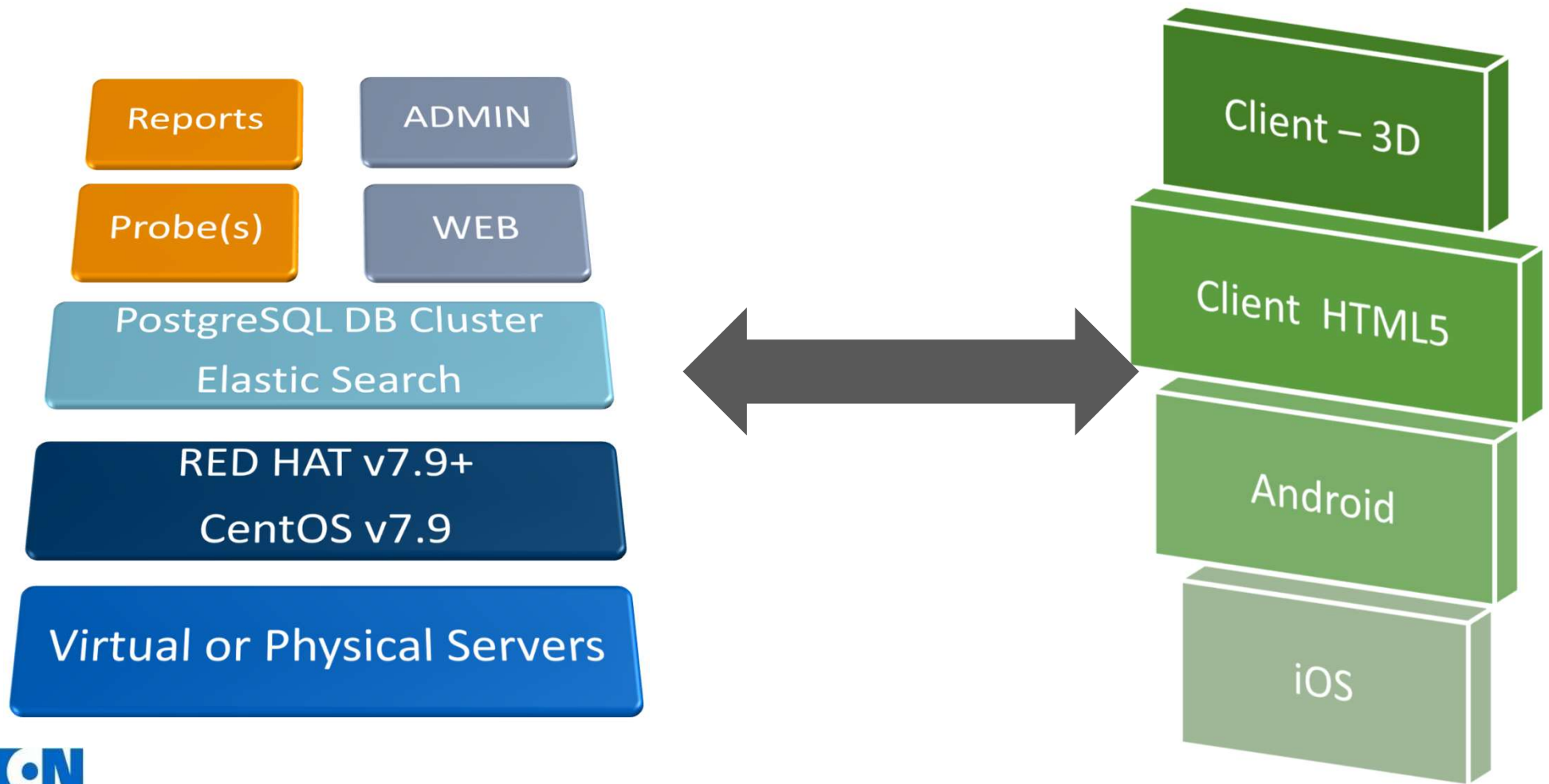
VCOM All-In-One Server Architecture (<1500 racks)
