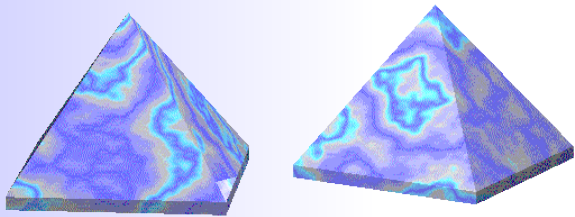


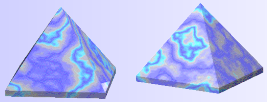
# CORBA and the 4+1 Views



**FloConsult SPRL**

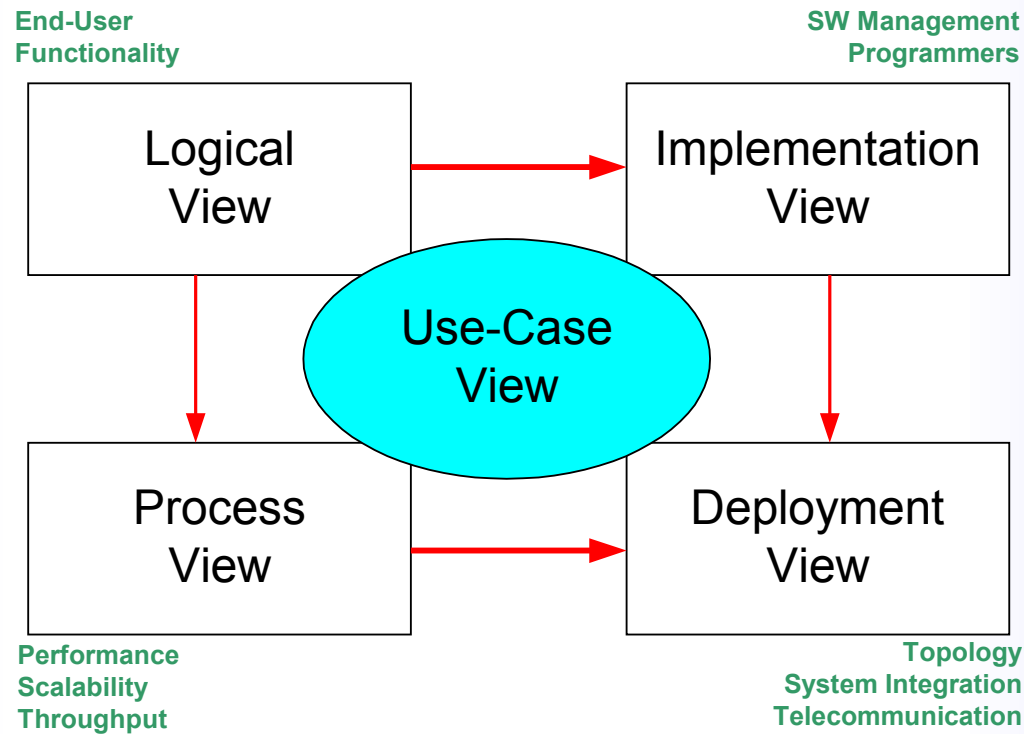
<http://www.floconsult.be>  
<mailto:info@floconsult.be>

