



*A Revolutionary World Class DAS Solution*



Zinwave is now a  
Wilson Electronics company.

# Company Overview



***Zinwave focuses primarily on providing essential in-building wireless services (including cellular, public safety, and two-way radio connectivity) to the enterprise.***

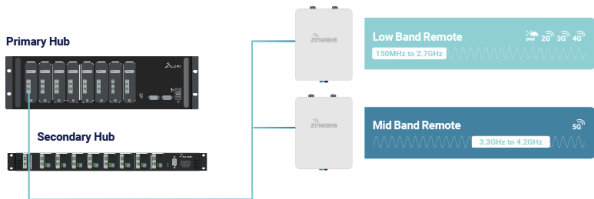
- Founded in 2002 by leading researchers at the University of Cambridge, Zinwave launched its first commercial product in 2008
- Acquired by Wilson Electronics in 2022; based in Utah, USA with international sales, research and development, engineering, and manufacturing in Cambridge UK
- Zinwave offers a patented, ultra-wideband RF over fiber solution for the Distributed Antenna Systems (“DAS”) market
- Has over 850+ installations across 26 countries; Connected to 80 mobile operators, including all major carriers
- Zinwave’s top 10 customers have been with the Company for approximately 6.7 years
- Unique technology – strong international patent portfolio (14 issued)
- Growing share of cutting-edge new economy customers not constrained by legacy competitors’ offerings

# Product Offerings

**Zinwave offers three main product offerings.**

## System 5000 & UNIconnect

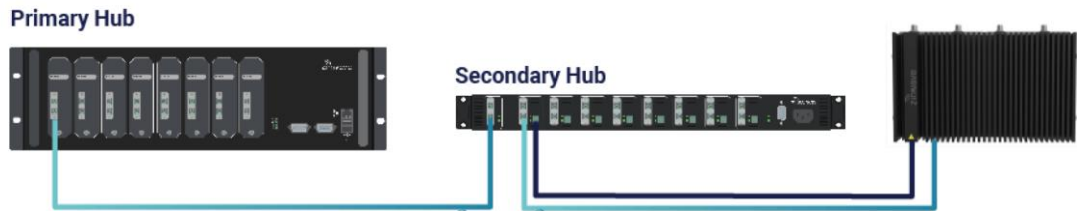
- Unitivity 5000
  - 150 – 2700 MHz
  - ~~3200 – 4200 MHz~~
  - 24dBm composite o/p power
- All modulation technologies covered
- Unitransport offers long distance fiber interconnection from BTS hotel
- UNIconnect active POI available 600 to 5000MHz



**System 5000**

## Uniwave (8000)

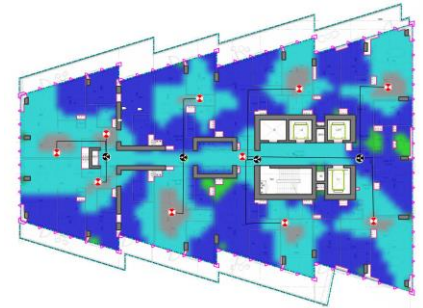
- New MIMO Wideband Platform
  - 150-5000 MHz in a single remote
  - 28 dBm composite o/p power per RF path
  - Available in SISO, 2x2 and 4x4 MIMO Configurations
- Unitransport offers long distance fiber interconnection from BTS hotel
- UNIconnect is wideband active POI with 8 inputs feeding up to 2 PH hubs from 600 to 5000MHz



**Uniwave (8000)**

## Professional Services

- iBwave Design Services with certified staff in low-cost location
- Commissioning and optimization services
- Mobile Operator Coordination
- Installation Project Management
- Monitoring & Maintenance