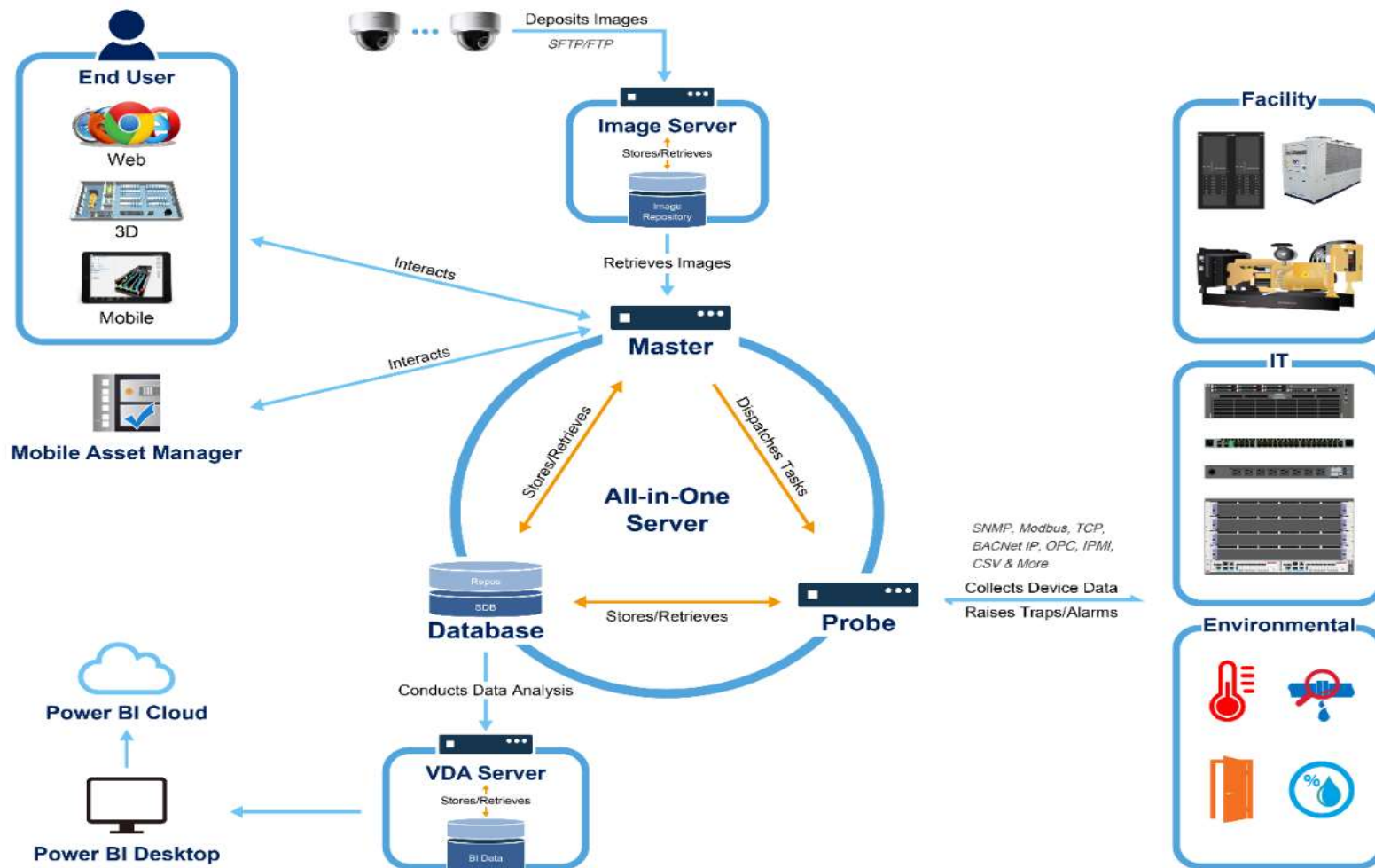
VCOM Distributed Server Scalable Architecture (>1500 racks)
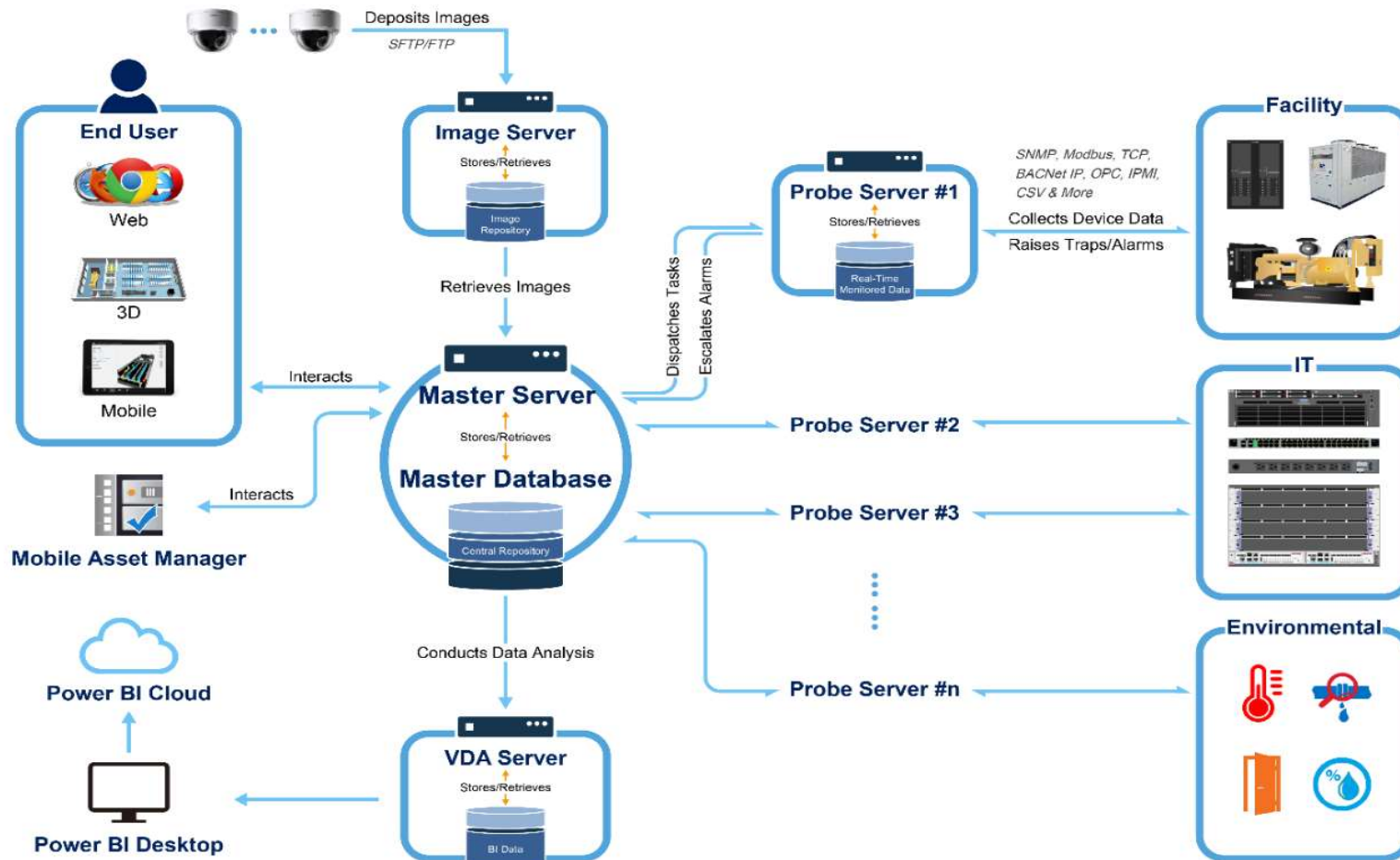
VCOM Remote Data Gateway (VCOM)

