



*Accelerating  
the digital transformation  
of the health sector  
in the Americas*

# ALL-IN-ONE

Fact Sheet

**PAHO**



Pan American  
Health  
Organization



World Health  
Organization

Americas Region



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# 1. Description

All In One Platform is a Telehealth and Clinical Record solution based on free and open-source software (FOOS) to be shared by PAHO as a Digital Public Good.

This solution is a combination of the electronic clinical record system OpenEMR (<https://www.open-emr.org>) and the creation of different modules with the focus on Telehealth enablement.

To provide a baseline for telehealth, a video-encounter module based on the open-source video-conferencing technology Jitsi (<https://www.jitsi.org>), has been developed to support video-encounter clinical information.

The solution was designed as a scalable platform with independent modules that can be implemented separately and integrated into the country's existing system.

As a core system for electronic clinical record management including the scheduling management, patient index and structured clinical documents like SOAP and vital signs register, the platform is based on OpenEMR.

The solution integrates other modules such as the telehealth component that allows remote connection between health providers and patients with a clinical notes register and the capacity to exchange attached documents and the integration of the ICD-11 API for health problems registration according to the International Classification of Diseases revision 11th, by the World Health Organization.





## 2. Architecture

All in One Platform have the following independent modules:

- **Clinical Record Module** based on OpenEMR that allows the administration of user profiles, patient management, appointment management, clinical notes and other structured clinical forms, and problem management with ICD-11 coding.
- **Telehealth Module** based on Jitsi that allows teleconsultations, file sharing between providers and patients, and registration of clinical notes. The data recorded in the virtual encounter can be shared with the Clinical Record Module or any other system through an API.

When a “telemedicine” type appointment is booked, the Clinical Record Module communicates with the Telehealth Module through the platform user interface, which records the virtual encounter data and generates a set of secret URLs for the admission of the provider and the patient.

When certain events occur, such as the connection of the professional, the patient, or the end of the virtual encounter; the medical history allows the professional to record all the details of the encounter. The data recorded are the connection times, the medical notes, chats and the sharing files.





## 3. Technical features

The platform has the following features:

- 100% FOSS software.
- Software compatible with PHP 8.3 and higher.
- Medical history platform based on OpenEMR 8.X.
- Telehealth platform based on Jitsi.
- Standalone docker-compose compatible modules for quick and easy deployment.
- ICD-11 API – Configured for local integration.



## 4. Installation Requirements

- At least a 2-core server or 4-core VPS with 2 GB of RAM and 25 GB of disk space is required.
- Variable requirements according to the number of concurrent users and the provider's terms of service.
- If a single server is used, it is recommended to use docker to isolate the modules.
- It is also recommended to have a manageable domain to be able to assign a subdomain to each component of the software.
- For the proper integration with the Jitsi engine for the Teleconsultation process, it is required to have SSL certificates installed and configured at the server level.





## 5. Reference documentation

Official OpenEMR Documentation

[https://www.open-emr.org/wiki/index.php/OpenEMR\\_Wiki\\_Home\\_Page](https://www.open-emr.org/wiki/index.php/OpenEMR_Wiki_Home_Page)

Official Jitsi Documentation

<https://jitsi.github.io/handbook/docs/intro/>

PAIO Platform Repository

<https://github.com/diazjuan/paio-openemr>

PAIO Telehealth Module Repository

[https://github.com/diazjuan/paho\\_jitsi\\_televisit\\_module](https://github.com/diazjuan/paho_jitsi_televisit_module)

PAIO Translations Module Repository

[https://github.com/diazjuan/paho\\_openemr\\_translations](https://github.com/diazjuan/paho_openemr_translations)

PAIO ICD-11 Module Repository

[https://github.com/diazjuan/paho\\_openemr\\_icd\\_11](https://github.com/diazjuan/paho_openemr_icd_11)

PAIO Login Theme Module Repository

[https://github.com/diazjuan/paio\\_login\\_theme](https://github.com/diazjuan/paio_login_theme)



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