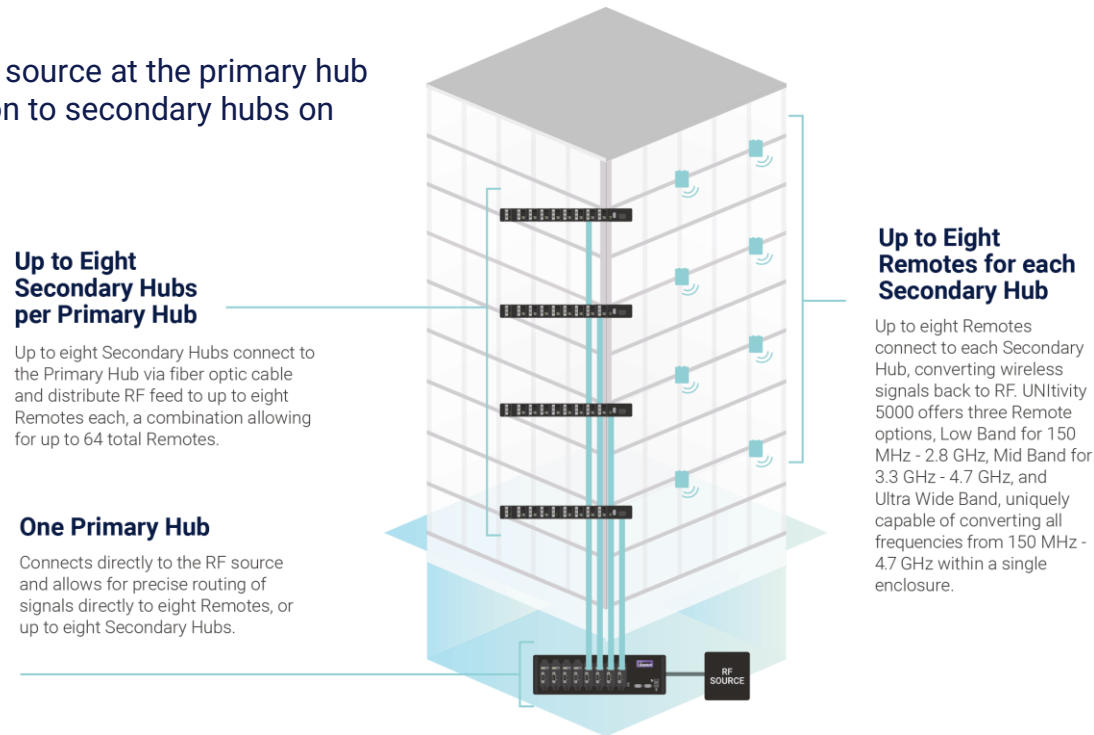


**iBwave Services**

# Zinwave Enterprise Solution - Overview

**Active DAS systems deliver one or more wireless carrier signals from DAS head-end equipment (primary hub and, if needed, secondary hubs) to indoor antennas (remote units) throughout the building(s).**

- Carrier radio frequency (“RF”) signals from an RF source at the primary hub are converted into optical signals for transmission to secondary hubs on different floors or key points within building(s)
- Secondary hubs then connect using fiber to remote units in the ceiling next to indoor antennas on each floor
- The solution covers every frequency from 150MHz to 2700/5000 GHz in one layer of hardware
- All mobile frequencies (2G, 3G, 4G, 5G TDD and FDD) in one layer of hardware
- PMR, TETRA, DMR, PAGING, P25, all included in same layer
- True Multi Operator product with patented leading edge wideband technology



**Primary Hub**



**Secondary Hub**



# Technology Highlights

## *Key advantages of the Zinwave offerings include:*

### Ultra Wideband

- The Zinwave DAS transports more bandwidth than any other product in the market today
- Supports all <5GHz Mobile Network Operator Bands in one hardware layer of equipment

### Multi Technology

- Zinwave can operate TDD, FDD, P25, TETRA, DMR, LTE, WCDMA, GSM all on a single layer including MIMO at all bands

### Futureproof

- New frequencies and technologies can be added without the need for hardware or software upgrades

