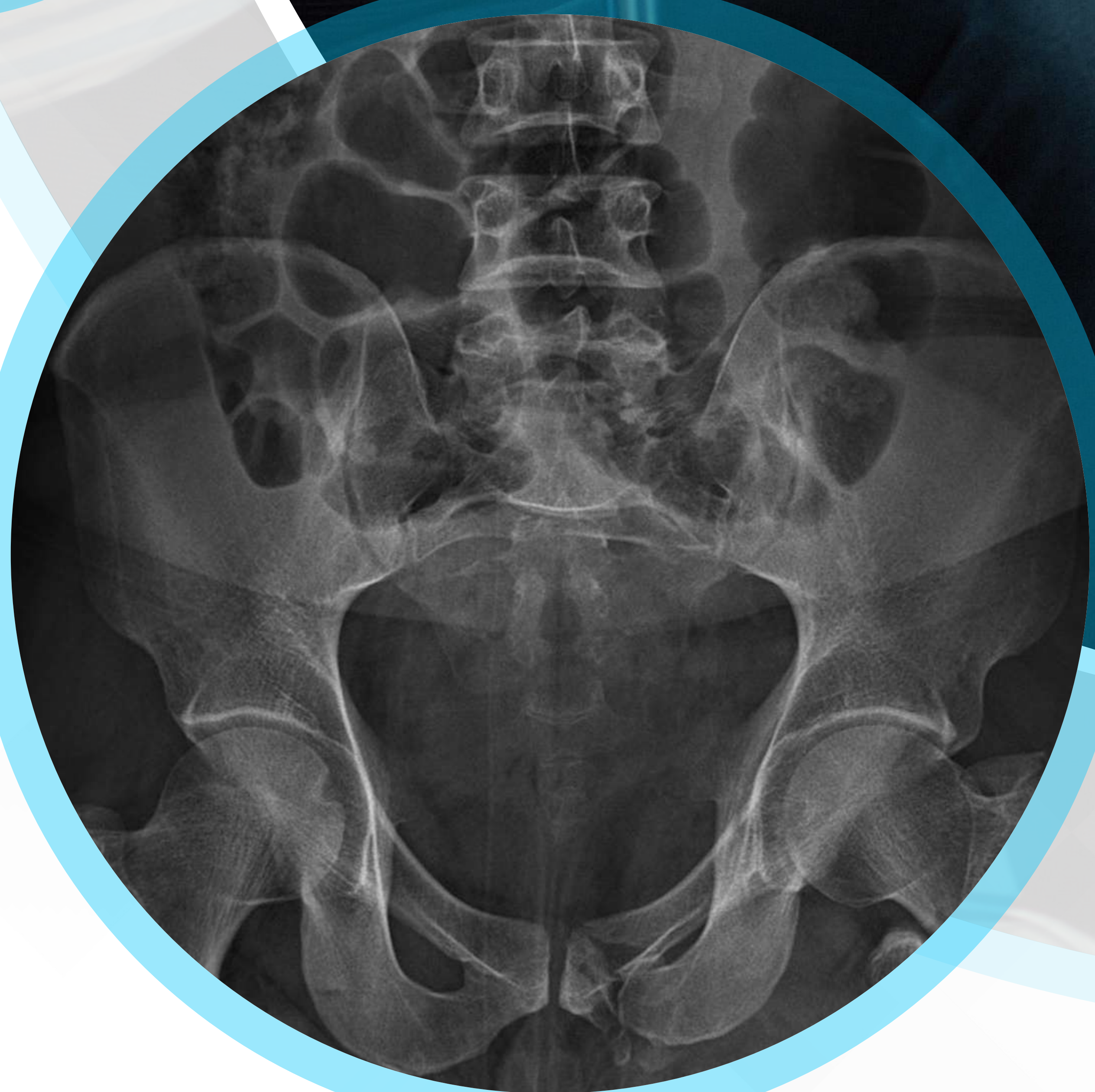


OSP



EPIC **EHR** Integration
to Medical **IMAGING** Device

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INTRODUCTION



Healthcare organizations' rapid adoption of EHRs has resolved several data capture and storage issues. With clinicians having quick access to patient health data, they can speed up operations and make quick decisions.

Real-time data capturing via EHR is still a challenge.

Telehealth, RPM, and medical devices are major storehouses of meaningful clinical data. Healthcare professionals today depend on these technologies, especially medical devices, to capture data. EHR-integrated systems can accommodate real-time data and help clinicians. EHR integration in medical devices or healthcare solutions is beneficial.

Find out here one of our clients improved their services with EHR integration.

CHALLENGES



A Canada-based senior care platform and medical imaging device manufacturer approached OSP. Nurses can use their medical imaging scanning devices to scan the right heel, left heel, and sacrum region, and the data is collected in the client gateway.

Adding the scanned patient data in EHR followed a manual, time-consuming, and error-prone process. The client wanted to replace the manual system through secure EHR integration and automatically send the patient data from the client gateway to EPIC EHR.

The EPIC EHR has defined parameters for the vital data and has a fixed amount of patient vitals that can be added. So, the data scans collected were not considered vital data. We needed to solve this challenge to help both systems to share patient data seamlessly.

SOLUTION

Understanding the client's requirements, OSP sketched out a solution to help automate this process. OSP first analyzed the client's web-based Gateway that collected the medical imaging data and proposed a simple yet effective script for EHR integration through API.

STEP

01

We started working on creating an app for both EPIC EHR and the client to share the data.

