

External EMR-eWitness Integration

Process, IDs, and Data Management

The purpose of this document is to provide all parties involved in the sales process with a clear understanding of how the integration between the hospital's EMR system and eWitness operates.

It outlines the key steps in the data exchange process, explains which system is responsible for creating or using specific identifiers (IDs), and illustrates how patient, couple, and treatment information is managed throughout the workflow.

By sharing this overview early in the sales phase, we aim to ensure transparency, alignment of expectations, and efficient collaboration between all stakeholders.

Responsibilities

To avoid misunderstandings and to clearly define the responsibility for the EMR connection:

Vitrolife enables the clinic's EMR system to be connected to the eWitness application. The clinic pays a one-time setup fee as well as an annual service fee for this integration. Vitrolife will support the clinic throughout the process and provide the necessary information to the EMR supplier to facilitate the connection.

It is important to note that the responsibility for initiating and coordinating the actual implementation of the integration lies with the clinic itself.

Change Requests

Any necessary modifications, enhancements, or new functionalities related to this integration will follow our change request process and can only be covered when mentioned early in the sales process.

Requests will be logged in our internal development backlog and prioritized based on impact, complexity, and resource availability.

All approved changes will be investigated and, if feasible, implemented at an additional cost.

Delivery timelines may vary depending on workload and development capacity.

Overview with IDs and Responsibilities

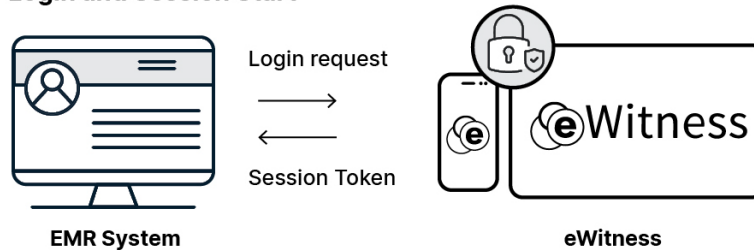
Triggering and the associated workflow are defined by the external EMR. There is no universal rule across EMRs: the external EMR may implement a one-time trigger once the OPU date is known, or it may be configured to trigger automatically once a date is established.

eWitness integration requires only that the external EMR transmits the relevant information via the API; we do not determine, influence, or modify the triggering logic. For the exact behavior in a given deployment, please consult the external EMR's documentation or contact their support.

The following diagrams show how data flows between two systems:

- EMR system (hospital system) → requests and sends data.
- eWitness manages and stores medical data and generates unique IDs.

Login and Session Start

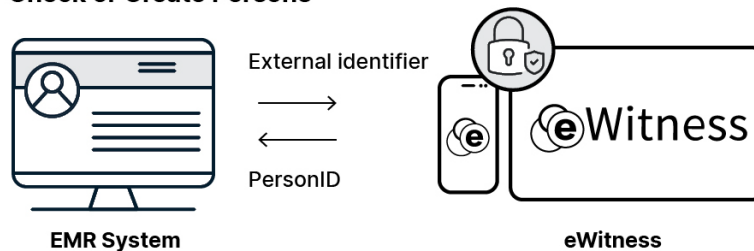


Who does what:

- EMR** → Sends login request (username + password)
- eWitness** → Returns a Session Token (Digital Key)

The Session Token is created by eWitness and used by the EMR for all following actions.

Check or Create Persons



Who does what:

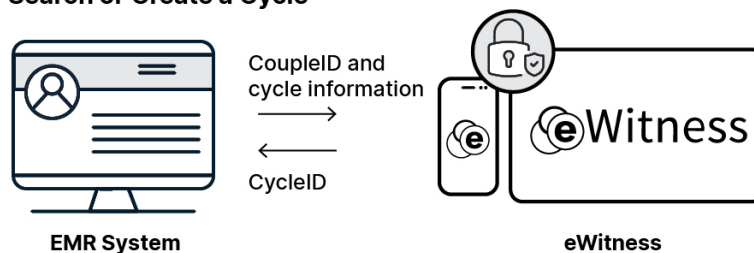
- EMR** → Sends external identifier
- eWitness** → Checks if this person already exists

Result:

- If the person exist → eWitness returns a PersonID
- If not → eWitness creates a new person and returns a PersonID.

The PersonID is created by eWitness and stores the EMR's external identifier for future use.

Search or Create a Cycle

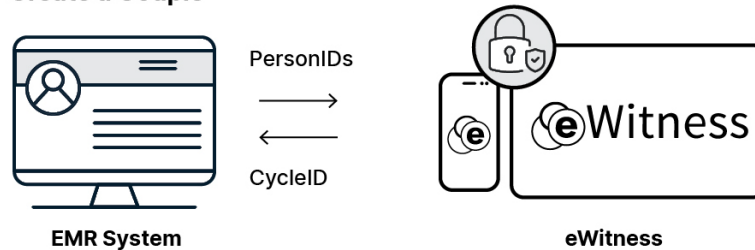


Who does what:

- EMR** → Sends the CoupleID and cycle information
- eWitness** → Searches if the cycle already exists, creates a new one if needed, and returns CycleID.

The CycleID is created by eWitness and used by the EMR for updates or reports.

Create a Couple



Who does what:

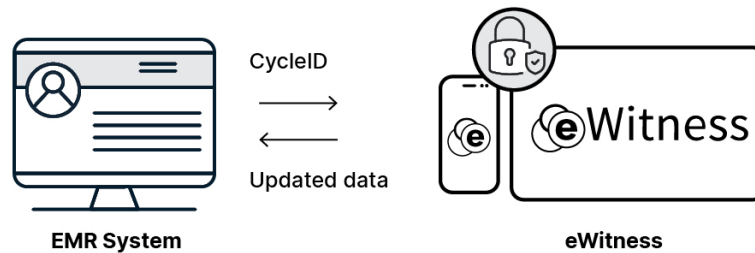
EMR → Sends both PersonIDs to eWitness.

eWitness → Creates a new couple and returns a CoupleID.

The CoupleID is created by eWitness and used by the EMR in later steps.

Update Cycle

If new information (e.g, lab results) becomes available, the cycle is updated.



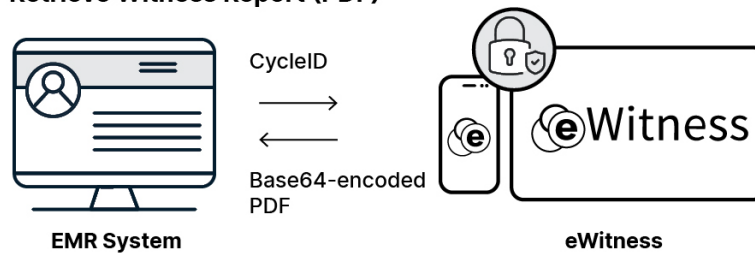
Who does what:

EMR → Sends the CycleID and updated data

eWitness → Updates the existing cycle record

No new ID – the existing CycleID remains valid.

Retrieve Witness Report (PDF)



Who does what:

EMR → Sends the CycleID to specify which cycle to report on.

eWitness → Generates and returns a base64-encoded PDF report.

The PDF report is created by eWitness and downloaded by the EMR.