



PROVIZIO® SEM SCANNER

Gateway Dashboard electronic medical record (EMR) integration guide

Purpose of the document

This document provides information about Provizio SEM Scanner SEM delta (Δ) value integration with PointClickCare[®] and Epic EMR. It identifies the approach taken and target destination of the SEM delta (Δ) values.

Please refer to the Provizio SEM Scanner User Manual or the Gateway User Manual for more information – available at www.sem-scanner.com.

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PointClickCare®

Integration Guide for IT Setup

EMR integration for SEM delta (Δ) values requires the following technology components:

- WiFi Connectivity for the Scanners
- IT Services for:
 - Windows Server for Gateway Software
 - Windows Server for SQL
 - Windows Server for MIRTH (HL7/FHIR)
 - PCC Interface Software

Approach

The approach for integrating with PCC EMR is through the PCC marketplace integration platform. The platform provides a development sandbox where the test application was developed using the PCC API, identified by the PCC technical resources. The final application interface has been approved by the PCC technical committee and is now available on PointClickCare® Marketplace at marketplace.pointclickcare.com.

Integration points

In principle, the solution will continue to utilise the Provizio SEM Scanner and the Gateway Dashboard installation as a middle ware. The Gateway Dashboard routes the received SEM delta (Δ) values to the MIRTH interface engine. MIRTH uses a specific channel and solution to send the values to PCC EMR.

PCC EMR receives and displays the values as Resident's Progress Notes with raised SEM delta (Δ) values clearly marked as "Raised Delta".

Customer approval process

PCC Customers should register their interest in the integration application on the PCC Marketplace. Arjo support will be notified via a dedicated email address (support.gateway@arjo.com) which is received by the Arjo IT solution integration team. Arjo will verify the customer information and "approve" the application integration.

Once approved on Marketplace, a unique customer key is created that is then used to configure the Gateway-PCC integration for that specific customer. PCC Customers will not be able to send data to PCC without this approved customer key from the PCC Marketplace.

After customer approval

Depending on the situation, there may be two scenarios:

1. Gateway has already been installed and MIRTH Engine interface is established – the Installer utilises the unique customer key to enable SEM delta (Δ) values to flow to PCC – communicating as usual with Customer IT.
2. No installation has been commenced and therefore the usual Gateway installation process needs to be completed – communicating as usual with Customer IT.

*Integration of Gateway with PCC is only available in the US and Canada

Data Upload and Management Healthcare Practitioner Guide



Identify resident or patient ID by scanning their bar code, or by keying in their ID manually.



After scanning their sacrum and heels, place the device into the charging hub.



WiFi initiates: Data is automatically uploaded to the Gateway Dashboard.



Data is automatically transferred to individual patient EMR.

Figure 1

The workflow starts by scanning the resident's/patient's heels and sacrum using the bar code or manual resident entry ID options. Once the scanning session is complete (or multiple resident/patient scanning sessions) place the device in the

charging hub to upload the data to the Gateway Dashboard via the established WiFi connection. The data will transfer rapidly, automatically, and securely from the Gateway Dashboard to the EMR platform (Figure 1).

