

emocha Mobile Health Inc. (dba Scene)  
Sole Source Justification  
August 2023

Sole Supplier of Software: Scene's technology is proprietary and Scene owns exclusive rights to all intellectual property associated with the video Directly Observed Therapy software. This includes patents, trademarks, and know-how licensed exclusively from Johns Hopkins University. No other entity can provide licenses to, or maintain and support the Scene software.

Scene vs Other Asynchronous technology

In comparison to other asynchronous technologies, Scene offers a much broader range of features, services, and applications. The application is available on Android, iOS, and tablet devices and the entire application, inclusive of side effects, is available in 22 languages to cater to foreign-born populations. Providers can also customize the list of side effects they want to capture and set up SMS and/or email alerts for critical events. Scene's customizable notifications can also send daily medication reminders and provider reports. The platform is disease-agnostic and has been used to monitor HIV, HIV prevention, HCV, MDR-TB, LTBI, opioid use disorder, maternal health, diabetes, and symptoms of highly-infectious diseases such as Ebola and Covid-19. In addition, Scene offers a comprehensive Communications Module, which allows HIPAA-compliant messaging in various formats between health departments and patients. Scene is the only asynchronous platform that also offers live-stream DOT and an option for video review as a service..

Scene vs Live Stream Video Only

Scene's platform includes a native mobile application that functions using "store and forward" methodology. This is different from a live-stream video connection. The platform consists of a patient-facing mobile application, provider-facing web portal, and provider-facing mobile application. Scene is asynchronous, which means patients and providers complete their parts of DOT on their own schedule. The patient can take their medication at any time of day, outside of regular business hours if needed, or on weekends, and the provider can review the video anytime thereafter. This allows patients to sleep off common, negative side effects such as nausea if they prefer to take their medication at night or cannot meet in-person DOT scheduling requirements. Unlike live video, a strong internet connection and/or cellular data is not needed for asynchronous video DOT. With asynchronous video DOT, the patient can record videos while offline and securely upload them once connected to data or WiFi. Videos are date and time stamped for when patients actually record videos, even if they don't access connectivity for several days or are in different geographic areas from the health department. This functionality is crucial for rural settings that usually have limited connectivity options, and it also allows patients to continue their regimen while traveling. For these reasons, Scene offers advantages to live stream services, many of which are not HIPAA-secure. Note, Scene also offers a HIPAA-compliant live-Stream module to further enhance it's leading asynchronous capabilities.

### Ability to add other Scene Applications for Outbreak monitoring and Linkage to Care

Scene facilitates more than video DOT: it is a population management solution that allows providers to analyze data and trends on a patient and population-levels. Furthermore, video DOT is just one application on the Scene platform with other applications, such as Outbreak Symptoms Monitoring (OSM) and Linkage to Care modules, are able to be deployed rapidly. The outbreak symptoms monitoring application has been used to monitor members of the public and healthcare workers who have been exposed to highly infectious diseases such as Measles, MERS, Avian Flu, COVID-19, and Ebola. Existing Scene customers have extended their video DOT monitoring to include Measles, diabetes, and COVID-19 symptoms monitoring in addition to TB.

### Unique Provider-Facing Modules

**Care Team Application:** a one-of-a-kind companion mobile application to enhance in-person DOT and harmonize data captured across various DOT modalities, such as in the field, in the clinic, or over livestream video. This healthcare worker-facing app allows users to view patient information (like medication regimen, adherence, and date of birth), asynchronously log DOT visits, call or message patients, and get directions to their home address or wherever the DOT takes place. This information is also available to view in real-time on the Scene web portal as work happens in the field. The application can be used in the field without any web or data connectivity.

**Synchronous (“live stream”) Video DOT:** Scene is the only video DOT platform that offers both synchronous and asynchronous vDOT options. Now, through the same vDOT platform, care team members at health departments have the option to engage patients using HIPAA-compliant live-stream, in addition to asynchronous communications.

**Appointments Module:** One of Scene’s features includes the ability to schedule appointments with patients, directly through the platform. Both patients and care team users receive notifications. Scene will provide this at no additional cost to the System Agency.

