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9 Anexo I – MAS-ML DTD

Neste Anexo são apresentados os trechos que foram modificados e adicionados ao UML DTD para a extensão do mesmo, visando criar a representação do MAS-ML DTD.

```

<!-- -->
<!-- -->
<!-- Elementos existentes no UML DTD que foram alterados para -->
<!-- atender o MAS-ML -->
<!-- -->
...
<!-- ===== UML:Namespace ===== -->
<!ELEMENT UML:Namespace.ownedElement (UML:ModelElement | UML:Instance | UML:Object
| UML:LinkObject | UML:DataValue | UML:ComponentInstance | UML:NodeInstance |
UML:SubsystemInstance | UML:UseCaseInstance | UML:AttributeLink | UML:Link |
UML:LinkEnd | UML:Stimulus | UML:Procedure | UML:ExtensionPoint | UML:StateMachine
| UML:ActivityGraph | UML:Event | UML:TimeEvent | UML:CallEvent | UML:SignalEvent
| UML:ChangeEvent | UML:StateVertex | UML:State | UML:CompositeState |
UML:SubmachineState | UML:SubactivityState | UML:SimpleState | UML:ActionState |
UML:CallState | UML:ObjectFlowState | UML:FinalState | UML:Pseudostate |
UML:SynchState | UML:StubState | UML:Transition | UML:Guard | UML:Message |
UML:Interaction | UML:InteractionInstanceSet | UML:CollaborationInstanceSet |
UML:Partition | UML:Variable | UML:ArgumentSpecification | UML:PrimitiveFunction |
UML:ControlFlow | UML:Action | UML:CollectionAction | UML:FilterAction |
UML:IterateAction | UML:MapAction | UML:ReduceAction | UML:ConditionalAction |
UML:GroupAction | UML:LoopAction | UML:HandlerAction | UML:PrimitiveAction |
UML:ApplyFunctionAction | UML:CodeAction | UML:LiteralValueAction |
UML:MarshalAction | UML:NullAction | UML:TestIdentityAction | UML:UnmarshalAction
| UML:JumpAction | UML:InvocationAction | UML:AsynchronousInvocationAction |
UML:SynchronousInvocationAction | UML:ClearAssociationAction | UML:LinkAction |
UML:ReadLinkAction | UML:WriteLinkAction | UML:CreateLinkAction |
UML:CreateLinkObjectAction | UML:DestroyLinkAction | UML:ReadLinkObjectEndAction |
UML:ReadLinkObjectQualifierAction | UML:AttributeAction | UML:ClearAttributeAction
| UML:ReadAttributeAction | UML:WriteAttributeAction | UML:AddAttributeValueAction
| UML:RemoveAttributeValueAction | UML:CreateObjectAction |
UML:DestroyObjectAction | UML:ReadIsClassifiedObjectAction |
UML:ReclassifyObjectAction | UML:ReadExtentAction | UML:ReadSelfAction |
UML:StartObjectStateMachineAction | UML:VariableAction | UML:ClearVariableAction |
UML:ReadVariableAction | UML:WriteVariableAction | UML:AddVariableValueAction |
UML:RemoveVariableValueAction | UML:ExplicitInvocationAction |
UML:CallOperationAction | UML:SendSignalAction | UML:BroadcastSignalAction |
UML:CallProcedureAction | UML>DataFlow | UML:Pin | UML:InputPin | UML:OutputPin |
UML:GeneralizableElement | UML:Collaboration | UML:Classifier | UML:Signal | UML:Exception
| UML:UseCase | UML:Actor | UML:ClassifierRole | UML:ClassifierInState | UML:Class
| MASML:AgentClass | MASML:OrganizationClass | MASML:PassiveEnvironmentClass |
MASML:ActiveEnvironmentClass | MASML:ObjectRoleClass | MASML:AgentRoleClass |
MASML:AgentAction | MASML:AgentPlan | MASML:AgentProtocol | MASML:Inhabit |
MASML:Ownership | MASML:Play | MASML:Control | UML:AssociationClass | UML:DataType
| UML:Primitive | UML:Enumeration | UML:ProgrammingLanguageDataType |
UML:Interface | UML:Component | UML:Node | UML:Artifact | UML:Subsystem |
UML:Association | UML:AssociationRole | UML:Stereotype | UML:Package | UML:Model |
UML:Namespace | UML:Feature | UML:StructuralFeature | UML:Attribute |
UML:BehavioralFeature | UML:Reception | UML:Operation | UML:Method |
UML:AssociationEnd | UML:AssociationEndRole | UML:Constraint | UML:Relationship |
UML:Extend | UML:Include | UML:Generalization | UML:Dependency | UML:Abstraction |
UML:Usage | UML:Binding | UML:Permission | UML:Flow | UML:Parameter | UML:Comment
| UML:EnumerationLiteral | UML:TagDefinition | UML:TaggedValue)*>
<!ENTITY % UML:NamespaceFeatures '%UML:ModelElementFeatures; |
UML:Namespace.ownedElement'>
<!ENTITY % UML:NamespaceAtts '%UML:ModelElementAtts;'>
<!ELEMENT UML:Namespace (%UML:NamespaceFeatures;)*>
<!ATTLIST UML:Namespace

```

```

    %UML:NamespaceAtts;
  >
  ...
  <!-- ===== UML:Classifier ===== -->
  <!ELEMENT UML:Classifier.feature (UML:Feature | UML:StructuralFeature |
  UML:Attribute | UML:BehavioralFeature | UML:Reception | UML:Operation |
  MASML:AgentAction | MASML:AgentPlan | MASML:AgentProtocol | UML:Method)*>
  <!ELEMENT UML:Classifier.powertypeRange (UML:Generalization)*>
  <!ENTITY % UML:ClassifierFeatures '%UML:GeneralizableElementFeatures; |
  UML:Namespace.ownedElement |
  UML:Classifier.feature |
  UML:Classifier.powertypeRange'>
  <!ENTITY % UML:ClassifierAtts '%UML:GeneralizableElementAtts;
  powertypeRange IDREFS #IMPLIED'>
  <!ELEMENT UML:Classifier (%UML:ClassifierFeatures;)*>
  <!ATTLIST UML:Classifier
    %UML:ClassifierAtts;
  >
  ...
  <!-- ===== UML:TemplateParameter ===== -->
  <!ELEMENT UML:TemplateParameter.template (UML:ModelElement)*>
  <!ELEMENT UML:TemplateParameter.parameter (UML:ModelElement | UML:Instance |
  UML:Object | UML:LinkObject | UML:DataValue | UML:ComponentInstance |
  UML:NodeInstance | UML:SubsystemInstance | UML:UseCaseInstance | UML:AttributeLink
  | UML:Link | UML:LinkEnd | UML:Stimulus | UML:Procedure | UML:ExtensionPoint |
  UML:StateMachine | UML:ActivityGraph | UML:Event | UML:TimeEvent | UML:CallEvent |
  UML:SignalEvent | UML:ChangeEvent | UML:StateVertex | UML:State |
  UML:CompositeState | UML:SubmachineState | UML:SubactivityState | UML:SimpleState
  | UML:ActionState | UML:CallState | UML:ObjectFlowState | UML:FinalState |
  UML:Pseudostate | UML:SynchState | UML:StubState | UML:Transition | UML:Guard |
  UML:Message | UML:Interaction | UML:InteractionInstanceSet |
  UML:CollaborationInstanceSet | UML:Partition | UML:Variable |
  UML:ArgumentSpecification | UML:PrimitiveFunction | UML:ControlFlow | UML:Action |
  UML:CollectionAction | UML:FilterAction | UML:IterateAction | UML:MapAction |
  UML:ReduceAction | UML:ConditionalAction | UML:GroupAction | UML:LoopAction |
  UML:HandlerAction | UML:PrimitiveAction | UML:ApplyFunctionAction | UML:CodeAction
  | UML:LiteralValueAction | UML:MarshalAction | UML:NullAction |
  UML:TestIdentityAction | UML:UnmarshalAction | UML:JumpAction |
  UML:InvocationAction | UML:AsynchronousInvocationAction |
  UML:SynchronousInvocationAction | UML:ClearAssociationAction | UML:LinkAction |
  UML:ReadLinkAction | UML:WriteLinkAction | UML:CreateLinkAction |
  UML:CreateLinkObjectAction | UML:DestroyLinkAction | UML:ReadLinkObjectEndAction |
  UML:ReadLinkObjectQualifierAction | UML:AttributeAction | UML:ClearAttributeAction
  | UML:ReadAttributeAction | UML:WriteAttributeAction | UML:AddAttributeValueAction
  | UML:RemoveAttributeValueAction | UML:CreateObjectAction |
  UML:DestroyObjectAction | UML:ReadIsClassifiedObjectAction |
  UML:ReclassifyObjectAction | UML:ReadExtentAction | UML:ReadSelfAction |
  UML:StartObjectStateMachineAction | UML:VariableAction | UML:ClearVariableAction |
  UML:ReadVariableAction | UML:WriteVariableAction | UML:AddVariableValueAction |
  UML:RemoveVariableValueAction | UML:ExplicitInvocationAction |
  UML:CallOperationAction | UML:SendSignalAction | UML:BroadcastSignalAction |
  UML:CallProcedureAction | UML>DataFlow | UML:Pin | UML:InputPin | UML:OutputPin |
  UML:GeneralizableElement | UML:Collaboration | UML:Classifier | UML:Signal |
  UML:Exception | UML:UseCase | UML:Actor | UML:ClassifierRole |
  UML:ClassifierInState | UML:Class | MASML:AgentClass | MASML:OrganizationClass |
  MASML:PassiveEnvironmentClass | MASML:ActiveEnvironmentClass |
  MASML:ObjectRoleClass | MASML:AgentRoleClass | MASML:AgentAction | MASML:AgentPlan
  | MASML:AgentProtocol | MASML:Inhabit | MASML:Ownership | MASML:Play |
  MASML:Control | MASML:AgentMessage | UML:AssociationClass | UML:DataType |
  UML:Primitive | UML:Enumeration | UML:ProgrammingLanguageDataType | UML:Interface
  | UML:Component | UML:Node | UML:Artifact | UML:Subsystem | UML:Association |
  UML:AssociationRole | UML:Stereotype | UML:Package | UML:Model | UML:Namespace |
  UML:Feature | UML:StructuralFeature | UML:Attribute | UML:BehavioralFeature |
  UML:Reception | UML:Operation | UML:Method | UML:AssociationEnd |
  UML:AssociationEndRole | UML:Constraint | UML:Relationship | UML:Extend |
  UML:Include | UML:Generalization | UML:Dependency | UML:Abstraction | UML:Usage |
  UML:Binding | UML:Permission | UML:Flow | UML:Parameter | UML:Comment |
  UML:EnumerationLiteral | UML:TagDefinition | UML:TaggedValue)*>
  <!ELEMENT UML:TemplateParameter.defaultElement (UML:ModelElement)*>
  <!ENTITY % UML:TemplateParameterFeatures 'XMI.extension |
  UML:TemplateParameter.template |
  UML:TemplateParameter.parameter |
  UML:TemplateParameter.defaultElement'>
  <!ENTITY % UML:TemplateParameterAtts '%XMI.element.att; %XMI.link.att;
  template IDREFS #IMPLIED
  defaultElement IDREFS #IMPLIED'>

