



Leading Open Source SOA

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WEBSOURCING

Open Source SOA Governance

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- ❑ How to share resources efficiently ?
- ❑ In case of trouble, who is the manager, who must be alerted ?
- ❑ How to use resources ?
- ❑ Are resources responding to user requirements ?





□ Address the following subjects :

- **Business** : « what », services and related processes ?
- **Geography** : « where » technically and geographically ?
- **Organization** : « who » consumes and provides services ?
- **Technical** : « how », interfaces ? Technical constraints (security, protocols etc.) ?

□ Increase profit by :

- Reuse,
- Agility,
- Value added creation,
- Quality.





❑ Services registry



- Publish/Discovery
- Service metadata management
- Dependencies
- Versioning / Lifecycle

❑ Contract Manager



- Contract production
- XML export
- Workflow

❑ Execution Environment Integration



- Monitoring agents
- Modules and probes



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Web Services standards support

- WSDL 1.1 and 2.0
- WS-* (WS-Agreement, WS-Addressing, etc.)
- SA-WSDL

Open source development frameworks

- Spring/Hibernate (SpringSource, JBoss)
- EasyWSDL (OW2)
- Compass/Lucene (Apache)
- CXF (Apache)

Services platforms integration

- ESB (Enterprise Service Bus) PEtALS
- Application servers, etc.



□ Last stable release 0.9.1 – December 2008

- Services publish/discovery
- Services metadata management
- Contracts production
- First level integration with Petals

□ Release 1.0 – July 2009

- Service Semantic support (SAWSDL)
- Second level integration with Petals
- Reporting and notifications
- Services lifecycle management

□ Release 1.5 – End of 2009

- Services versioning
- Dependencies management

*Join Us and
Contribute !*



Sharing services and metadata (what and how)

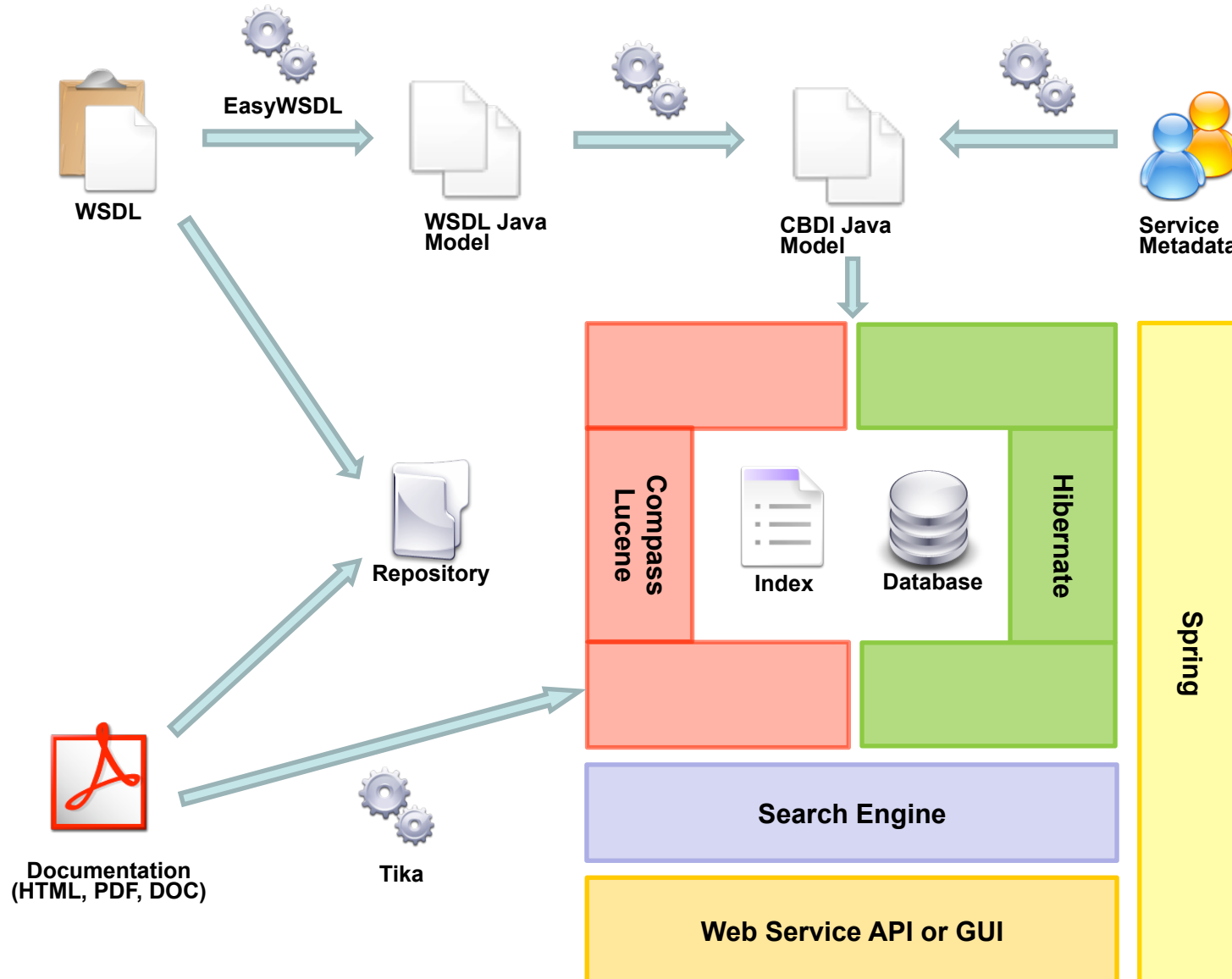
- Already deployed services inventory
- Sharing services related documents
- Multi-criteria search

