

SCA Assembly reference target

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1) target

a) SCAServiceComponent
b) SCAReferenceComponent
referenceTarget referenceService
BookStore ComponentReference

```
<component name="BookStoreComponent">  
<reference name="catalog" target="CatalogComponent/Catalog"/>  
</component>
```

```
<component name="CatalogComponent">  
<service name="Catalog"></service>...  
</component>
```

targetCatalogComponent Catalog ServiceCatalog reference
CatalogComponentNewCatalogComponent,targetNewCatalogComponent/Catalog.

2) promote

SCA<implementation.composite>compositeCompositeCatalog serviceComposite
Catalog composite

```
<component name="CatalogComponent">  
<implementation.composite composite="ns1:CatalogComposite"/>
```

```
...  
</component>  
//composite="ns1:CatalogComposite"compositeCompositexmlxxx.compositeCatalog composite//tuscany runtimexx.composite
```

CatalogCompositeservicesreferencesCatalogComponentService Reference promotion

```
<composite name="CatalogComposite">  
<service name="Catalog"  
promote="InternalCatalogComponent/InternalCatalog">  
...  
</service>
```

```
<reference name="partnerCatalog"  
promote="InternalCatalogComponent/partnerCatalog">  
...  
</reference>
```

```
<component name="InternalCatalogComponent">  
...<service name="InternalCatalog" ></service>  
</component>  
</composite>  
servicePromoteCatalogCompositComponentCatalogServiceInternalCatalogComponent InternalCatalog serviceCatalogComponenCatalog
```

reference promoteCatalogCompositComponentpartnerCatalogreference InternalCatalogComponent partnerCatalog service

.....

The @promote for the <reference> says if CatalogComposite is used as a component for assembly, there is a reference named partnerCatalog that makes the InternalCatalogComponent's partnerCatalog reference public. As a result, the CatalogComponent has a public partnerCatalog reference and a service provider can be defined for this reference.