B

GlassFish Server Deployment Descriptor Files

This appendix describes the element hierarchies in the GlassFish Server deployment descriptors that are included in this release of the Oracle GlassFish Server software.

The following topics are addressed here:

About the GlassFish Server Deployment Descriptors

Each deployment descriptor XML file has a corresponding Document Type Definition (DTD) file, which defines the elements, data, and attributes that the deployment descriptor file can contain. For example, the `glassfish-application_6_0-1.dtd` file defines the structure of the `glassfish-application.xml` file. The DTD files for the GlassFish Server deployment descriptors are located in the *as-install*/`lib/dtds` directory.

The GlassFish Server deployment descriptor files must be readable and writable by the file owners. In each deployment descriptor file, subelements must be defined in the order in which they are listed under each Subelements heading, unless otherwise noted. For general information about DTD files and XML, see the XML specification at `http://www.w3.org/TR/REC-xml`.

> **Note** – Do not edit the DTD files; their contents change only with new versions of GlassFish Server.

The following table lists the GlassFish Server deployment descriptors and their DTD files.

TABLE B–1 GlassFish Server Deployment Descriptors and DTDs

Deployment Descriptor	DTD File	Description
glassfish-application.xml	glassfish-application_6_0-1.dtd	Configures an entire Java EE application (EAR file).
glassfish-web.xml	glassfish-web-app_3_0-1.dtd	Configures a web application (WAR file).
glassfish-ejb-jar.xml	glassfish-ejb-jar_3_1-1.dtd	Configures an enterprise bean (EJB JAR file).
sun-cmp-mappings.xml	sun-cmp-mapping_1_2.dtd	Configures container-managed persistence for an EJB 2.0 or 2.1 entity bean.
glassfish-application-client.xml	glassfish-application-client_6_0-1.dtd	Configures an Application Client Container (ACC) client (JAR file).
sun-acc.xml	sun-application-client-container_1_2.dtd	Configures the Application Client Container. This is more of a configuration file than a deployment descriptor. GlassFish Server provides a default file in the *domain-dir*/config directory. Specifying a different file is optional.
glassfish-resources.xml	glassfish-resources_1_5.dtd	Configures application-scoped resources.

The glassfish-application.xml File

The glassfish-application.xml file configures an entire Java EE application (EAR file). The element hierarchy is as follows:

```
glassfish-application
.  web
.  .  web-uri
.  .  context-root
.  pass-by-reference
.  unique-id
.  security-role-mapping
```

```
.  .   role-name
.  .   principal-name
.  .   group-name
.  realm
.  ejb-ref
.  .   ejb-ref-name
.  .   jndi-name
.  resource-ref
.  .   res-ref-name
.  .   jndi-name
.  .   default-resource-principal
.  .   .   name
.  .   .   password
.  resource-env-ref
.  .   resource-env-ref-name
.  .   jndi-name
.  service-ref
.  .   service-ref-name
.  .   port-info
.  .   .   service-endpoint-interface
.  .   .   wsdl-port
.  .   .   .   namespaceURI
.  .   .   .   localpart
.  .   .   stub-property
.  .   .   .   name
.  .   .   .   value
.  .   .   call-property
.  .   .   .   name
.  .   .   .   value
.  .   .   message-security-binding
.  .   .   .   message-security
.  .   .   .   .   message
.  .   .   .   .   .   java-method
.  .   .   .   .   .   .   method-name
.  .   .   .   .   .   .   method-params
.  .   .   .   .   .   .   .   method-param
.  .   .   .   .   .   operation-name
.  .   .   .   .   request-protection
.  .   .   .   .   response-protection
.  .   call-property
.  .   .   name
.  .   .   value
.  .   wsdl-override
.  .   service-impl-class
.  .   service-qname
.  .   .   namespaceURI
.  .   .   localpart
.  message-destination-ref
.  .   message-destination-ref-name
.  .   jndi-name
.  message-destination
.  .   message-destination-name
.  .   jndi-name
.  archive-name
.  compatibility
.  keep-state
.  version-identifier
```

