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semantically valid.
In XQueryX expressions, Item names are mapped to variable names.

Any other constraint language MAY be equally or better suited for particular purposes.

削除:

6 Compliance of Offers with Templates

The purpose of templates is to give guidance on what forms of offer an agreement responder wishes to receive. As such, offers SHOULD in general comply with one of the templates advertised by the responder. However, the responder MAY accept offers which do not match any template, and the responder also MAY reject offers that do match for other policy reasons. In this section we define the concept of agreement template compliance.

Definition: An agreement template offer is *compliant* with a template advertised by an agreement responder if and only if each term of service described in the Terms section of the agreement offer complies with the term constraints expressed in the wsag:CreationConstraints section of the agreement template.

In addition, certain portions of the Context section of the offer have a required relation to corresponding portions of the Context in the template. These are:

- wsag:AgreementResponder:The AgreementResponder value provided in the offer MUST match the value, if any, specified in the template.
- wsag:TemplateId: The TemplateId in the offer must exactly match the name provided in the template document against which compliance is being checked. If the TemplateId is not provided, the provider MAY use any policy to determine compliance. These MAY include rejecting all, testing against all templates, or evaluating independently of the templates advertised.

書式変更: 箇条書き + レベル : 1 + 整列 : 6.3 mm + タブ : 12.7 mm + インデント : 12.7 mm

削除: TemplateName

削除: TemplateName

削除: TemplateName

削除:

7 Runtime States

Agreements and Terms have a runtime state that can be monitored. The objective of term status monitoring is to observe agreement compliance at runtime. To interpret the state of a guarantee, the service term state must be known. If a service is not running, a guarantee term might not be determined. To interpret the state of a service term, the overall Agreement state must be known. If the Agreement is not accepted, the service and guarantee term states are not determined.

Verifying agreement and – particularly – terms states requires significant infrastructure and is dependent on the application environment and the domain. Hence, the verification of agreement and, term states is outside the scope of this specification.

7.1 Agreement States

The overall Agreement has a state derived from the Agreement protocol. The Agreement State observes the following state model.

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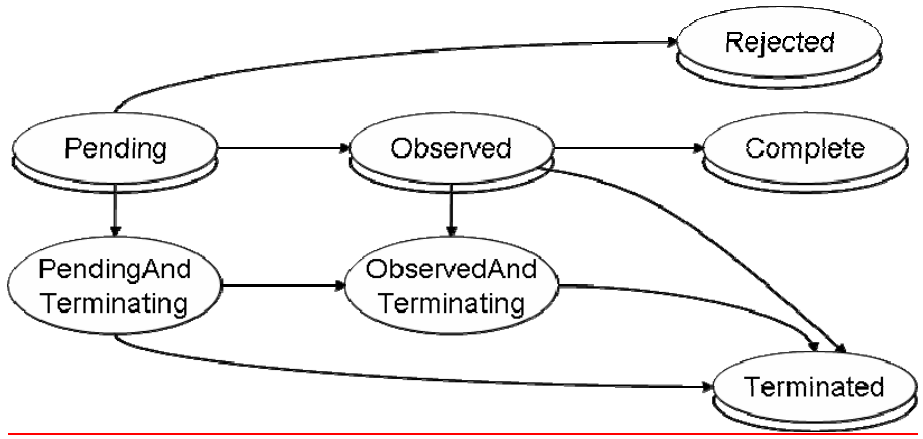

Pending, **PendingAndTerminating**, **Observed**, **ObservedAndTerminating**, **Rejected**, **Complete** and **Terminated** are the normative primary states of an Agreement State. Each state can be extended with one or more sub-states in a specific usage domain.

- **Pending** – The **Pending** state means that an Agreement offer has been made but it has been neither accepted nor rejected
- **PendingAndTerminating - The PendingAndTerminating** state means that an Agreement offer has been made and it has not been accepted or rejected and further more a Terminate operation has been issued by the Agreement Initiator and is being processed. This state MAY follow **Pending.**
- **Observed** – The **Observed** state means that an Agreement offer has been made and accepted. This state MAY follow **Pending**.
- **ObservedAndTerminating** – The **ObservedAndTerminating** state means that that an Agreement offer has been made and accepted. Further more a Terminate operation has been issued from the Agreement Initiator and is being processed by the Agreement Responder. This state MAY follow **Observed** or **PendingAndTerminating**.
- **Rejected** - The **Rejected** state means that an Agreement offer has been made and rejected. This state MAY follow **Pending**.
- **Complete** - The Complete state means that an Agreement offer has been received and accepted, and that all activities pertaining to the Agreement are finished. This state MAY follow **Observed**.
- **Terminated** - The terminated state means that an Agreement offer has been terminated by the Agreement Initiator and that the obligation no longer exists. This state MAY follow **Pending**, **PendingAndTerminating**, **Observed** or **ObservedAndTerminating**. The fact that the Agreement is in this state MAY imply that a domain specific penalty is imposed.

