

# Administering Address Templates



This is a feature in OpenMRS 1.9+

It is possible to configure the fields that appear in the UI and their names, the text box sizes as well as the order they appear in. The configuration instructions on this page tell how to do it.

## Managing Address Templates

To get to the address configuration page in OpenMRS you can go to Administration (or System Administration --> Advanced Administration in the Reference Application) --> Manage Address Template.

### Manage Address Template

Manage Address Template

```
<org.openmrs.layout.web.address.AddressTemplate>
<nameMappings class="properties">
  <property name="address2" value="Ri / Nimewo Kay"/>
  <property name="address1" value="Lokalite"/>
  <property name="country" value="Peyi"/>
  <property name="stateProvince" value="Depatman"/>
  <property name="cityVillage" value="Komin"/>
  <property name="countyDistrict" value="Seksyon Riral"/>
</nameMappings>
<sizeMappings class="properties">
  <property name="address2" value="40"/>
  <property name="address1" value="40"/>
  <property name="country" value="40"/>
  <property name="stateProvince" value="40"/>
  <property name="cityVillage" value="40"/>
  <property name="countyDistrict" value="40"/>
</sizeMappings>
<lineByLineFormat>
  <string>country</string>
  <string>stateProvince</string>
</lineByLineFormat>
```

"See example layouts on the documentation page: [Administering Address Template](#)"

Save Cancel

## Templates/Examples

Some example OpenMRS address templates are provided here. You can copy a preferred Address Template from this page and paste into the "Manage Address Template" text box. Feel free to customize to your liking as seen in the screenshot above.

- [General Address Template](#)
- [Address Template for Kenya](#)
- [Address Template for Lesotho](#)
- [Address Template for Malawi](#)
- [Address Template for Rwanda](#)
- [Address Template for Spain](#)
- [Address Template for Tanzania](#)
- [Address Template for USA](#)
- [Address Template for Chile](#)
- [Address Template for Nepal](#)
- [Address Template for Haiti](#)

### Customizing Templates

You can also build your own templates.

First according to your need, select some address attribute from the table below,

Attribute type	XML Snippet
address1	<property name="address1" value="Location.address1"/>
address2	<property name="address2" value="Location.address2"/>
address3	<property name="address3" value="Location.neighborhood"/>
address4	<property name="address4" value="Location.division"/>
address5	<property name="address5" value="Location.sublocation"/>
address6	<property name="address6" value="Location.location"/>

cityVillage	<property name="cityVillage" value="Location.cityVillage"/>
countyDistrict	<property name="countyDistrict" value="Location.district"/>
stateProvince	<property name="stateProvince" value="Location.stateProvince"/>
country	<property name="country" value="Location.country"/>
latitude	<property name="latitude" value="Location.latitude"/>
longitude	<property name="longitude" value="Location.longitude"/>
postalCode	<property name="postalCode" value="Location.postalCode"/>
startDate	<property name="startDate" value="PersonAddress.startDate"/>
endDate	<property name="endDate" value="personAddress.endDate"/>

Add these attributes XML in the following format,

```
<nameMappings class="properties">
  <property name="postalCode" value="Location.postalCode"/>
  <property name="longitude" value="Location.longitude"/>
  ... others
</nameMappings>
```

Now define the character size for each of the attribute you selected,  
name = Attribute name  
value = Number of characters  
E.g.

```
<sizeMappings class="properties">
  <property name="postalCode" value="10"/>
  <property name="longitude" value="10"/>
  ... others
</sizeMappings>
```

Next, design the layout for your Address Template.  
This defines the relative positions of the address attributes to one another

E.g.

```
<lineByLineFormat>
  <string>address1</string>
  <string>address2</string>
  <string>cityVillage stateProvince country postalCode</string>
  <string>latitude longitude</string>
  <string>startDate endDate</string>
</lineByLineFormat>
```

**(Optional)** You can add default values to the attributes as below,  
E.g.

```
<elementDefaults class="properties">
  <property name="country" value="Kenya"/>
  ...
</elementDefaults>
```

**(Optional)** You can define which fields are required (since Platform 2.0)

```
<requiredElements>
  <string>address1</string>
  ...
</requiredElements>
```

**(Optional)** You can define regular expressions to validate input, and also help the user by giving input suggestions

E.g.

Regular expressions for validation;

```
<elementRegex class="properties">
  <property name="longitude" value="^(\\d{1,3}\\s)\\d\\. (\\d{2,3})\\s*$"/>
  <property name="latitude" value="^(\\d{1,3}\\s)\\d\\. (\\d{2,3})\\s*$"/>
  ...
</elementRegex>
```

Input suggestions;

```
<elementRegexFormats class="properties">
  <property name="longitude" value="123 45.000"/>
  <property name="latitude" value="123 45.000"/>
  ...
</elementRegexFormats>
```

