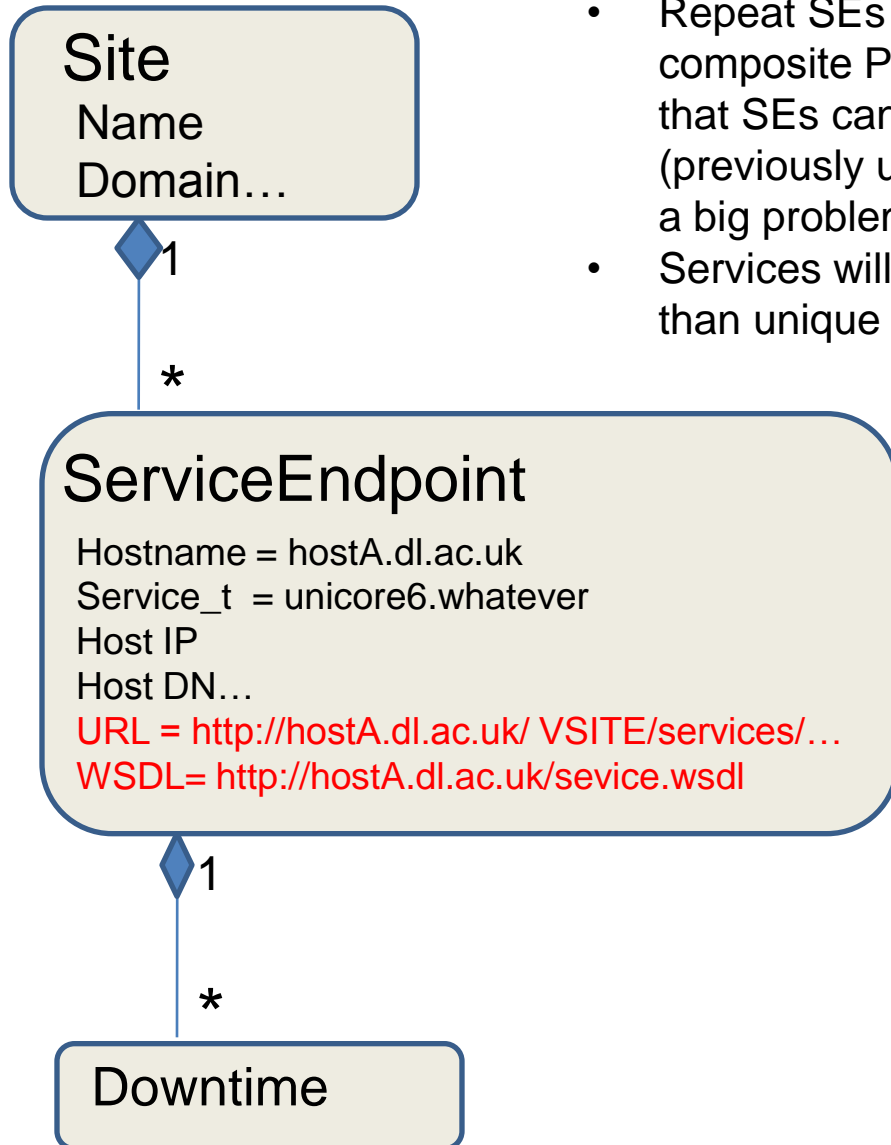


# Unicore Integration

- Unicore service types have been renamed using GLUE2 syntax:
  - 'unicore6.registry'
  - 'unicore6.UNICOREX'
  - 'unicore6.gateway'
- Could attempt to re-name all other services following the Unicore naming scheme but currently not priority.
- Plan to integrate URLs as ServiceEndpointLocations in GOCDB (next):

## A) Add URL to the ServiceEndpoint entity

- Add one <sup>1</sup>URL to the ServiceEndpoint (and other fields if needed, such as WSDL URL).
- Repeat SEs but use different URLs; we can remove the composite PK constraint on 'Hostname' and 'Service Type' so that SEs can specify the same hostname and service type (previously uncertain if removing this PK constraint would be a big problem or not).
- Services will then be distinguished by unique URLs (rather than unique hostname+serviceType combinations).