The **Pending** and **Rejected** states indicate that the responder is not obligated in any way. The **Pending** state indicates that the initiator is obligated if and only if the responder accepts the offer. The **Observed** state indicates that both parties are obligated with respect to the service and guarantee terms of the agreement. The **Complete** and **Terminated** states indicate that both parties MAY still have non-normative obligations related to business transactions e.g. accounting, billing and payment.

書式変更 ... [34]

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

削除: .

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

書式変更 : 箇条書きと段落番号

書式変更: フォント : 太字（なし）, コンプレックス スクリプト用のフォント : 太字（なし）

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

削除: .… ... [35]

書式変更 ... [36]

書式変更 : 箇条書きと段落番号

書式変更 ... [37]

削除: .

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

書式変更 ... [38]

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

削除: .... [39]

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

書式変更 : 箇条書きと段落番号

書式変更 ... [40]

コメント [Toshi33]: Actually in a race condition, Agreement State might have been in Complete state.

書式変更 ... [41]

削除: The **Observed** and **Complete** states both indicate that both parties are obligated, and furthermore they are a simple conjunction of the term-level states.

書式変更 ... [42]

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The accepted Agreement is **Complete** only when all service states are **Completed**, and the accepted Agreement is otherwise **Observed**.

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

There may be domain dependent cases where an agreement completes normally while in **PendingAndTerminating** or **ObservedAndTerminating** states. These cases can be handled by this by allowing a domain-dependent sub-state of **Terminated** to indicate a normal completion prior to termination completion.

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

7.2 Service Runtime States

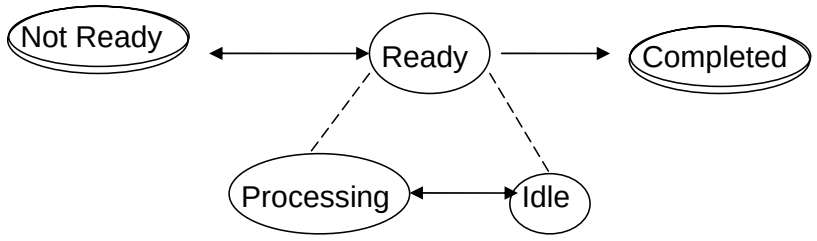
書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

The property exposes a **service state** for each service description term that abstractly describes the state of a service, independent of its domain. Each list element is a tuple (term ID, service term state).

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字

The service term state observes the following state model:

書式変更: フォント : 太字, コンプレックス スクリプト用のフォント : 太字



Not Ready, **Ready** and **Completed** are the normative primary states of a service description term. Each state can be extended with one or more sub-states in a specific usage domain. **Processing** and **Idle** are two normative sub-states of the primary state **Ready.**

The semantics of the states is as follows:

- **Not Ready** – The service cannot be used yet.
- **Ready** – The service can now start to be used by a client or to be executed by the service provider.
- **Processing** – The service is ready and currently processing a request or is otherwise active.
- **Idle** – The service is ready, however currently not being used.
- **Completed** – The service cannot be used any more and any service provider activity, e.g. performing a job, is finished. This state does not express whether an execution of a job or service was successful.

コメント [Toshi34]: Stephen's 45
削除: now

コメント [Toshi35]: Stephen's 46

Not Ready is the initial state of a service description term while the service is being activated or provisioned. Once a service is ready, it may cycle through the periods of active use and idling, represented by the sub-states of **Processing** and **Idle,** respectively. Once a service is completed and can not be reused further, the service description term reaches the terminal state, marked **Completed**.

If a service is not ready or ready, the state of a guarantee relating to this service term is not determined. If the service description term is processing or completed, the guarantee term can expose the states fulfilled or violated.

コメント [Toshi36]: Stephen's47
削除: Based on the service term state, agreement states can be determined.