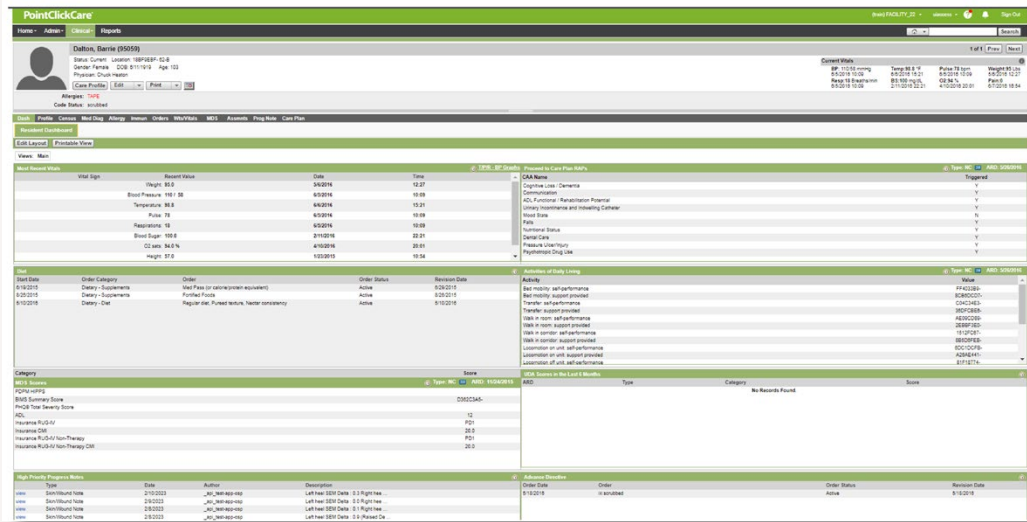


Figure 2: PCC interface showing automatically logged Patient SEM delta (Δ) values*

SEM delta (Δ) values will be located in Progress Notes under Skin/Wound Note (Figure 2) and will be detailed by anatomical location scanned. It is important to note that a raised delta (Δ) value will be identified by “Raised Delta” text after the delta

value. This means that the anatomical location is at increased risk of pressure injury and preventive interventions should be considered or altered. (Figure 3)

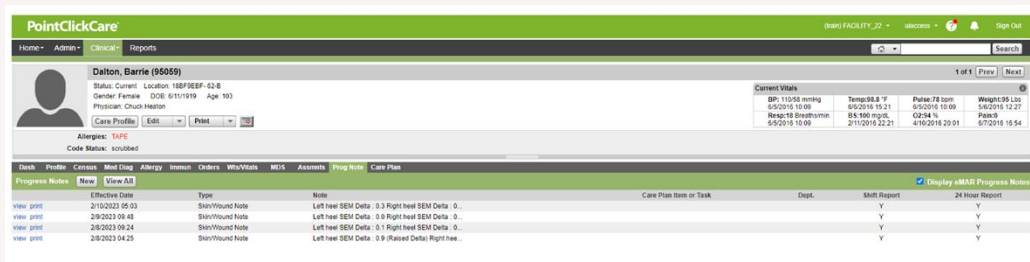


Figure 3

*All data shown is example data and do not represent real patients.

Clicking on “view print” opens a new window with added details (Figure 4).