Here is a sample `glassfish-application.xml` file:

```
<!DOCTYPE glassfish-application PUBLIC "-//Sun Microsystems, Inc.//DTD
GlassFish Application Server 3.0 Java EE Application 6.0//EN"
"http://www.sun.com/software/appserver/dtds/glassfish-application_6_0-0.dtd">
<glassfish-application>
    <unique-id>67488732739338240</unique-id>
</glassfish-application>
```

The glassfish-web.xml File

The glassfish-web.xml file configures a web application (WAR file). The element hierarchy is as follows:

```
glassfish-web-app
.   context-root
.   security-role-mapping
.   .   role-name
.   .   principal-name
.   .   group-name
.   servlet
.   .   servlet-name
.   .   principal-name
.   .   webservice-endpoint
.   .   .   port-component-name
.   .   .   endpoint-address-uri
.   .   .   login-config
.   .   .   .   auth-method
.   .   .   message-security-binding
.   .   .   .   message-security
.   .   .   .   .   message
.   .   .   .   .   .   java-method
.   .   .   .   .   .   .   method-name
.   .   .   .   .   .   .   method-params
.   .   .   .   .   .   .   .   method-param
.   .   .   .   .   operation-name
.   .   .   .   request-protection
.   .   .   .   response-protection
.   .   .   transport-guarantee
.   .   .   service-qname
.   .   .   tie-class
.   .   .   servlet-impl-class
.   .   .   debugging-enabled
.   .   .   property (with attributes)
.   .   .   .   description
.   idempotent-url-pattern
.   session-config
.   .   session-manager
.   .   .   manager-properties
.   .   .   .   property (with attributes)
.   .   .   .   .   description
.   .   .   store-properties
.   .   .   .   property (with attributes)
.   .   .   .   .   description
.   .   session-properties
.   .   .   property (with attributes)
.   .   .   .   description
```

```
.  .     cookie-properties
.  .  .     property (with attributes)
.  .  .  .     description
.  ejb-ref
.  .  ejb-ref-name
.  .  jndi-name
.  resource-ref
.  .  res-ref-name
.  .  jndi-name
.  .  default-resource-principal
.  .  .  name
.  .  .  password
.  resource-env-ref
.  .  resource-env-ref-name
.  .  jndi-name
.  service-ref
.  .  service-ref-name
.  .  port-info
.  .  .  service-endpoint-interface
.  .  .  wsdl-port
.  .  .  .  namespaceURI
.  .  .  .  localpart
.  .  .  stub-property
.  .  .  .  name
.  .  .  .  value
.  .  .  call-property
.  .  .  .  name
.  .  .  .  value
.  .  .  message-security-binding
.  .  .  .  message-security
.  .  .  .  .  message
.  .  .  .  .  .  java-method
.  .  .  .  .  .  .  method-name
.  .  .  .  .  .  .  method-params
.  .  .  .  .  .  .  .  method-param
.  .  .  .  .  .  operation-name
.  .  .  .  .  request-protection
.  .  .  .  .  response-protection
.  .  call-property
.  .  .  name
.  .  .  value
.  .  wsdl-override
.  .  service-impl-class
.  .  service-qname
.  .  .  namespaceURI
.  .  .  localpart
.  message-destination-ref
.  .  message-destination-ref-name
.  .  jndi-name
.  cache
.  .  cache-helper
.  .  .  property (with attributes)
.  .  .  .  description
.  .  default-helper
.  .  .  property (with attributes)
.  .  .  .  description
.  .  property (with attributes)
.  .  .  description
.  .  cache-mapping
```

```
.   .   .   servlet-name
.   .   .   url-pattern
.   .   .   cache-helper-ref
.   .   .   dispatcher
.   .   .   timeout
.   .   .   refresh-field
.   .   .   http-method
.   .   .   key-field
.   .   .   constraint-field
.   .   .   .   constraint-field-value
.   class-loader
.   .   property (with attributes)
.   .   .   description
.   jsp-config
.   locale-charset-info
.   .   locale-charset-map
.   .   parameter-encoding
.   parameter-encoding
.   property (with attributes)
.   .   description
.   valve
.   message-destination
.   .   message-destination-name
.   .   jndi-name
.   webservice-description
.   .   webservice-description-name
.   .   wsdl-publish-location
.   keep-state
.   version-identifier
```

Here is a sample `glassfish-web.xml` file:

```
<!DOCTYPE glassfish-web-app PUBLIC "-//Sun Microsystems, Inc.//DTD
GlassFish Application Server 3.0 Servlet 3.0//EN"
"http://www.sun.com/software/appserver/dtds/glassfish-web-app_3_0-0.dtd">
<glassfish-web-app>
    <session-config>
        <session-manager/>
    </session-config>
    <resource-ref>
        <res-ref-name>mail/Session</res-ref-name>
        <jndi-name>mail/Session</jndi-name>
    </resource-ref>
    <jsp-config/>
</glassfish-web-app>
```

The glassfish-ejb-jar.xml File

The `glassfish-ejb-jar.xml` file configures an enterprise bean (EJB JAR file). The element hierarchy is as follows:

```
glassfish-ejb-jar
.   security-role-mapping
.   .   role-name
```

```
.  .  principal-name
.  .  group-name
.  enterprise-beans
.  .  name
.  .  unique-id
.  .  ejb
.  .  .  ejb-name
.  .  .  jndi-name
.  .  .  ejb-ref
.  .  .  .  ejb-ref-name
.  .  .  .  jndi-name
.  .  .  resource-ref
.  .  .  .  res-ref-name
.  .  .  .  jndi-name
.  .  .  .  default-resource-principal
.  .  .  .  .  name
.  .  .  .  .  password
.  .  .  resource-env-ref
.  .  .  .  resource-env-ref-name
.  .  .  .  jndi-name
.  .  .  service-ref
.  .  .  .  service-ref-name
.  .  .  .  port-info
.  .  .  .  .  service-endpoint-interface
.  .  .  .  .  wsdl-port
.  .  .  .  .  .  namespaceURI
.  .  .  .  .  .  localpart
.  .  .  .  .  stub-property
.  .  .  .  .  .  name
.  .  .  .  .  .  value
.  .  .  .  .  call-property
.  .  .  .  .  .  name
.  .  .  .  .  .  value
.  .  .  .  .  message-security-binding
.  .  .  .  .  .  message-security
.  .  .  .  .  .  .  message
.  .  .  .  .  .  .  .  java-method
.  .  .  .  .  .  .  .  .  method-name
.  .  .  .  .  .  .  .  .  method-params
.  .  .  .  .  .  .  .  .  .  method-param
.  .  .  .  .  .  .  .  operation-name
.  .  .  .  .  .  .  request-protection
.  .  .  .  .  .  .  response-protection
.  .  .  .  call-property
.  .  .  .  .  name
.  .  .  .  .  value
.  .  .  .  wsdl-override
.  .  .  .  service-impl-class
.  .  .  .  service-qname
.  .  .  .  .  namespaceURI
.  .  .  .  .  localpart
.  .  .  message-destination-ref
.  .  .  .  message-destination-ref-name
.  .  .  .  jndi-name
.  .  .  pass-by-reference
.  .  .  cmp
.  .  .  .  mapping-properties
.  .  .  .  is-one-one-cmp
.  .  .  .  one-one-finders
```

```
. . . . . finder
. . . . . . method-name
. . . . . . query-params
. . . . . . query-filter
. . . . . . query-variables
. . . . . . query-ordering
. . . . prefetch-disabled
. . . . query-method
. . . . . method-name
. . . . . method-params
. . . . . . method-param
. . . principal
. . . . name
. . . mdb-connection-factory
. . . . jndi-name
. . . . default-resource-principal
. . . . . name
. . . . . password
. . . jms-durable-subscription-name
. . . jms-max-messages-load
. . . ior-security-config
. . . . transport-config
. . . . . integrity
. . . . . confidentiality
. . . . . establish-trust-in-target
. . . . . establish-trust-in-client
. . . . as-context
. . . . . auth-method
. . . . . realm
. . . . . required
. . . . sas-context
. . . . . caller-propagation
. . . is-read-only-bean
. . . refresh-period-in-seconds
. . . commit-option
. . . cmt-timeout-in-seconds
. . . use-thread-pool-id
. . . gen-classes
. . . . remote-impl
. . . . local-impl
. . . . remote-home-impl
. . . . local-home-impl
. . . bean-pool
. . . . steady-pool-size
. . . . resize-quantity
. . . . max-pool-size
. . . . pool-idle-timeout-in-seconds
. . . . max-wait-time-in-millis
. . . bean-cache
. . . . max-cache-size
. . . . resize-quantity
. . . . is-cache-overflow-allowed
. . . . cache-idle-timeout-in-seconds
. . . . removal-timeout-in-seconds
. . . . victim-selection-policy
. . . mdb-resource-adapter
. . . . resource-adapter-mid
. . . . activation-config
. . . . . description
```

```
.   .   .   .   .   activation-config-property
.   .   .   .   .   .   activation-config-property-name
.   .   .   .   .   .   activation-config-property-value
.   .   .   webservice-endpoint
.   .   .   .   port-component-name
.   .   .   .   endpoint-address-uri
.   .   .   .   login-config
.   .   .   .   .   auth-method
.   .   .   .   .   realm
.   .   .   .   message-security-binding
.   .   .   .   .   message-security
.   .   .   .   .   .   message
.   .   .   .   .   .   .   java-method
.   .   .   .   .   .   .   .   method-name
.   .   .   .   .   .   .   .   method-params
.   .   .   .   .   .   .   .   .   method-param
.   .   .   .   .   .   .   operation-name
.   .   .   .   .   .   request-protection
.   .   .   .   .   .   response-protection
.   .   .   .   transport-guarantee
.   .   .   .   service-qname
.   .   .   .   tie-class
.   .   .   .   servlet-impl-class
.   .   .   .   debugging-enabled
.   .   .   .   property (with subelements)
.   .   .   .   .   name
.   .   .   .   .   value
.   .   .   flush-at-end-of-method
.   .   .   .   method
.   .   .   .   .   description
.   .   .   .   .   ejb-name
.   .   .   .   .   method-name
.   .   .   .   .   method-intf
.   .   .   .   .   method-params
.   .   .   .   .   .   method-param
.   .   .   checkpointed-methods
.   .   .   checkpoint-at-end-of-method
.   .   .   .   method
.   .   .   .   .   description
.   .   .   .   .   ejb-name
.   .   .   .   .   method-name
.   .   .   .   .   method-intf
.   .   .   .   .   method-params
.   .   .   .   .   .   method-param
.   .   .   per-request-load-balancing
.   .   pm-descriptors
.   .   cmp-resource
.   .   .   jndi-name
.   .   .   default-resource-principal
.   .   .   .   name
.   .   .   .   password
.   .   .   property (with subelements)
.   .   .   .   name
.   .   .   .   value
.   .   .   create-tables-at-deploy
.   .   .   drop-tables-at-undeploy
.   .   .   database-vendor-name
.   .   .   schema-generator-properties
.   .   .   .   property (with subelements)
```

```
.   .   .   .   .   name
.   .   .   .   .   value
.   .   message-destination
.   .   .   message-destination-name
.   .   .   jndi-name
.   .   webservice-description
.   .   .   webservice-description-name
.   .   .   wsdl-publish-location
.   .   property (with subelements)
.   .   .   name
.   .   .   value
.   compatibility
.   disable-nonportable-jndi-names
.   keep-state
.   version-identifier
```

Note – If any configuration information for an enterprise bean is not specified in the glassfish-ejb-jar.xml file, it defaults to a corresponding setting in the EJB container if an equivalency exists.

Here is a sample glassfish-ejb-jar.xml file:

```
<!DOCTYPE glassfish-ejb-jar PUBLIC "-//Sun Microsystems, Inc.//
DTD GlassFish Application Server 3.0 EJB 3.1//EN"
"http://www.sun.com/software/appserver/dtds/glassfish-ejb-jar_3_1-0.dtd">
<glassfish-ejb-jar>
<display-name>First Module</display-name>
<enterprise-beans>
    <ejb>
        <ejb-name>CustomerEJB</ejb-name>
        <jndi-name>customer</jndi-name>
        <bean-pool>
            <steady-pool-size>10</steady-pool-size>
            <resize-quantity>10</resize-quantity>
            <max-pool-size>100</max-pool-size>
            <pool-idle-timeout-in-seconds>600</pool-idle-timeout-in-seconds>
        </bean-pool>
        <bean-cache>
            <max-cache-size>100</max-cache-size>
            <resize-quantity>10</resize-quantity>
            <removal-timeout-in-seconds>3600</removal-timeout-in-seconds>
            <victim-selection-policy>LRU</victim-selection-policy>
        </bean-cache>
    </ejb>
    <cmp-resource>
        <jndi-name>jdbc/__default</jndi-name>
        <create-tables-at-deploy>true</create-tables-at-deploy>
        <drop-tables-at-undeploy>true</drop-tables-at-undeploy>
    </cmp-resource>
</enterprise-beans>
<keep-state>true</keep-state>
</glassfish-ejb-jar>
```

The sun-cmp-mappings.xml File

The `sun-cmp-mappings.xml` file configures container-managed persistence for an EJB 2.0 or 2.1 entity bean. The element hierarchy is as follows:

```
sun-cmp-mappings
.  sun-cmp-mapping
.  .  schema
.  .  entity-mapping
.  .  .  ejb-name
.  .  .  table-name
.  .  .  cmp-field-mapping
.  .  .  .  field-name
.  .  .  .  column-name
.  .  .  .  read-only
.  .  .  .  fetched-with
.  .  .  .  .  default
.  .  .  .  .  level
.  .  .  .  .  named-group
.  .  .  .  .  none
.  .  .  cmr-field-mapping
.  .  .  .  cmr-field-name
.  .  .  .  column-pair
.  .  .  .  .  column-name
.  .  .  .  fetched-with
.  .  .  .  .  default
.  .  .  .  .  level
.  .  .  .  .  named-group
.  .  .  .  .  none
.  .  .  secondary-table
.  .  .  .  table-name
.  .  .  .  column-pair
.  .  .  .  .  column-name
.  .  .  consistency
.  .  .  .  none
.  .  .  .  check-modified-at-commit
.  .  .  .  lock-when-loaded
.  .  .  .  check-all-at-commit
.  .  .  .  lock-when-modified
.  .  .  .  check-version-of-accessed-instances
.  .  .  .  .  column-name
```

Here is a sample database schema definition:

```
create table TEAMEJB (
    TEAMID varchar2(256) not null,
    NAME varchar2(120) null,
    CITY char(30) not null,
    LEAGUEEJB_LEAGUEID varchar2(256) null,
    constraint PK_TEAMEJB primary key (TEAMID)
)
create table PLAYEREJB (
    POSITION varchar2(15) null,
    PLAYERID varchar2(256) not null,
    NAME char(64) null,
    SALARY number(10, 2) not null,
```

```
            constraint PK_PLAYEREJB primary key (PLAYERID)
)
create table LEAGUEEJB (
    LEAGUEID varchar2(256) not null,
    NAME varchar2(256) null,
    SPORT varchar2(256) null,
    constraint PK_LEAGUEEJB primary key (LEAGUEID)
)
create table PLAYEREJBTEAMEJB (
    PLAYEREJB_PLAYERID varchar2(256) null,
    TEAMEJB_TEAMID varchar2(256) null
)
alter table TEAMEJB
    add constraint FK_LEAGUE foreign key (LEAGUEEJB_LEAGUEID)
    references LEAGUEEJB (LEAGUEID)

alter table PLAYEREJBTEAMEJB
    add constraint FK_TEAMS foreign key (PLAYEREJB_PLAYERID)
    references PLAYEREJB (PLAYERID)

alter table PLAYEREJBTEAMEJB
    add constraint FK_PLAYERS foreign key (TEAMEJB_TEAMID)
    references TEAMEJB (TEAMID)
```

Here is a corresponding sample sun-cmp-mappings.xml file:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<sun-cmp-mappings>
<sun-cmp-mapping>
    <schema>Roster</schema>
    <entity-mapping>
        <ejb-name>TeamEJB</ejb-name>
        <table-name>TEAMEJB</table-name>
        <cmp-field-mapping>
            <field-name>teamId</field-name>
            <column-name>TEAMEJB.TEAMID</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>name</field-name>
            <column-name>TEAMEJB.NAME</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>city</field-name>
            <column-name>TEAMEJB.CITY</column-name>
        </cmp-field-mapping>
        <cmr-field-mapping>
            <cmr-field-name>league</cmr-field-name>
            <column-pair>
                <column-name>TEAMEJB.LEAGUEEJB_LEAGUEID</column-name>
                <column-name>LEAGUEEJB.LEAGUEID</column-name>
            </column-pair>
            <fetched-with>
                <none/>
            </fetched-with>
        </cmr-field-mapping>
        <cmr-field-mapping>
            <cmr-field-name>players</cmr-field-name>
            <column-pair>
```

```
                <column-name>TEAMEJB.TEAMID</column-name>
                <column-name>PLAYEREJBTEAMEJB.TEAMEJB_TEAMID</column-name>
            </column-pair>
            <column-pair>
                <column-name>PLAYEREJBTEAMEJB.PLAYEREJB_PLAYERID</column-name>
                <column-name>PLAYEREJB.PLAYERID</column-name>
            </column-pair>
            <fetched-with>
                <none/>
            </fetched-with>
        </cmr-field-mapping>
    </entity-mapping>
    <entity-mapping>
        <ejb-name>PlayerEJB</ejb-name>
        <table-name>PLAYEREJB</table-name>
        <cmp-field-mapping>
            <field-name>position</field-name>
            <column-name>PLAYEREJB.POSITION</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>playerId</field-name>
            <column-name>PLAYEREJB.PLAYERID</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>name</field-name>
            <column-name>PLAYEREJB.NAME</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>salary</field-name>
            <column-name>PLAYEREJB.SALARY</column-name>
        </cmp-field-mapping>
        <cmr-field-mapping>
            <cmr-field-name>teams</cmr-field-name>
            <column-pair>
                <column-name>PLAYEREJB.PLAYERID</column-name>
                <column-name>PLAYEREJBTEAMEJB.PLAYEREJB_PLAYERID</column-name>
            </column-pair>
            <column-pair>
                <column-name>PLAYEREJBTEAMEJB.TEAMEJB_TEAMID</column-name>
                <column-name>TEAMEJB.TEAMID</column-name>
            </column-pair>
            <fetched-with>
                <none/>
            </fetched-with>
        </cmr-field-mapping>
    </entity-mapping>
    <entity-mapping>
        <ejb-name>LeagueEJB</ejb-name>
        <table-name>LEAGUEEJB</table-name>
        <cmp-field-mapping>
            <field-name>leagueId</field-name>
            <column-name>LEAGUEEJB.LEAGUEID</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>name</field-name>
            <column-name>LEAGUEEJB.NAME</column-name>
        </cmp-field-mapping>
        <cmp-field-mapping>
            <field-name>sport</field-name>
```

```
                    <column-name>LEAGUEEJB.SPORT</column-name>
                </cmp-field-mapping>
                <cmr-field-mapping>
                    <cmr-field-name>teams</cmr-field-name>
                    <column-pair>
                        <column-name>LEAGUEEJB.LEAGUEID</column-name>
                        <column-name>TEAMEJB.LEAGUEEJB_LEAGUEID</column-name>
                    </column-pair>
                    <fetched-with>
                        <none/>
                    </fetched-with>
                </cmr-field-mapping>
            </entity-mapping>
    </sun-cmp-mapping>
    </sun-cmp-mappings>
```

The glassfish-application-client.xml file

The `glassfish-application-client.xml` file configures an Application Client Container (ACC) client (JAR file). The element hierarchy is as follows:

```
glassfish-application-client
.  ejb-ref
.  .   ejb-ref-name
.  .   jndi-name
.  resource-ref
.  .   res-ref-name
.  .   jndi-name
.  .   default-resource-principal
.  .  .   name
.  .  .   password
.  resource-env-ref
.  .   resource-env-ref-name
.  .   jndi-name
.  service-ref
.  .   service-ref-name
.  .   port-info
.  .  .   service-endpoint-interface
.  .  .   wsdl-port
.  .  .  .   namespaceURI
.  .  .  .   localpart
.  .  .   stub-property
.  .  .  .   name
.  .  .  .   value
.  .  .   call-property
.  .  .  .   name
.  .  .  .   value
.  .  .   message-security-binding
.  .  .  .   message-security
.  .  .  .  .   message
.  .  .  .  .  .   java-method
.  .  .  .  .  .  .   method-name
.  .  .  .  .  .  .   method-params
.  .  .  .  .  .  .  .   method-param
.  .  .  .  .  .   operation-name
```

```
.  .  .  .  .   request-protection
.  .  .  .  .   response-protection
.  .  call-property
.  .  .  name
.  .  .  value
.  .  wsdl-override
.  .  service-impl-class
.  .  service-qname
.  .  .  namespaceURI
.  .  .  localpart
.  message-destination-ref
.  .  message-destination-ref-name
.  .  jndi-name
.  message-destination
.  .  message-destination-name
.  .  jndi-name
.  java-web-start-access
.  .  context-root
.  .  eligible
.  .  vendor
.  .  jnlp-doc
.  version-identifier
```

Here is a sample `glassfish-application-client.xml` file:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE glassfish-application-client PUBLIC ""-//Sun Microsystems, Inc.//DTD
GlassFish Application Server 3.0 Application Client 6.0//EN""
"http://www.sun.com/software/appserver/dtds/glassfish-application-client_6_0-0.dtd">
<glassfish-application-client>
  <message-destination-ref>
    <message-destination-ref-name>ClientQueue</message-destination-ref-name>
    <jndi-name>jms/security_mdb_OutQueue</jndi-name>
  </message-destination-ref>
</glassfish-application-client>
```

The sun-acc.xml File

The `sun-acc.xml` file configures the Application Client Container. This is more of a configuration file than a deployment descriptor. GlassFish Server provides a default file in the *domain-dir*/`config` directory. Specifying a different file is optional. The element hierarchy is as follows:

```
client-container
.  target-server
.  .  description
.  .  security
.  .  .  ssl
.  .  .  cert-db
.  auth-realm
.  .  property (with attributes)
.  client-credential
.  .  property (with attributes)
.  log-service
```

```
.   .   property (with attributes)
.   message-security-config
.   .   provider-config
.   .   .   request-policy
.   .   .   response-policy
.   .   .   property (with attributes)
.   property (with attributes)
```

The glassfish-resources.xml File

The `glassfish-resources.xml` file configures application-scoped resources. The element hierarchy is as follows:

```
resources
.   custom-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   external-jndi-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   jdbc-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   mail-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   admin-object-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   connector-resource
.   .   description
.   .   property (with attributes)
.   .   .   description
.   resource-adapter-config
.   .   property (with attributes)
.   .   .   description
.   jdbc-connection-pool
.   .   description
.   .   property (with attributes)
.   .   .   description
.   connector-connection-pool
.   .   description
.   .   security-map
.   .   .   principal
.   .   .   user-group
.   .   .   backend-principal
.   .   property (with attributes)
.   .   .   description
.   work-security-map
.   .   description
.   .   principal-map
.   .   group-map
```

WebLogic Server Deployment Descriptor Support in GlassFish Server

GlassFish Server offers limited support for the `weblogic-application.xml`, `weblogic.xml`, and `weblogic-webservices.xml` deployment descriptor files.

The only element in `weblogic-application.xml` that GlassFish Server supports is `security`. The equivalent element in the `glassfish-application.xml` file is `security-role-mapping`.

The elements of `weblogic.xml` that GlassFish Server supports are explained in the following table.

TABLE B–2   `weblogic.xml` Support in GlassFish Server

`weblogic.xml` Element Name	GlassFish Server Support
`role-name` under `security-role-assignment`	`role-name` under `security-role-mapping` `glassfish-web.xml` equivalent
`principal-name` under `security-role-assignment`	`principal-name` under `security-role-mapping` `glassfish-web.xml` equivalent
`resource-description`	`resource-ref` `glassfish-web.xml` equivalent, but `resource-link` not supported
`resource-env-description`	`resource-env-ref` `glassfish-web.xml` equivalent, but `resource-link` not supported
`ejb-reference-description`	`ejb-ref` `glassfish-web.xml` equivalent
`service-reference-description`	`service-ref` `glassfish-web.xml` equivalent
`timeout-secs` under `session-descriptor`	`timeoutSeconds` property of `session-properties` `glassfish-web.xml` equivalent
`invalidation-interval-secs` under `session-descriptor`	`reapIntervalSeconds` property of `manager-properties` `glassfish-web.xml` equivalent
`max-in-memory-sessions` under `session-descriptor`	`maxSessions` property of `manager-properties` `glassfish-web.xml` equivalent
`persistent-store-dir` under `session-descriptor`	`directory` property of `store-properties` `glassfish-web.xml` equivalent
`prefer-web-inf-classes` under `container-descriptor`	`delegate` attribute of `class-loader` `glassfish-web.xml` equivalent
`context-root`	`context-root` `glassfish-web.xml` equivalent
`virtual-directory-mapping`	`alternatedocroot_`n property `glassfish-web.xml` equivalent

TABLE B–2 weblogic.xml Support in GlassFish Server *(Continued)*

weblogic.xml Element Name	GlassFish Server Support
cookies-enabled under session-descriptor	Servlet 3.0
cookie-name under session-descriptor	Servlet 3.0
cookie-path under session-descriptor	Servlet 3.0
cookie-domain under session-descriptor	Servlet 3.0
cookie-comment under session-descriptor	Servlet 3.0
cookie-secure under session-descriptor	Servlet 3.0
cookie-max-age-secs under session-descriptor	Servlet 3.0
cookie-http-only under session-descriptor	Servlet 3.0
url-rewriting-enabled under session-descriptor	Servlet 3.0
persistent-store-cookie-name under session-descriptor	Cookie-based persistence is supported
page-check-seconds under jsp-descriptor	Combination of *checkInterval*, *development*, and *reload-interval* init params of JspServlet
keepgenerated under jsp-descriptor	*keepgenerated* init parameter of JspServlet
working-dir under jsp-descriptor	*scratchdir* init parameter of JspServlet
compress-html-template under jsp-descriptor	Supported
index-directory-enabled under container-descriptor	*listings* init parameter of DefaultServlet
index-directory-sort-by under container-descriptor	*sortedBy* init parameter of DefaultServlet
save-sessions-enabled under container-descriptor	Same as asadmin redeploy --keepstate=true
run-as-principal-name under servlet-descriptor	Supported

The elements of weblogic-webservices.xml that GlassFish Server supports are explained in the following table.

TABLE B–3 weblogic-webservices.xml Support in GlassFish Server

weblogic-webservices.xml Element Name	GlassFish Server Support
webservice-type	Supported

TABLE B–3 weblogic-webservices.xml Support in GlassFish Server *(Continued)*

weblogic-webservices.xml Element Name	GlassFish Server Support
wsdl-publish-file	Same as wsdl-publish-location in glassfish-web-app.xml
service-endpoint-address	Same as endpoint-address-uri in glassfish-web-app.xml
j2ee:login-config	Same as login-config in glassfish-web-app.xml
j2ee:transport-guarantee	Same as transport-guarantee in glassfish-web-app.xml
exposed under wsdl	Supported
stream-attachments	JAX-WS defaults to streaming attachments
validate-request	Supported
http-response-buffersize	Supported
reliability-config	Partially supported through the Metro ReliableMessagingFeature API