STEP

02

The app lists subscriber organizations with a unique configuration file, including detailed information about the care facility, branches, patients, MRN, primary information, and patient IDs.



Source : bruinbiometrics.com

SOLUTION



STEP 03

The scanned data by a nurse will be collected at the client gateway. The Gateway will post the scanner JSON data to the custom script made by our team.

STEP 04

OSP built API for the client gateway to initiate the push request to send the data through a custom script.

STEP 05

The data is rebuilt and reformed, and it has 2-legged authentication.

STEP 06

The data is further processed toward either the Patient ID or MRN provided by the organization.

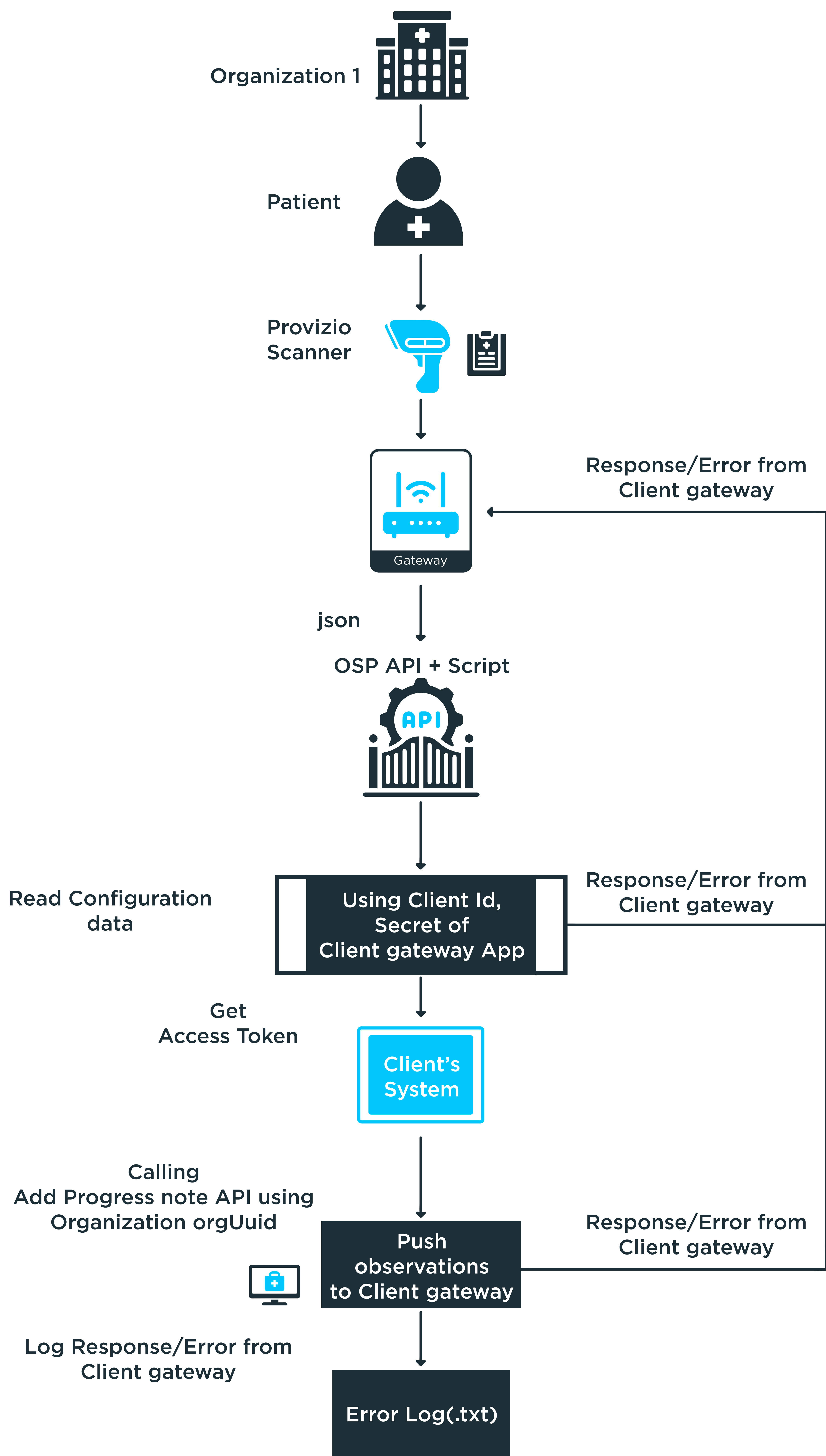
STEP 07

If the organization provides MRN, then the patient ID is identified through automation.

STEP 08

Once the patient ID is verified, the data is added to their respective EHR, and the client gateway is notified with the progress note.

SOLUTION



RESULT



With this EHR integration in the client's medical scanner, the transfer of vital health data became super-easy, faster, and more efficient without inaccuracies.

This medical device integration with EHR helped care decision-makers avoid the manual process and focus more on patient care.

The secure transfer of patients' vital data was made possible with a custom API and script with a seamless EHR integration. Apart from EPIC, a few more EHR will soon be integrated with the client gateway.



OSP brings over a decade of experience in software development to help our clients realize their vision and achieve their goals. We offer market-leading support at every stage of the development lifecycle, right from conception to the architectural framework, and all the way through to testing and delivery. Whether it's complete end-to-end development support, or certain specific resources to grow your capacity, OSP will provide at every level.

Our extensive knowledge of multiple domains helps us in understanding your needs and charting a roadmap to help build your product and achieve scale for it.

By harnessing the latest technology, OSP empowers your organization to serve its customers better and establish a foothold over your market.

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