~~**Note**, each SE would typically have a different URL and will need to have different 'Hostname' or 'Service type' values (since these fields are Natural-Composite PKs in goodb).~~

**Q.** If it necessary to associate multiple URLs with the SAME Service, then B) also seems necessary – can do A) first then B) later if required.

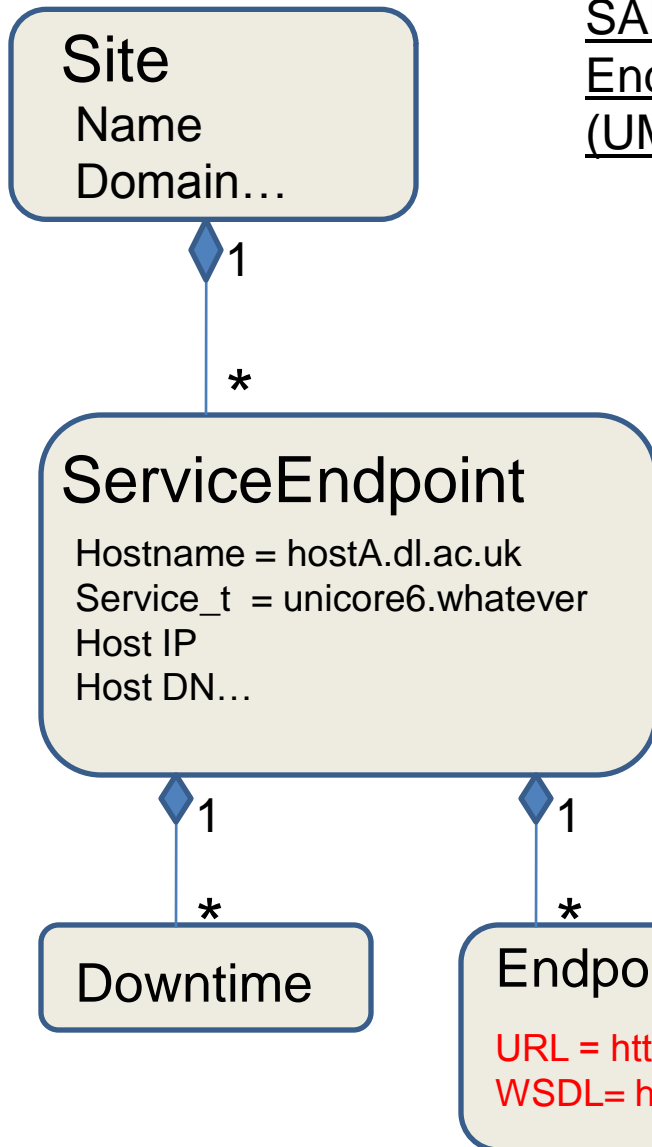
<results>

```
<SERVICE_ENDPOINT PRIMARY_KEY="1420G0">
  <PRIMARY_KEY>1420G0</PRIMARY_KEY>
  <HOSTNAME>somehost1.dl.ac.uk</HOSTNAME>
  <GOCDB_PORTAL_URL>
  https://goc.gridops.org/portal/index.php?Page_Type=View_Object&object_id=....
  </GOCDB_PORTAL_URL>
  <SERVICE_TYPE>unicore6.someserviceType</SERVICE_TYPE>
  <HOST_IP> 193.62.112.14 </HOST_IP>
  <CORE/>
  <IN_PRODUCTION>Y</IN_PRODUCTION>
  <NODE_MONITORED>Y</NODE_MONITORED>
  <SITENAME>BIGSITE </SITENAME>
  <COUNTRY_NAME>France</COUNTRY_NAME>
  <COUNTRY_CODE>FR</COUNTRY_CODE>
  <ROC_NAME>NGI_WHATEVER</ROC_NAME>
  <URL>http://somehost1.dl.ac.uk/ VSITE-1/services/... </URL>
  <WSDL> http://somehost1.dl.ac.uk/sevice1.wsdl </WSDL>
</SERVICE_ENDPOINT>
<SERVICE_ENDPOINT PRIMARY_KEY="1420Gx">
  <PRIMARY_KEY>1420Gx</PRIMARY_KEY>
  <HOSTNAME>somehost1.dl.ac.uk</HOSTNAME>
  <GOCDB_PORTAL_URL>
  https://goc.gridops.org/portal/index.php?Page_Type=View_Object&object_id=....
  </GOCDB_PORTAL_URL>
  <SERVICE_TYPE>unicore6.someserviceType</SERVICE_TYPE>
  <HOST_IP> 193.62.112.15</HOST_IP>
  ..same as above...
  <URL>http://somehost1.dl.ac.uk/ VSITE-2/services/... </URL>
  <WSDL> http://somehost1.dl.ac.uk/sevice2.wsdl </WSDL>
</SERVICE_ENDPOINT>
```