Finally bundle all the above XMLs as shown below,

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="postalCode" value="Location.postalCode"/>
    ...
  </nameMappings>
  <sizeMappings class="properties">
    <property name="postalCode" value="10"/>
    ...
  </sizeMappings>
  <lineByLineFormat>
    <string>address1</string>
    <string>address2</string>
    ...
  </lineByLineFormat>
  ...
  ...
</org.openmrs.layout.web.address.AddressTemplate>
```

For further clarification please go through the samples below,

## General Address Template

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="postalCode" value="Location.postalCode"/>
    <property name="longitude" value="Location.longitude"/>
    <property name="address2" value="Location.address2"/>
    <property name="address1" value="Location.address1"/>
    <property name="startDate" value="PersonAddress.startDate"/>
    <property name="country" value="Location.country"/>
    <property name="endDate" value="personAddress.endDate"/>
    <property name="stateProvince" value="Location.stateProvince"/>
    <property name="latitude" value="Location.latitude"/>
    <property name="cityVillage" value="Location.cityVillage"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="postalCode" value="10"/>
    <property name="longitude" value="10"/>
    <property name="address2" value="40"/>
    <property name="address1" value="40"/>
    <property name="startDate" value="10"/>
    <property name="country" value="10"/>
    <property name="endDate" value="10"/>
    <property name="stateProvince" value="10"/>
    <property name="latitude" value="10"/>
    <property name="cityVillage" value="10"/>
  </sizeMappings>
  <lineByLineFormat>
    <string>address1</string>
    <string>address2</string>
    <string>cityVillage stateProvince country postalCode</string>
    <string>latitude longitude</string>
    <string>startDate endDate</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Kenya

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="postalCode" value="Location.postalCode"/>
    <property name="longitude" value="Location.longitude"/>
    <property name="address3" value="Location.estateNearestCentre"/>
    <property name="address2" value="Location.sectionHomestead"/>
    <property name="address1" value="Location.address1"/>
    <property name="country" value="Location.country"/>
    <property name="stateProvince" value="Location.province"/>
    <property name="latitude" value="Location.latitude"/>
    <property name="address6" value="Location.location"/>
    <property name="address5" value="Location.sublocation"/>
    <property name="cityVillage" value="Location.townVillage"/>
    <property name="countyDistrict" value="Location.district"/>
    <property name="address4" value="Location.division"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="postalCode" value="6"/>
    <property name="longitude" value="10"/>
    <property name="address3" value="24"/>
    <property name="address2" value="55"/>
    <property name="address1" value="55"/>
    <property name="country" value="10"/>
    <property name="townshipDivision" value="24"/>
    <property name="stateProvince" value="24"/>
    <property name="subregion" value="24"/>
    <property name="latitude" value="10"/>
    <property name="region" value="24"/>
    <property name="cityVillage" value="24"/>
    <property name="countyDistrict" value="24"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Kenya"/>
  </elementDefaults>
  <elementRegex class="properties">
    <property name="longitude" value="^(\\d{1,3}\\s)\\d\\d.(\\d{2,3})\\s*$"/>
    <property name="latitude" value="^(\\d{1,3}\\s)\\d\\d.(\\d{2,3})\\s*$"/>
  </elementRegex>
  <elementRegexFormats class="properties">
    <property name="longitude" value="123 45.000"/>
    <property name="latitude" value="123 45.000"/>
  </elementRegexFormats>
  <lineByLineFormat>
    <string>address1</string>
    <string>address2</string>
    <string>address3 cityVillage</string>
    <string>address5 address6</string>
    <string>address4 countyDistrict</string>
    <string>stateProvince postalCode</string>
    <string>latitude longitude</string>
    <string>country</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

### Address Template for Lesotho

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="countyDistrict" value="Location.district"/>
    <property name="cityVillage" value="Location.village"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="countyDistrict" value="40"/>
    <property name="cityVillage" value="40"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Lesotho"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>countyDistrict</string>
    <string>cityVillage</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

### Address Template for Malawi

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address3" value="Location.neighborhood"/>
    <property name="stateProvince" value="Location.district"/>
    <property name="address1" value="Location.address1"/>
    <property name="countyDistrict" value="Location.traditionalAuthority"/>
    <property name="cityVillage" value="Location.village"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address3" value="20"/>
    <property name="stateProvince" value="20"/>
    <property name="address1" value="40"/>
    <property name="countyDistrict" value="20"/>
    <property name="cityVillage" value="20"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Malawi"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>address1</string>
    <string>address3</string>
    <string>cityVillage</string>
    <string>countyDistrict</string>
    <string>stateProvince</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Rwanda

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address3" value="Location.cell"/>
    <property name="stateProvince" value="Location.province"/>
    <property name="address1" value="Location.rwandanNeighborhood"/>
    <property name="countyDistrict" value="Location.district"/>
    <property name="cityVillage" value="Location.sector"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address3" value="40"/>
    <property name="stateProvince" value="40"/>
    <property name="address1" value="40"/>
    <property name="countyDistrict" value="40"/>
    <property name="cityVillage" value="40"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Rwanda"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>stateProvince</string>
