Intuitive EHR

Bluebird

Enhanced Patient Safety

Practice Management System API



The Art of Managing Clinical Complexity

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Introduction

Bluebird is a Cloud based advanced electronic health record (EHR) specifically designed to help Doctors document clinical encounters.

The Bluebird PMS API allows Practice Management Software (PMS) to send/update individual patient demographics in that doctor’s Bluebird EHR in real time in order to facilitate the documentation of detailed clinical notes specific to each patient.

API

The Bluebird PMS **API** accepts a plain POST request over HTTPS to URL with HTTP Basic authentication. The format of this POST message is detailed in the **XML Specification** section at the end of this document.

Bluebird Operations will provide the URL and a Username and Password that you can use to send the XML data into each practice’s Bluebird EHR.

Whenever a patient's demographics are first created or changed the PMS will need to POST one of these messages to the Bluebird API.

Note: a lot of the clinical information might not be captured in your PMS and is therefore not mandatory.

If information about the current/next appointment is available, it should be included in the <Appointment> section. This section must include the date and time of the appointment. If the appointment has been cancelled, or postponed, then the date/time of the cancellation or the the date/time of the new appointment should be included. If the patient has arrived for the appointment, then the date/time of when the patient arrived should be included.

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XML Specification

```
<?xml version="1.0"?>
<Root>  <!-- Fields marked with a * are compulsory -->
  <Batch ID="12345">                          <!-- * The ID is a unique identifier for this XML document for
tracking purposes -->
    <XMLSpecID>1.0.0</XMLSpecID>              <!-- * Spec version number. It will be incremented for later versions
of the spec -->
    <Sender></Sender>                         <!-- * The source of this information. e.g. Eminance -->
    <Doctor>
      <RegistrationNo></RegistrationNo>       <!-- * HPCSA registration number -->
      <PracticeNo></PracticeNo>               <!-- * The doctor's practice number -->
      <LastName></LastName>                   <!-- * The doctor's last name -->
      <FirstName></FirstName>                 <!-- * The doctor's first name -->
      <CellPhone></CellPhone>                 <!-- * The doctor's cell phone number -->
      <Email></Email>                         <!--   The doctor's e-mail address -->
      <Specialty></Specialty>                 <!-- * GP, Surgeon etc. -->
    </Doctor>
    <Patient>
      <Folder></Folder>                       <!-- * Unique identifier for the patient on this doctor's system.
e.g. Eminance -->
      <LastName></LastName>                   <!-- * The patient's last name -->
      <FirstName></FirstName>                 <!-- * The patient's first name -->
      <Gender></Gender>                       <!-- * The patient's gender. Male, Female, Other, Unknown -->
      <IDNumber></IDNumber>                   <!-- * The patient's South African ID number -->
      <PassportNumber></PassportNumber>       <!--   The patient's passport number -->
      <PassportCountry></PassportCountry>     <!--   The country that issued the patient's passport -->
      <DOB></DOB>                             <!-- * The patient's date of birth -->
      <Address>                               <!-- * The patient's residential address -->
        <AddressLine1></AddressLine1>         <!-- * -->
        <AddressLine2></AddressLine2>
        <Suburb></Suburb>
        <City></City>                         <!-- * -->
        <Province></Province>                 <!-- * -->
        <Country></Country>                   <!-- * -->
        <PostalCode></PostalCode>             <!-- * -->
      </Address>
```


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```
      <CellPhone></CellPhone>                <!-- * The patient's main cell phone number -->
      <AlternativePhone></AlternativePhone> <!--   An alternative contact number for the patient -->
      <Email></Email>                        <!--   The patient's e-mail address -->
      <Race></Race>                          <!--   The patient's race -->
      <Height></Height>                      <!--   The patient's height in cm -->
      <Weight></Weight>                      <!--   The patient's weight -->
      <Occupation></Occupation>              <!--   The patient's occupation -->
      <Employer>                             <!--   The patient's place of employment if employed -->
        <Name></Name>                        <!-- * The employer's name -->
        <Address>                            <!-- * The employer's address -->
          <AddressLine1></AddressLine1>      <!-- * -->
          <AddressLine2></AddressLine2>
          <Suburb></Suburb>
          <City></City>                      <!-- * -->
          <Province></Province>              <!-- * -->
          <Country></Country>                <!-- * -->
          <PostalCode></PostalCode>          <!-- * -->
        </Address>
        <Phone></Phone>                      <!-- * The employer's phone number -->
      </Employer>
      <AlternativeContact>                   <!-- * Details of the patient's next of kin/alternative contact -->
        <LastName></LastName>                <!-- * The contact's last name -->
        <FirstName></FirstName>              <!-- * The contact's first name -->
        <Relationship></Relationship>        <!-- * How the contact is related to the patient -->
        <Phone></Phone>                      <!-- * The contact's phone number -->
      </AlternativeContact>
      <MedicalAid>                           <!--   The patient's medical aid details, if the patient is on
medical aid -->
        <Member></Member>                    <!-- * Medical Aid member's name -->
        <MemberInitials></MemberInitials>    <!-- * Medical Aid member's initial -->
        <Number></Number>                    <!-- * Medical Aid member number -->
        <Administrator></Administrator>      <!-- * Medical Aid administrator -->
        <Scheme></Scheme>                    <!-- * Medical Aid Scheme -->
        <Option></Option>                    <!--   Medical Aid Option -->
        <DependentNo></DependentNo>          <!-- * Dependent number -->
      </MedicalAid>
      <CoreMedicalHistory>  <!-- The core medical history section will be fleshed out -->
        <Allergies>
```


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```
        <!-- ... -->
      </Allergies>
      <DrugHistory>
        <Drug>  <!-- Repeated as many times as needed -->
          <Name></Name>                  <!--   The name of the drug (at least the name is required if a Drug
section is included) -->
          <Dose></Dose>                  <!--   The dose amount -->
          <DoseUnits></DoseUnits>        <!--   The units that the dose was measured in -->
          <Duration></Duration>          <!--   The number of days that the patient was taking the drug -->
          <Frequency></Frequency>        <!--   The frequency that was prescribed -->
          <AdminRoute></AdminRoute>      <!--   The route that was used to administer the drug -->
        </Drug>
      </DrugHistory>
      <Gynaecology>
        <LMPDate></LMPDate>              <!--   The patient's last menstrual period (yyyy-mm-dd) -->
        <Contraception>                  <!--   Details of contraception -->
          <!-- ... -->
        </Contraception>
        <Pregnant></Pregnant>            <!--   Whether the patient is current pregnant. yes/no -->
        <ExpectedDeliveryDate></ExpectedDeliveryDate> <!-- yyyy-mm-dd -->
        <GTPAL>
          <Gravidity></Gravidity>        <!--   The number of pregnancies including current -->
          <Term></Term>                  <!--   The number of pregnancies carried to 37+ weeks -->
          <Preterm></Preterm>            <!--   The number of pregnancies carried between 20 and 36.6 weeks --
>
          <Abortion></Abortion>          <!--   The number of losses prior to 20 weeks -->
          <Living></Living>              <!--   The number of living children -->
        </GTPAL>
        <Pregnancies>
          <!-- ... -->
        </Pregnancies>
      </Gynaecology>
      <OngoingProblems>
        <!-- ... -->
      </OngoingProblems>
      <SurgicalHx>
        <!-- ... -->
      </SurgicalHx>
```


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```
        <PMHx>
          <!-- ... -->
        </PMHx>
        <Vaccinations>
          <!-- ... -->
        </Vaccinations>
      </CoreMedicalHistory>
      <Appointment> <!-- Optional. Information about the patient's current/next appointment -->
        <AppointmentDateTime></AppointmentDateTime> <!-- Date of the current/next appointment (yyyy-mm-dd HH:MM)
-->
        <CancelledAt></CancelledAt> <!-- If the appointment specified by the AppointmentDateTime has been
cancelled, then this should contain the date/time when the appointment was cancelled. (yyyy-mm-dd HH:MM) -->
        <PostponedTo></PostponedTo> <!-- If the appointment specified by the AppointmentDateTime has been
postponed, then this should contain the date/time of the new appointment. (yyyy-mm-dd HH:MM) -->
        <ArrivedAt></ArrivedAt> <!-- If the patient has arrived for the appointment, this should contain the
date/time that the patient arrived. (yyyy-mm-dd HH:MM) -->
        <SeenAt></SeenAt> <!-- If the patient has been seen by the doctor, this should contain the date/time that
the patient was seen. (yyyy-mm-dd HH:MM) -->
      </Appointment>
    </Patient>
  </Batch>
</Root>
```


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