ATEÏS®

TELCOM data
Improving Your Business Through Telcom

Public Address - Voice Alarm
Audio Distribution over IP
Commercial Audio
Loudspeakers

IDA8

Highly Integrated Network PA/VA System

IDA8

ATEÏS proudly introduces a highly integrated PA/VA system which is complied with EN54-16 and UL60065 requirements. The system features emergency messaging, paging, audio streaming, priority control, VoIP, 3rd party control, message playing & recording etc..

The IDA8 system is a fully digital and networked PA/VA system with adjustable DSP parameters within the digital domain. The IDA8C controller consists of 2 modular I/O card-slot with 8 in, 8 out, 4 in x 4 out for the use in any installation size, whether is a small local system of 256 zones or a big complex multi-zone and multi-input system of 8,192 zones. All these functions are presented within the main matrix to ensure high quality of audio production required at different ambient environment and large sites.

IDA8C controller supports up to 48 simultaneous audio channels per local network, and is equipped with four remote ports for paging consoles, nine monitored EVAC inputs, eight contact outputs, a fault & a EVAC relay output, and is capable of connecting up to eight monitored amplifiers and two backup amplifiers. Each speaker line is with A/B zone line detection according to BS 5839 part 8. In addition, the IDA8C is capable to monitor and log the status of all the device components in the system.

The ATEÏS local & global network supports redundant loop cabling, back-up amplifier switching/sharing, system unit back-up redundancy in case of the controller or amplifier breaks down. All these features provide the most high level of full-redundancy and offers a complete real-time monitoring to ensure a secured installation. Ethernet communications shall be utilized for software control, configuration and audio distribution.

The system supports flexible use of network cards - CAT5/6 -100m or fiber-optic (multi mode-2 km and single mode-20 km). Each system application shall feature a fully redundant network configuration with less than 0.02 ms latency between units.

PROCESSORS & SLAVE UNITS

CE 12
0359-CDP-0177
0359-CDP-0140

c UL us
LISTED
E341243

IDA8C
Networkable Controller
Matrix Mode

IDA8SL
Networkable Lo-Z Slave Unit
Matrix Mode

Pending
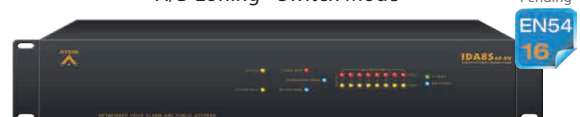
IDA8S
Networkable Slave Unit
Matrix Mode

IDA8C-SW
Networkable Controller
Switch Mode

Pending

IDA8SAB
Networkable Slave Unit
A/B-zoning - Matrix Mode

IDA8SAB-SW
Networkable Slave Unit
A/B-zoning - Switch Mode

Pending

PAGING CONSOLES & ACCESSORIES

PSS-AS
Colour Touch Screen
Paging Console

URC-150AS Programmable Remote Controller
URC-200AS Programmable Remote Controller (Ethernet)

PPM-AS
Desktop
Paging Console

DNM-485 Noise Sensing Microphone (RS485)
DNM-ENET Noise Sensing Microphone (Ethernet)

CD-TOUCHAS
Wall-Mount
Touch Screen Paging Console

CD-8AS/CD-16AS
Wall-Mount
8/16 Buttons Paging Console

DIALER-DP Wired Touch Dialpad
DIALER-DPWL Wireless Dialpad with Transceiver

AMPLIFIERS & BATTERY CHARGERS

SPA *SPA2060/SPA2120/SPA2240*
Security Power Amplifier, 24VDC Backup

SONAES
Charger and Monitored Unit

BPA-1240
Bridging Power Amplifier ClassAB 240W x 1CH

BPA-1480
Bridging Power Amplifier ClassAB 480W x 1CH

BPA-2060
Bridging Power Amplifier ClassAB 60W x 2CH

BPA-2120
Bridging Power Amplifier ClassAB 120W x 2CH

BPA-2240
Bridging Power Amplifier ClassAB 240W x 2CH

BPA-2480
Bridging Power Amplifier ClassAB 480W x 2CH

BPA-1000
Bridging Power Amplifier ClassAB 1000W x 1CH

DPA8060
60W x 8 Digital Power Amplifier

DPA4125
125W x 4 Digital Power Amplifier

DPA4250
250W x 4 Digital Power Amplifier

DPA2500
500W x 2 Digital Power Amplifier

BCU-4830A
Advanced Monitored Battery Charger
3amp/30amp

BCU-4875A
Advanced Monitored Battery Charger
6amp/75amp

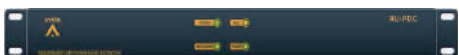# IDA8

REDUNDANCY SWITCHING UNITS

RU-MAIN
Switching unit for digital audio processing
with paging console interface

