Contents of ODP regional node

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Partnership Centre for the IODE Ocean Data Portal
Role of the **ODP Regional and Specialized nodes** is to integrate the regional (based on IODE ODIN) and other IOC regional programmes or specific programme (JCOMM and etc.) managing segments of the distributed marine data system in interconnection with national (thematic) nodes of responsibility area.
ODP V2 components

- Security
- Monitoring
- Service Bus
- Portal
- Portlets
- Data Cache
- Integration Server
- Data Provider

Management
Integration, delivery, exchange
Presentation

Global node
Regional node
National node
Hardware

- Regional node should have at least 1 physical server (not taking into account backup). In case of backup 1 more servers should be ready for hot-deploy in case of the main server failure.

Hardware requirements are listed below:
- 2x Intel Xeon or compatible CPU;
- 16 Gb RAM;
- 256 Gb HDD;
Components

- Regional node includes following ODP components
  1. Security
  2. Portal
  3. Data Cache
  4. GIS
  5. Database
  6. Service Bus
  7. Integration Server
  8. Data Provider
  9. Monitoring
## Hardware and software composition scheme

<table>
<thead>
<tr>
<th>VM</th>
<th>OS</th>
<th>RAM (min/norm.)</th>
<th>HDD (Gb)</th>
<th>Middleware</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM_ODP_01_PORTAL</td>
<td>CentOS v.6 x_64</td>
<td>2/8</td>
<td>32</td>
<td>JDK 1.7, JBoss Portal</td>
<td>Security, Portal, Thematic portlets</td>
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<tr>
<td>VM_ODP_02_DB</td>
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<td>64</td>
<td>PostgreSQL</td>
<td>Database (for Security, Portal, Service Bus, Statistics)</td>
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<td>VM_ODP_03_SOI</td>
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<td>32</td>
<td>JDK 1.6, JBoss</td>
<td>Service Bus, Statistics</td>
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<tr>
<td>VM_ODP_04 IS</td>
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<td>32</td>
<td>JDK 1.7, JBoss</td>
<td>Integration Server</td>
</tr>
<tr>
<td>VM_ODP_05_DP</td>
<td>CentOS v.6 x_64</td>
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<td>32</td>
<td>JDK 1.7, JBoss</td>
<td>Data Provider, Light Data Provider</td>
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<td>VM_ODP_06_BID</td>
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<td>JDK 1.7, JBoss</td>
<td>DataCache</td>
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<td>JDK 1.7, JBoss</td>
<td>GIS (Geoserver + Grass GIS)</td>
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<td><strong>Summary</strong></td>
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Questions?