Example output from PI method  
“get\_service\_endpoint&sitenam  
e=BIGSITE”

~~Note Different  
Hostname or  
Service\_Type values  
required.~~

Note, two different  
SEs with the SAME  
Hostname and  
Service\_Type but  
with different URLs  
and PKs.



B) If it necessary to have multiple URLs point to the SAME service, then associate SE with a new EndpointLocation entity with a 1-to-\* cardinality (UML Aggregation).

Here, a single service has multiple endpoint URLs (e.g. consider a DNS alternative URL pointing to the same service).

**Note:** the Downtime is still linked to the SE, not for each EndpointLocation (this is correct, if you want to put different EndpointLocations in downtime, then declare more SEs with different URLs as in A).

Longer to do - the current xml\_output module needs to be re-written (prob with Query2XML package) to accommodate nested XML collections (currently, all XML results are flat).

<results>

```
<SERVICE_ENDPOINT PRIMARY_KEY="1420G0">
  <PRIMARY_KEY>1420G0</PRIMARY_KEY>
  <HOSTNAME>somehost.dl.ac.uk</HOSTNAME>
  <GOCDB_PORTAL_URL>
  https://goc.gridops.org/portal/index.php?Page_Type=View_Object&object_id=....
  </GOCDB_PORTAL_URL>
  <SERVICE_TYPE>unicore6.someserviceType</SERVICE_TYPE>
  <HOST_IP> 193.62.112.14 </HOST_IP>
  <CORE/>
  <IN_PRODUCTION>Y</IN_PRODUCTION>
  <NODE_MONITORED>Y</NODE_MONITORED>
  <SITENAME>BIGSITE </SITENAME>
  <COUNTRY_NAME>France</COUNTRY_NAME>
  <COUNTRY_CODE>FR</COUNTRY_CODE>
  <ROC_NAME>NGI_WHATEVER</ROC_NAME>
  <ENDPOINT_LOCATIONS>
    <ENDPOINT_LOCATION>
      <URL> http://hostA.dl.ac.uk/ VSITE-1/services/... </URL>
      <WSDL> http://hostA.dl.ac.uk/sevice1.wsdl </WSDL>
    </ ENDPOINT_LOCATION>
    <ENDPOINT_LOCATION>
      <URL> http://hostA.dl.ac.uk/ VSITE-2/services/... </URL>
      <WSDL> http://hostA .dl.ac.uk/sevice2.wsdl </WSDL>
    </ ENDPOINT_LOCATION>
  </ENDPOINT_LOCATIONS>
</SERVICE_ENDPOINT>
```

Example output from PI  
method  
“get\_service\_endpoint&si  
tename=BIGSITE”

Note the nested XML  
collection – this requires  
a rewrite of the  
xml\_output module,  
which currently only  
creates flat xml docs.