Identifying stakeholders (who)

- Providers
- Consumers
- Developers
- Etc.



Services and metadata publishing





The open source governance solution for Services Oriented Architectures

Logged in as dragon | Logout

- Administration
 - Database Administration
- Organizations management
 - Search organizations
 - Search persons
 - Create organization
- Service management
 - Search service
 - Import service
- SLA management
 - Search agreement
 - Import agreement
- Runtime Management
 - Search Runtime Manager
 - Search Processor
 - Search Execution Environment
 - Search Environment Federation
 - Add Runtime Manager

Service: {http://www.webserviceX.NET}GlobalWeather

Identity Card | Service Specifications | Endpoints | Organizations' roles | Persons' roles | Related Docs

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Name	Network address	Protocol
GlobalWeatherHttpGet	http://www.webserviceX.com/globalweather.asmx	GET
GlobalWeatherHttpPost	http://www.webserviceX.com/globalweather.asmx	POST
GlobalWeatherSoap	http://www.webserviceX.com/globalweather.asmx	http://schemas.xmlsoap.org/soap/http

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Search a service

SEARCH KEY WORDS

Keywords:

SEARCH ON

Properties

- Name
- Category
- Operations
- Protocol
- Purpose
- Other information
- Organization (and role)
- Related Documents

The open source governance solution for Services Oriented Architectures

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Lastname	Firstname	Organization	Role	Delete
ALLOULA	Mariam	Armée De l'Air	Developper	Delete
PALAS	Julie	Armée De l'Air	Manager	Delete
COULOIGNIER	Pierre	Armée De l'Air	User	Delete



- Rationalizing services consumption (who and how)**
 - Identifying consumers
 - Contract negotiation (SLA : Service Level Agreement)

