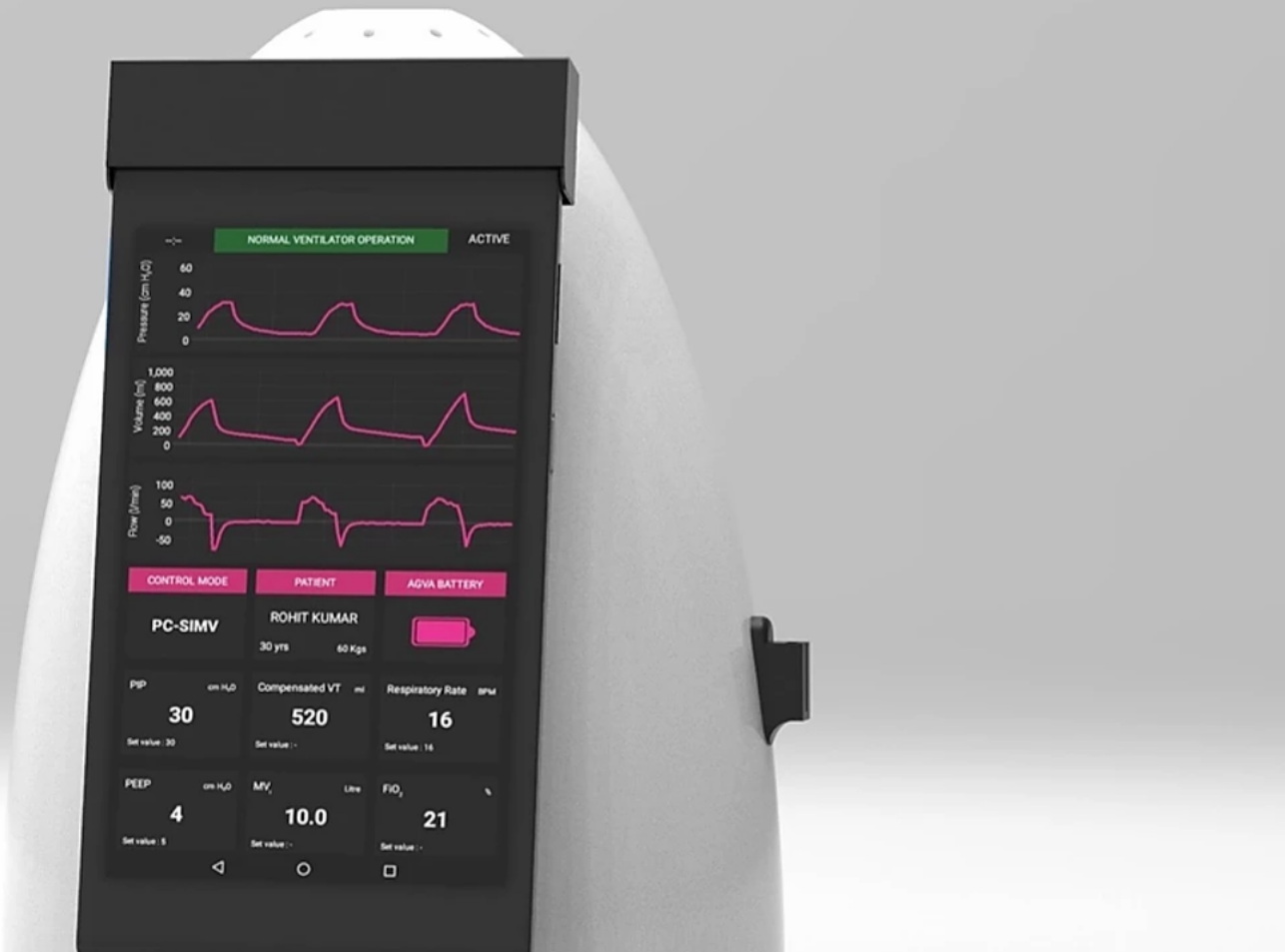


Scalefusion helped Lenovo in provisioning and securing ventilator-mounted tablets for AgVa Healthcare



AgVa

Industry
Healthcare

Platforms:


Deployment Scenario:
Kiosk

About the Company

AgVa healthcare is a ventilator manufacturing company that is a pioneer in manufacturing affordable ventilators that are incremental in equipping COVID-19 ICUs. AgVa takes pride in being a ‘Make in India’ product and is designed to suit the needs of Indian healthcare systems and hospitals. Its ventilators are simple to set up and control, have 3 hours of battery backup and are energy efficient. The AgVa ventilators are fit with Lenovo tablets that display vital information fed from the ventilator making patient monitoring easy for healthcare providers. The ventilators are completely controllable using the multi-touch interface and gestures and settings of the ventilator can be swiftly changed using the virtual knob.

Challenges

The challenges in this use case were several, given the criticality of operation.

- The Lenovo tablets mounted on AgVa hardware were to be configured in kiosk mode only running the single application that displays patient vitals obtained from the ventilator. This app displays the patient parameters in the form of graphs and charts.
- Mass enrolment of the tablets to scale-up the operations since demand was high.
- The tablet display should be auto-turned on and off when the ventilator is on and off respectively.
- Remotely configuring the hotspot.
- The AgVa app is a private app and hence needs to be deployed via a private app store to be able to keep a track of multiple versions and updates.
- The tablet should never go in a sleep mode when the ventilator is on.
- The AgVa monitoring app needs to be remotely updated to the latest version.
- The SIM Data was limited and hence needs to be only used by the AgVa app or the ventilator itself.
- Quick and easy remote troubleshooting

Key Results

Working with Scalefusion has aided AgVa healthcare in powering the Lenovo tablets mounted over the ventilators to maintain operational efficiency in the critical healthcare environment.

Business Goal

The Lenovo tablets fit on AgVa ventilators are custom-made devices powered with the technological genius of Lenovo. These highly durable Android tablets have long battery life, bright and clear displays and exhibit stellar performance irrespective of the use-case. Coupled with AgVa ventilator hardware, the Lenovo tablets live up to the expectations in critical use-cases and aid in extending a complete package for ICU ventilators. The Ventilator hardware has a 1st generation IoT base with a built-in Wi-Fi chip for connecting to the internet. Maintaining the performance of the AgVa ventilators, extending security for the patient data and offering optimum performance are the primary business goals. The Lenovo tablets are powered by SIM and the internet data on the same has to be provided to the ventilator hardware via Wi-Fi hotspot, which is facilitated by OEM-level configuration.

Solution

Scalefusion stepped in for this unique use-case. By driving OEM partnership with Lenovo, Scalefusion helps in managing the Lenovo tablets coupled with the AgVa ventilator hardware.

Following were the solutions implemented for AgVa healthcare ventilators powered by Lenovo Tablets:

- Single app kiosk mode to block all other apps except the Ventilator Monitoring app.
- Private App Store to maintain multiple versions of the Ventilator Monitoring app to keep a track of updates.
- Silent app installation and updates for Ventilator Monitoring app.
- Remote Cast + VoIP calling for remote troubleshooting.
- Disabling hardware buttons such as power buttons, recent app volume keys.
- Customization with OEM partnership for enabling settings such as auto-screen on-off when power is turned on-off, hotspot turn on-off, hotspot configurations, USB charging detection.
- Disabling Factory Reset, Hard Reset, Power Off & Airplane Mode.

About Scalefusion



Scalefusion MDM allows organizations to secure & manage endpoints including smartphones, tablets, laptops, rugged devices, POS, and digital signages, along with apps and content. It supports the management of Android, iOS, macOS and Windows 10 devices and ensures streamlined device management operations with Remote Troubleshooting.

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