RU-CTL
Switching unit for secured input and normal contact output
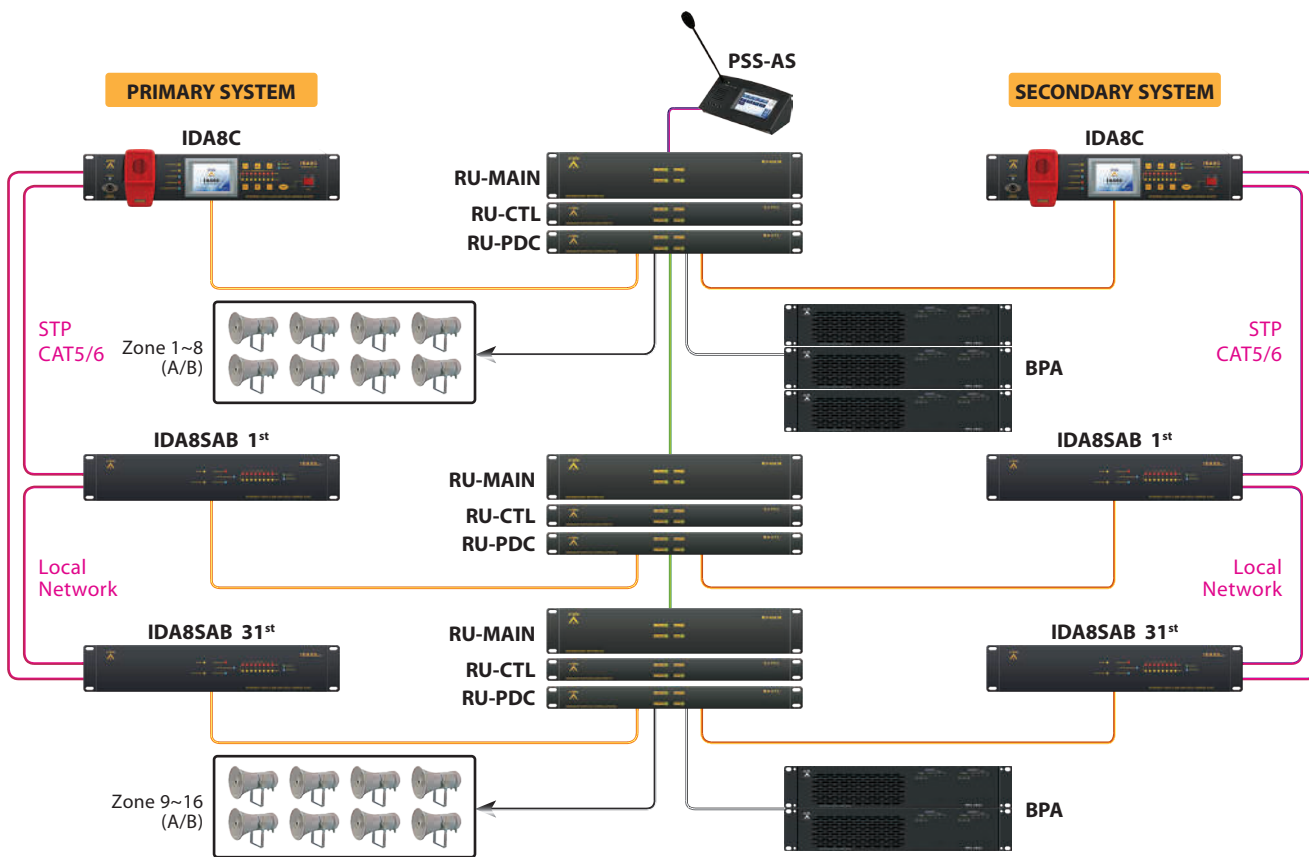
RU-PDC
Switching unit with in/out contacts,
paging console & telephone line interface

The IDA8 RU series are designed to provide the reliability of high level of full-redundancy and offer a complete real-time monitoring. The RU-MAIN is in charge of auto switching to primary/secondary devices and re-operate for IDA8C controller and IDA8SAB slave units.