- Contract enforcement (how)**

- Monitoring of contract defined objectives (how)**

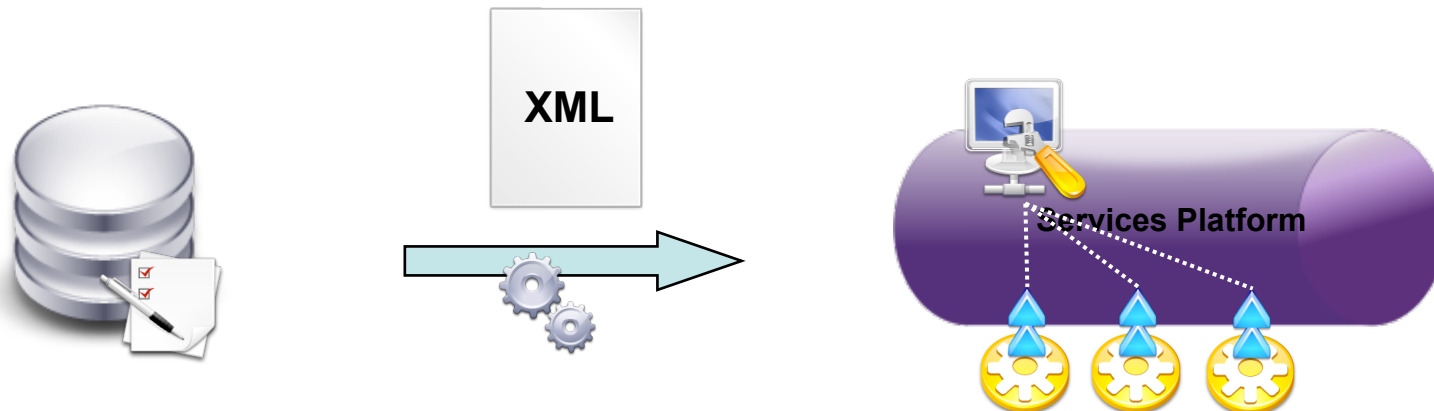


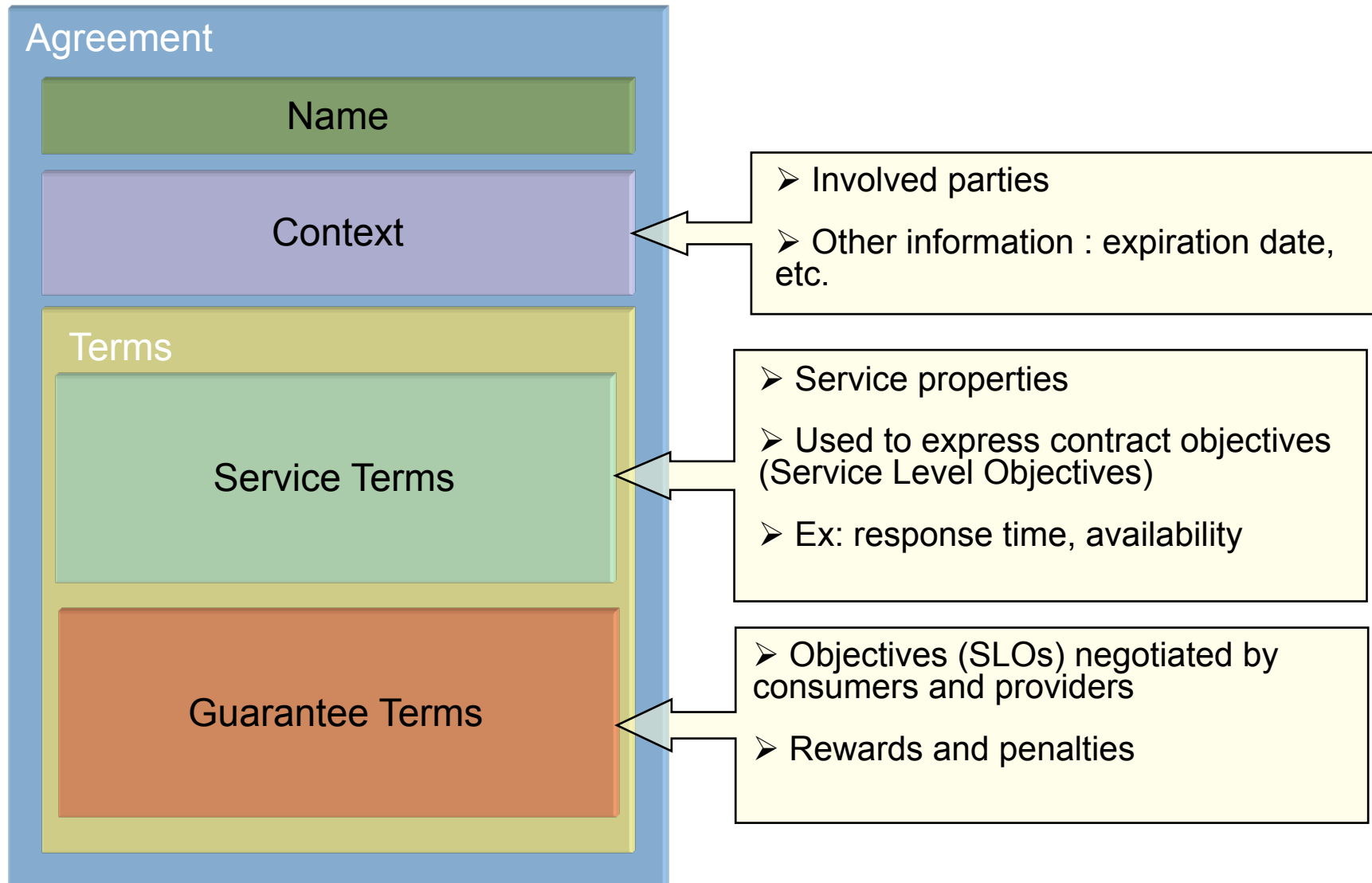
- Use of WS-Agreement et WS-Addressing standards