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削除: 1/12/2006
削除: 11/1/2005
書式変更 : 箇条書きと段落番号

9.4.6 Resource Property wsag:AgreementServiceReferenceList

This OPTIONAL property specifies a list of named handles to the services of the agreement. The property MAY not be set and not all services MUST be listed with their references.

9.5 Port Type wsag:AgreementState

The purpose of this port type is to define a resource document type for monitoring the state of the agreement. This port type is not meant to be used as is but instead, its resource properties MAY be composed into a domain-specific Agreement port type.

削除:

9.5.1 Resource Property wsag:AgreementState

The property exposes an **Agreement state** for the whole agreement as defined in section 7.1.

The property has the following structure:

```
<wsag:AgreementState>
    <wsag:Pending>
      <xsd:any##other/> *
    </wsag:Pending> ?
    <wsag:PendingAndTerminating>
      <xsd:any##other/> *
    </wsag:PendingAndTerminating> ?
    <wsag:Observed>
      <xsd:any##other/> *
    </wsag:Observed> ?
    <wsag:ObservedAndTerminating>
      <xsd:any##other/> *
    </wsag:ObservedAndTerminating> ?
    <wsag:Rejected>
      <xsd:any##other/> *
    </wsag:Rejected> ?
    <wsag:Complete>
      <xsd:any##other/> *
    </wsag:Complete> ?
    <wsag:Terminated>
      <xsd:any##other/> *
    </wsag:Terminated> ?

</wsag:AgreementState>
```

書式変更: インデント : 最初の行 : 2.5 字

/wsag:AgreementState

This element MUST have exactly one child from: Pending, Observed, Rejected, Complete and Terminated to indicate the overall state of the Agreement resource. Each of these states for the entire agreement have open content so that additional domain-specific state information can be expressed. The individual states are as described in Section 7.1.

削除: and
削除: 7.1
削除: 7.1

/wsag:AgreementState/wsag:Pending

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削除: 3/15/2006
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An agreement state which is in state Pending.

削除: p

/wsag:AgreementState/wsag:PendingAndTerminating

An agreement state which is in state PendingAndTerminating.

/wsag:AgreementState/wsag:Observed

削除:

An agreement state which is in state Observed.

削除: o

/wsag:AgreementState/wsag:ObservedAndTerminating

An agreement state which is in state ObservedAndTerminating.

書式変更: DefItem

/wsag:AgreementState/wsag:Rejected

An agreement state which is in state Rejected

削除: r

/wsag:AgreementState/wsag:Complete

An agreement state which is in state Complete

削除: c

/wsag:AgreementState/wsag:Terminated

An agreement state which is in state Terminated

削除:

書式変更: DefItem

9.5.2 Resource Property wsag:ServiceTermStateList

The property exposes a **service state** for each service description term that abstractly describes the state of a service, as defined in section 7.2.

削除: 7.2

削除: 7.2

The set of values are:

- **NotReady**
- **Ready**
- **Completed**

The primary state **Ready** has associated sub-states with values of **Processing** and **Idle.** All of the states have open-content to support other domain-specific sub-states. If open-content is used in state Ready, the Processing and Idle sub-states MUST NOT appear.

The list has the following structure:

```
<wsag:ServiceTermStateList>
    <wsag:NotReady termName="xs:string">
      <xsd:any##other/> *
    </wsag:NotReady> *
    <wsag:Ready termName="xs:string">
        <Processing>
            <xsd:any##other/> *
        </Processing> ?
        <Idle>
            <xsd:any##other/> *
        </Idle> ?
        <xsd:any##other/> *
    </wsag:Ready> *
    <wsag:Completed termName="xs:string">
```

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削除: 11/1/2005

```
      <!--global elements are defined in the included schema-->
      <!--Resource property document declaration-->
      <xs:element name="agreementProperties"
                  type="wsag:AgreementPropertiesType"/>
      <xs:complexType name="AgreementPropertiesType">
        <xs:sequence>
          <xs:element ref="wsag:Name" minOccurs="0"/>
            <xs:element ref="wsag:Id"/>
            <xs:element ref="wsag:Context"/>
            <xs:element ref="wsag:Terms"/>
            <xs:element ref="wsag:AgreementServiceReferenceList"
                        minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <!--======================-->
      <!-- Operational input/output type declarations -->
      <xs:element name="TerminateInput"
type="wsag:TerminateInputType"/>
      <xs:element name="TerminateResponse"
type="wsag:TerminateOutputType"/>
      <xs:complexType name="TerminateInputType">
            <xs:sequence>
                  <xs:any processContents="lax" namespace="##any"/>
            </xs:sequence>
      </xs:complexType>
      <xs:complexType name="TerminateOutputType"/>
    </xs:schema>
  </wsdl:types>
      <wsdl:message name="TerminateInputMessage">
            <wsdl:part name="parameters"
element="wsag:TerminateInput"/>
      </wsdl:message>
      <wsdl:message name="TerminateOuputMessage">
            <wsdl:part name="parameters"
element="wsag:TerminateResponse"/>
      </wsdl:message>
  <wsdl:portType name="Agreement"
                 wsrf-rp:ResourceProperties="wsag:agreementProperties">
  <!-- resource property accessor definitions from WSRF-RP -->
    <wsdl:operation name="GetResourceProperty">
      <wsdl:input name="GetResourcePropertyRequest"
                  message="wsrf-rpw:GetResourcePropertyRequest"/>
```

