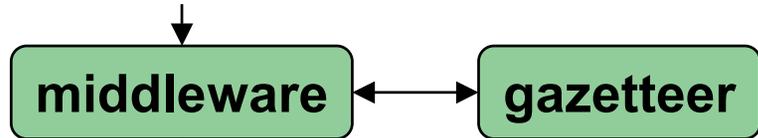


Middleware–Gazetteer Integration

Architecture

query w/ placename constraint



query w/ coordinate constraint



```
<!ELEMENT spatial-constraint (bucket, operator,  
    (box | polygon | placename))>
```

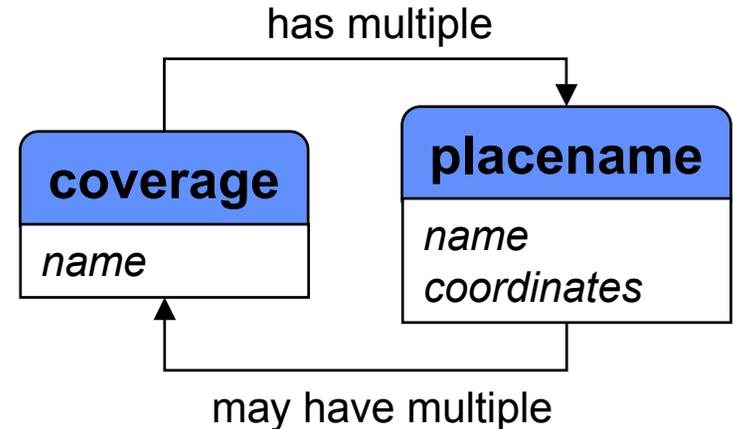
```
<!ELEMENT placename (placename?)>
```

```
<!ATTLIST placename  
    coverage CDATA #REQUIRED  
    name CDATA #REQUIRED>
```

```
<placename coverage="countries"  
    name="United States">  
    <placename coverage="ZIP codes"  
        name="93106"/>
```

```
</placename>
```

Gazetteer Data Model



Restrictions:

1. Names must be unique within a coverage
2. Non-point placenames must be described as regions