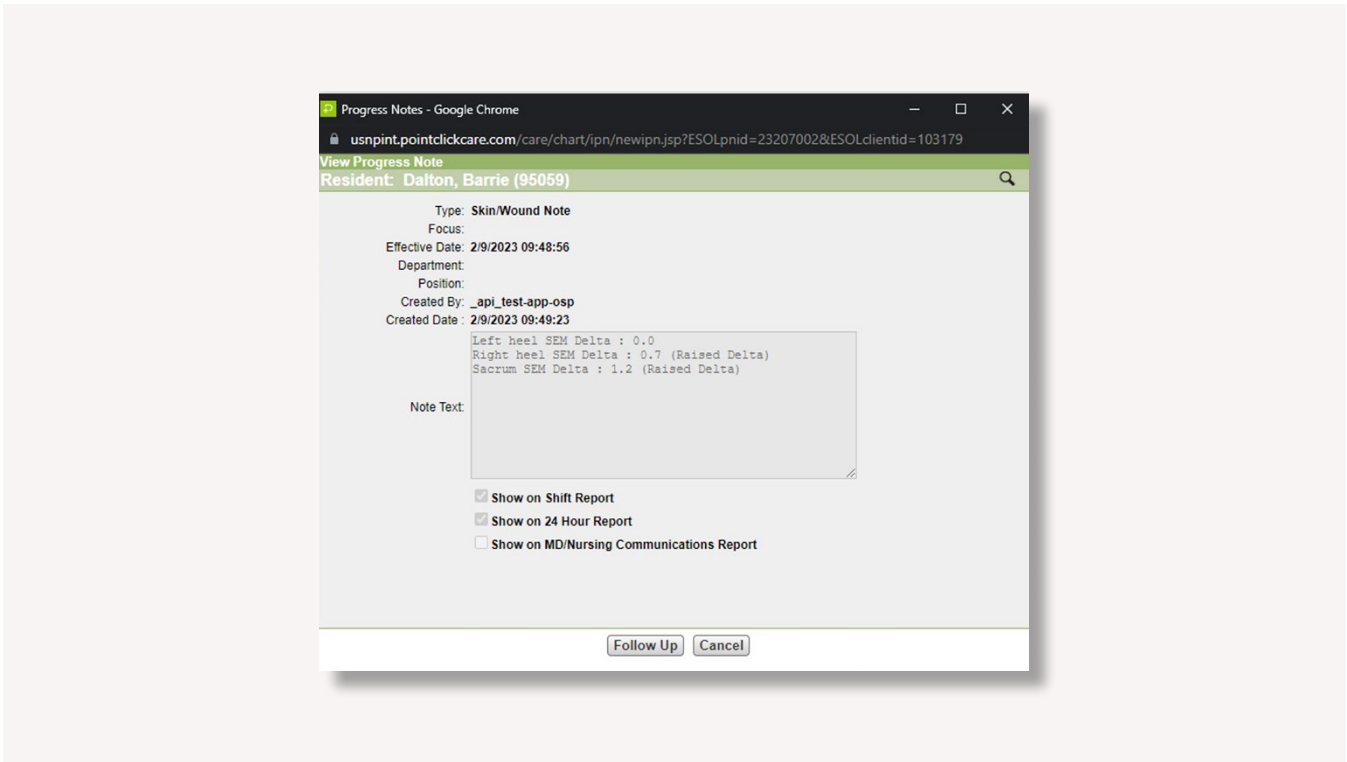


Figure 4

You are additionally able to add to reports such as the Shift Report and/or 24 Hour Report by clicking on the relevant

check boxes (Figure 5). This will be determined by the individual facility team.