FULL-REDUNDANCY CONFIGURATION

Full support for 100% redundancy and use of watchdog services guarantees the maximum system availability with immediate switchover of primary to secondary not only by means of active spare amplifiers but also the control equipment. Should any main equipment fails, there's an automatic switchover to the redundant system to ensure uninterrupted operation.

INTEGRATED OPERATION SOFTWARE

ATEÏS Studio software is a graphic user interface designed for intuitive system setup and programming. The PC-based software allows hardware updating, full system configuration including flexible device topology, DSP adjustments, events, schedulers, presets control and real-time monitoring.

GRAPHICAL USER INTERFACE

ATEÏS Studio allows complete PA/VA or audio systems incorporating a range of devices to be configured, monitored and controlled centrally from a single user interface. ATEÏS Studio supports all IP-based products within the ATEÏS product family such as IDA8 PA/VA system, LAP-G2T and ECS audio system. The software enables a comprehensive overview of the system and its virtual connections and also offers control and device configuration for IDA8 controllers and slave units, paging consoles and remotes such as PSS-AS, CD-16AS and URC-150AS devices.

DIAGNOSING

ATEÏS Studio monitors, controls, logs and reports a range of events. The whole system configuration preset can be stored and reloaded at the press of a button. Users can tailor design the elements of the graphic user interface or control panels, as well as program the schedulers and events and create different user levels for security and management.

BUILDING

ATEÏS Studio provides a complete set of tools and building blocks for real-time control and monitoring. Detailed information such as signal levels, loudspeaker impedance, pre-recorded messages, amplifier conditions and other parameters can be monitored in real-time.

A comprehensive library of tools, control and monitoring elements is provided along with the GUI, including items such as volume control faders, metering, high-level EQ, compression, limiting, auto-gain, noise sensing, mixing, shortcut buttons and display elements. Element behavior can be fully tailored to suit each application. Built-in file transfer software transfers both data and audio files from the PC to the network controller.

ACCESS LEVELS

Additional security can be added to the software with password-protected layers according to EN54-16. Multiple users can be created and assigned, each with a unique password and access to specific layers of the GUI.

DRAG & DROP

To design the system configuration including hardware connection, signal paths for each device, DSP components etc., simply Drag & Drop and items/components into the design window, providing easy-to-use and real-time modification.
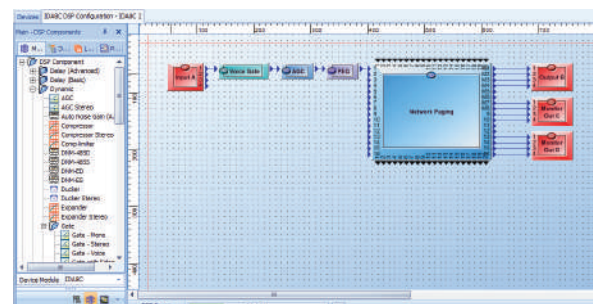
FEATURES

- Runs on Windows
- Assignable access levels with rights management
- All system and unit parameters can be configured
- Easy navigation
- Drag & drop features
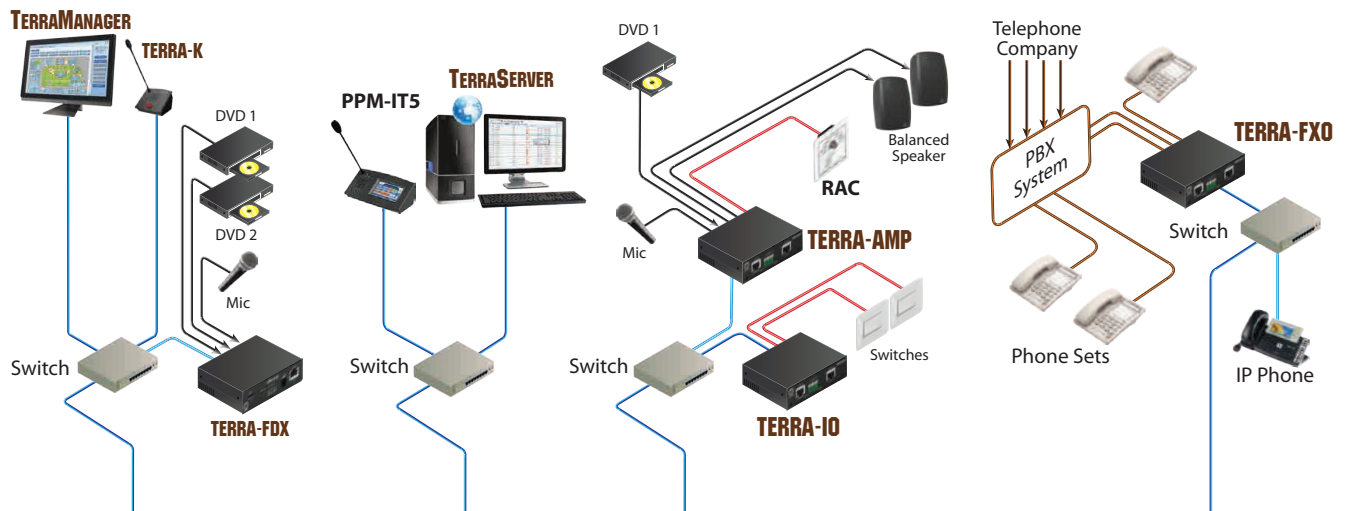- Real-time monitored

