



## ENTERPRISE CLOUD

### Control all of your in-store auditory experience from one place

Spottune Enterprise Cloud is based on the newest technologies and enable worldwide control of the sound experience, support, analytics and music distribution of the Spottune System in one or all locations.



#### Control

Distribute and control playlists directly from the cloud to one or all locations. Manage input settings.



#### Support

Get an instant live overview of the transmission quality of your Spottune installations, down to every single speaker. Get notification if changes of settings are locally made or if system is not active.



#### Routines

Automate your customer experience. Schedule volume settings, playlists, start/stop etc.



#### Analytics

Get an overview of your Spottune System installations over time. Get a notification if attention is needed.



#### Sensors

Manage, apply and control sensors like smart buttons, triggers etc.



#### ASL - Auto Sound Level

Control settings for Spottune Automatic Sound Level handling automatic adjustments of volume following ambient noise level at location.

## Technical specifications

**Network communication** Spottune Enterprise Cloud hosted on AWS region Ireland.

Implemented on serverless architecture.

Uses JWKS tokens for authentication and authorization.

Communication with the SPOTTUNE STREAM is always initiated by the stream, so only outgoing

TCP/IP traffic should be enabled on the customer network.

## Management

“HQ users” gain access to a complete overview of all locations including support, general management, playlists, routines etc.

“Location users” users gain access to a specific location with general management of the specific location.

## Supported formats

zip, .ogg, .mp3, .flac, .mp4, .m4a, .wma, .wav, .ra, .rm, .m4b, .aif, .aiff, .aifc, .dsf, Spotify Connect

## MSRP

€120,- /year /location\*

\*Contract is automatically renewed - 3mth cancelation notice.

## Product codes / SKU

C1-L-I

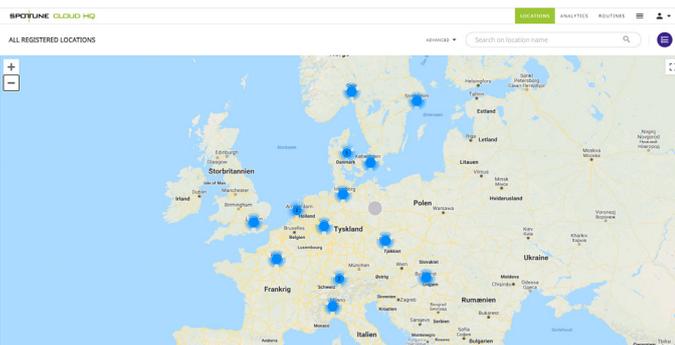
## Cloud UI Preview

Location name	Address	Time Zone	Tags	Stream	Routines	Volume	Source	Status
Teleson	Amsterdam, Netherlands	Europe/Amsterdam	USDA STREET	C,Direct			USB NETWORK	
Supermarket	London, UK	Europe/London	USDA OFFICE	8,Backoffice	MY STORE ROUTINES		NETWORK NETWORK	
CAFE	Berlin, Germany	Europe/Berlin	USDA OFFICE CONNECTION LOSS	8,Front			NETWORK NETWORK	
Restaurant	Copenhagen, Denmark	Europe/Copenhagen	USDA OFFICE CONNECTION LOSS	D,Kitchen			NETWORK NETWORK	
Conference Center	Rome, Metropolitan City of Rome, Italy	Europe/Rome	USDA OFFICE	F,Cloakroom			NETWORK NETWORK	
Retail Store	Paris, France	Europe/Paris	USDA OFFICE	A,Counter			NETWORK NETWORK	
Hotel	New York, NY, USA	America/New_York	USDA OFFICE USDA OFFICE	G,Reception			NETWORK NETWORK	

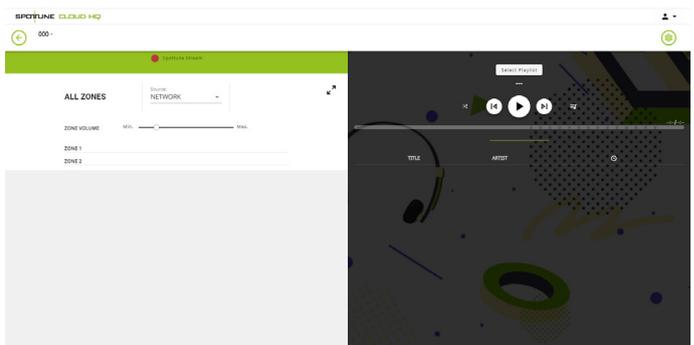
HQ overview - List

Time	Day	Action
06:45	Play in Zone 2	Actions
09:40	Play in Zone 1	Actions
10:05	Play in Zone 1	Actions
19:10	Pause in Zone 1	Actions
20:05	Pause in Zone 1	Actions
22:15	Pause in Zone 2	Actions

Routines



HQ overview - Map



Location Overview

## CLOUD SECURITY

### CONTROL PANE

The SPOTTUNE ENTERPRISE CLOUD solution is deployed on ISO 27018 certified infrastructure provided by AWS. The AWS infrastructure provides access to the resources via a service called IAM. We are using IAM to control what persons and system components have access to other components, to uphold the principle of least privileged access. Internally between the systems communication is done via SSL and with bearer tokens between APIs to ensure authenticity.

Communication with the SPOTTUNE STREAM is always initiated by the stream, so only outgoing TCP and UDP traffic should be enabled on the customer network.

The SPOTTUNE STREAM uses these TCP ports to communicate to the cloud solution:

PORT NAME	PORT NUMBER
HTTP*	TCP/80
HTTPS	TCP/443
MQTT	TCP/1883
MQTT/TLS	TCP/8883
NTP	UDP/123
DNS	UDP/53 TCP/53

\*For user initiated firmware updates only"

### USER PANE

The SPOTTUNE ENTERPRISE CLOUD solution uses AWS Cognito to handle user authentication. When a user is authenticated, the cloud software uses a hierarchal structure to grant access to different subdomains inside the system. This ensures separation of data between customers, as the user will only be able to access data related to the subtree that it is being granted access to and not any other part of the system.

There are 4 levels of access in the SPOTTUNE ENTERPRISE CLOUD system:

TYPE	PRIVILEGES
ADMIN	Access to everything in the system, this is restricted to a handful of persons.
PARTNER	Access to all customers that the partner has established. This is used for 1st level support. This Partner will not be able to access data for other partners
CUSTOMER	Access to information required for the SPOTTUNE ENTERPRISE CLOUD HQ. Costumer will not be able to access data for other customers.
LOCATION	Access to information required for the SPOTTUNE ENTERPRISE CLOUD LOCATION. This Location will not be able to retrieve data for anything but a single location.