

```
<!--
```

Each security-role element in the SDA deployment descriptor corresponds to a security-role element in one of the standard J2EE deployment descriptors. The definition of the security role is repeated in the SDA deployment descriptor. It consists of an optional description of the security role, and the security role name.

SDM will display the security role to the deployer at deployment time. The deployer then has to assign users and/or user groups of the operational environment to the security role.

Alternatively, there is the option of pre-defining a role-user-mapping using the mapped-users element. When such an element exists, SDM automatically assigns the listed users and user groups to the security role at deployment time. The security role will not be displayed to the deployer then. The creator of a concrete SDA deployment descriptor has to make sure that the users and user groups listed in this mapping actually exist in any operational environment the SDA may be deployed to. In particular, SDM does not create any such users or user groups at deployment time in an operational environment.

```
-->
```

```
<!ELEMENT security-role (description?, role-name, mapped-users?)>
<!ELEMENT role-name (#PCDATA)>
<!ELEMENT mapped-users (user*)>
<!ELEMENT user (#PCDATA)>
<!ATTLIST user
    is-group (true | false) #REQUIRED>
```

```
<!--
```

The module element represents a single J2EE module. It contains an ejb-jar, application-client or web-app element, which indicates the module type, and contains a URI to the module file. It is intended to group the deployment parameters by the J2EE modules contained in the J2EE application.

In contrast to the standard J2EE deployment descriptors, the J2EE specific part of the SDA deployment descriptor must have a module