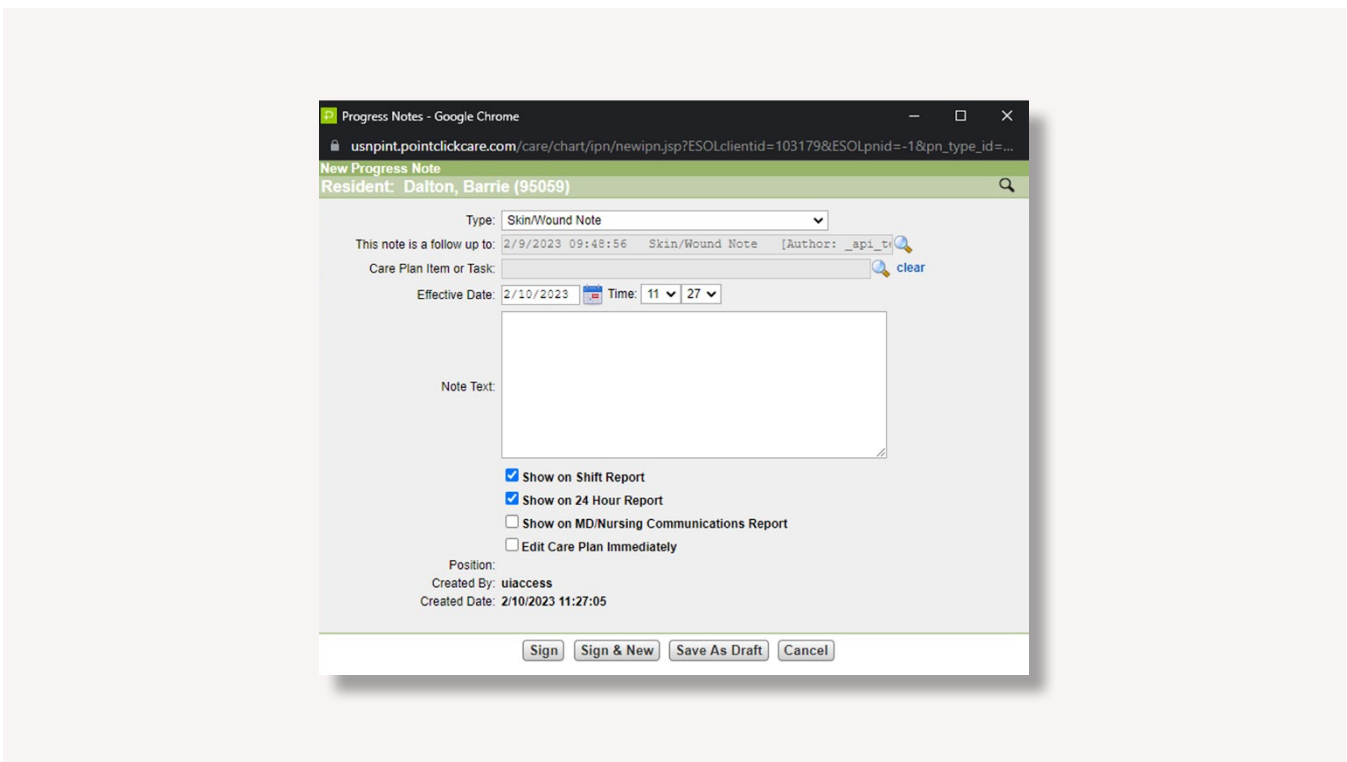


Figure 5



Integration Guide for IT Setup

EMR integration for SEM delta (Δ) values requires the following technology components:

- WiFi Connectivity for the Scanners
- IT Services for:
 - Windows Server for Gateway Software
 - Windows Server for SQL
 - Windows Server for MIRTH (HL7/FHIR)
 - Epic Interface Software

Approach

Epic EMR performs patient data integration through their Connection Hub platform (previously App Orchard). The platform provides a FHIR enabled development sandbox where our test application was developed using the available FHIR API.

The final application interface, approved by the Epic technical committee, is available on Epic Connection Hub, <https://fhir.epic.com/ConnectionHub>

Integration points

In principle, the solution will continue to utilise the Provizio SEM Scanner and the Gateway Dashboard installation as a middle ware. The Gateway Dashboard routes the received SEM delta (Δ) values to the MIRTH interface engine. MIRTH uses a specific channel and solution to send the values to Epic EMR.

There are two options for how the Epic EMR can be configured to receive and display SEM delta (Δ) values:

1. **Progress Notes** with raised SEM delta (Δ) values clearly marked as "Raised Delta". These appear as ONE patient note containing three SEM delta (Δ) values in text format.
2. **Observations** with customer defined LOINC codes. These can be further configured in one of two ways: ONE code for all 3 SEM delta (Δ) values or THREE codes, one for each anatomical zone scanned, respectively the left heel, right heel, and sacrum. The configuration should be determined at the discretion of the individual facility.

Customer approval process

You can find the Provizio SEM Scanner application page on the Epic EMR Connection Hub platform (previously App Orchard). This page allows you to contact Arjo directly in order to discuss your preferred integration process.

Once an Epic customer has gone through our approval process, Arjo will then contact the Epic Vendor Services team to begin customer activation.

A unique customer key is then created to configure the Gateway-Epic integration for that specific customer. This unique customer key also enables customers to send or receive data via Epic.

After customer approval

Depending on the situation, there may be two scenarios:

1. Gateway has already been installed and MIRTH Engine interface is established – the Installer utilises the unique customer key to enable SEM delta (Δ) values to flow to Epic – communicating as usual with Customer IT.
2. No installation has been commenced and therefore the usual Gateway installation process needs to be completed – communicating as usual with Customer IT.

Data Upload and Management Healthcare Practitioner Guide



Figure 1

The workflow starts by scanning the resident's/patient's heels and sacrum using the bar code or manual resident entry ID options. Once the scanning session is complete (or multiple resident/patient scanning sessions) place the device in the

charging hub to upload the data to the Gateway Dashboard via the established WiFi connection. The data will transfer rapidly, automatically, and securely from the Gateway Dashboard to the EMR platform (Figure 1).