```

```

<!ELEMENT UML:TemplateParameter (%UML:TemplateParameterFeatures;)*>
<!ATTLIST UML:TemplateParameter
    %UML:TemplateParameterAtts;
>
...
<!-- -->
<!-- -->
<!-- Elementos criados para o MAS-ML DTD -->
<!-- -->
<!-- ===== MASML:AgentClass ===== -->
<!ELEMENT MASML:AgentClass.roles (MASML:AgentRoleClass)*>
<!ELEMENT MASML:AgentClass.goal (#PCDATA)>
<!ATTLIST MASML:AgentClass.goal
    plan IDREFS #IMPLIED
>
<!ENTITY % MASML:AgentClassFeatures '%UML:ClassifierFeatures; |
    MASML:AgentClass.roles | MASML:AgentClass.goal'>
<!ENTITY % MASML:AgentClassAtts '%UML:ClassifierAtts;
    plan IDREFS #IMPLIED'>
<!ELEMENT MASML:AgentClass (%MASML:AgentClassFeatures;)*>
<!ATTLIST MASML:AgentClass
    %MASML:AgentClassAtts;
>
<!-- ===== MASML:OrganizationClass ===== -->
<!ELEMENT MASML:OrganizationClass.roles (MASML:AgentRoleClass)*>
<!ELEMENT MASML:OrganizationClass.organizations (MASML:OrganizationClass)*>
<!ELEMENT MASML:OrganizationClass.commitments (MASML:AgentRoleClass)*>
<!ENTITY % MASML:OrganizationClassFeatures '%UML:ClassifierFeatures; |
    MASML:OrganizationClass.roles |
    MASML:OrganizationClass.organizations |
    MASML:OrganizationClass.commitments'>
<!ENTITY % MASML:OrganizationClassAtts '%UML:ClassifierAtts;
    isMain (true|false) #IMPLIED'>
<!ELEMENT MASML:OrganizationClass (%MASML:OrganizationClassFeatures;)*>
<!ATTLIST MASML:OrganizationClass
    %MASML:OrganizationClassAtts;
>
<!-- ===== MASML:PassiveEnvironmentClass ===== -->
<!ENTITY % MASML:PassiveEnvironmentClassFeatures '%UML:ClassifierFeatures;*>
<!ENTITY % MASML:PassiveEnvironmentClassAtts '%UML:ClassifierAtts;*>
<!ELEMENT MASML:PassiveEnvironmentClass
    (%MASML:PassiveEnvironmentClassFeatures;)*>
<!ATTLIST MASML:PassiveEnvironmentClass
    %MASML:PassiveEnvironmentClassAtts;
>
<!-- ===== MASML:ActiveEnvironmentClass ===== -->
<!ELEMENT MASML:ActiveEnvironmentClass.goal (#PCDATA)>
<!ATTLIST MASML:ActiveEnvironmentClass.goal
    plan IDREFS #IMPLIED
>
<!ENTITY % MASML:ActiveEnvironmentClassFeatures '%UML:ClassifierFeatures; |
    MASML:ActiveEnvironmentClass.goal'>
<!ENTITY % MASML:ActiveEnvironmentClassAtts '%UML:ClassifierAtts;
    plan IDREFS #IMPLIED'>
<!ELEMENT MASML:ActiveEnvironmentClass (%MASML:ActiveEnvironmentClassFeatures;)*>
<!ATTLIST MASML:ActiveEnvironmentClass
    %MASML:ActiveEnvironmentClassAtts;
>
<!-- ===== MASML:ObjectRoleClass ===== -->
<!ELEMENT MASML:ObjectRoleClass.multiplicity (#PCDATA | XMI.reference)*>
<!ELEMENT MASML:ObjectRoleClass.availableFeatures (UML:Feature)*>
<!ELEMENT MASML:ObjectRoleClass.conformingInstances (UML:Instance)*>
<!ELEMENT MASML:ObjectRoleClass.base (UML:Class)*>
<!ENTITY % MASML:ObjectRoleClassFeatures '%UML:ClassifierFeatures; |
    MASML:ObjectRoleClass.multiplicity |
    MASML:ObjectRoleClass.availableFeatures |
    MASML:ObjectRoleClass.conformingInstances |
    MASML:ObjectRoleClass.base'>
<!ENTITY % MASML:ObjectRoleClassAtts '%UML:ClassifierAtts;*>
<!ELEMENT MASML:ObjectRoleClass (%MASML:ObjectRoleClassFeatures;)*>
<!ATTLIST MASML:ObjectRoleClass
    %MASML:ObjectRoleClassAtts;
>
<!-- ===== MASML:AgentRoleClass ===== -->
<!ELEMENT MASML:AgentRoleClass.multiplicity (#PCDATA | XMI.reference)*>

```



```

<!ELEMENT MASML:AgentRoleClass.availableFeatures (UML:Feature)*>
<!ELEMENT MASML:AgentRoleClass.base (MASML:AgentClass)*>
<!ELEMENT MASML:AgentRoleClass.conformingInstances (UML:Instance)*>
<!ENTITY % MASML:AgentRoleClassFeatures '%UML:ClassifierFeatures; |
  MASML:AgentRoleClass.multiplicity |
  MASML:AgentRoleClass.availableFeatures |
  MASML:AgentRoleClass.base |
  MASML:AgentRoleClass.conformingInstances'>
<!ENTITY % MASML:AgentRoleClassAtts '%UML:ClassifierAtts;'>
<!ELEMENT MASML:AgentRoleClass (%MASML:AgentRoleClassFeatures;)*>
<!ATTLIST MASML:AgentRoleClass
  %MASML:AgentRoleClassAtts;
>
...
<!-- ===== MASML:AgentMessage ===== -->
<!ELEMENT MASML:AgentMessage.label (#PCDATA)>
<!ELEMENT MASML:AgentMessage.content (#PCDATA)>
<!ENTITY % MASML:AgentMessageFeatures '%UML:GeneralizableElementFeatures; |
  UML:Namespace.ownedElement |
  MASML:AgentMessage.label |
  MASML:AgentMessage.content'>
<!ENTITY % MASML:AgentMessageAtts '%UML:GeneralizableElementAtts;
  sender IDREFS #IMPLIED
  receiver IDREFS #IMPLIED'>
<!ELEMENT MASML:AgentMessage (%MASML:AgentMessageFeatures;)*>
<!ATTLIST MASML:AgentMessage
  %MASML:AgentMessageAtts;
>
<!-- ===== MASML:AgentAction ===== -->
<!ELEMENT Condition (#PCDATA)>
<!ATTLIST Condition
  name CDATA #IMPLIED
  type CDATA #IMPLIED
  default CDATA #IMPLIED
>
<!ELEMENT MASML:AgentAction.preConditions (Condition)*>
<!ELEMENT MASML:AgentAction.posConditions (Condition)*>
<!ENTITY % MASML:AgentActionFeatures '%UML:BehavioralFeatureFeatures; |
  MASML:AgentAction.preConditions |
  MASML:AgentAction.posConditions'>
<!ENTITY % MASML:AgentActionAtts '%UML:BehavioralFeatureAtts;'>
<!ELEMENT MASML:AgentAction (%MASML:AgentActionFeatures;)*>
<!ATTLIST MASML:AgentAction
  %MASML:AgentActionAtts;
>
<!-- ===== MASML:AgentPlan ===== -->
<!ELEMENT MASML:AgentPlan.actions (Action)*>
<!ELEMENT Action (#PCDATA)>
<!ATTLIST Action
  name CDATA #IMPLIED
  %XMI.element.att;
  %XMI.link.att;
>
<!ELEMENT MASML:AgentPlan.goal (#PCDATA)>
<!ATTLIST MASML:AgentPlan.goal
  name CDATA #IMPLIED
  stereotype IDREFS #IMPLIED
  %XMI.element.att;
  %XMI.link.att;
>
<!ENTITY % MASML:AgentPlanFeatures '%UML:BehavioralFeatureFeatures; |
  MASML:AgentPlan.actions |
  MASML:AgentPlan.goal'>
<!ENTITY % MASML:AgentPlanAtts '%UML:BehavioralFeatureAtts;'>
<!ELEMENT MASML:AgentPlan (%MASML:AgentPlanFeatures;)*>
<!ATTLIST MASML:AgentPlan
  %MASML:AgentPlanAtts;
>
<!-- ===== MASML:AgentProtocol ===== -->
<!ELEMENT MASML:AgentProtocol.messages (MASML:AgentMessage)*>
<!ENTITY % MASML:AgentProtocolFeatures '%UML:BehavioralFeatureFeatures; |
  MASML:AgentProtocol.messages'>
<!ENTITY % MASML:AgentProtocolAtts '%UML:BehavioralFeatureAtts;'>
<!ELEMENT MASML:AgentProtocol (%MASML:AgentProtocolFeatures;)*>
<!ATTLIST MASML:AgentProtocol
  %MASML:AgentProtocolAtts;