DIAGNOSTIC AND LOGGING SOFTWARE

- Call, fault and general event logging
- On-line logging function
- Historical logging
- Event display priority can be changed
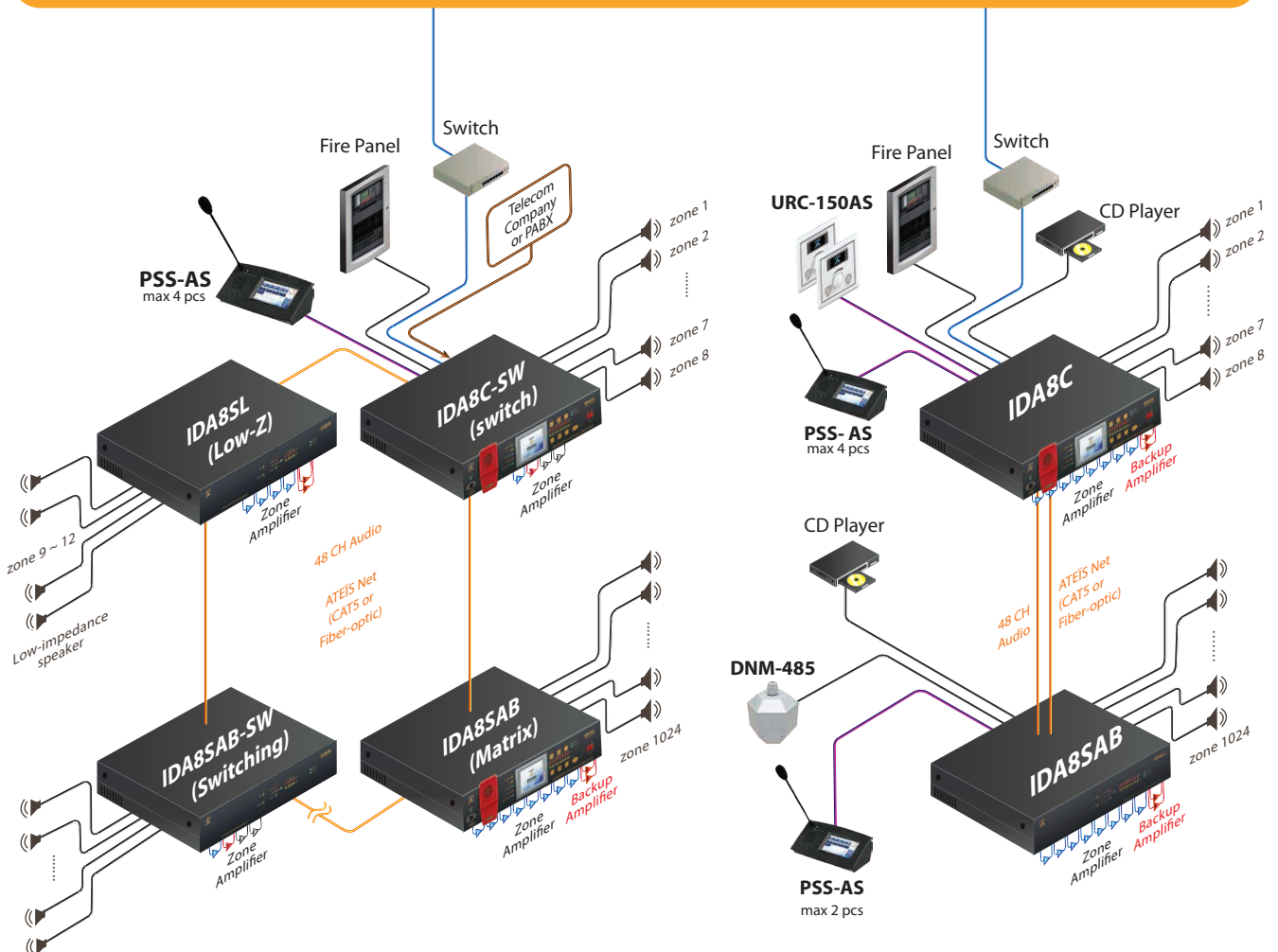- Password-protected