- Contract editing tools

- Xml based contract export







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Agreement

Agreement Manager | Identity Card | Service Description Terms | Service Properties | Guarantee Terms | WS-Agreement

Name:

Client Endpoint: [view client details](#)

Provider Endpoint: [view provider details](#)

Expiration Time: 3/18/2009 H: 0 M: 0 S: 0

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Agreement

Agreement Manager | Identity Card | Service Description Terms | Service Properties | Guarantee Terms | WS-Agreement

view plain copy to clipboard print ?

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<Agreement xmlns:ns1="http://schemas.ggf.org/graap/2007/03/ws-agreement" xmlns:ns2="http://www.w3.org/2005/08/addressing" xmlns:ns3="http://www.ebmwebsourcing.com/sla/agreementExtensions" ns1:AgreementId="2">
  <Name>Agreement1</Name>
  <Context>
    <AgreementInitiator xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ns2:EndpointReferenceType">
      <Address>COULOIGNIER_Pierre_GlobalWeatherSoap_clientEndpoint</Address>
    </AgreementInitiator>
    <AgreementResponder xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ns2:EndpointReferenceType">
      <Address>GlobalWeatherSoap</Address>
    </AgreementResponder>
    <ServiceProvider>Agreement Responder</ServiceProvider>
    <ExpirationTime>2009-03-17T23:00:00</ExpirationTime>
  </Context>
  <Terms>
    <All>
      <ServiceDescriptionTerm ns1:Name="Agreement1_terms" ns1:ServiceName="GlobalWeatherSoap">
        <referenceProperties>