**Renaud Florquin**  
**Isabelle Leclercq**

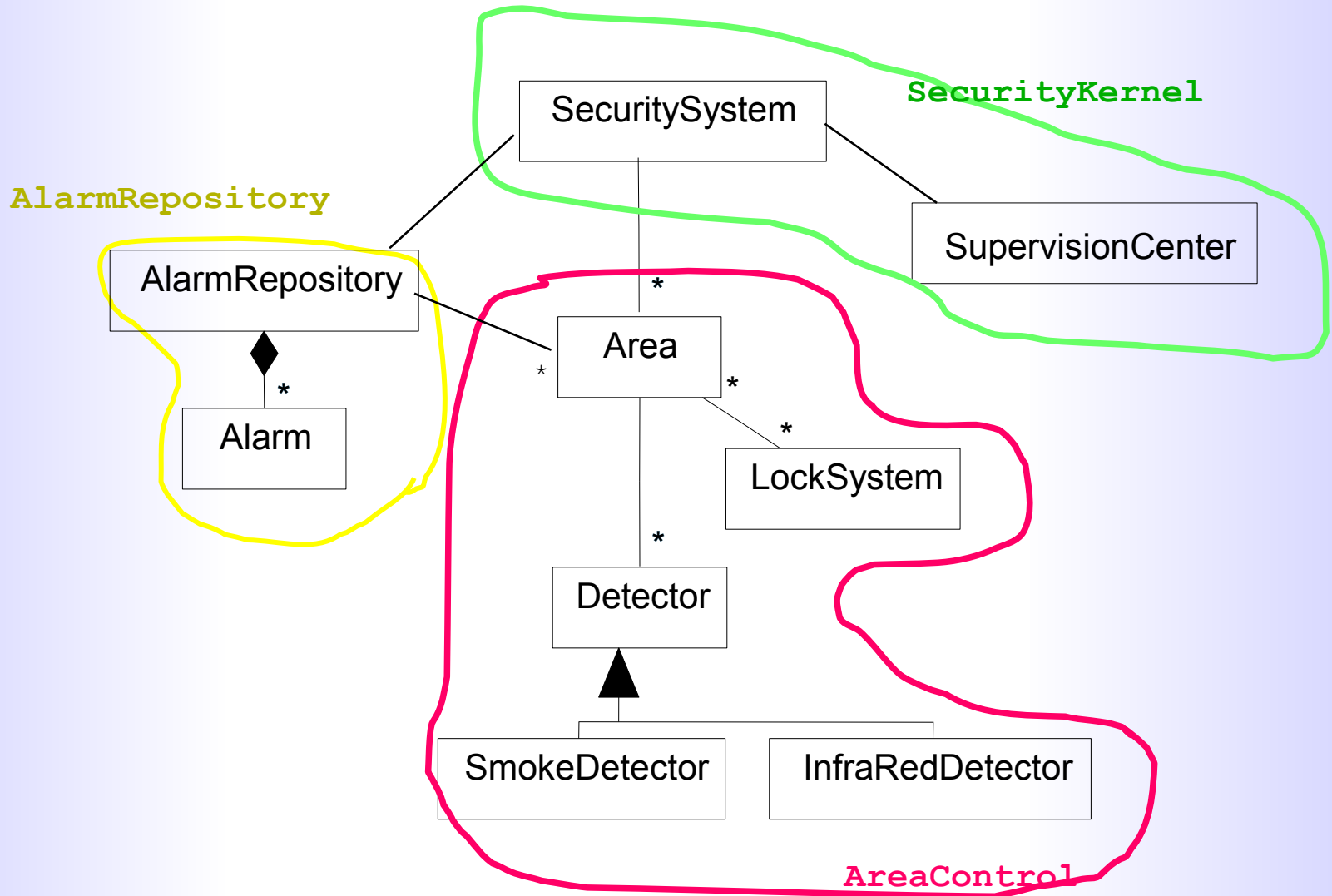


# CORBA in OO development

- How does CORBA appear in the architectural views ?
- Using a distributed security system example