### Efficient

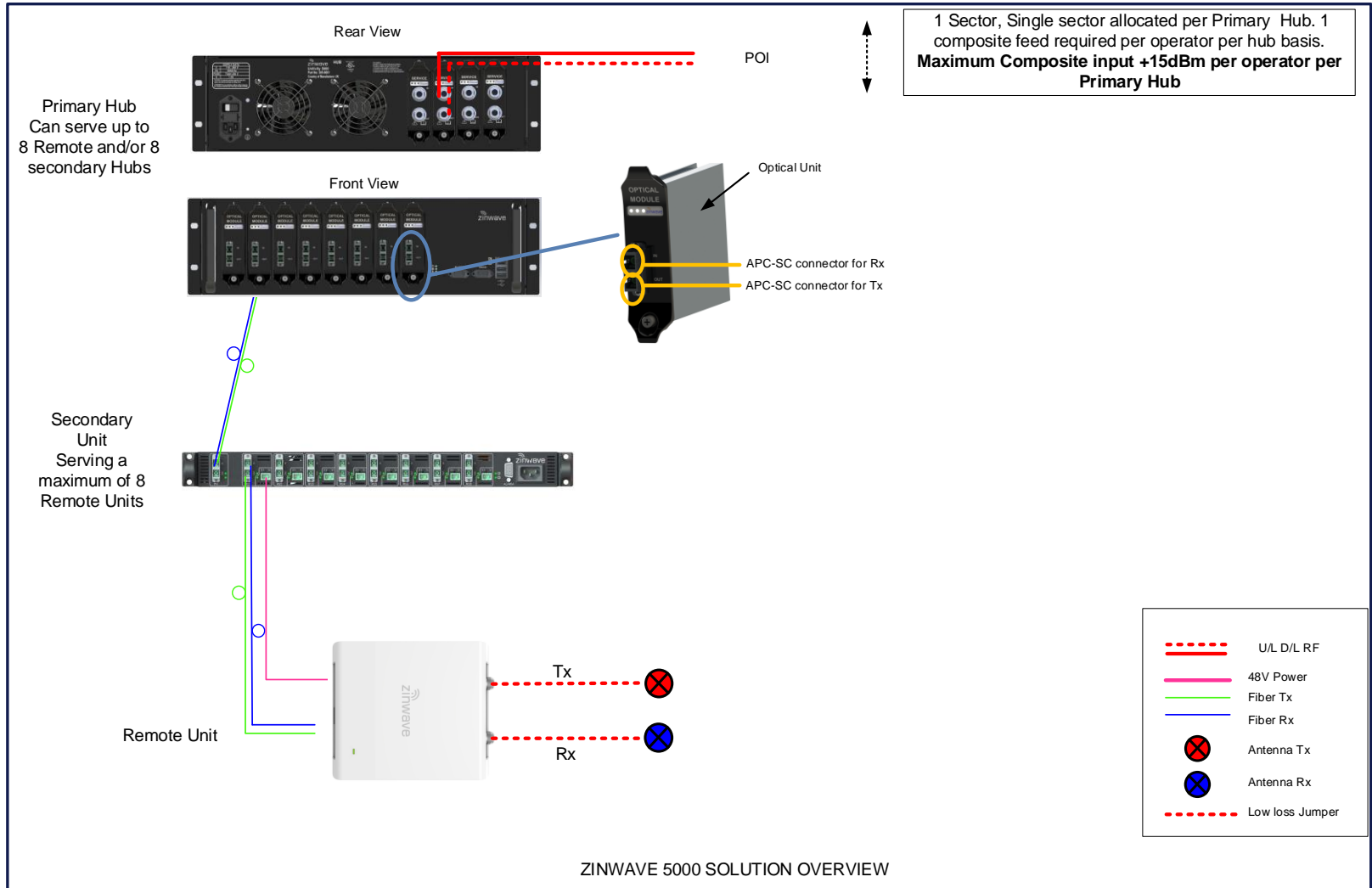
- The Zinwave solution has low power consumption delivering an impressive 25 dBm composite power to each antenna point

### Reliable

- Manufactured in the UK, the Zinwave solution has best in class reliability and performance
- **Product return rate is less than 0.5%**

# Product Offerings

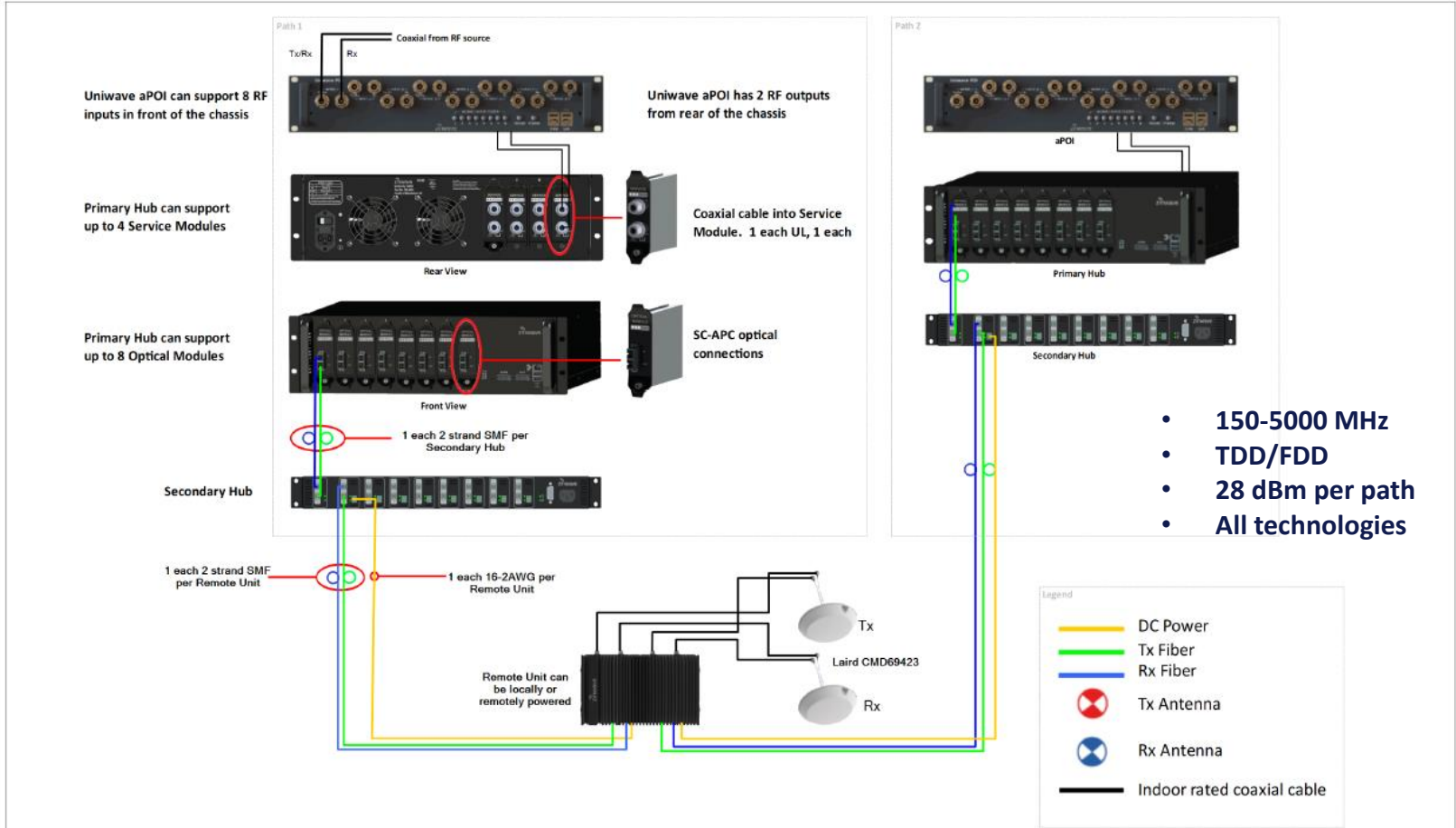
## System 5000 Solution





# Product Offerings

## UNIWAVE (8000) MIMO Solution



CLIENT

TITLE **Uniwave 2x2 MiMo - Solution Overview**

PROJECT **Project Name**

DESIGNED:	ME	DRAWN:	JM	CHECKED:	ME
CHANGE / ISSUE HISTORY					
REV	DATE	DETAIL			BY
1.0	03/16/2021	Initial Issue			ME