          <providerName>PALAS_Julie</providerName>
          <wsdlUri>file:///service_PALAS_Julie.wsdl</wsdlUri>
        </referenceProperties>
      </ServiceDescriptionTerm>
      <ServiceReference ns1:Name="Agreement1_terms" ns1:ServiceName="GlobalWeatherSoap">
        <EndpointReference>
```

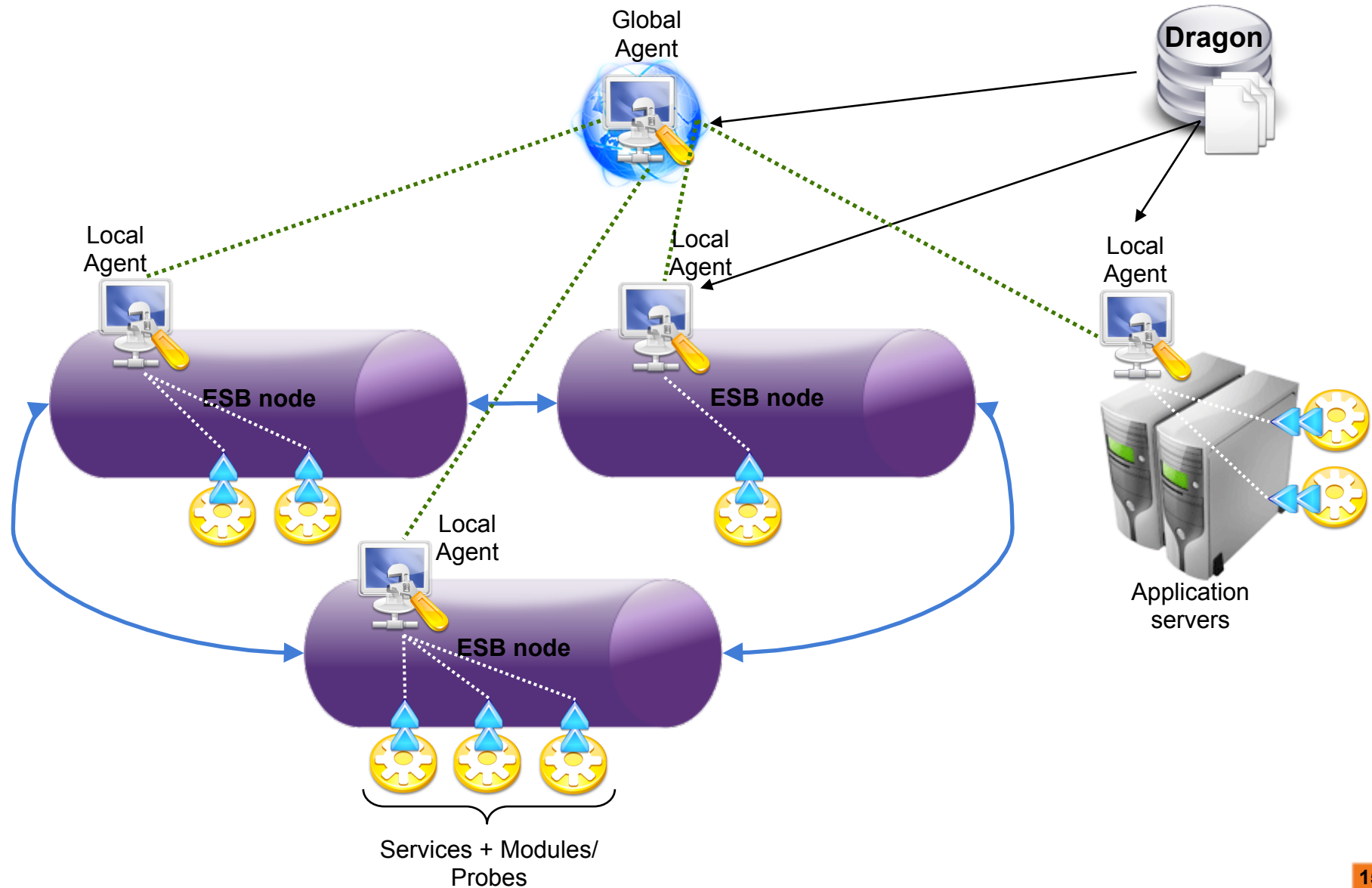
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- ❑ **Unified view of services execution environments (where and how)**
 - Technical and geographic location
 - Performance indicators
 - Anomaly and constraint violation notifications (SLA et Policy)

- ❑ **Increase adaptability to consumers needs (how)**
 - SLA constraints synchronization
 - QoS and Security policy synchronization
 - Scalability

Solution 3 : Services execution environment integration





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Runtime Manager: Manager@PEtALS:0

Identity Card | Execution Environments

[Synchronize Execution Environments](#)

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Name	Environment Type	Address
Q	PEtALS	localhost

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Execution Environment: 0

Identity Card | Hosted Endpoints

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Name	Address
NotificationAffectionItfPort	NotificationAffectionServiceEndpoint
SendMailPort	SendMailtestEndpoint
ServicesCSIAPort	ServicesCSIAEndpoint
ServicesSigabase	ServicesSigabaseServiceEndpoint



Costs reduction



Risks anticipation



Faster problem resolution



Customer satisfaction