FILE TRANSFER SOFTWARE

- PC-based application
- Supplied together with the network controller
- Creation of message sets
- Off-line configuration

SYSTEM DIAGRAM

TerraManager
TERRA-K
DVD 1
DVD 2
Mic
PPM-IT5
TerraServer
DVD 1
Mic
RAC
Balanced Speaker
TERRA-AMP
Telephone Company
PBX System
TERRA-FXO
Switch
Switch
Switch
Switch
Switches
TERRA-FDX
TERRA-IO
Phone Sets
IP Phone

IP Network over Ethernet & Internet (64K bits per call or 128 bits per stream)

Fire Panel
Switch
Telecom Company or PABX
zone 1
zone 2
zone 7
zone 8
PSS-AS
max 4 pcs
IDA8SL (Low-Z)
IDA8C-SW (switch)
Zone Amplifier
zone 9 ~ 12
Low-impedance speaker
IDA8SAB-SW (Switching)
IDA8SAB (Matrix)
Zone Amplifier
Zone Amplifier
Backup Amplifier
zone 1024
48 CH Audio
ATEIS Net (CAT5 or Fiber-optic)

Fire Panel
Switch
URC-150AS
CD Player
zone 1
zone 2
zone 7
zone 8
PSS-AS
max 4 pcs
IDA8C
Zone Amplifier
Backup Amplifier
CD Player
DNM-485
48 CH Audio
ATEIS Net (CAT5 or Fiber-optic)
IDA8SAB
Zone Amplifier
Backup Amplifier
zone 1024
PSS-AS
max 2 pcs

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PROJECT REFERENCES

FRANCE
- Rolland Garros stadium, Paris
- Air france Roissy Headquarter, Paris
- Stade de France, Paris
- St Exupery Airport, Lyon
- Department Hall, Marseille
- Pharo Cultural Center, Marseille
- Communal Headquarter, Marseille
- Borely Hippodrome, Marseille
- Congress Hall, Dijon
- Beaubourg Museum, Paris
- Nice Cote Sud Airport, Nice
- Bir Hakeim Station Subway, Paris
- Gennevilliers Station Subway, Paris
- Lyon Part Dieu Railway Station, Lyon
- Paris Nord Railway Station, Paris
- Opéra Bastille, Paris
- Futuroscope, Poitiers
- Merignac Airport, Bordeaux

GERMANY
- U-Bahn Nürnberg Railway
- Frankfurt Airport
- Signal Iduna Park Stadium
- Dortmund Stadium

MIDDLE EAST
- The Burj Al Arab Hotel, Dubai
- Jumeirah Beach Hotel, Dubai
- Capital Plaza, Dubai
- Business Bay, Dubai
- Dubai Metro
- Marsa Plaza, Dubai
- Festival City Mall, Dubai

NETHERLANDS
- Central Railway Station, Amsterdam
- The Hague Central Station
- Randstad Railway
- Jaarbeurs Exhibition Center
- Randstad Railway, Central-Western Netherlands
- Offshore Oil & Gas Platforms

SWITZERLAND
- Railway Station, Zürich
- Palexpo, Geneva
- Zürich Airport

UK
- City Airport, London
- Kings Cross Station, London
- Brit Oval Stadium, South London
- Falmer Stadium, Brighton
- Liverpool Cathedral
- St Pancras Railway Station
- Reading Station
- Heathrow Express
- ExCel Exhibition Centre, London
- Eden Project, Cornwall