```

```

>
...
<!-- ===== MASML:Inhabit ===== -->
<!ELEMENT MASML:Inhabit.environment (UML:ModelElement)*>
<!ELEMENT MASML:Inhabit.citizen (UML:ModelElement)*>
<!ENTITY % MASML:InhabitFeatures '%UML:RelationshipFeatures; |
  MASML:Inhabit.environment |
  MASML:Inhabit.citizen'>
<!ENTITY % MASML:InhabitAtts '%UML:RelationshipAtts;
  environment IDREFS #IMPLIED
  citizen IDREFS #IMPLIED'>
<!ELEMENT MASML:Inhabit (%MASML:InhabitFeatures;)*>
<!ATTLIST MASML:Inhabit
  %MASML:InhabitAtts;
>
<!-- ===== MASML:Ownership ===== -->
<!ELEMENT MASML:Ownership.owner (UML:ModelElement)*>
<!ELEMENT MASML:Ownership.member (UML:ModelElement)*>
<!ENTITY % MASML:OwnershipFeatures '%UML:RelationshipFeatures; |
  MASML:Ownership.owner |
  MASML:Ownership.member'>
<!ENTITY % MASML:OwnershipAtts '%UML:RelationshipAtts;
  owner IDREFS #IMPLIED
  member IDREFS #IMPLIED'>
<!ELEMENT MASML:Ownership (%MASML:OwnershipFeatures;)*>
<!ATTLIST MASML:Ownership
  %MASML:OwnershipAtts;
>
<!-- ===== MASML:Play ===== -->
<!ELEMENT MASML:Play.player (UML:ModelElement)*>
<!ELEMENT MASML:Play.played (UML:ModelElement)*>
<!ELEMENT MASML:Play.member (UML:ModelElement)*>
<!ENTITY % MASML:PlayFeatures '%UML:RelationshipFeatures; |
  MASML:Play.player |
  MASML:Play.played |
  MASML:Play.member'>
<!ENTITY % MASML:PlayAtts '%UML:RelationshipAtts;
  player IDREFS #IMPLIED
  played IDREFS #IMPLIED
  member IDREFS #IMPLIED'>
<!ELEMENT MASML:Play (%MASML:PlayFeatures;)*>
<!ATTLIST MASML:Play
  %MASML:PlayAtts;
>
<!-- ===== MASML:Control ===== -->
<!ELEMENT MASML:Control.controller (UML:ModelElement)*>
<!ELEMENT MASML:Control.controlled (UML:ModelElement)*>
<!ENTITY % MASML:ControlFeatures '%UML:RelationshipFeatures; |
  MASML:Control.controller |
  MASML:Control.controlled'>
<!ENTITY % MASML:ControlAtts '%UML:RelationshipAtts;
  controller IDREFS #IMPLIED
  controlled IDREFS #IMPLIED'>
<!ELEMENT MASML:Control (%MASML:ControlFeatures;)*>
<!ATTLIST MASML:Control
  %MASML:ControlAtts;
>
...
<!-- ===== MASML:Diagram ===== -->
<!ELEMENT MASML:Diagram (MASML:GraphElement.semanticModel,
MASML:GraphElement.contained+)>
<!ATTLIST MASML:Diagram
  name CDATA #REQUIRED
  xmi.id CDATA #REQUIRED
>
<!ELEMENT MASML:GraphElement.contained (MASML:GraphNode)>
<!ELEMENT MASML:GraphElement.position (XMI.field+)>
<!ELEMENT MASML:GraphElement.semanticModel (MASML:SimpleSemanticModelElement |
MASML:Masml1SemanticModelBridge)>
<!ELEMENT MASML:GraphElement.size (XMI.field+)>
<!ELEMENT MASML:GraphNode (MASML:GraphElement.position, MASML:GraphElement.size,
MASML:GraphElement.semanticModel)>
<!ATTLIST MASML:GraphNode
  xmi.id CDATA #REQUIRED
>

```

```
<!ELEMENT MASML:Masml1SemanticModelBridge  
(MASML:Masml1SemanticModelBridge.element)>  
<!ATTLIST MASML:Masml1SemanticModelBridge  
  xmi.id CDATA #REQUIRED  
>  
<!ELEMENT MASML:Masml1SemanticModelBridge.element (UML:Class | MASML:AgentClass |  
MASML:AgentRoleClass | MASML:ObjectRoleClass | MASML:OrganizationClass |  
MASML:PassiveEnvironmentClass | MASML:ActiveEnvironmentClass | UML:Association |  
UML:Generalization | UML:Dependency | MASML:Ownership | MASML:Control | MASML:Play  
| MASML:Inhabit)>  
<!ELEMENT MASML:SimpleSemanticModelElement EMPTY>  
<!ATTLIST MASML:SimpleSemanticModelElement  
  typeInfo CDATA #REQUIRED  
>  
<!ELEMENT XMI.field (#PCDATA)>  
<!-- ===== MASML:MASML ===== -->
```

10 Anexo II – Exemplo Virtual MarketPlace

10.1. MAS-ML XMI

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<XMI xmi.version="1.1" xmlns:MASML="org/MASML1.0" xmlns:UML="org/UML1.0">
  <XMI.header>
    <XMI.documentation>
      <XMI.exporter>MAS-ML Tool</XMI.exporter>
      <XMI.exporterVersion>0.5</XMI.exporterVersion>
    </XMI.documentation>
    <XMI.metamodel xmi.name="UML" xmi.version="1.4"/>
  </XMI.header>
  <XMI.content>
    <UML:Model isAbstract="false" name="Virtual_MarketPlace" visibility="public"
xmi.id="S.1">
      <UML:Namespace.ownedElement>
        <UML:Class isAbstract="false" name="Item" namespace="S.1" visibility="public"
xmi.id="S.2">
          <UML:Classifier.feature>
            <UML:Attribute name="preco" visibility="public" xmi.id="S.11">
              <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                  <UML:Multiplicity.range>
                    <UML:MultiplicityRange lower="1" upper="1"/>
                  </UML:Multiplicity.range>
                </UML:Multiplicity>
              </UML:StructuralFeature.multiplicity>
            </UML:Attribute>
            <UML:StructuralFeature.type>
              <UML:Classifier>
                <UML:Namespace.ownedElement>
                  <UML:DataType xmi.idref="G.1"/>
                </UML:Namespace.ownedElement>
              </UML:Classifier>
            </UML:StructuralFeature.type>
          </UML:Attribute>
          <UML:Attribute name="nome" visibility="public" xmi.id="S.12">
            <UML:StructuralFeature.multiplicity>
              <UML:Multiplicity>
                <UML:Multiplicity.range>
                  <UML:MultiplicityRange lower="1" upper="1"/>
                </UML:Multiplicity.range>
              </UML:Multiplicity>
            </UML:StructuralFeature.multiplicity>
            <UML:StructuralFeature.type>
              <UML:Classifier>
                <UML:Namespace.ownedElement>
                  <UML:DataType xmi.idref="G.2"/>
                </UML:Namespace.ownedElement>
              </UML:Classifier>
            </UML:StructuralFeature.type>
          </UML:Attribute>
          <UML:Operation isAbstract="false" name="setPreco" visibility="public"
xmi.id="S.13">
            <UML:BehavioralFeature.parameter>
              <UML:Parameter kind="in" name="intPreco" type="G.3" xmi.id="XX.1"/>
              <UML:Parameter kind="return" name="setPreco.return" type="G.4"
xmi.id="XX.2"/>
            </UML:BehavioralFeature.parameter>
          </UML:Operation>
          <UML:Operation isAbstract="false" name="getNome" visibility="public"
xmi.id="S.14">
            <UML:BehavioralFeature.parameter>

```

```

        <UML:Parameter kind="return" name="getNome.return" type="G.2"
xmi.id="XX.3"/>
    </UML:BehavioralFeature.parameter>
</UML:Operation>
    <UML:Operation isAbstract="false" name="setNome" visibility="public"
xmi.id="S.15">
    <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="in" name="strNome" type="G.2" xmi.id="XX.4"/>
        <UML:Parameter kind="return" name="setNome.return" type="G.4"
xmi.id="XX.5"/>
    </UML:BehavioralFeature.parameter>
</UML:Operation>
    <UML:Operation isAbstract="false" name="getPreco" visibility="public"
xmi.id="S.16">
    <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="getPreco.return" type="G.3"
xmi.id="XX.6"/>
    </UML:BehavioralFeature.parameter>
</UML:Operation>
</UML:Classifier.feature>
</UML:Class>
    <MASML:AgentClass isAbstract="false" name="Lojista" namespace="S.1"
visibility="public" xmi.id="S.3">
    <UML:Classifier.feature>
        <UML:Attribute name="venda_item" stereotype="SS.1" visibility="public"
xmi.id="S.17">
        <UML:StructuralFeature.type>
            <UML:Classifier>
                <UML:Namespace.ownedElement>
                    <UML:DataType xmi.idref="G.1"/>
                </UML:Namespace.ownedElement>
            </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
        <UML:Attribute name="nome" stereotype="SS.3" visibility="public"
xmi.id="S.18">
        <UML:StructuralFeature.type>
            <UML:Classifier>
                <UML:Namespace.ownedElement>
                    <UML:DataType xmi.idref="G.2"/>
                </UML:Namespace.ownedElement>
            </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
        <MASML:AgentAction name="Calcular_Preco" visibility="public" xmi.id="S.19"/>
        <MASML:AgentAction name="Oferecer item" visibility="public" xmi.id="S.20"/>
        <MASML:AgentAction name="Informar Venda" visibility="public" xmi.id="S.21"/>
        <MASML:AgentPlan name="Vendendo_Item" visibility="public" xmi.id="S.22">
        <MASML:AgentPlan.actions>
            <Action xmi.idref="S.19"/>
            <Action xmi.idref="S.20"/>
            <Action xmi.idref="S.21"/>
        </MASML:AgentPlan.actions>
    </MASML:AgentPlan>
</UML:Classifier.feature>
</MASML:AgentClass>
    <MASML:AgentClass isAbstract="false" name="Usuario" namespace="S.1"
visibility="public" xmi.id="S.4">
    <UML:Classifier.feature>
        <UML:Attribute name="compra_item" stereotype="SS.1" visibility="public"
xmi.id="S.23">
        <UML:Attribute.initialValue>
            <UML:Expression body="true"/>
        </UML:Attribute.initialValue>
        <UML:StructuralFeature.type>
            <UML:Classifier>
                <UML:Namespace.ownedElement>
                    <UML:DataType xmi.idref="G.1"/>
                </UML:Namespace.ownedElement>
            </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
        <UML:Attribute name="procura_vendedor" stereotype="SS.1" visibility="public"
xmi.id="S.24">
        <UML:Attribute.initialValue>
            <UML:Expression body="true"/>
        </UML:Attribute.initialValue>
    </UML:Attribute>

```

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        </UML:Attribute.initialValue>
        <UML:StructuralFeature.type>
        <UML:Classifier>
        <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.1"/>
        </UML:Namespace.ownedElement>
        </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
    <UML:Attribute name="nome" stereotype="SS.3" visibility="public"
xmi.id="S.25">
        <UML:StructuralFeature.type>
        <UML:Classifier>
        <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.2"/>
        </UML:Namespace.ownedElement>
        </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
    <UML:Attribute name="item_desejado" stereotype="SS.3" visibility="public"
xmi.id="S.26">
        <UML:StructuralFeature.type>
        <UML:Classifier>
        <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.5"/>
        </UML:Namespace.ownedElement>
        </UML:Classifier>
        </UML:StructuralFeature.type>
    </UML:Attribute>
    <MASML:AgentAction name="Procurar Item" visibility="public" xmi.id="S.27"/>
    <MASML:AgentAction name="Rejeitar Oferta" visibility="public" xmi.id="S.28">
        <MASML:AgentAction.preConditions>
        <Condition default="" name="oferta" type="G.1"/>
        </MASML:AgentAction.preConditions>
    </MASML:AgentAction>
    <MASML:AgentAction name="Procurar_Vendedor" visibility="public"
xmi.id="S.29"/>
    <MASML:AgentAction name="Aceitar Oferta" visibility="public" xmi.id="S.30">
        <MASML:AgentAction.preConditions>
        <Condition default="" name="oferta" type="G.1"/>
        </MASML:AgentAction.preConditions>
    </MASML:AgentAction>
    <MASML:AgentAction name="Avaliar Proposta" visibility="public"
xmi.id="S.31"/>
    <MASML:AgentAction name="Pagar" visibility="public" xmi.id="S.32"/>
    <MASML:AgentPlan name="Comprando_Item" visibility="public" xmi.id="S.33">
        <MASML:AgentPlan.actions>
        <Action xmi.idref="S.28"/>
        <Action xmi.idref="S.27"/>
        <Action xmi.idref="S.30"/>
        <Action xmi.idref="S.31"/>
        <Action xmi.idref="S.32"/>
        </MASML:AgentPlan.actions>
        <MASML:AgentPlan.goal stereotype="SS.1" xmi.idref="S.23"/>
    </MASML:AgentPlan>
    <MASML:AgentPlan name="Procurando_Vendedor" visibility="public"
xmi.id="S.34">
        <MASML:AgentPlan.actions>
        <Action xmi.idref="S.29"/>
        </MASML:AgentPlan.actions>
        <MASML:AgentPlan.goal stereotype="SS.1" xmi.idref="S.24"/>
    </MASML:AgentPlan>
</UML:Classifier.feature>
</MASML:AgentClass>
    <MASML:OrganizationClass isAbstract="false" isMain="true" name="Loja_Virtual"
namespace="S.1" visibility="public" xmi.id="S.5">
        <UML:Classifier.feature>
        <UML:Attribute name="gerencia_vendedores" stereotype="SS.1"
visibility="public" xmi.id="S.35">
            <UML:Attribute.initialValue>
            <UML:Expression body="true"/>
            </UML:Attribute.initialValue>
        </UML:Attribute>
        <UML:StructuralFeature.type>
        <UML:Classifier>
        <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.1"/>

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        </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <UML:Attribute name="gerencia_itens" stereotype="SS.1" visibility="public"
xmi.id="S.36">
    <UML:Attribute.initialValue>
    <UML:Expression body="true"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.1"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <UML:Attribute name="vendedores" stereotype="SS.3" visibility="public"
xmi.id="S.37">
    <UML:Attribute.initialValue>
    <UML:Expression body="null"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.6"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <UML:Attribute name="itens" stereotype="SS.3" visibility="public"
xmi.id="S.38">
    <UML:Attribute.initialValue>
    <UML:Expression body="null"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.6"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <UML:Attribute name="compradores" stereotype="SS.3" visibility="public"
xmi.id="S.39">
    <UML:Attribute.initialValue>
    <UML:Expression body="null"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.6"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <UML:Attribute name="informe_vendas" stereotype="SS.5" visibility="public"
xmi.id="S.40">
    <UML:Attribute.initialValue>
    <UML:Expression body="true"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.1"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
</UML:StructuralFeature.type>
</UML:Attribute>
    <MASML:AgentAction name="Informar_Comprador_Vendedor" visibility="public"
xmi.id="S.41"/>
    <MASML:AgentAction name="Criar_Vendedor" visibility="public" xmi.id="S.42"/>
    <MASML:AgentAction name="Informar_Venda" visibility="public" xmi.id="S.43"/>
    <MASML:AgentPlan name="Informando_Venda" visibility="public" xmi.id="S.44">
    <MASML:AgentPlan.actions>
    <Action xmi.idref="S.43"/>

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```

        </MASML:AgentPlan.actions>
        <MASML:AgentPlan.goal stereotype="SS.1" xmi.idref="S.36"/>
    </MASML:AgentPlan>
    <MASML:AgentPlan name="Criando_Vendedores" visibility="public"
xmi.id="S.45">
        <MASML:AgentPlan.actions>
            <Action xmi.idref="S.41"/>
            <Action xmi.idref="S.42"/>
        </MASML:AgentPlan.actions>
        <MASML:AgentPlan.goal stereotype="SS.1" xmi.idref="S.35"/>
    </MASML:AgentPlan>
</UML:Classifier.feature>
</MASML:OrganizationClass>
<MASML:ObjectRoleClass isAbstract="false" name="Oferta" namespace="S.1"
visibility="public" xmi.id="S.6">
    <UML:Classifier.feature>
        <UML:Attribute name="preco" visibility="public" xmi.id="S.46">
            <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                    <UML:Multiplicity.range>
                        <UML:MultiplicityRange lower="1" upper="1"/>
                    </UML:Multiplicity.range>
                </UML:Multiplicity>
            </UML:StructuralFeature.multiplicity>
            <UML:StructuralFeature.type>
                <UML:Classifier>
                    <UML:Namespace.ownedElement>
                        <UML:DataType xmi.idref="G.3"/>
                    </UML:Namespace.ownedElement>
                </UML:Classifier>
            </UML:StructuralFeature.type>
        </UML:Attribute>
        <UML:Attribute name="nome" visibility="public" xmi.id="S.47">
            <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                    <UML:Multiplicity.range>
                        <UML:MultiplicityRange lower="1" upper="1"/>
                    </UML:Multiplicity.range>
                </UML:Multiplicity>
            </UML:StructuralFeature.multiplicity>
            <UML:StructuralFeature.type>
                <UML:Classifier>
                    <UML:Namespace.ownedElement>
                        <UML:DataType xmi.idref="G.2"/>
                    </UML:Namespace.ownedElement>
                </UML:Classifier>
            </UML:StructuralFeature.type>
        </UML:Attribute>
        <UML:Operation isAbstract="false" name="setPreco" visibility="public"
xmi.id="S.48">
            <UML:BehavioralFeature.parameter>
                <UML:Parameter kind="in" name="intPreco" type="G.3" xmi.id="XX.7"/>
                <UML:Parameter kind="return" name="setPreco.return" type="G.4"
xmi.id="XX.8"/>
            </UML:BehavioralFeature.parameter>
        </UML:Operation>
        <UML:Operation isAbstract="false" name="getNome" visibility="public"
xmi.id="S.49">
            <UML:BehavioralFeature.parameter>
                <UML:Parameter kind="return" name="getNome.return" type="G.2"
xmi.id="XX.9"/>
            </UML:BehavioralFeature.parameter>
        </UML:Operation>
    </UML:Classifier.feature>
</MASML:ObjectRoleClass>
<MASML:ObjectRoleClass isAbstract="false" name="Desejo" namespace="S.1"
visibility="public" xmi.id="S.7">
    <UML:Classifier.feature>
        <UML:Attribute name="preco" visibility="public" xmi.id="S.50">
            <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                    <UML:Multiplicity.range>
                        <UML:MultiplicityRange lower="1" upper="1"/>
                    </UML:Multiplicity.range>
                </UML:Multiplicity>
            </UML:StructuralFeature.multiplicity>

```



```

    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.3"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
    </UML:StructuralFeature.type>
  </UML:Attribute>
  <UML:Attribute name="nome" visibility="public" xmi.id="S.51">
    <UML:StructuralFeature.multiplicity>
      <UML:Multiplicity>
        <UML:Multiplicity.range>
          <UML:MultiplicityRange lower="1" upper="1"/>
        </UML:Multiplicity.range>
      </UML:Multiplicity>
    </UML:StructuralFeature.multiplicity>
    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.2"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
    </UML:StructuralFeature.type>
  </UML:Attribute>
  <UML:Operation isAbstract="false" name="setNome" visibility="public"
xmi.id="S.52">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="in" name="strNome" type="G.2" xmi.id="XX.10"/>
      <UML:Parameter kind="return" name="setNome.return" type="G.4"
xmi.id="XX.11"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="getPreco" visibility="public"
xmi.id="S.53">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="getPreco.return" type="G.3"
xmi.id="XX.12"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
</UML:Classifier.feature>
</MASML:ObjectRoleClass>
<MASML:AgentRoleClass isAbstract="false" name="Comprador" namespace="S.1"
visibility="public" xmi.id="S.8">
  <UML:Classifier.feature>
    <UML:Attribute name="procura_vendedor" stereotype="SS.1" visibility="public"
xmi.id="S.54">
      <UML:Attribute.initialValue>
        <UML:Expression body="true"/>
      </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.1"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
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<XMI.field/>
</MASML:GraphElement.position>
<MASML:GraphElement.size>
<XMI.field/>
<XMI.field/>
</MASML:GraphElement.size>
<MASML:GraphElement.semanticModel>
<MASML:Masml1SemanticModelBridge xmi.id="DD.115">
<MASML:Masml1SemanticModelBridge.element>
<MASML:Play xmi.idref="L.1"/>
</MASML:Masml1SemanticModelBridge.element>
</MASML:Masml1SemanticModelBridge>
</MASML:GraphElement.semanticModel>
</MASML:GraphNode>
</MASML:GraphElement.contained>
<MASML:GraphElement.contained>
<MASML:GraphNode xmi.id="D.116">
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</MASML:GraphElement.position>
<MASML:GraphElement.size>
<XMI.field/>
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</MASML:GraphElement.size>
<MASML:GraphElement.semanticModel>
<MASML:Masml1SemanticModelBridge xmi.id="DD.116">
<MASML:Masml1SemanticModelBridge.element>
<MASML:Inhabit xmi.idref="L.8"/>
</MASML:Masml1SemanticModelBridge.element>
</MASML:Masml1SemanticModelBridge>
</MASML:GraphElement.semanticModel>
</MASML:GraphNode>
</MASML:GraphElement.contained>
</MASML:Diagram>
</XMI.content>
</XMI>

```

10.2. UML XMI

O UML XMI apresentado nesta seção corresponde apenas ao pacote da aplicação do exemplo Virtual MarketPlace. O pacote referente ao framework ASF não está representado.


```

<UML:Package isAbstract="false" name="application" visibility="public"
xmi.id="A.1">
  <UML:Namespace.ownedElement>
    <UML:Class isAbstract="false" name="Item" visibility="public" xmi.id="A.2">
      <UML:Classifier.feature>
        <UML:Attribute name="preco" visibility="public" xmi.id="A.3">
          <UML:StructuralFeature.type>
            <UML:DataType xmi.idref="H.5"/>
          </UML:StructuralFeature.type>
          <UML:StructuralFeature.multiplicity>
            <UML:Multiplicity xmi.id="A.4">
              <UML:Multiplicity.range>
                <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.5"/>
              </UML:Multiplicity.range>
            </UML:Multiplicity>
          </UML:StructuralFeature.multiplicity>
        </UML:Attribute>
        <UML:Attribute name="nome" visibility="public" xmi.id="A.6">
          <UML:StructuralFeature.type>
            <UML:DataType xmi.idref="H.1"/>
          </UML:StructuralFeature.type>
          <UML:StructuralFeature.multiplicity>
            <UML:Multiplicity xmi.id="A.7">
              <UML:Multiplicity.range>
                <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.8"/>
              </UML:Multiplicity.range>
            </UML:Multiplicity>
          </UML:StructuralFeature.multiplicity>
        </UML:Attribute>
        <UML:Operation isAbstract="false" name="setPreco" visibility="public"
xmi.id="A.9">
          <UML:BehavioralFeature.parameter>
            <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.10"/>
            <UML:Parameter kind="in" name="intPreco" type="H.7" xmi.id="A.11"/>
          </UML:BehavioralFeature.parameter>
        </UML:Operation>
        <UML:Operation isAbstract="false" name="getNome" visibility="public"
xmi.id="A.12">
          <UML:BehavioralFeature.parameter>
            <UML:Parameter kind="return" name="return" type="H.1" xmi.id="A.13"/>
          </UML:BehavioralFeature.parameter>
        </UML:Operation>
        <UML:Operation isAbstract="false" name="setNome" visibility="public"
xmi.id="A.14">
          <UML:BehavioralFeature.parameter>
            <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.15"/>
            <UML:Parameter kind="in" name="strNome" type="H.1" xmi.id="A.16"/>
          </UML:BehavioralFeature.parameter>
        </UML:Operation>
        <UML:Operation isAbstract="false" name="getPreco" visibility="public"
xmi.id="A.17">
          <UML:BehavioralFeature.parameter>
            <UML:Parameter kind="return" name="return" type="H.7" xmi.id="A.18"/>
          </UML:BehavioralFeature.parameter>
        </UML:Operation>
      </UML:Classifier.feature>
    </UML:Class>
    <UML:Class isAbstract="false" name="Lojista" visibility="public" xmi.id="A.19">
      <UML:Classifier.feature>
        <UML:Operation isAbstract="false" name="Lojista" visibility="public"
xmi.id="A.20">
          <UML:ModelElement.stereotype>
            <UML:Stereotype xmi.idref="T.1"/>
          </UML:ModelElement.stereotype>
          <UML:BehavioralFeature.parameter>
            <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.21"/>
            <UML:Parameter kind="in" name="theEnvironment" type="H.16" xmi.id="A.22"/>
            <UML:Parameter kind="in" name="initialOrg" type="H.15" xmi.id="A.23"/>
            <UML:Parameter kind="in" name="initialRole" type="H.14" xmi.id="A.24"/>
          </UML:BehavioralFeature.parameter>
        </UML:Operation>
        <UML:Method xmi.id="A.25">
          <UML:Method.body>
            <UML:ProcedureExpression body="
environment = theEnvironment;
environment.registerAgents( this ); setRolesBeingPlayed( initialRole, initialOrg
); LeafGoal objectGoal = null; goals = new Vector (); objectGoal = new LeafGoal

