
Required fields in the XML patron schema

- **Product:** Voyager
 - **Relevant for Installation Type:** Multi-Tenant Direct, Dedicated-Direct, Local, TotalCare
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Question

How to tell what fields are required in the XML Patron Schema (<https://developers.exlibrisgroup.com/wp-content/uploads/Voyager/PatronSchema.xsd>)?

Answer

The key to this is the value for “minOccurs”. By default, minOccurs = 1, if not explicitly stated. So, any element *without* a minOccurs = 0 is required.

Any element with minOccurs = 0 is therefor optional.

Additional Information

Example code from the XML Patron Schema

This (institutionID) is optional:

```
<xs:element name="institutionID" nillable="true" minOccurs="0">  
  <xs:simpleType>  
    <xs:restriction base="xs:string">  
      <xs:minLength value="1"/>  
      <xs:maxLength value="30"/>  
    </xs:restriction>  
  </xs:simpleType>  
</xs:element>
```

This (barcode) is not optional:

```
<xs:element name="barcode">  
  <xs:simpleType>  
    <xs:restriction base="xs:string">  
      <xs:minLength value="1"/>  
      <xs:maxLength value="25"/>  
    </xs:restriction>  
  </xs:simpleType>  
</xs:element>
```

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