USA
- U.S. Government and Military
- U.S. Department of State, Washington, DC
- U.S. Department of Energy, Washington, DC
- U.S. Department of Labor, GA
- U.S. Army Fort Hood, TX
- U.S. Army Airborne School, Fort Benning, GA
- Vandenberg Air Force Base, Lompoc, CA
- Otis Air National Guard Base, MA
- Southeast Louisiana Veterans Health Care System, New Orleans, LA
- Bay Area Rapid Transit (BART), Northern CA

APPLICATIONS

U.S. GOVERNMENT

U.S. ARMY FORT HOOD

DUBAI METRO

ZÜRICH RAILWAY STATION

U.S. DEPARTMENT OF STATE

STADE DE FRANCE PARIS

BURJ AL ARAB HOTEL DUBAI

SIGNAL IDUNA PARK GERMANY

U.S. ARMY FT. BENNING

EUROPEAN PARLIAMENT BELGIUM
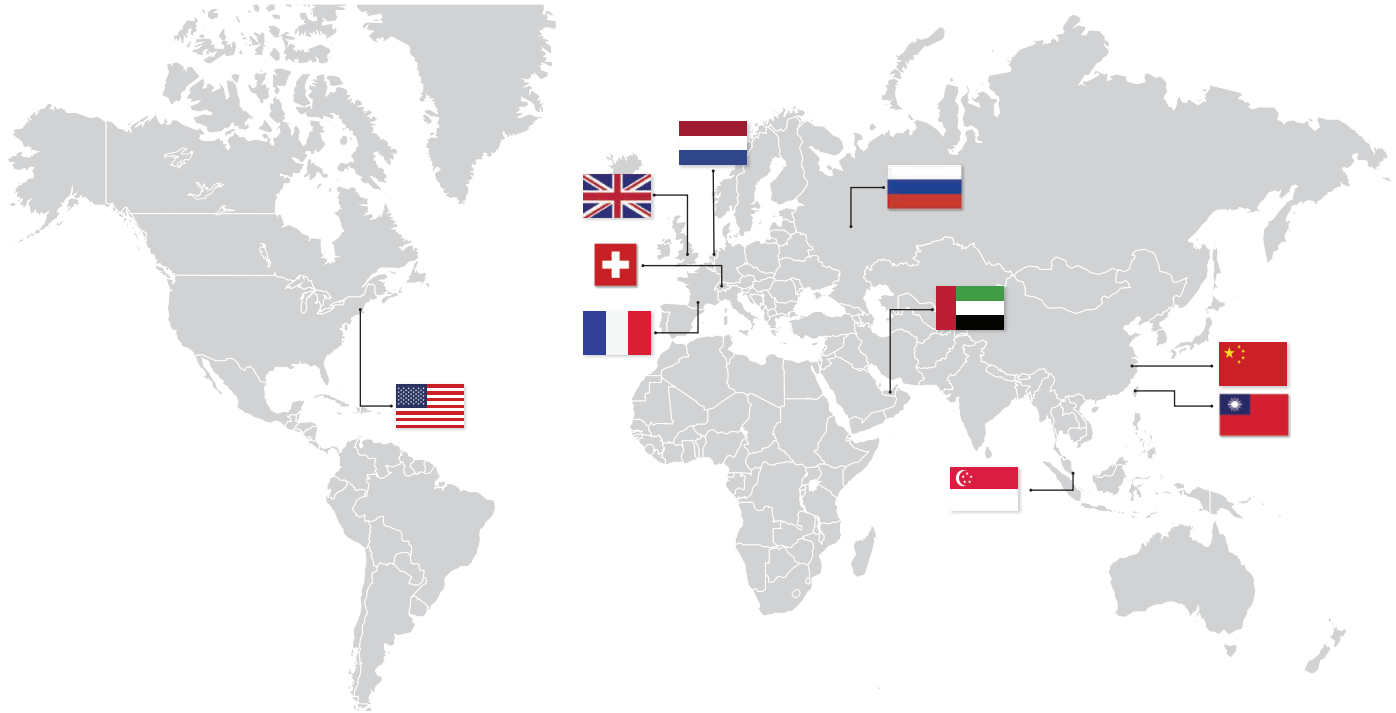

CENTRAL STATION AMSTERDAM

HEATHROW AIRPORT LONDON