**Video Back:** Scene is the only company that enables care team members to send patients back videos of themselves, offering guidance on adherence-related challenges or motivational messages. Scene will provide this at no additional cost to the System Agency.

**Medication-Specific Adherence:** care team can confirm adherence of each dose of medication on a patient's submission and see analytics at the medication level. Each medication is assessed separately so that adherence rates are medication specific. At the same time, Scene allows a dose counter to calculate the number of doses administered, independent of the medication-specific counter.

**Recording Dosing History:** a history of the patient's medication regimens and dosing is available on the interface and patients are able to see their medication dosing on the mobile application before they submit a video.

**Report Generation:** ability to create regular, real-time customizable data exports at patient and population levels (.csv and/or .pdf).

**Analytics:** ability to visualize and export data at both population and patient-specific levels. Analytics pages are configurable and dynamic.

**Platform Modularity:** additional features, such as HIPAA-secure in app chat, outbreak monitoring, and linkage to care modules are available to be added if needed to the same platform.

**Multi-disease Use:** proven previous experience with monitoring patients with diseases including but not limited to monitoring for TB, HIV (for ART and PrEP), HCV, MDR-TB.

**24-hour Support Portal:** providers and patients are able to access a secure online portal to report any technical issues, access information on frequently asked questions, and access step-by-step training videos on each part of the platform.

**Pause a Patient:** should a patient need to stop taking his/her medication while dosing adjustments are made, Scene has the unique ability to retroactively "pause" a patient during treatment to ensure it does not affect their adherence or progress in treatment.

**Medication-by-medication adherence capture:** care team users can identify adherence on a medication by medication level per anticipated daily submission.

**Two-Way Secure Chat:** care team users can securely text with patients from the web interface to the patient application in a secure, HIPAA-compliant, way.

**Hold Medications:** providers can select to hold an entire medication regimen, or an individual medication, during the course of treatment. The action will be dated, tracked, and changes appear on the patient-facing mobile application.

**Regimen Count:** providers have easy visibility into the remaining days of a patient's regimen to allow for proactive adjustments to care plans.

**Regimen Template:** care team users can rapidly enroll patients using templated medication regimens to more efficiently manage their patient population.

#### Unique Patient-Facing Application Features

**Multi-Language Support:** the application language can be changed in seconds to meet the literacy needs of a patient. New languages can be added upon request. Currently, 23 languages are implemented and available.

**Multi-User Login Per Device:** patient data is tied to a patient username, allowing for multiple patients to share a device and keep data securely stored separately.

**Multiple Login Methods:** patients can access the application using a username and password, 4-digit pin, face ID, or thumbprint, depending on their device.

**In-app Progress Calendar:** patients can view progress, adherence rate, and video submission status throughout treatment.

**Configurable Medication Reminders:** patient can adjust the timing and method (SMS and/or in-app notification) in which they receive medication reminders.

**In-app Asynchronous Symptoms/Side Effects Reporting:** as part of the submission workflow a patient can select the presence of symptoms/side effects from a configurable list. If a Selection is made the care team will receive an alert and can react accordingly. The detailed data is automatically reflected on the web interface and patient record.

**Patient Password Reset Workflow:** a patient has the ability to request a new security password, at their convenience, without engaging the health department.

#### Additional Scene Services

**Electronic Medical Record Integration:** Scene's technology integration team includes four engineers with over 60 years of collective EMR integration experience.

**Video Review Service:** Typically, health departments review videos submitted by patients. At times of unexpected staff shortages, Scene is able to step in and provide the service of video review by a certified health professional. Critical information is triaged back to local health departments. For the State of Texas, our program is overseen by a Nurse specialized in TB, who was previously employed by a Texas county.

**Dedicated, In-house Technology and Support Team:** Scene's software engineering and support team is based on-shore and employed full time by Scene. Scene does not rely solely on offshore, independently contracted, or part-time support personnel. This allows Scene to offer immediate responses to issues which may arise during US business hours. It also allows Scene to provide long-term sustainability of its platform.

**Single Sign-On (SSO):** Scene offers integration services to provide care team users added security and convenience of SSO based on their institutions access standards.