

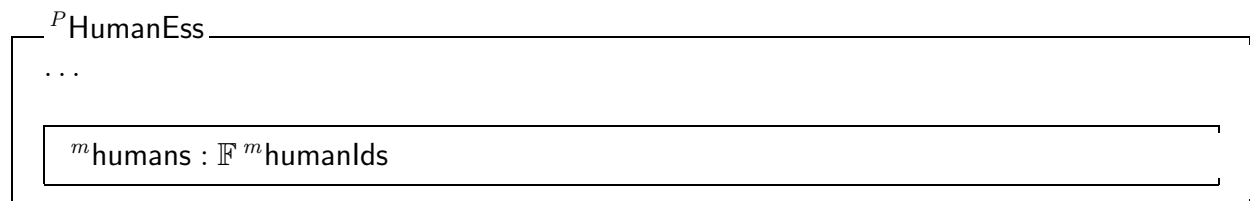
Excerpt From Case Study On a Telephone Switching System

2 feature ^FUserSpace

2.1.1 section ^PHumanEss [Humans]

parents

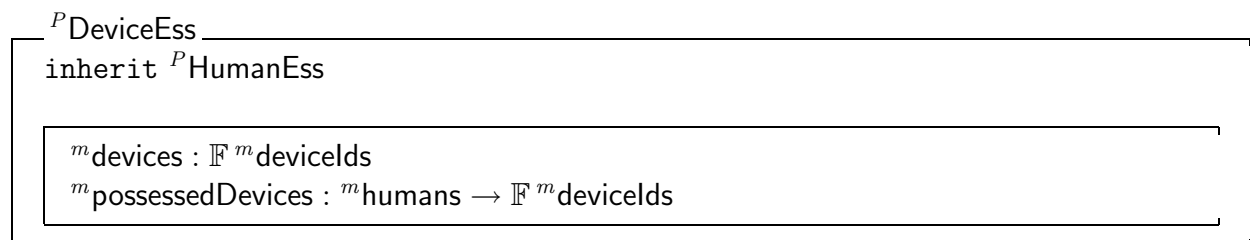
...



2.1.2 section ^PDeviceEss [Telephone Devices]

parents ^PHumanEss

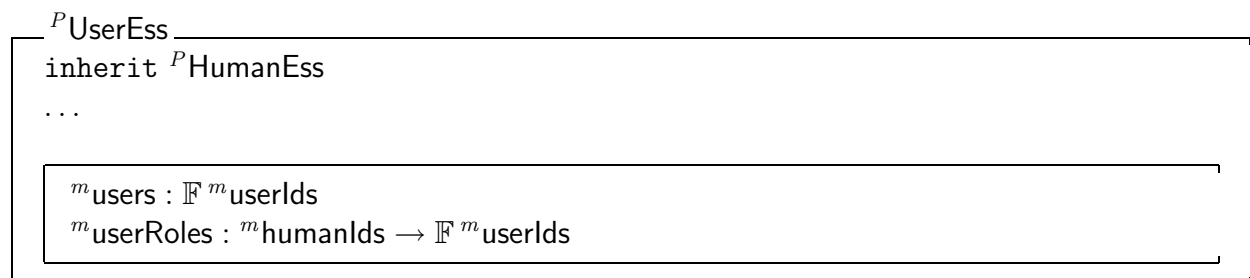
...



2.1.3 section ^PUserEss [User Roles]

parents ^PHumanEss

...



...

2.2.3 default_section P **DevAssocNoRem** [Telephone Device Associations neither Added nor Removed]

```
 $^P$ DevAssocNoRem _____  
inherit  $^P$ HumanEss,  $^P$ DeviceEss, ...  
  
     $\forall h : {}^m$ humans •  
         ${}^m$ possessedDevices( $h$ ) =  ${}^p$ initialPossessedDevices( $h$ )
```

2.2.4 collect_section s **UserSpaceFeature** [Collection of all the Requirements]

```
 $^P$ UserSpaceFeatureEnv _____  
inherit  $^P$ HumanEss,  $^P$ DeviceEss,  $^P$ UserEss  
default_properties ...,  $^P$ DevAssocNoRem, ...
```

...

3 feature ^FBasicConnection

...

3.2.5 section ^PConEssUserAvailable [User Available for Connection]

```
PConEssUserAvailable _____  
inherit ...  
...
```

...

3.6.7 default_section ^PUserResSimple [Simple User Resources]

```
PUserResSimple _____  
inherit ...  
...
```

...

3.9.2 collect_section ^SBasicConnectionFeature [Collection of all the Requirements]

```
PBasicConnectionFeatureSys _____  
inherit ... PConEssUserAvailable ...  
default_properties ... PUserResSimple
```

...

8 familymember ^SSpecificationB

features

^FUserSpace

^FBasicConnection

^FVoiceChannel

^FScreeningBase

^FBlackListOfDevices

...

6 feature ^FScreeningBase

6.2.3 section ^PConScreenEss [Connection Screening]

```
PConScreenEss _____  
...
```

remove ^PUserResSimple

6.3.1 default_section ^PUserResScreen [User Resources with Screening]

```
PUserResScreen _____  
inherit PConScreenEss  
...
```

...

6.3.2 default_section ^PConNoScreen [No Connection Screening Yet]

```
PConNoScreen _____  
inherit PConScreenEss  
  
_____  
∀  $u, v : {}^m\text{users}$  •  
(CconnectionScreen( $u, v$ ) = MconnectionScreenOk)
```

6.4.1 collect_section ^sScreeningBaseFeature [Collection of all the Requirements]

```
PScreeningBaseFeatureSys _____  
inherit PConScreenEss  
default_properties PUserResScreen ...
```

...

9 feature ^FBlackListOfUsers

...

remove ^PConNoScreen

9.3.2 default_section ^PBlackListUsrOnly [User Black List is the only Screening Feature]

```
PBlackListUsrOnly _____  
inherit ..., PConScreenEss  
  
⎓ u, v : musers •  
  ((CconnectionScreen(u, v) = MconnectionScreenBlock)  
   ⇔ ((u, v) ∈ CblackListUsr))
```

...

9.4.1 collect_section ^sBlackListOfUsersFeature [Collection of all the Requirements]

```
PBlackListOfUsersFeatureSys _____  
inherit ...  
default_properties PBlackListUsrOnly, ...
```

10 feature ^FFollowHumanConnectionForwarding

...

remove ^PDevAssocNoRem

...

11 familymember ^SSpecificationC

```
features  
  FUserSpace,  
  FBasicConnection,  
  FVoiceChannel,  
  FScreeningBase,  
  FBlackListOfUsers,  
  FFollowHumanConnectionForwarding
```