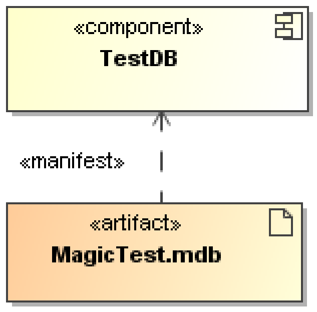
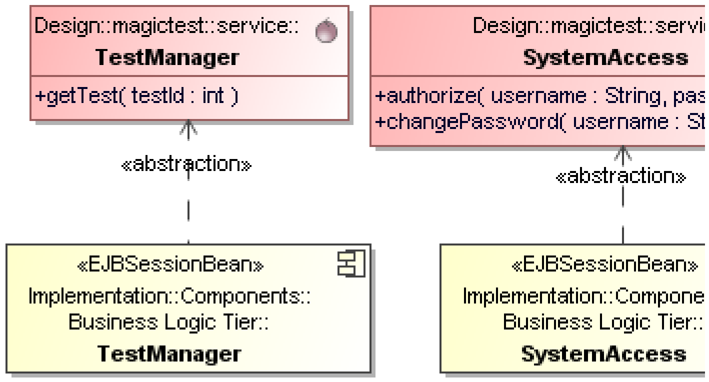
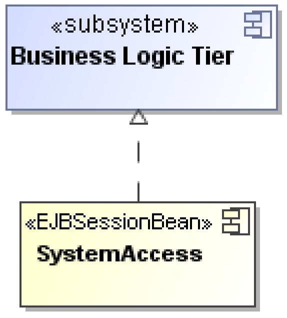
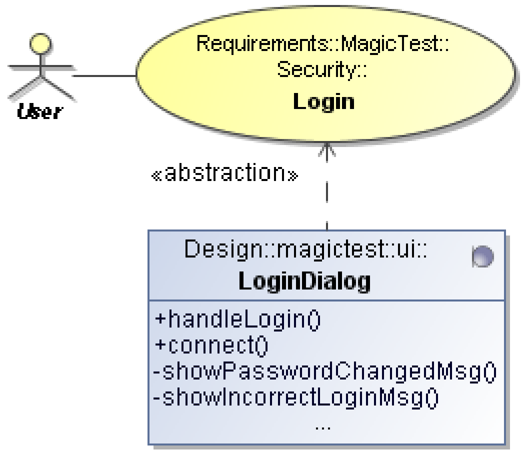
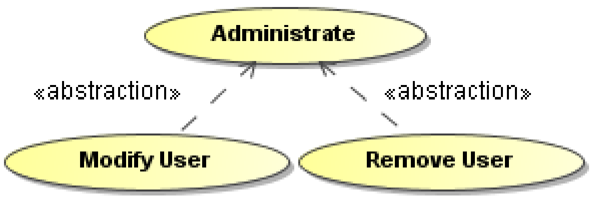
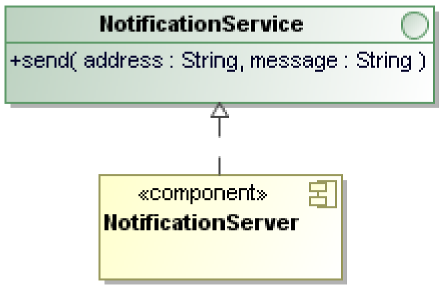
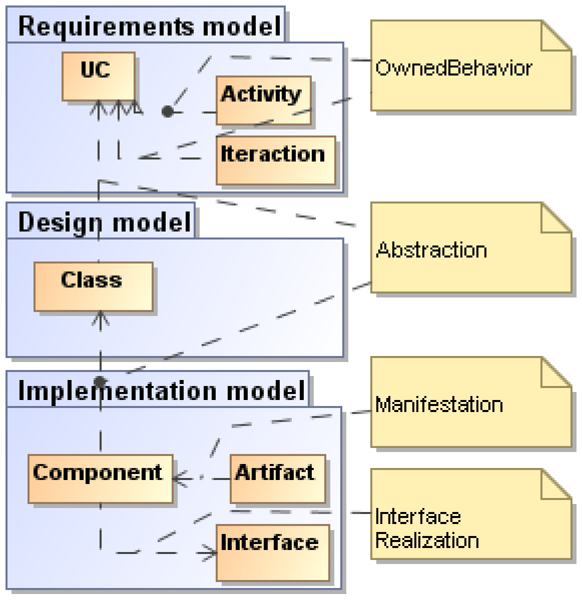
# Forward traceability - realization

The forward traceability ensures that all specified artifacts are covered by elements from the lower abstraction level.

| **Property Name** | **Description** | **Applied for** | **Reference through...** | **Value elements type** | **Example** |
|---|---|---|---|---|---|
| Manifested By Artifacts | The property shows artifacts that physically render the current component. | Component | Relationships: Manifestation | Artifact |   «component»<br>TestDB<br>«manifest»<br>«artifact»<br>MagicTest.mdb |
| Realizing Component | The property shows the components representing the class realization in the Implementation model. | Class | Relationships: Abstraction | Component |   Design::magictest::service::<br>TestManager<br>+getTest( testId : int )<br>Design::magictest::servi<br>SystemAccess<br>+authorize( username : String, pas<br>+changePassword( username : St<br>«abstraction»<br>«abstraction»<br>«EJBSessionBean»<br>Implementation::Components::<br>Business Logic Tier::<br>TestManager<br>«EJBSessionBean»<br>Implementation::Compone<br>Business Logic Tier::<br>SystemAccess |
| Realizing Classifier | The property shows classifiers that realize components through component realization. | Component | Relationships: Component Realization, Realization | Classifier |   «subsystem»<br>Business Logic Tier<br>«EJBSessionBean»<br>SystemAccess |
| Realizing Class | The property shows the classes representing the use case realization in the Design model. | Use Class | Relationships: Abstraction | Class |   User<br>Requirements::MagicTest::<br>Security::<br>Login<br>«abstraction»<br>Design::magictest::ui::<br>LoginDialog<br>+handleLogin()<br>+connect()<br>-showPasswordChangedMsg()<br>-showIncorrectLoginMsg()<br>... |

| | | | | | |
|---|---|---|---|---|---|
| Realizing Use Case | The property shows the realizing use cases of the current use case in the lower level of abstraction thus demonstrating how the use case is implemented. For example, the Requirements Use Case realizes the Business Use Case. | Use Case | Relationships: Abstraction | Use Case |   Administrate<br>«abstraction»<br>«abstraction»<br>Modify User<br>Remove User |
| Realizing Classifier | The property shows the classifiers conforming to the contract specified by the interface and related with this interface through the interface realization relationship. | Interface | Relationships: Interface Realization | Classifier |   NotificationService<br>+send( address : String, message : String )<br>«component»<br>NotificationServer |
| Realizing Element, All Realizing Elements.<br><br>⚠ Available in Enterprise and Architect editions only. | The **Realizing Element** property gathers the source elements of the abstraction relationship.<br><br>The **All Realizing Elements** property gathers recursively (performs a realizing element search for the result) source elements of the abstraction relationship. | Element | Relationships: Abstraction, Component Realization, Interface Realization. | Element |   Requirements model<br>UC<br>Activity<br>Iteraction<br>OwnedBehavior<br>Design model<br>Class<br>Abstraction<br>Implementation model<br>Component<br>Artifact<br>Interface<br>Manifestation<br>Interface Realization |