

GRAAP-WG Session

Status of the WS-Agreement Spec.

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OGF20

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After OGF19 Reflected comments in the Mailing-List (1)



- The opening brace should move "up" to include the sequence of compositor children within the same choice block that is already getting repeated with the "*" operator, but the operator needs to be changed to "+" for one-or-more semantics:

- Modification of Pseudo-Schema for wsag:Terms

```
<wsag:Terms>
  <wsag:All>
    {
      <wsag:All>
        wsag:TermCompositorType
      </wsag:All> |
      <wsag:OneOrMore>
        wsag:TermCompositorType
      </wsag:OneOrMore> |
      <wsag:ExactlyOne>
        wsag:TermCompositorType
      </wsag:ExactlyOne> |
      <wsag:ServiceDescriptionTerm>
        wsag:ServiceDescriptionTermType
      </wsag:ServiceDescriptionTerm> |
      <wsag:ServiceReference>
        wsag:ServiceReferenceType
      </wsag:ServiceReference> |
      <wsag:ServiceProperties>
        wsag:ServicePropertiesType
      </wsag:ServiceProperties> |
      <wsag:GuaranteeTerm>
        wsag:GuaranteeTermType
      </wsag:GuaranteeTerm>
    } +
  </wsag:All>
</wsag:Terms>
```

After OGF19 Reflected comments in the Mailing-List (2)



- Changed all references to GGF to OGF.
- Added some acknowledgements based on contributions to this last draft.
- Removed unneeded references.
- Lat call was issued by Wolfgang:
 - The one-week working group last call will start Monday, March 19 and finish Sunday, March 25

However.. Bugs were pointed out during the last call (1).



- 1. IMPORTANT (Agreement.wsdl) The following part should be removed from Agreement.wsdl

```
<xs:element ref="wsag:AgreementServiceReference"
minOccurs="0" maxOccurs="unbounded" />
```

- and the following be removed from agreement_types.xsd

```
<xs:element name="AgreementServiceReference"
type="wsag:AgreementServiceReferenceType" />
<xs:complexType name="AgreementServiceReferenceType">
  <xs:sequence>
    <xs:any namespace="##other" processContents="lax" />
  </xs:sequence>
  <xs:attribute name="ServiceName" type="xs:NCName" />
</xs:complexType>
```

- 2. IMPORTANT The definition and usage of faults is different for AgreementFactory and PendingAgreementFactory. It seems that the PendingAgreementFactory has not been updated to catch up with the fault definition changes in AgreementFactory.
- 3. MINOR (Agreement.wsdl and AgreementFactory.wsdl) Unnecessary soap namespace definition for soap and wsa in WSDL

```
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" (no reference to
soap)
```

```
xmlns:wsa="http://www.w3.org/2005/08/addressing" (all reference are
in type definition, it is enough to define it in the schema element)
```

However.. Bugs were pointed out during the last call (2).



- 4. MINOR (agreement_types.xsd) Several element definition use separate closing element tag. This is inconsistent with the style of other element definitions. These include the following:
 - -current-

```
<xs:element name="ServiceTermReference" type="xs:string">
</xs:element>
<xs:element name="KPITarget" type="wsag:KPITargetType">
</xs:element>
<xs:element name="CustomServiceLevel" type="xs:anyType">
</xs:element>
<xs:element name="CustomServiceLevel" type="xs:anyType">
</xs:element>
```
 - -suggested-

```
<xs:element name="ServiceTermReference" type="xs:string" />
<xs:element name="KPITarget" type="wsag:KPITargetType" />
<xs:element name="CustomServiceLevel" type="xs:anyType" />
<xs:element name="CustomServiceLevel" type="xs:anyType" />
```

However.. Bugs were pointed out during the last call (3).



```
<xs:simpleType name="ServiceRoleType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="ServiceConsumer "/>
    <xs:enumeration value="ServiceProvider"/>
  </xs:restriction>
</xs:simpleType>
```

- The white space after in "ServiceConsumer " needs to be deleted.

However.. Bugs were pointed out during the last call (4). Changing Pseudo-code to reflect the changes in the WSDL/xsd



- 1. the Section 9.4.6 Resource Property
wsag:AgreementServiceReferenceList should be removed, since this was removed from the wsdl
- 2. the pseudo code in section 9.5.1 should now look like:
 <wsag:AgreementState>
 <wsag:State>wsag:AgreementStateDefinition</wsag:State>
 <xs:any##other/> *
 </wsag:AgreementState>
- 3. the description of the pseudo code has to be adopted
 /wsag:AgreementState
 The agreement state type has open content so that additional domain-specific state information can be expressed.
 /wsag:AgreementState/wsag:State
 The agreement state must be one of the following values: Pending, PendingAndTerminating, Observed, ObservedAndTerminating, Rejected, Complete or Terminated. The individual states are as described in Section 7.1.
- 4. the title of section 9.5.2 should be renamed to Resource Property
 wsag:ServiceTermState

However.. Bugs were pointed out during the last call (5). Changing Pseudo-code to reflect the changes in the WSDL/xsd



- 5. the pseudo code in section 9.5.2 should now look like:

```
<wsag:ServiceTermState termName="xs:string">
  <wsag:State>wsag:ServiceTermStateDefinition</wsag:State>
  <wsag:Processing>
    <xs:any##other/> *
  </wsag:Processing> ?
  <wsag:Idle>
    <xs:any##other/> *
  </wsag:Idle> ?
  <xs:any##other/> *
</wsag:ServiceTermState> *
```
- 6. the description of the pseudo code has to be adopted
 - /wsag:ServiceTermState
List of service states indexed by name.
 - /wsag:ServiceTermState/@termName
Name of the term to which it refers.
 - /wsag:ServiceTermState/wsag:State
The state of a service term. The state can be NotReady, Ready or Completed.
 - /wsag:ServiceTermState/wsag:Processing
Substate of Ready.
 - /wsag:ServiceTermState/wsag:Idle
Substate of Ready.

However.. Bugs were pointed out during the last call (6). Changing Pseudo-code to reflect the changes in the WSDL/xsd



- 7. the title of section 9.5.3 should be renamed to Resource Property wsag:GuaranteeTermState
- 8. the pseudo code in section 9.5.3 should now look like:

```
<wsag:GuaranteeTermState termName="xs:string">
  <wsag:State>wsag:GuaranteeTermStateDefinition</wsag:State>
  <wsag:Processing>
    <xs:any##other/> *
  </wsag:Processing> ?
  <wsag:Idle>
    <xs:any##other/> *
  </wsag:Idle> ?
  <xs:any##other/> *
</wsag:GuaranteeTermState> *
```
- 9. the description of the pseudo code has to be adopted
 - /wsag:GuaranteeTermState
List of guarantee states indexed by name.
 - /wsag:GuaranteeTermState/@termName
Name of the term to which it refers.
 - /wsag:GuaranteeTermState/wsag:State
The state of the guarantee. This can be NotDetermined, Fulfilled or Violated
-

However.. Bugs were pointed out during the last call (7). Changing Pseudo-code to reflect the changes in the WSDL/xsd



- - In section 9.5.1 the following has to be removed:
 - /wsag:AgreementState/wsag:Pending
An agreement state which is in state Pending.
 - /wsag:AgreementState/wsag:PendingAndTerminating
An agreement state which is in state PendingAndTerminating.
 - /wsag:AgreementState/wsag:Observed
An agreement state which is in state Observed.
 - /wsag:AgreementState/wsag:ObservedAndTerminating
An agreement state which is in state ObservedAndTerminating.
 - /wsag:AgreementState/wsag:Rejected
An agreement state which is in state Rejected
 - /wsag:AgreementState/wsag:Complete
An agreement state which is in state Complete
 - /wsag:AgreementState/wsag:Terminated
An agreement state which is in state Terminated
- The state of the agreement is now determined by the value of the /wsag:AgreementState/wsag:State element. The above mentioned elements should be removed.

However.. Bugs were pointed out during the last call (8). Changing Pseudo-code to reflect the changes in the WSDL/xsd



- The pseudo code in section 9.5.2 / 9.5.3 was not correct. Here is the corrected version.

```
<wsag:ServiceTermState termName="xs:string">
  <wsag:State>wsag:ServiceTermStateDefinition</wsag:State>
  {
    <wsag:Processing>
      <xs:any##other/>
    </wsag:Processing> |
    <wsag:Idle>
      <xs:any##other/>
    </wsag:Idle> |
    <xs:any##other/>
  } ?
</wsag:ServiceTermState> *
```

```
<wsag:GuaranteeTermState termName="xs:string">
  <wsag:State>wsag:GuaranteeTermStateDefinition</wsag:State>
  <xs:any##other/> ?
</wsag:GuaranteeTermState> *
```

However.. Bugs were pointed out during the last call (9).



- Changed the xml schema so that idle and processing substates only have meaning for the service term states.

- Moved

```
<xs:choice minOccurs="0">  
  <xs:any namespace="##other" processContents="lax"/>  
  <!--Processing and Idle only as substates of Ready-->  
  <xs:element name="Processing" type="wsag:InnerTermStateType"/>  
  <xs:element name="Idle" type="wsag:InnerTermStateType"/>  
</xs:choice>
```

- from TermStateType to ServiceTermStateType and added a new element

```
<xs:any namespace="##other" processContents="lax" minOccurs="0"/>
```

- to GuaranteeTermStateType..

Announced completion of the final call on 29th
March



- The final version including all changes received after the one week final call period is now available here:
- http://forge.gridforum.org/sf/docman/do/downloadDocument/projects.graap-wg/docman.root.current_drafts/doc6091/48

However.. There were some more mistakes which had to be modified (1)



- Old error which had been pointed out erased but got resurrected..
- According to chapter 9.4 Port Type wsag:Agreement, the Agreement has the following Resource Properties: wsag:Name, wsag:Id, wsag:Context, and wsag:Terms.
- The Schema files however use "wsag:AgreementId" instead of "wsag:Id":

```
<xs:complexType name="AgreementPropertiesType">
  <xs:sequence>
    <xs:element ref="wsag:Name" minOccurs="0" />
    <xs:element ref="wsag:AgreementId" />
    <xs:element ref="wsag:Context" />
    <xs:element ref="wsag:Terms" />
  </xs:sequence>
</xs:complexType>
```

However.. There were some more mistakes which had to be modified (2)



- The description of the GuaranteeTerms does not contain the @Name attribute even though it is inherited from TermType and necessary for the GuaranteeTermStateList. You need it to refer to the GuaranteeTerms.

Hopefully the spec gets approved before
OGF20



- Many thanks to all the people who contributed to the spec!!!