    <string>countyDistrict</string>
    <string>cityVillage</string>
    <string>address3</string>
    <string>address1</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Spain

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address2" value="Location.address2"/>
    <property name="stateProvince" value="Location.stateProvince"/>
    <property name="address1" value="Location.address1"/>
    <property name="longitude" value="Location.longitude"/>
    <property name="postalCode" value="Location.postalCode"/>
    <property name="cityVillage" value="Location.cityVillage"/>
    <property name="country" value="Location.country"/>
    <property name="latitude" value="Location.latitude"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address2" value="40"/>
    <property name="stateProvince" value="10"/>
    <property name="address1" value="40"/>
    <property name="longitude" value="10"/>
    <property name="postalCode" value="10"/>
    <property name="cityVillage" value="10"/>
    <property name="country" value="10"/>
    <property name="latitude" value="10"/>
  </sizeMappings>
  <lineByLineFormat>
    <string>address1</string>
    <string>address2</string>
    <string>cityVillage stateProvince country postalCode</string>
    <string>latitude longitude</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Tanzania

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address6" value="Location.region"/>
    <property name="address5" value="Location.ward"/>
    <property name="countyDistrict" value="Location.district"/>
    <property name="cityVillage" value="Location.villageStreet"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address6" value="14"/>
    <property name="address5" value="22"/>
    <property name="countyDistrict" value="17"/>
    <property name="cityVillage" value="50"/>
  </sizeMappings>
  <lineByLineFormat>
    <string>cityVillage</string>
    <string>address5</string>
    <string>countyDistrict</string>
    <string>address6</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for USA

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address2" value="Location.address2"/>
    <property name="stateProvince" value="Location.state"/>
    <property name="address1" value="Location.address1"/>
    <property name="postalCode" value="Location.zipCode"/>
    <property name="cityVillage" value="Location.city"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address2" value="50"/>
    <property name="stateProvince" value="2"/>
    <property name="address1" value="50"/>
    <property name="postalCode" value="10"/>
    <property name="cityVillage" value="20"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="USA"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>address1</string>
    <string>address2</string>
    <string>cityVillage stateProvince postalCode</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```



## Address Template for Chile

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address3" value="Location.address3"/>
    <property name="address2" value="Location.address2"/>
    <property name="stateProvince" value="Location.state"/>
    <property name="address1" value="Location.address1"/>
    <property name="postalCode" value="Location.zipCode"/>
    <property name="cityVillage" value="Location.city"/>
    <property name="countyDistrict" value="Location.district"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address3" value="10"/>
    <property name="address2" value="10"/>
    <property name="stateProvince" value="2"/>
    <property name="address1" value="50"/>
    <property name="postalCode" value="10"/>
    <property name="cityVillage" value="20"/>
    <property name="countyDistrict" value="20"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Chile"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>address1 address2 address3</string>
    <string>cityVillage countyDistrict stateProvince country postalCode</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Nepal

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address3" value="Ward Number"/><!--Ward Number-->
    <property name="address4" value="Tole"/><!--Tole-->
      <property name="address5" value="Landmark"/><!--Landmarks-->
    <property name="startDate" value="PersonAddress.startDate"/>
    <property name="country" value="Location.country"/>
    <property name="endDate" value="personAddress.endDate"/>
    <property name="countyDistrict" value="Location.district"/><!--District-->
    <property name="cityVillage" value="VDC/Municipality"/><!--VDC/Municipality-->
    <property name="stateProvince" value="Zone"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address3" value="40"/>
    <property name="address4" value="40"/>
      <property name="address5" value="40"/>
    <property name="startDate" value="10"/>
    <property name="country" value="10"/>
    <property name="endDate" value="10"/>
    <property name="countyDistrict" value="40"/>
    <property name="cityVillage" value="40"/>
    <property name="stateProvince" value="40"/>
  </sizeMappings>
  <elementDefaults class="properties">
    <property name="country" value="Nepal"/>
  </elementDefaults>
  <lineByLineFormat>
    <string>stateProvince countyDistrict</string>
      <string>cityVillage address3</string>
      <string>address4 address5</string>
    <string>country</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

## Address Template for Haiti

```
<org.openmrs.layout.web.address.AddressTemplate>
  <nameMappings class="properties">
    <property name="address2" value="Ri / Nimewo Kay"/>
    <property name="address1" value="Lokalite"/>
    <property name="country" value="Peyi"/>
    <property name="stateProvince" value="Depatman"/>
    <property name="cityVillage" value="Komin"/>
    <property name="countyDistrict" value="Seksyon Riral"/>
  </nameMappings>
  <sizeMappings class="properties">
    <property name="address2" value="40"/>
    <property name="address1" value="40"/>
    <property name="country" value="40"/>
    <property name="stateProvince" value="40"/>
    <property name="cityVillage" value="40"/>
    <property name="countyDistrict" value="40"/>
  </sizeMappings>
  <lineByLineFormat>
    <string>country</string>
    <string>stateProvince</string>
    <string>cityVillage</string>
    <string>countyDistrict</string>
    <string>address1</string>
    <string>address2</string>
  </lineByLineFormat>
</org.openmrs.layout.web.address.AddressTemplate>
```

Snippet