```

```

("Boolean","venda_item",""); this.goals.add (objectGoal); LeafBelief objectBelief
= null; beliefs = new Vector ();objectBelief = new LeafBelief ("String","nome",
"");this.beliefs.add (objectBelief); Condition objectCondition = null; Action
objectAction= null; actions = new Vector(); objectAction = new Calcular_Preco();
this.actions.add(objectAction); objectAction = new Oferecer_item();
this.actions.add(objectAction); objectAction = new Informar_Venda();
this.actions.add(objectAction); Goal goalAux = null; Action actionAux = null;
Enumeration enumActions = null; Enumeration enumGoals = null; Plan objectPlan =
null; plans = new Vector(); objectPlan = new Vendendo Item();
this.plans.add(objectPlan); actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Calcular_Preco")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Oferecer_item")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Informar_Venda")){
objectPlan.setAction(actionAux); } }" language="java" xmi.id="A.26"/>
</UML:Method.body>
<UML:Method.specification>
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</UML:Method.specification>
</UML:Method>
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visibility="protected" xmi.id="A.27">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.28"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.29">
<UML:Method.body>
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xmi.id="A.30"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.27"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="selectingPlan" visibility="protected"
xmi.id="A.31">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.17" xmi.id="A.32"/>
<UML:Parameter kind="in" name="vPlansExecuted" type="H.4" xmi.id="A.33"/>
<UML:Parameter kind="in" name="goal" type="H.12" xmi.id="A.34"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.35">
<UML:Method.body>
<UML:ProcedureExpression body=" return null;" language="java"
xmi.id="A.36"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.31"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="executingPlan" visibility="protected"
xmi.id="A.37">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.38"/>
<UML:Parameter kind="in" name="plan" type="H.17" xmi.id="A.39"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.40">
<UML:Method.body>
<UML:ProcedureExpression body="" language="java" xmi.id="A.41"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.37"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="selectingGoalToAchieve"
visibility="protected" xmi.id="A.42">
<UML:BehavioralFeature.parameter>

```

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    <UML:Parameter kind="return" name="return" type="H.12" xmi.id="A.43"/>
  </UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.44">
  <UML:Method.body>
    <UML:ProcedureExpression body="    return null;" language="java"
xmi.id="A.45"/>
  </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.42"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.46"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.46">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.19"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1271"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Usuario" visibility="public" xmi.id="A.47">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="Usuario" visibility="public"
xmi.id="A.48">
      <UML:ModelElement.stereotype>
        <UML:Stereotype xmi.idref="T.1"/>
      </UML:ModelElement.stereotype>
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.49"/>
        <UML:Parameter kind="in" name="theEnvironment" type="H.16" xmi.id="A.50"/>
        <UML:Parameter kind="in" name="initialOrg" type="H.15" xmi.id="A.51"/>
        <UML:Parameter kind="in" name="initialRole" type="H.14" xmi.id="A.52"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.53">
      <UML:Method.body>
        <UML:ProcedureExpression body=" environment = theEnvironment;
environment.registerAgents( this ); setRolesBeingPlayed( initialRole, initialOrg
); LeafGoal objectGoal = null; goals = new Vector (); objectGoal = new LeafGoal
("Boolean","compra item","true"); this.goals.add (objectGoal);
objectGoal.setPlan("Comprando Item"); objectGoal = new LeafGoal
("Boolean","procura vendedor","true"); this.goals.add (objectGoal);
objectGoal.setPlan("Procurando Vendedor"); LeafBelief objectBelief = null; beliefs
= new Vector (); objectBelief = new LeafBelief ("String","nome", "");
this.beliefs.add (objectBelief); objectBelief = new LeafBelief
("Item","item desejado", ""); this.beliefs.add (objectBelief); Condition
objectCondition = null; Action objectAction= null; actions = new Vector();
objectAction = new Procurar Item(); this.actions.add(objectAction); objectAction =
new Rejeitar_Oferta(); this.actions.add(objectAction); objectCondition = new
Condition("Boolean", "oferta", ""); objectAction.setPreCondition(objectCondition);
objectAction = new Procurar_Vendedor(); this.actions.add(objectAction);
objectAction = new Aceitar_Oferta(); this.actions.add(objectAction);
objectCondition = new Condition("Boolean", "oferta", "");
objectAction.setPreCondition(objectCondition); objectAction = new
Avaliar_Proposta(); this.actions.add(objectAction); objectAction = new Pagar();
this.actions.add(objectAction); goalAux = null; Action actionAux = null;
Enumeration enumActions = null; Enumeration enumGoals = null; Plan objectPlan =
null; plans = new Vector (); objectPlan = new Comprando Item();
this.plans.add(objectPlan); actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Procurar_Item")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Rejeitar_Oferta")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Aceitar Oferta")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =

```

```

this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Avaliar_Proposta")){
objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Pagar")){
objectPlan.setAction(actionAux); } } goalAux = null; enumGoals =
this.goals.elements(); while (enumGoals.hasMoreElements()) { goalAux =
(Goal)enumGoals.nextElement(); if (goalAux.getName().equals("compra item")){
objectPlan.setGoal(goalAux); } } objectPlan = new Procurando_Vendedor();
this.plans.add(objectPlan); actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Procurar_Vendedor")){
objectPlan.setAction(actionAux); } } goalAux = null; enumGoals =
this.goals.elements(); while (enumGoals.hasMoreElements()) { goalAux =
(Goal)enumGoals.nextElement(); if (goalAux.getName().equals("procura_vendedor")){
objectPlan.setGoal(goalAux); } }" language="java" xmi.id="A.54"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.48"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="checkIfWillContinue"
visibility="protected" xmi.id="A.55">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.56"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.57">
<UML:Method.body>
<UML:ProcedureExpression body=" return false;" language="java"
xmi.id="A.58"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.55"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="selectingPlan" visibility="protected"
xmi.id="A.59">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.17" xmi.id="A.60"/>
<UML:Parameter kind="in" name="vPlansExecuted" type="H.4" xmi.id="A.61"/>
<UML:Parameter kind="in" name="goal" type="H.12" xmi.id="A.62"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.63">
<UML:Method.body>
<UML:ProcedureExpression body=" return null;" language="java"
xmi.id="A.64"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.59"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="executingPlan" visibility="protected"
xmi.id="A.65">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.66"/>
<UML:Parameter kind="in" name="plan" type="H.17" xmi.id="A.67"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.68">
<UML:Method.body>
<UML:ProcedureExpression body="" language="java" xmi.id="A.69"/>
</UML:Method.body>
<UML:Method.specification>
<UML:Operation xmi.idref="A.65"/>
</UML:Method.specification>
</UML:Method>
<UML:Operation isAbstract="false" name="selectingGoalToAchieve"
visibility="protected" xmi.id="A.70">
<UML:BehavioralFeature.parameter>
<UML:Parameter kind="return" name="return" type="H.12" xmi.id="A.71"/>
</UML:BehavioralFeature.parameter>
</UML:Operation>

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<UML:Method xmi.id="A.72">
  <UML:Method.body>
    <UML:ProcedureExpression body="    return null;" language="java"
xmi.id="A.73"/>
  </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.70"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.74"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.74">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.47"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1271"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Loja_Virtual" visibility="public"
xmi.id="A.75">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="Loja_Virtual" visibility="public"
xmi.id="A.76">
    <UML:ModelElement.stereotype>
      <UML:Stereotype xmi.idref="T.1"/>
    </UML:ModelElement.stereotype>
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.77"/>
      <UML:Parameter kind="in" name="theEnvironment" type="H.16" xmi.id="A.78"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Method xmi.id="A.79">
    <UML:Method.body>
      <UML:ProcedureExpression body="this.theEnvironment = theEnvironment;
this.theEnvironment.registerOrganizations( this ); LeafGoal objectGoal = null;
goals = new Vector (); objectGoal = new LeafGoal
("Boolean","gerencia vendedores","true"); this.goals.add (objectGoal);
objectGoal.setPlan("Criando_Vendedores"); objectGoal = new LeafGoal
("Boolean","gerencia itens","true"); this.goals.add (objectGoal);
objectGoal.setPlan("Informando_Venda"); LeafBelief objectBelief = null; beliefs =
new Vector(); objectBelief = new LeafBelief ("Vector","vendedores", "null");
this.beliefs.add (objectBelief); objectBelief = new LeafBelief ("Vector","itens",
"null"); this.beliefs.add (objectBelief); objectBelief = new LeafBelief
("Vector","compradors", "null"); this.beliefs.add (objectBelief); Axiom
objectAxiom = null; axioms = new Vector(); objectAxiom = new Axiom
("Boolean","informe vendas", "true"); this.axioms.add (objectAxiom); Condition
condition = null; Action action = null; actions = new Vector(); action = new
Informar Comprador Vendedor();this.actions.add(action); action = new
Criar Vendedor (); this.actions.add(action); action = new Informar Venda ();
this.actions.add(action); Goal goalAux = null; Action actionAux = null;
Enumeration enumActions = null; Plan objectPlan = null; plans = new Vector();
objectPlan = new Informando_Venda(); this.plans.add(objectPlan); actionAux = null;
enumActions = this.actions.elements(); while (enumActions.hasMoreElements()){
actionAux = (Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Informar_Venda")){
objectPlan.setAction(actionAux); } } goalAux = null; enumGoals =
this.goals.elements();while (enumGoals.hasMoreElements()) { goalAux =
(Goal)enumGoals.nextElement(); if (goalAux.getName().equals("gerencia itens")){
objectPlan.setGoal(goalAux); } } objectPlan = new Criando_Vendedores();
this.plans.add(objectPlan); actionAux = null; enumActions =
this.actions.elements();while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Informar_Comprador_Vendedor"))
{ objectPlan.setAction(actionAux); } } actionAux = null; enumActions =
this.actions.elements(); while (enumActions.hasMoreElements()){ actionAux =
(Action)enumActions.nextElement(); if
(actionAux.getClass().getName().equals("application.Criar_Vendedor")){
objectPlan.setAction(actionAux); } } goalAux = null; enumGoals =
this.goals.elements(); while (enumGoals.hasMoreElements()) { goalAux =
(Goal)enumGoals.nextElement(); if
(goalAux.getName().equals("gerencia_vendedores")){ objectPlan.setGoal(goalAux); }
}" language="java" xmi.id="A.80"/>

```

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        </UML:Method.body>
        <UML:Method.specification>
        <UML:Operation xmi.idref="A.76"/>
        </UML:Method.specification>
    </UML:Method>
    <UML:Operation isAbstract="false" name="checkIfWillContinue"
visibility="protected" xmi.id="A.81">
        <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.82"/>
        </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.83">
        <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.84"/>
    </UML:Method.body>
    <UML:Method.specification>
        <UML:Operation xmi.idref="A.81"/>
    </UML:Method.specification>
    </UML:Method>
    <UML:Operation isAbstract="false" name="selectingPlan" visibility="protected"
xmi.id="A.85">
        <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.17" xmi.id="A.86"/>
        <UML:Parameter kind="in" name="vPlansExecuted" type="H.4" xmi.id="A.87"/>
        <UML:Parameter kind="in" name="goal" type="H.12" xmi.id="A.88"/>
        </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.89">
        <UML:Method.body>
        <UML:ProcedureExpression body="    return null;" language="java"
xmi.id="A.90"/>
    </UML:Method.body>
    <UML:Method.specification>
        <UML:Operation xmi.idref="A.85"/>
    </UML:Method.specification>
    </UML:Method>
    <UML:Operation isAbstract="false" name="executingPlan" visibility="protected"
xmi.id="A.91">
        <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.92"/>
        <UML:Parameter kind="in" name="plan" type="H.17" xmi.id="A.93"/>
        </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.94">
        <UML:Method.body>
        <UML:ProcedureExpression body="" language="java" xmi.id="A.95"/>
    </UML:Method.body>
    <UML:Method.specification>
        <UML:Operation xmi.idref="A.91"/>
    </UML:Method.specification>
    </UML:Method>
    <UML:Operation isAbstract="false" name="selectingGoalToAchieve"
visibility="protected" xmi.id="A.96">
        <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.12" xmi.id="A.97"/>
        </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.98">
        <UML:Method.body>
        <UML:ProcedureExpression body="    return null;" language="java"
xmi.id="A.99"/>
    </UML:Method.body>
    <UML:Method.specification>
        <UML:Operation xmi.idref="A.96"/>
    </UML:Method.specification>
    </UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.100"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.100">
    <UML:Generalization.child>
        <UML:Class xmi.idref="A.75"/>
    </UML:Generalization.child>

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<UML:Generalization.parent>
  <UML:Class xmi.idref="F.670"/>
</UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Oferta" visibility="public" xmi.id="A.101">
  <UML:Classifier.feature>
    <UML:Attribute name="preco" visibility="public" xmi.id="A.102">
      <UML:StructuralFeature.type>
        <UML:DataType xmi.idref="H.7"/>
      </UML:StructuralFeature.type>
      <UML:StructuralFeature.multiplicity>
        <UML:Multiplicity xmi.id="A.103">
          <UML:Multiplicity.range>
            <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.104"/>
          </UML:Multiplicity.range>
        </UML:Multiplicity>
      </UML:StructuralFeature.multiplicity>
    </UML:Attribute>
    <UML:Attribute name="nome" visibility="public" xmi.id="A.105">
      <UML:StructuralFeature.type>
        <UML:DataType xmi.idref="H.1"/>
      </UML:StructuralFeature.type>
      <UML:StructuralFeature.multiplicity>
        <UML:Multiplicity xmi.id="A.106">
          <UML:Multiplicity.range>
            <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.107"/>
          </UML:Multiplicity.range>
        </UML:Multiplicity>
      </UML:StructuralFeature.multiplicity>
    </UML:Attribute>
    <UML:Operation isAbstract="false" name="setPreco" visibility="public"
xmi.id="A.108">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.109"/>
        <UML:Parameter kind="in" name="intPreco" type="H.7" xmi.id="A.110"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="getNome" visibility="public"
xmi.id="A.111">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.1" xmi.id="A.112"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="Oferta" visibility="public"
xmi.id="A.113">
      <UML:ModelElement.stereotype>
        <UML:Stereotype xmi.idref="T.1"/>
      </UML:ModelElement.stereotype>
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.114"/>
        <UML:Parameter kind="in" name="owner" type="H.15" xmi.id="A.115"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.116">
      <UML:Method.body>
        <UML:ProcedureExpression body=" super.setOwner( owner );
owner.setObjectRole( this );" language="java" xmi.id="A.117"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.113"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.118"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.118">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.101"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1504"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Desejo" visibility="public" xmi.id="A.119">

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<UML:Classifier.feature>
  <UML:Attribute name="preco" visibility="public" xmi.id="A.120">
    <UML:StructuralFeature.type>
      <UML:DataType xmi.idref="H.7"/>
    </UML:StructuralFeature.type>
    <UML:StructuralFeature.multiplicity>
      <UML:Multiplicity xmi.id="A.121">
        <UML:Multiplicity.range>
          <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.122"/>
        </UML:Multiplicity.range>
      </UML:Multiplicity>
    </UML:StructuralFeature.multiplicity>
  </UML:Attribute>
  <UML:Attribute name="nome" visibility="public" xmi.id="A.123">
    <UML:StructuralFeature.type>
      <UML:DataType xmi.idref="H.1"/>
    </UML:StructuralFeature.type>
    <UML:StructuralFeature.multiplicity>
      <UML:Multiplicity xmi.id="A.124">
        <UML:Multiplicity.range>
          <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.125"/>
        </UML:Multiplicity.range>
      </UML:Multiplicity>
    </UML:StructuralFeature.multiplicity>
  </UML:Attribute>
  <UML:Operation isAbstract="false" name="setNome" visibility="public"
xmi.id="A.126">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.127"/>
      <UML:Parameter kind="in" name="strNome" type="H.1" xmi.id="A.128"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="getPreco" visibility="public"
xmi.id="A.129">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="return" type="H.7" xmi.id="A.130"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="Desejo" visibility="public"
xmi.id="A.131">
    <UML:ModelElement.stereotype>
      <UML:Stereotype xmi.idref="T.1"/>
    </UML:ModelElement.stereotype>
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.132"/>
      <UML:Parameter kind="in" name="owner" type="H.15" xmi.id="A.133"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Method xmi.id="A.134">
    <UML:Method.body>
      <UML:ProcedureExpression body="    super.setOwner( owner );
owner.setObjectRole( this );" language="java" xmi.id="A.135"/>
    </UML:Method.body>
    <UML:Method.specification>
      <UML:Operation xmi.idref="A.131"/>
    </UML:Method.specification>
  </UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.136"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.136">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.119"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1504"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Comprador" visibility="public"
xmi.id="A.137">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="Comprador" visibility="public"
xmi.id="A.138">
      <UML:ModelElement.stereotype>

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    <UML:Stereotype xmi.idref="T.1"/>
  </UML:ModelElement.stereotype>
  <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.139"/>
    <UML:Parameter kind="in" name="owner" type="H.15" xmi.id="A.140"/>
  </UML:BehavioralFeature.parameter>
</UML:Operation>
<UML:Method xmi.id="A.141">
  <UML:Method.body>
    <UML:ProcedureExpression body=" super.setOwner( owner ); owner.setAgentRole(
this ); LeafGoal objectGoal = null; goals = new Vector (); objectGoal = new
LeafGoal ("Boolean","procura vendedor","true"); this.goals.add (objectGoal);
objectGoal = new LeafGoal ("Boolean","compra_item","true"); this.goals.add
(objectGoal); LeafBelief objectBelief = null; beliefs = new Vector (); duties =
new Vector (); rights = new Vector (); this.rights.add (new Right
("Rejeitar_Oferta")); this.rights.add (new Right ("Aceitar_Oferta"));
this.duties.add (new Duty ("Procurar Vendedor")); Message objectMessage = null;
Protocol objectProtocol = null; protocols = new Vector (); objectProtocol = new
application.Simples_Negociacao(); this.protocols.add (objectProtocol);
objectMessage = new Message("informe pagamento","?", "Comprador", "Vendedor");
objectProtocol.setMessage (objectMessage); objectMessage = new
Message("pedido_precoItem","Item","Comprador", "Vendedor");
objectProtocol.setMessage (objectMessage); objectMessage = new
Message("proposta aceita","?", "Comprador", "Vendedor"); objectProtocol.setMessage
(objectMessage); objectMessage = new Message("proposta_rejeitada","?", "Comprador",
"Vendedor"); objectProtocol.setMessage (objectMessage); objectMessage = new
Message("informe venda","?", "Vendedor", "Comprador"); objectProtocol.setMessage
(objectMessage); objectMessage = new
Message("proposta precoItem","Item","Vendedor", &"Comprador");
objectProtocol.setMessage (objectMessage); " language="java" xmi.id="A.142"/>
  </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.138"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.143"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.143">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.137"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1040"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Vendedor" visibility="public"
xmi.id="A.144">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="Vendedor" visibility="public"
xmi.id="A.145">
      <UML:ModelElement.stereotype>
        <UML:Stereotype xmi.idref="T.1"/>
      </UML:ModelElement.stereotype>
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.3" xmi.id="A.146"/>
        <UML:Parameter kind="in" name="owner" type="H.15" xmi.id="A.147"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.148">
      <UML:Method.body>
        <UML:ProcedureExpression body="super.setOwner( owner ); owner.setAgentRole(
this ); LeafGoal objectGoal = null; goals = new Vector (); objectGoal = new
LeafGoal ("Boolean","venda_item",&"true"); this.goals.add (objectGoal); LeafBelief
objectBelief = null; beliefs = new Vector (); duties = new Vector (); rights = new
Vector (); this.duties.add (new Duty ("Calcular Preco")); this.duties.add (new
Duty ("Oferecer Item")); this.duties.add (new Duty ("Informar Venda")); Message
objectMessage = null; Protocol objectProtocol = null; protocols = new Vector ();
objectProtocol = new application.Simples_Negociacao(); this.protocols.add
(objectProtocol); objectMessage = new Message("informe pagamento","?", "Comprador",
"Vendedor"); objectProtocol.setMessage (objectMessage); objectMessage = new
Message("pedido precoItem","Item","Comprador", "Vendedor");
objectProtocol.setMessage (objectMessage); objectMessage = new
Message("proposta_aceita","?", "Comprador", "Vendedor"); objectProtocol.setMessage

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(objectMessage); objectMessage = new Message("proposta_rejeitada","?", "Comprador",
"Vendedor"); objectProtocol.setMessage (objectMessage); objectMessage = new
Message("informe_venda","?", "Vendedor", "Comprador"); objectProtocol.setMessage
(objectMessage); objectMessage = new
Message("proposta_precoItem","Item", "Vendedor&", "Comprador");
objectProtocol.setMessage (objectMessage);" language="java" xmi.id="A.149"/>
  </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.145"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.150"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.150">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.144"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1040"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Mercado_Virtual" visibility="public"
xmi.id="A.151">
  <UML:Classifier.feature>
    <UML:Attribute name="vendedores" visibility="public" xmi.id="A.152">
      <UML:StructuralFeature.type>
        <UML:DataType xmi.idref="H.4"/>
      </UML:StructuralFeature.type>
      <UML:StructuralFeature.multiplicity>
        <UML:Multiplicity xmi.id="A.153">
          <UML:Multiplicity.range>
            <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.154"/>
          </UML:Multiplicity.range>
        </UML:Multiplicity>
      </UML:StructuralFeature.multiplicity>
      <UML:Attribute.initialValue>
        <UML:Expression body="null" xmi.id="A.155"/>
      </UML:Attribute.initialValue>
    </UML:Attribute>
    <UML:Attribute name="itens" visibility="public" xmi.id="A.156">
      <UML:StructuralFeature.type>
        <UML:DataType xmi.idref="H.4"/>
      </UML:StructuralFeature.type>
      <UML:StructuralFeature.multiplicity>
        <UML:Multiplicity xmi.id="A.157">
          <UML:Multiplicity.range>
            <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.158"/>
          </UML:Multiplicity.range>
        </UML:Multiplicity>
      </UML:StructuralFeature.multiplicity>
    </UML:Attribute>
    <UML:Attribute name="compradores" visibility="public" xmi.id="A.159">
      <UML:StructuralFeature.type>
        <UML:DataType xmi.idref="H.4"/>
      </UML:StructuralFeature.type>
      <UML:StructuralFeature.multiplicity>
        <UML:Multiplicity xmi.id="A.160">
          <UML:Multiplicity.range>
            <UML:MultiplicityRange lower="1" upper="1" xmi.id="A.161"/>
          </UML:Multiplicity.range>
        </UML:Multiplicity>
      </UML:StructuralFeature.multiplicity>
      <UML:Attribute.initialValue>
        <UML:Expression body="null" xmi.id="A.162"/>
      </UML:Attribute.initialValue>
    </UML:Attribute>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.163"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.163">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.151"/>
  </UML:Generalization.child>

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</UML:Generalization.child>
<UML:Generalization.parent>
  <UML:Class xmi.idref="F.1540"/>
</UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Procurar_Vendedor" visibility="public"
xmi.id="A.164">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.165">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.166"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
  <UML:Method xmi.id="A.167">
    <UML:Method.body>
      <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.168"/>
    </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.165"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.169"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.169">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.164"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Oferecer_item" visibility="public"
xmi.id="A.170">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.171">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.172"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
  <UML:Method xmi.id="A.173">
    <UML:Method.body>
      <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.174"/>
    </UML:Method.body>
  <UML:Method.specification>
    <UML:Operation xmi.idref="A.171"/>
  </UML:Method.specification>
</UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.175"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.175">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.170"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Avaliar_Proposta" visibility="public"
xmi.id="A.176">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.177">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.178"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>

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    <UML:Method xmi.id="A.179">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.180"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.177"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.181"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.181">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.176"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Informar_Venda" visibility="public"
xmi.id="A.182">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.183">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.184"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.185">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.186"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.183"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.187"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.187">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.182"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Calcular_Preco" visibility="public"
xmi.id="A.188">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.189">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.190"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.191">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.192"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.189"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.193"/>
</UML:GeneralizableElement.generalization>
</UML:Class>

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<UML:Generalization xmi.id="A.193">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.188"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Pagar" visibility="public" xmi.id="A.194">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.195">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.196"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.197">
      <UML:Method.body>
        <UML:ProcedureExpression body="  return false;" language="java"
xmi.id="A.198"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.195"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.199"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.199">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.194"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Oferecer_Item" visibility="public"
xmi.id="A.200">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.201">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.202"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.203">
      <UML:Method.body>
        <UML:ProcedureExpression body="  return false;" language="java"
xmi.id="A.204"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.201"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.205"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.205">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.200"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Criar_Vendedor" visibility="public"
xmi.id="A.206">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.207">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.208"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
  </UML:Classifier.feature>
</UML:Class>

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    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Method xmi.id="A.209">
    <UML:Method.body>
      <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.210"/>
    </UML:Method.body>
    <UML:Method.specification>
      <UML:Operation xmi.idref="A.207"/>
    </UML:Method.specification>
  </UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.211"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.211">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.206"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Aceitar_Oferta" visibility="public"
xmi.id="A.212">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.213">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.214"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.215">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.216"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.213"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.217"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.217">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.212"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Procurar_Item" visibility="public"
xmi.id="A.218">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.219">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.220"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.221">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.222"/>
      </UML:Method.body>
      <UML:Method.specification>
        <UML:Operation xmi.idref="A.219"/>
      </UML:Method.specification>
    </UML:Method>
  </UML:Classifier.feature>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.223"/>
  </UML:GeneralizableElement.generalization>

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</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.223">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.218"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Informar_Comprador_Vendedor"
visibility="public" xmi.id="A.224">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.225">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.226"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.227">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.228"/>
      </UML:Method.body>
    <UML:Method.specification>
      <UML:Operation xmi.idref="A.225"/>
    </UML:Method.specification>
  </UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.229"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.229">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.224"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Rejeitar_Oferta" visibility="public"
xmi.id="A.230">
  <UML:Classifier.feature>
    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.231">
      <UML:BehavioralFeature.parameter>
        <UML:Parameter kind="return" name="return" type="H.5" xmi.id="A.232"/>
      </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.233">
      <UML:Method.body>
        <UML:ProcedureExpression body="    return false;" language="java"
xmi.id="A.234"/>
      </UML:Method.body>
    <UML:Method.specification>
      <UML:Operation xmi.idref="A.231"/>
    </UML:Method.specification>
  </UML:Method>
</UML:Classifier.feature>
<UML:GeneralizableElement.generalization>
  <UML:Generalization xmi.idref="A.235"/>
</UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.235">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.230"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.51"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Simples_Negociacao" visibility="public"
xmi.id="A.236">
  <UML:Classifier.feature>

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    <UML:Operation isAbstract="false" name="execute" visibility="public"
xmi.id="A.237">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="return" name="return" xmi.id="A.238">
    <UML:Parameter.type>
    <UML:Class xmi.idref="H.18"/>
    </UML:Parameter.type>
    </UML:Parameter>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Method xmi.id="A.239">
    <UML:Method.body>
    <UML:ProcedureExpression body="    return null;" language="java"
xmi.id="A.240"/>
    </UML:Method.body>
    <UML:Method.specification>
    <UML:Operation xmi.idref="A.237"/>
    </UML:Method.specification>
    </UML:Method>
    </UML:Classifier.feature>
    <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.241"/>
    </UML:GeneralizableElement.generalization>
    </UML:Class>
    <UML:Generalization xmi.id="A.241">
    <UML:Generalization.child>
    <UML:Class xmi.idref="A.236"/>
    </UML:Generalization.child>
    <UML:Generalization.parent>
    <UML:Class xmi.idref="F.1190"/>
    </UML:Generalization.parent>
    </UML:Generalization>
    <UML:Class isAbstract="false" name="Vendendo_Item" visibility="public"
xmi.id="A.242">
    <UML:Classifier.feature/>
    <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.243"/>
    </UML:GeneralizableElement.generalization>
    </UML:Class>
    <UML:Generalization xmi.id="A.243">
    <UML:Generalization.child>
    <UML:Class xmi.idref="A.242"/>
    </UML:Generalization.child>
    <UML:Generalization.parent>
    <UML:Class xmi.idref="F.557"/>
    </UML:Generalization.parent>
    </UML:Generalization>
    <UML:Class isAbstract="false" name="Criando_Vendedores" visibility="public"
xmi.id="A.244">
    <UML:Classifier.feature/>
    <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.245"/>
    </UML:GeneralizableElement.generalization>
    </UML:Class>
    <UML:Generalization xmi.id="A.245">
    <UML:Generalization.child>
    <UML:Class xmi.idref="A.244"/>
    </UML:Generalization.child>
    <UML:Generalization.parent>
    <UML:Class xmi.idref="F.557"/>
    </UML:Generalization.parent>
    </UML:Generalization>
    <UML:Class isAbstract="false" name="Informando_Venda" visibility="public"
xmi.id="A.246">
    <UML:Classifier.feature/>
    <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.247"/>
    </UML:GeneralizableElement.generalization>
    </UML:Class>
    <UML:Generalization xmi.id="A.247">
    <UML:Generalization.child>
    <UML:Class xmi.idref="A.246"/>
    </UML:Generalization.child>
    <UML:Generalization.parent>
    <UML:Class xmi.idref="F.557"/>
    </UML:Generalization.parent>

```



```

</UML:Generalization>
<UML:Class isAbstract="false" name="Comprando_Item" visibility="public"
xmi.id="A.248">
  <UML:Classifier.feature/>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.249"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.249">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.248"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.557"/>
  </UML:Generalization.parent>
</UML:Generalization>
<UML:Class isAbstract="false" name="Procurando_Vendedor" visibility="public"
xmi.id="A.250">
  <UML:Classifier.feature/>
  <UML:GeneralizableElement.generalization>
    <UML:Generalization xmi.idref="A.251"/>
  </UML:GeneralizableElement.generalization>
</UML:Class>
<UML:Generalization xmi.id="A.251">
  <UML:Generalization.child>
    <UML:Class xmi.idref="A.250"/>
  </UML:Generalization.child>
  <UML:Generalization.parent>
    <UML:Class xmi.idref="F.557"/>
  </UML:Generalization.parent>
</UML:Generalization>
</UML:Namespace.ownedElement>
</UML:Package>

```

11

Anexo III – Exemplo Expert Committee

11.1. MAS-ML XMI

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<XMI xmi.version="1.1" xmlns:MASML="org/MASML1.0" xmlns:UML="org/UML1.0">
  <XMI.header>
    <XMI.documentation>
      <XMI.exporter>MAS-ML Tool</XMI.exporter>
      <XMI.exporterVersion>0.5</XMI.exporterVersion>
    </XMI.documentation>
    <XMI.metamodel xmi.name="UML" xmi.version="1.4"/>
  </XMI.header>
  <XMI.content>
    <UML:Model isAbstract="false" name="Expert_Committee" visibility="public"
xmi.id="S.1">
      <UML:Namespace.ownedElement>
        <UML:Class isAbstract="false" name="Artigo" namespace="S.1"
visibility="public" xmi.id="S.2">
          <UML:Classifier.feature>
            <UML:Attribute name="areas" visibility="public" xmi.id="S.12">
              <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                  <UML:Multiplicity.range>
                    <UML:MultiplicityRange lower="1" upper="1"/>
                  </UML:Multiplicity.range>
                </UML:Multiplicity>
              </UML:StructuralFeature.multiplicity>
              <UML:Attribute.initialValue>
                <UML:Expression body="null"/>
              </UML:Attribute.initialValue>
              <UML:StructuralFeature.type>
                <UML:Classifier>
                  <UML:Namespace.ownedElement>
                    <UML:DataType xmi.idref="G.1"/>
                  </UML:Namespace.ownedElement>
                </UML:Classifier>
              </UML:StructuralFeature.type>
            </UML:Attribute>
            <UML:Attribute name="titulo" visibility="public" xmi.id="S.13">
              <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                  <UML:Multiplicity.range>
                    <UML:MultiplicityRange lower="1" upper="1"/>
                  </UML:Multiplicity.range>
                </UML:Multiplicity>
              </UML:StructuralFeature.multiplicity>
              <UML:StructuralFeature.type>
                <UML:Classifier>
                  <UML:Namespace.ownedElement>
                    <UML:DataType xmi.idref="G.2"/>
                  </UML:Namespace.ownedElement>
                </UML:Classifier>
              </UML:StructuralFeature.type>
            </UML:Attribute>
            <UML:Attribute name="instituicoes" visibility="public" xmi.id="S.14">
              <UML:StructuralFeature.multiplicity>
                <UML:Multiplicity>
                  <UML:Multiplicity.range>
                    <UML:MultiplicityRange lower="1" upper="1"/>
                  </UML:Multiplicity.range>
                </UML:Multiplicity>
              </UML:StructuralFeature.multiplicity>
            </UML:Attribute>
          </UML:Classifier.feature>
        </UML:Class>
      </UML:Namespace.ownedElement>
    </UML:Model>
  </XMI.content>
</XMI>

```

```

    <UML:Attribute.initialValue>
      <UML:Expression body="null"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.3"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
    </UML:StructuralFeature.type>
  </UML:Attribute>
  <UML:Attribute name="resumo" visibility="public" xmi.id="S.15">
    <UML:StructuralFeature.multiplicity>
      <UML:Multiplicity>
        <UML:Multiplicity.range>
          <UML:MultiplicityRange lower="1" upper="1"/>
        </UML:Multiplicity.range>
      </UML:Multiplicity>
    </UML:StructuralFeature.multiplicity>
    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.2"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
    </UML:StructuralFeature.type>
  </UML:Attribute>
  <UML:Attribute name="autores" visibility="public" xmi.id="S.16">
    <UML:StructuralFeature.multiplicity>
      <UML:Multiplicity>
        <UML:Multiplicity.range>
          <UML:MultiplicityRange lower="1" upper="1"/>
        </UML:Multiplicity.range>
      </UML:Multiplicity>
    </UML:StructuralFeature.multiplicity>
    <UML:Attribute.initialValue>
      <UML:Expression body="null"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
      <UML:Classifier>
        <UML:Namespace.ownedElement>
          <UML:DataType xmi.idref="G.3"/>
        </UML:Namespace.ownedElement>
      </UML:Classifier>
    </UML:StructuralFeature.type>
  </UML:Attribute>
  <UML:Operation isAbstract="false" name="getAutores" visibility="public"
xmi.id="S.17">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="getAutores.return" type="G.3"
xmi.id="XX.1"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="getInstituicoes" visibility="public"
xmi.id="S.18">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="getInstituicoes.return" type="G.3"
xmi.id="XX.2"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="getResumo" visibility="public"
xmi.id="S.19">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="return" name="getResumo.return" type="G.2"
xmi.id="XX.3"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>
  <UML:Operation isAbstract="false" name="setAreas" visibility="public"
xmi.id="S.20">
    <UML:BehavioralFeature.parameter>
      <UML:Parameter kind="in" name="vAreas" type="G.3" xmi.id="XX.4"/>
      <UML:Parameter kind="return" name="setAreas.return" type="G.4"
xmi.id="XX.5"/>
    </UML:BehavioralFeature.parameter>
  </UML:Operation>

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    <UML:Operation isAbstract="false" name="getAreas" visibility="public"
xmi.id="S.21">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="return" name="getAreas.return" type="G.3"
xmi.id="XX.6"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="setResumo" visibility="public"
xmi.id="S.22">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="in" name="strResumo" type="G.2" xmi.id="XX.7"/>
    <UML:Parameter kind="return" name="setResumo.return" type="G.4"
xmi.id="XX.8"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="setInstituicoes" visibility="public"
xmi.id="S.23">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="in" name="vInstituicoes" type="G.3" xmi.id="XX.9"/>
    <UML:Parameter kind="return" name="setInstituicoes.return" type="G.4"
xmi.id="XX.10"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="getTitulo" visibility="public"
xmi.id="S.24">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="return" name="getTitulo.return" type="G.2"
xmi.id="XX.11"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="setTitulo" visibility="public"
xmi.id="S.25">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="in" name="strTitulo" type="G.2" xmi.id="XX.12"/>
    <UML:Parameter kind="return" name="setTitulo.return" type="G.4"
xmi.id="XX.13"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
    <UML:Operation isAbstract="false" name="setAutores" visibility="public"
xmi.id="S.26">
    <UML:BehavioralFeature.parameter>
    <UML:Parameter kind="in" name="vAutores" type="G.3" xmi.id="XX.14"/>
    <UML:Parameter kind="return" name="setAutores.return" type="G.4"
xmi.id="XX.15"/>
    </UML:BehavioralFeature.parameter>
    </UML:Operation>
</UML:Classifier.feature>
</UML:Class>
<MASML:AgentClass isAbstract="false" name="Pesquisador" namespace="S.1"
visibility="public" xmi.id="S.3">
    <UML:Classifier.feature>
    <UML:Attribute name="fornece_revisores" stereotype="SS.1"
visibility="public" xmi.id="S.27">
    <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.1"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
    </UML:StructuralFeature.type>
    </UML:Attribute>
    <UML:Attribute name="proposta_revisao" stereotype="SS.1" visibility="public"
xmi.id="S.28">
    <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
    </UML:Attribute.initialValue>
    <UML:StructuralFeature.type>
    <UML:Classifier>
    <UML:Namespace.ownedElement>
    <UML:DataType xmi.idref="G.1"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
    </UML:StructuralFeature.type>

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```

</UML:Attribute>
<UML:Attribute name="analisa_conflito" stereotype="SS.1" visibility="public"
xmi.id="S.29">
  <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
  </UML:Attribute.initialValue>
  <UML:StructuralFeature.type>
    <UML:Classifier>
      <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.1"/>
      </UML:Namespace.ownedElement>
    </UML:Classifier>
  </UML:StructuralFeature.type>
</UML:Attribute>
<UML:Attribute name="analisa_conflitos" stereotype="SS.1"
visibility="public" xmi.id="S.30">
  <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
  </UML:Attribute.initialValue>
  <UML:StructuralFeature.type>
    <UML:Classifier>
      <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.1"/>
      </UML:Namespace.ownedElement>
    </UML:Classifier>
  </UML:StructuralFeature.type>
</UML:Attribute>
<UML:Attribute name="organiza_artigos" stereotype="SS.1" visibility="public"
xmi.id="S.31">
  <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
  </UML:Attribute.initialValue>
  <UML:StructuralFeature.type>
    <UML:Classifier>
      <UML:Namespace.ownedElement>
        <UML:DataType xmi.idref="G.1"/>
      </UML:Namespace.ownedElement>
    </UML:Classifier>
  </UML:StructuralFeature.type>
</UML:Attribute>
<UML:Attribute name="envia artigos_revisores" stereotype="SS.1"
visibility="public" xmi.id="S.32">
  <UML:Attribute.initialValue>
    <UML:Expression body="false"/>
  </UML:Attribute.initialValue>
  <UML:StructuralFeature.type>
    <UML:Classifier>
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        <MASML:AgentMessage.content>Artigo</MASML:AgentMessage.content>
        </MASML:AgentMessage>
        <MASML:AgentMessage receiver="S.9" sender="S.6">
        <MASML:AgentMessage.label>envia_camera</MASML:AgentMessage.label>
        <MASML:AgentMessage.content>camera</MASML:AgentMessage.content>
        </MASML:AgentMessage>
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<MASML:AgentRoleClass isAbstract="false" name="Coordenador" namespace="S.1"
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visibility="public" xmi.id="S.102">
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        </UML:Classifier>
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    </UML:Attribute>
    <UML:Attribute name="revisores" stereotype="SS.3" visibility="public"
xmi.id="S.103">
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    <MASML:AgentAction name="Fornecer_Revisores" stereotype="SS.7"
visibility="public" xmi.id="S.104"/>
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        </MASML:AgentMessage>
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xmi.id="S.106">
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            <UML:DataType xmi.idref="G.1"/>
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        </UML:Classifier>
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visibility="public" xmi.id="S.107"/>
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          <MASML:AgentMessage.content>conflitos</MASML:AgentMessage.content>
        </MASML:AgentMessage>
        <MASML:AgentMessage receiver="S.9" sender="S.8">
          <MASML:AgentMessage.label>envia_voto</MASML:AgentMessage.label>
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    </UML:Classifier>
    </UML:StructuralFeature.type>
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    </UML:Namespace.ownedElement>
    </UML:Classifier>
    </UML:StructuralFeature.type>
    </UML:Attribute>
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    <UML:Expression body="true"/>
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    <UML:StructuralFeature.type>
    <UML:Classifier>
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    <UML:DataType xmi.idref="G.1"/>
    </UML:Namespace.ownedElement>
    </UML:Classifier>
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    </UML:Classifier>

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    </UML:Namespace.ownedElement>
    </UML:Classifier>
    </UML:StructuralFeature.type>
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xmi.id="S.116">
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    <MASML:AgentAction name="Organizar_Artigos" stereotype="SS.7"
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    <MASML:AgentAction name="Analisar_Conflitos" stereotype="SS.9"
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    <MASML:AgentAction name="Receber_camera" stereotype="SS.9"
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    <MASML:AgentAction name="Distribuir_Resultado_Autor" stereotype="SS.7"
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    <MASML:AgentAction name="Analisar_Voto" stereotype="SS.9"
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    <MASML:AgentAction name="Receber_Avaliacao_Revisao" stereotype="SS.7"
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    <MASML:AgentMessage.content>artigos</MASML:AgentMessage.content>
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xmi.id="S.129">
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  <MASML:Play member="S.3" name="" played="S.9" player="S.4" xmi.id="L.2"/>
  <MASML:Play member="S.3" name="" played="S.6" player="S.4" xmi.id="L.3"/>
  <MASML:Play member="S.2" name="" played="S.5" player="S.4" xmi.id="L.4"/>
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