- Allows EASY Data collection from complex heterogeneous networks
- Eliminate the needs for having VPNs or firewall rule changes
- A Simple, clean, transparent and safe solution to meet cloud DCIM needs
- IOT support using MQTT, Q3-2021

HTTPS / SSH

VDC

Remote Data Gateway Server

Public Cloud

Remote Data Gateway Client

Customer Network
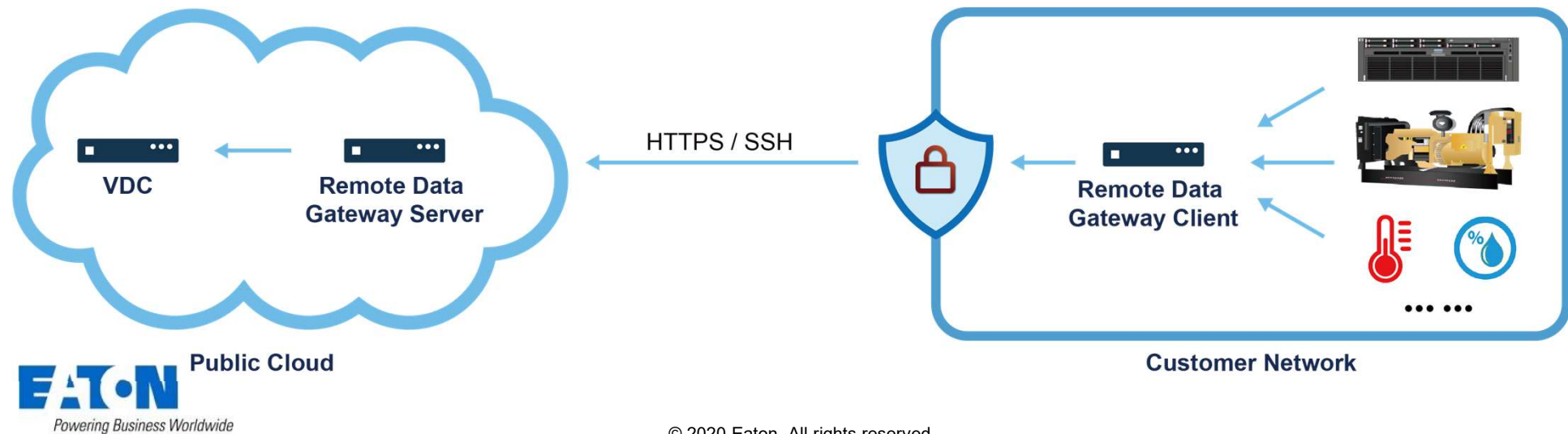
Why VCOM !

6 Unique Features of VCOM

Solution benefits span departments of the organization

Single solution for all DCIM

DCIM solutions are required by many departments, including Data Center, Facilities, IT and Project Management. VCOM combines all of these functions into a single, easy to use solution. Not multiple products glued together.

3D Management of the datacenter

Management in 3D is not just a gimmick, with complex environments like Data Centers, it is necessary to physically navigate to the correct location quickly, 3D is clearly the best methodology.

Support for protocols, not vendors

VCOM supports the protocols of SNMP, Bacnet, Modbus, IPMI, WMI & XML. The actual vendor of the equipment is not important, only the protocol. This is unlike many DCIM solutions from hardware vendors.

Systems Integrations

A data center is not a black box, it needs to integrate with with the enterprise systems that run the business. VCOM includes integration with VMWare and can support BMS, Asset Management systems and Service desk systems.
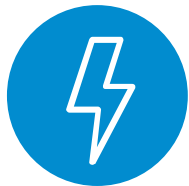
HIGHLY scalable

The ability to distribute data collection probes around a large, multi-data center environment, enables global enterprise scalability.

Embedded database

The core the system is it's database. We have chosen an embedded database for ease of deployment, without reliance on 3rd party database licenses. The database itself is self managing and can also be include din enterprise backups.

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6 major ROI elements of VCOM

- Solution benefits span departments of the organization

Data center performance

Organizations today are reliant on the operations of the data center, they are also a huge cost to the organization To have the data center operated and managed optimally is key to success. This can only be achieved with a complete DCIM solution.
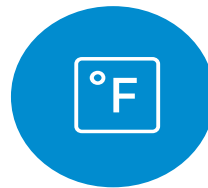
Data center accuracy

Understanding where all your devices are in the data center and their dependencies and relationship is key to ongoing management. If you don't know where all the devices are they they are probably consuming energy and not being used.
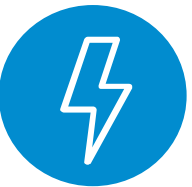
Single pane of glass

Different part of the organization require information regarding the status of the DC including Facilities, DC Management and IT. A single pane of glass provides the same view to each groups to ensure consistent management from the same data eliminating confusion and duplication.

Accurate changes in the data center

On average 20% of servers change in a data center each year. Accuracy in making these changes is critical to their availability. Understanding all the capacity constraints for changes eliminates errors and duplicate effort.

Dramatic Reduction in change time

Where time can be reduces in making changes in the data center the better the return of the business, as new or changed services are available quicker. VDC can reduce this time from arrival of the equipment to product use by up to 10 fold.

Reduction in risk in DC operations

Data Centers are risk averse, and rightly so. Through having accurate information that everyone uses, by making changes correctly the first time, by not exceeding the capacity of the environment, by predicting failures in equipment and by ensuring redundancy, the risks of major problems in your DC with VCOM are almost eliminated

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Thank you