削除: Agreement

削除: <xs:element ref="wssg:MembershipContentRule"

minOccurs="1" maxOccurs="unbounded">
<xs:annotation>
<xs:documentation>
Contains at least one membershipContentRule element such
that membershipContentRule1/@memberInterface=
"wsag:Agreement"

</xs:documentation>
</xs:annotation>
</xs:element>
<xs:element ref="wssg:Entry"

minOccurs="0" maxOccurs="unbounded"/>

書式変更: 英語 米国

削除:

削除: wsrp

削除: WSRP

削除: wsrp

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削除: 1/12/2006
削除: 11/1/2005

```
      <wsdl:output name="GetResourcePropertyResponse"
                   message="wsrf-rpw:GetResourcePropertyResponse"/>
      <wsdl:fault name="ResourceUnknownFault"
                   message="wsrf-rw:ResourceUnknownFault"/>
         <wsdl:fault name="ResourceUnavailableFault"
            message="wsrf-rw:ResourceUnavailableFault" />
      <wsdl:fault name="InvalidResourcePropertyQNameFault"
                message="wsrf-rpw:InvalidResourcePropertyQNameFault"/>
    </wsdl:operation>
      <wsdl:operation name="Terminate">
                   <wsdl:input name="TerminateRequest"
message="wsag:TerminateInputMessage"/>
                   <wsdl:output name="TerminateResponse"
message="wsag:TerminateOuputMessage"/>
                   <wsdl:fault name="ResourceUnknownFault"
message="wsrp:ResourceUnknownFault"/>
            </wsdl:operation>
  </wsdl:portType>

</wsdl:definitions>
```

削除: wsrp
削除: wsrp
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削除: wsrp
削除:

AgreementState Port Type WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
<wsdl:definitions
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:wsag="http://schemas.ggf.org/graap/2005/09/ws-agreement"
  xmlns:wsrf-rp="http://docs.oasis-open.org/wsrf/rp-2"
  xmlns:wsrf-bf=http://docs.oasis-open.org/wsrf/bf-2
  xmlns:wsrf-rw="http://docs.oasis-open.org/wsrf/rw-2"
  xmlns:wsrf-rpw="http://docs.oasis-open.org/wsrf/rpw-2"
  targetNamespace="http://schemas.ggf.org/graap/2005/09/ws-agreement">

  <wsdl:import
    namespace="http://docs.oasis-open.org/wsrf/rpw-2"
    location="http://docs.oasis-open.org/wsrf/rpw-2.wsdl"/>

  <wsdl:import
    namespace="http://docs.oasis-open.org/wsrf/rw-2"
    location="http://docs.oasis-open.org/wsrf/rw-2.wsdl" />
```

削除: wsrp
削除: "http://www.ibm.com/xml ns/stdwip/web-services/WS-ResourceProperties"
書式変更: 英語 米国
書式変更: 英語 米国
削除: wsbf
削除: "http://www.ibm.com/xml ns/stdwip/web-services/WS-BaseFaults"
書式変更: ハイパーリンク、英語 米国
書式変更: ハイパーリンク、英語 米国
変更されたフィールド コード
削除: "http://www.ibm.com/xml ns/stdwip/web-services/WS-ResourceProperties"
書式変更: 英語 米国
書式変更: 英語 米国
削除: "WS-ResourceProperties.wsdl"
書式変更: 英語 米国
書式変更: 英語 米国

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削除: 1/12/2006
削除: 11/1/2005

