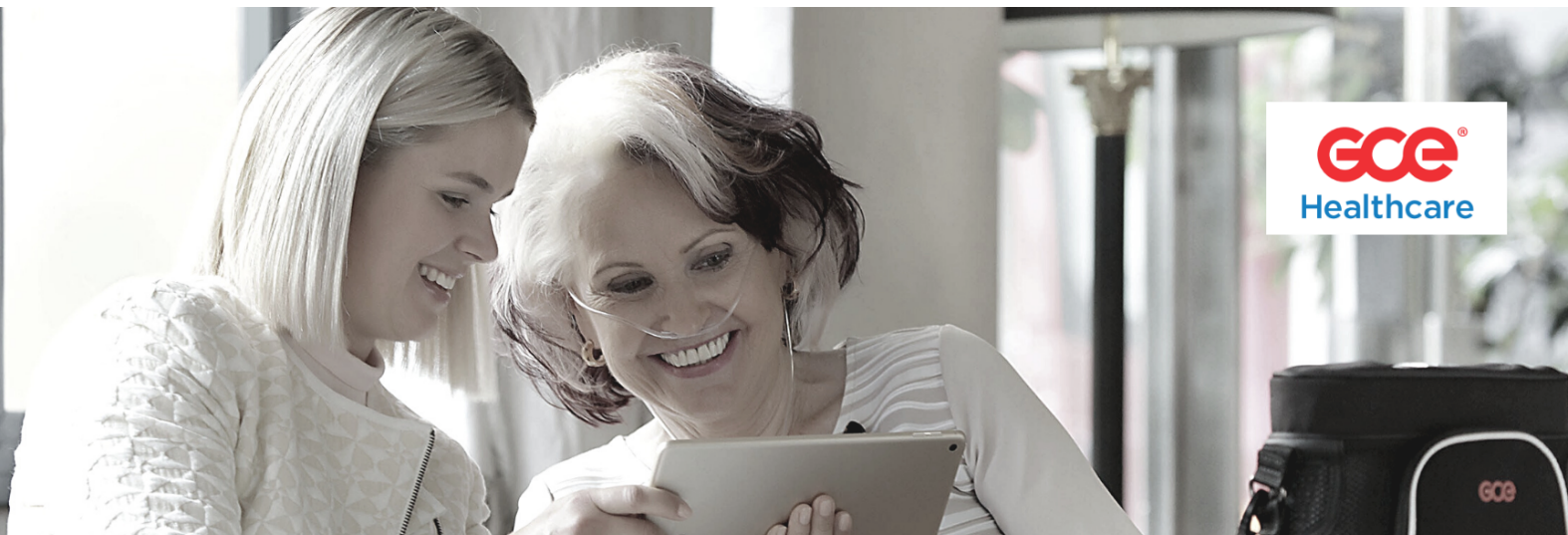


# COMBAIN CUSTOMER USE-CASE STORY: GCE GROUP

GCE Group's Portable Oxygen Concentrators gives patients the freedom to live a more active lifestyle



## GCE Group compliments GPS with Combain Location API to locate their Portable Oxygen Concentrators indoors, outdoors and globally!

GPS is accurate but is it enough? It has no/poor coverage indoors and definitely not battery friendly. World leading gas equipment company, GCE Group quickly responded to this challenge and looked for a better solution to locate their devices accurately indoors and outdoors, seamlessly. After a quick evaluation process, they decided to compliment their GPS with wi-fi and cell-id positioning using Combain Location API which is a cloud-based API for locating connected devices indoor, outdoor and globally.

GCE group is using Combain Location API for their Portable Oxygen Concentrators used by patients that require supplemental oxygen. They use the location API on these medical devices as a fallback solution in case the onboard GPS does not get a fix.



## COMBAIN LOCATION API

A cloud-based API for locating connected things.  
Indoor. Outdoor. Globally.

Combain Location API helps you to locate wireless connected devices. By submitting cell-ids or Wi-Fi MAC addresses in the proximity of a device to this API, it will respond with the geographical coordinates for that device. Thus, complementing or replacing GPS in the device.

- Based on a crowdsourced global database of cell towers and Wi-Fi locations
- Accessed over internet with HTTP
- Secure and Private

## “GPS is not always reliable, especially in very built up areas or indoors”

As Will Turner, Electronic Innovation Engineer at GCE Group says, “Location knowledge enables oxygen service providers, who in this regard are device fleet managers, to monitor and track devices when no longer in use or suspected to be lost. They can also be certain the device is being used in a portable manner and not kept at home where a much lower cost stationary device could be used instead. There is also the medical purpose of ensuring the patient is using the device as intended and being mobile with it i.e. leaving their house and taking exercise. If they are not, their condition will deteriorate more rapidly. We do have GPS on GCE products but we have found it is not always reliable, especially in very built up areas or indoors.”

The GCE Group is Europe’s leading company in the field of gas control and is involved in the development and manufacturing of all types of equipment for pressure and flow control of high pressure gases. GCE’s main business originally concentrated in the oxy-acetylene cutting and welding market. However, with almost 100 years of experience in the handling of high pressure gases, the product range has now grown to include high purity and medical gas equipment.



## “Integrating Combain Location API was fairly easy and quite brisk”

Another question we had was about the integration process. GCE Group is using Gemalto M2M modems and **Gemalto** has integrated Combain Location API to these modems. Therefore, it is so easy to use the positioning solution which is enabled and used by simple AT commands. Will Turner describes the process fairly easy and quite brisk. “The Gemalto modem is a very capable device and this service helps build on that capability with minimal extra development.”

It has been very exciting to hear about GCE Group’s Combain experience. If you would like to be featured in the next newsletter, please contact us via [support@combain.com](mailto:support@combain.com)