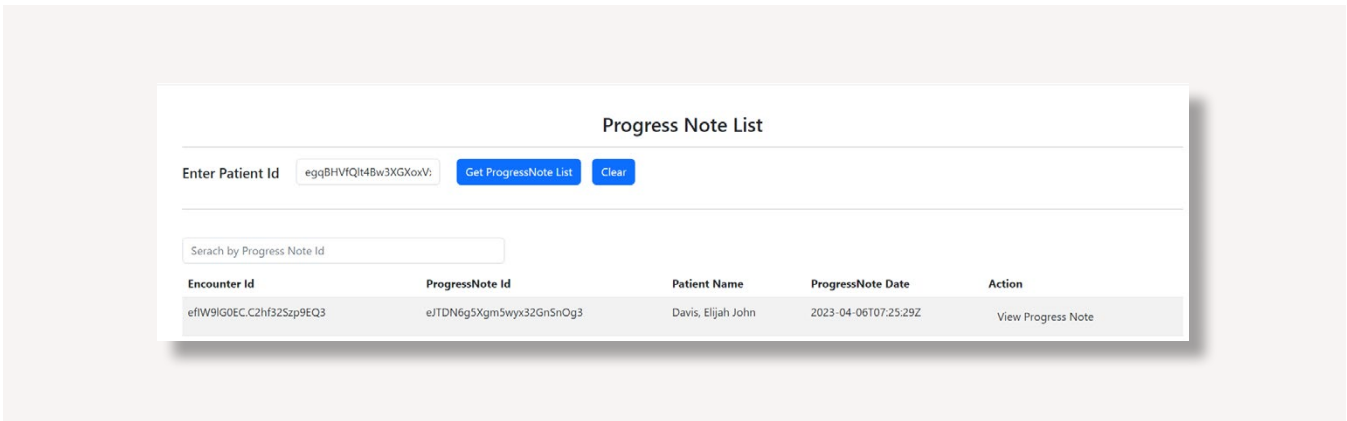


Figure 6: Epic EMR interface automatically logging Patient SEM delta (Δ) values*

There are two options for setting up Gateway integration with Epic EMR:

1. As **Progress Notes**, which are received as ONE note with three SEM delta (Δ) values in text format (Figure 7), or
2. As **Observations** with Customer defined LOINC codes; which can be received as ONE observation with three values, or THREE separate observations, respectively for the left heel, right heel, and sacrum.

As Observations are configured to link to a defined LOINC code, you should decide on which option to configure before installing your Gateway dashboard and MIRTH solution with your facility IT and Arjo support team.

It is important to note that a raised delta (Δ) value will be identified with a "Raised Delta" note after the delta value (see Figure 7). This means that the anatomical location is at increased risk of pressure injury and preventive interventions should be considered or altered.

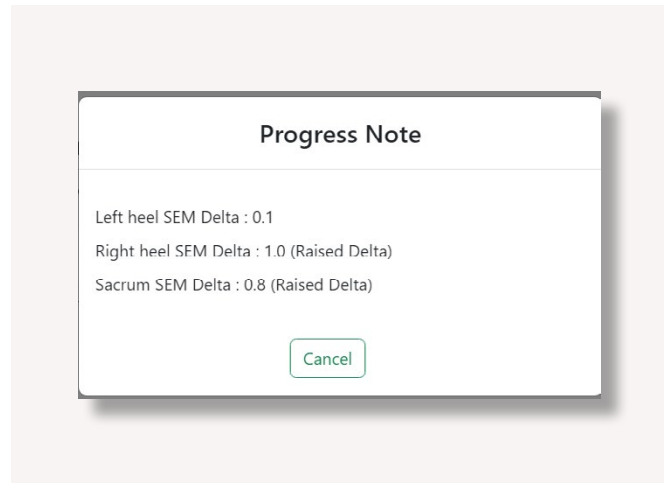


Figure 7

Figure 8 shows an example overview of three separate Observations logged for a patient scanning session*.

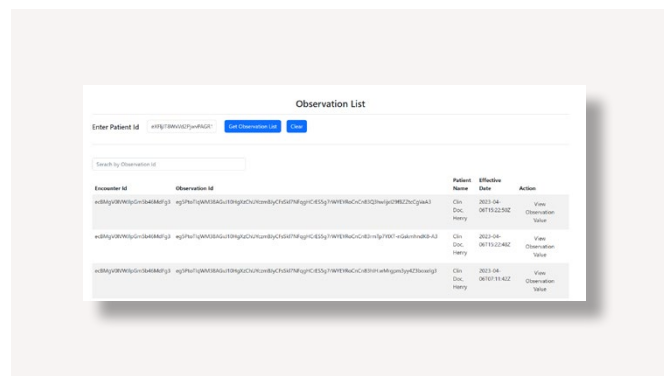


Figure 8

Figure 7 shows an example of how SEM delta (Δ) values* will appear as a Progress Note - note that "Raised Delta" values are clearly marked. This means that the anatomical location is at increased risk of pressure injury and preventive interventions should be considered or altered.

*All data shown is example data and do not represent real patients.

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