```
  <wsdl:types>
```

書式変更: ドイツ語 ドイツ

```
    <xs:schema
      targetNamespace="http://schemas.ggf.org/graap/2005/09/ws-
agreement"
```

削除: "http://www.ggf.org/namespaces/ws-agreement"

書式変更: ドイツ語 ドイツ

```
      xmlns:wsag="http://schemas.ggf.org/graap/2005/09/ws-agreement"
      xmlns:wsa="http://www.w3.org/2005/08/addressing"
      elementFormDefault="qualified"
      attributeFormDefault="qualified">
      <xs:include schemaLocation="agreement_state_types.xsd"/>

      <!--Resource property element declarations-->
      <!--global elements are defined in the included schema-->
      <!--Resource property document declaration-->
      <xs:element name="AgreementStateProperties"
                  type="wsag:AgreementStatePropertiesType"/>
      <xs:complexType name="AgreementStatePropertiesType">
        <xs:sequence>
          <xs:element ref="wsag:AgreementState"/>
          <xs:element ref="wsag:GuaranteeTermStateList"/>
          <xs:element ref="wsag:ServiceTermStateList"/>
        </xs:sequence>
      </xs:complexType>
    </xs:schema>

    </wsdl:types>
      <wsdl:portType
        name="AgreementState"
        wsrf-rp:ResourceProperties="wsag:AgreementStateProperties">
      <!-- resource property accessor definitions from WSRF-RP -->
        <wsdl:operation name="GetResourceProperty">
          <wsdl:input name="GetResourcePropertyRequest"
                      message="wsrf-rpw:GetResourcePropertyRequest"/>
          <wsdl:output name="GetResourcePropertyResponse"
                       message="wsrf-rpw:GetResourcePropertyResponse"/>
          <wsdl:fault name="ResourceUnknownFault"
                      message="wsrf-rw:ResourceUnknownFault"/>
         <wsdl:fault name="ResourceUnavailableFault"
            message="wsrf-rw:ResourceUnavailableFault" />
          <wsdl:fault name="InvalidResourcePropertyQNameFault"
                message="wsrf-rpw:InvalidResourcePropertyQNameFault"/>
        </wsdl:operation>
      </wsdl:portType>
</wsdl:definitions>
```

削除: "http://www.ggf.org/namespaces/ws-agreement"

書式変更: ドイツ語 ドイツ

削除: xmlns:wssg="http://www.ibm.com/xmlns/stdwip/web-services/WS-ServiceGroup"

削除: "http://schemas.xmlsoap.org/ws/2003/03/addressing"

書式変更: ドイツ語 ドイツ

削除: wsrp

削除: WSRP

削除: wsrp

削除: wsrp

削除: wsrp

削除:

削除: wsrp

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削除: 3/15/2006

削除: 1/12/2006

削除: 11/1/2005

Agreement State Types Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  targetNamespace="http://schemas.ggf.org/graap/2005/09/ws-agreement"
  elementFormDefault="qualified" attributeFormDefault="qualified"
  xmlns:wsag="http://schemas.ggf.org/graap/2005/09/ws-agreement"
  xmlns:wsrf-bf="http://docs.oasis-open.org/wsrf/bf-2"
  xmlns:wsa="http://www.w3.org/2005/08/addressing"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:complexType name="AgreementStateType">
    <xs:choice>
      <xs:element name="Pending" type="wsag:InnerAgreementStateType"/>
      <xs:element name="PendingAndTerminating"
type="wsag:InnerAgreementStateType"/>
      <xs:element name="Observed" type="wsag:InnerAgreementStateType"/>
      <xs:element name="ObservedAndTerminating"
type="wsag:InnerAgreementStateType"/>
      <xs:element name="Rejected" type="wsag:InnerAgreementStateType"/>
      <xs:element name="Complete" type="wsag:InnerAgreementStateType"/>
      <xs:element name="Terminated"
type="wsag:InnerAgreementStateType"/>
    </xs:choice>
  </xs:complexType>
 <xs:complexType name="InnerAgreementStateType">
   <xs:sequence>
     <xs:any namespace="##other" processContents="lax" minOccurs="0"/>
   </xs:sequence>
 </xs:complexType>

  <xs:complexType name="TermStateType">
    <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>
    <xs:attribute name="termName" type="xs:string"/>
  </xs:complexType>
```

削除: wsbf

削除: "http://www.ibm.com/xmlns/stdwip/web-services/WS-BaseFaults"

削除: "http://schemas.xmlsoap.org/ws/2003/03/addressing"

削除: