

Intuitive EHR

Bluebird

Enhanced Patient Safety

Practice Management System API



The Art of Managing Clinical Complexity

Table of Contents

Introduction	3
API	3
<i>XML Specification</i>	4
<i>Confirmation Message</i>	7

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 a 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 change* the PMA 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 PMA and is therefore not mandatory.

XML Specification

```
<?xml version="1.0"?>
<Root>
  <Batch ID="12345">
    <XMLSpecID>1.0.0</XMLSpecID>
    <Sender></Sender>
    <Doctor>
      <RegistrationNo></RegistrationNo>
      <PracticeNo></PracticeNo>
      <LastName></LastName>
      <FirstName></FirstName>
      <CellPhone></CellPhone>
      <Email></Email>
      <Specialty></Specialty>
    </Doctor>
    <Patient>
      <Folder></Folder>
      <LastName></LastName>
      <FirstName></FirstName>
      <Gender></Gender>
      <IDNumber></IDNumber>
      <PassportNumber></PassportNumber>
      <PassportCountry></PassportCountry>
      <DOB></DOB>
      <Address>
        <AddressLine1></AddressLine1>
        <AddressLine2></AddressLine2>
        <Suburb></Suburb>
        <City></City>
        <Province></Province>
        <Country></Country>
        <PostalCode></PostalCode>
      </Address>
      <CellPhone></CellPhone>
      <AlternativePhone></AlternativePhone>
      <Email></Email>
      <Race></Race>
      <Height></Height>
      <Weight></Weight>
      <Occupation></Occupation>
      <Employer>
        <Name></Name>
      </Employer>
    </Patient>
  </Batch ID="12345">
</Root>
```

<!-- Fields marked with a * are compulsory -->

<!-- * The ID is a unique identifier for this XML document for tracking purposes -->

<!-- * Spec version number. It will be incremented for later versions of the spec -->

<!-- * The source of this information. e.g. Healthfocus -->

<!-- * HPCSA registration number -->

<!-- * The doctor's practice number -->

<!-- * The doctor's last name -->

<!-- * The doctor's first name -->

<!-- * The doctor's cell phone number -->

<!-- * The doctor's e-mail address -->

<!-- * GP, Surgeon etc. -->

<!-- * Unique identifier for the patient on this doctor's system. e.g. Eminance -->

<!-- * The patient's last name -->

<!-- * The patient's first name -->

<!-- * The patient's gender. Male, Female, Other, Unknown -->

<!-- * The patient's South African ID number -->

<!-- The patient's passport number -->

<!-- The country that issued the patient's passport -->

<!-- * The patient's date of birth. yyyy-mm-dd -->

<!-- * The patient's residential address -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * -->

<!-- * The patient's main cell phone number -->

<!-- An alternative contact number for the patient -->

<!-- The patient's e-mail address -->

<!-- The patient's race -->

<!-- The patient's height in cm -->

<!-- The patient's weight -->

<!-- The patient's occupation -->

<!-- The patient's place of employment if employed -->

<!-- * 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>
  <Allergies>                           <!-- Repeated as many times as needed -->
    <Name></Name>                     <!-- The name of the allergen -->
  </Allergies>
  <CurrentDrugs>                        <!-- Repeated as many times as needed -->
    <Name></Name>                     <!-- The name of any current drug -->
  </CurrentDrugs>
  <Gynaecology>
    <LMPDate></LMPDate>               <!-- Only included if the patient is female and older than 10 years -->
    <Contraception>                  <!-- The patient's last menstrual period. yyyy-mm-dd -->
      <Name></Name>                  <!-- List of types of contraception that the patient is currently on -->
    </Contraception>                <!-- The type of contraception -->
    <Pregnant></Pregnant>             <!-- Whether the patient is current pregnant. yes/no -->
    <EDD></EDD>                       <!-- Expected date of delivery for current pregnancy, if known. yyyy-mm-dd -->
    <GTPAL>
      <Gravidity></Gravidity>        <!-- The number of times this woman has been pregnant, 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 -->
    </GTPAL>
  </Gynaecology>
</CoreMedicalHistory>

```

```

        <Abortion></Abortion>          <!-- The number of losses prior to 20 weeks -->
        <Living></Living>              <!-- The number of living children -->
    </GTPAL>
    <Pregnancies></Pregnancies>       <!-- Description/summary of past pregnancies -->
</Gynaecology>
<OngoingProblems>                   <!-- Repeated as many times as needed -->
    <Problem></Problem>               <!-- Description of the problem -->
</OngoingProblems>
<PSHx>                               <!-- Past surgical procedures. Repeated as many times as needed -->
    <Name></Name>                     <!-- The name of the procedure -->
</PSHx>
<PMHx>                               <!-- Past medical history. As many conditions as needed -->
    <Condition></Condition>          <!-- Description of a past condition -->
</PMHx>
<Vaccinations>
    <Vaccine>
        <Name></Name>                 <!-- The name of the vaccine -->
        <AdminDate></AdminDate>      <!-- Date on which the vaccine was administered. yyyy-mm-dd -->
    </Vaccine>
</Vaccinations>
</CoreMedicalHistory>
</Patient>
</Batch>
</Root>

```

Confirmation Message

When the XML document is POSTed to the URL it will respond with a message to say whether it was OK or not.

e.g.:

```
<?xml version="1.0" encoding="utf-8"?>
<response>
  <success>true</success>
  <message>Message received</message>
  <batch_id>12345</batch_id>
  <registration_no>mp1234567</registration_no>
  <practice_no>1122334455</practice_no>
  <timestamp>2023-04-04 15:03:55.152195</timestamp>
  <message_id>BB-20230404.150355.0000</message_id>
</response>
```