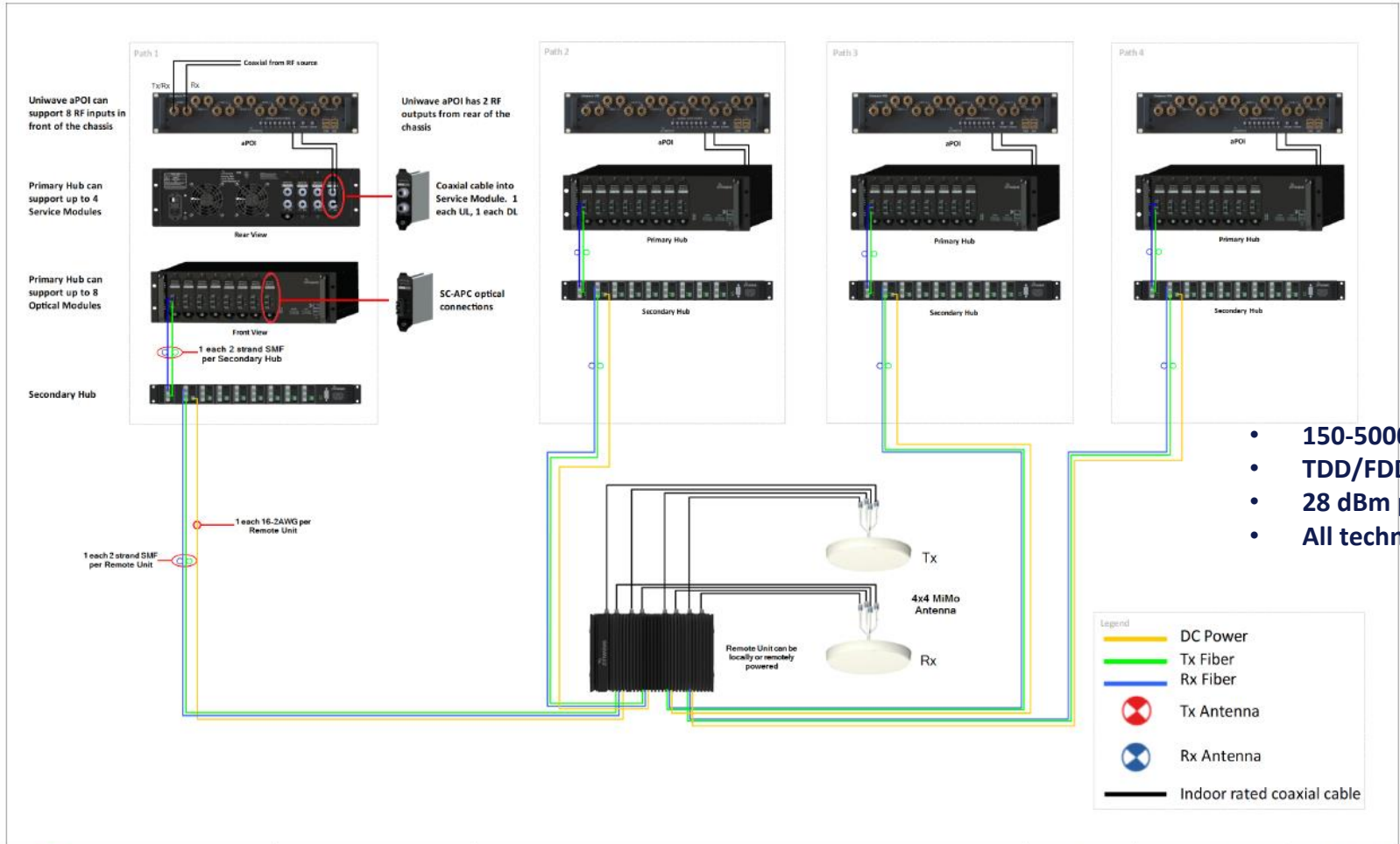
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DRAWING No. SOV-UNW SCALE NTS



# Product Offerings

## UNIWARE (8000) 4X4 Solution



- 150-5000 MHz
- TDD/FDD
- 28 dBm per path
- All technologies

Legend

- DC Power
- Tx Fiber
- Rx Fiber
- Tx Antenna
- Rx Antenna
- Indoor rated coaxial cable



CLIENT	TITLE	DESIGNED: ME	DRAWN: JM	CHECKED: ME
	Uniwave 4x4 MiMo - Solution Overview	CHANGE / ISSUE HISTORY		
PROJECT	Project Name	REV	DATE	DETAIL
		1.0	03/16/2021	Initial Issue
				BY
				ME

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DRAWING No.	SCALE
SOV-UNW	NTS


# Notable Customer Snapshot




**Apple Headquarters**  
Cupertino, CA

**Project Details**

- The largest corporate office construction project in the U.S.
- 13,000 employees
- 2.8M sq. ft. floor space
- 11,000 underground parking spaces

**Solution**

- 400 Hubs
- 2,300 Remotes
- Designed to support all four US operators
- AT&T, Verizon and T-Mobile active



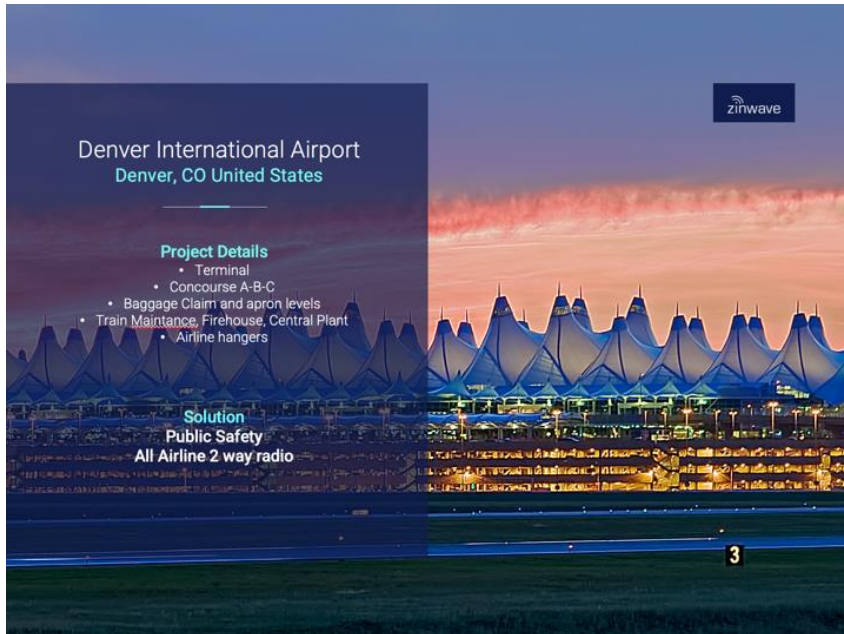
**SKY**  
London, UK

**Project Details**

- Sky HQ in London
- 5 Buildings including offices and studios

**Solution**

- 68 Hubs
- 390 Remotes
- Designed to support all four UK mobile Operators
- Fully JOTS Compliant



**Denver International Airport**  
Denver, CO United States

**Project Details**

- Terminal
- Concourse A-B-C
- Baggage Claim and apron levels
- Train Maintenance, Firehouse, Central Plant
- Airline hangers

**Solution**

- Public Safety
- All Airline 2 way radio



**House of Parliament**  
London, UK

**Project Details**

- 16 Buildings including Houses of Parliament
- Thick walls and difficult to penetrate areas
- 4,000 employees
- 4 M sq. ft. floor space
- Underground parking spaces

**Solution**

- 200 Hubs
- 1,300 Remotes
- Designed to support all four UK operators
- ESN Compatible
- JOTS Compliant



# Production & Fulfillment Process

**Procurement:** In-house staff manage the procurement of HLA and PCBA components leveraging suppliers across the globe

**Production:** Zinwave staff produce all final assemblies, driving product quality and return rates that are well below industry average

**Quality Management System:** ISO9001/14001 QMS processes drive product quality

**Product Commonality:** Common SKUs across the globe provide fulfillment flexibility

**Warehousing :** (2) global warehouses (US & UK) fulfill & deliver over 20k items per year



**Certification Process:** Dedicated product quality professionals drive the Zinwave regulatory process to include certification from multiple entities: FCC, IC, CE, UL, ISO, RoHoS, UK CA

**Warranty:** Industry leading 2yr warranty with options and confidence to expand +5yrs





Thank You

zinwave



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