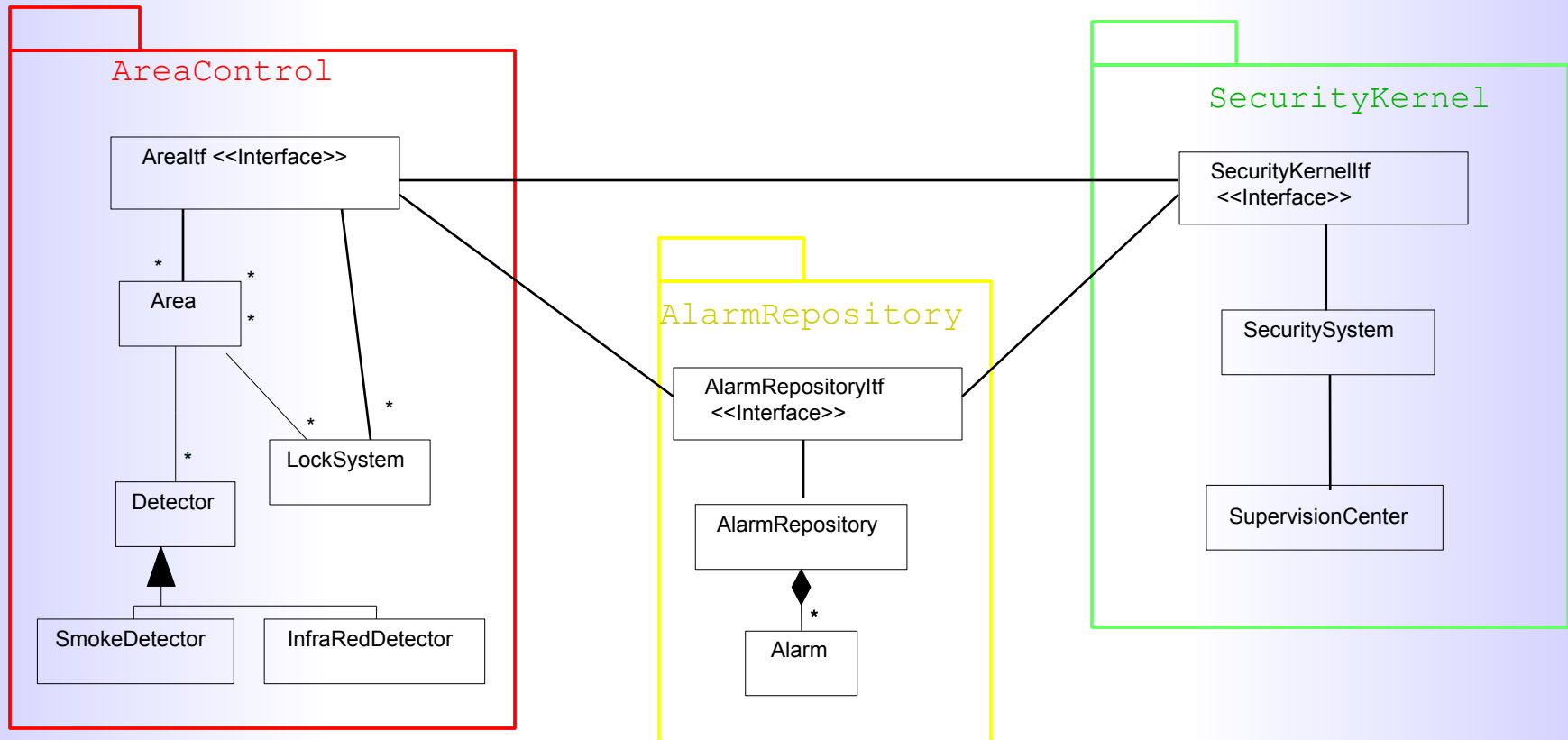
# Security system: logical view (1)

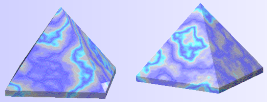


# Security system: logical view (2)

## Logical View (packages) :

- define interface classes for package ("Facade")





# Security system: logical view (3)

## AlarmRepositoryItf : interface specification

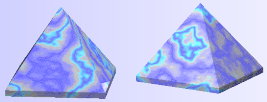
```
interface AlarmRepositoryItf {  
    oneway void pushAlarm(in Alarm newAlarm);  
    oneway void ackAlarm(in Alarm newAlarm);  
};
```



## AreaControlItf : interface specification

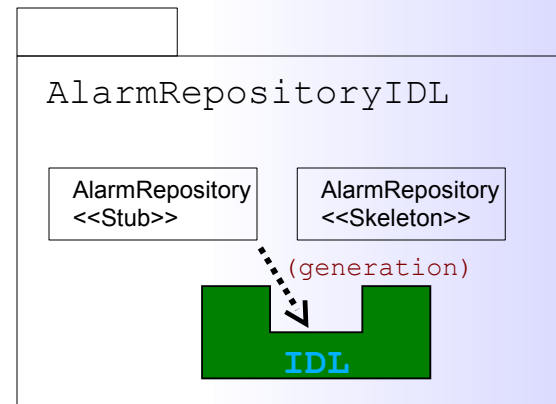
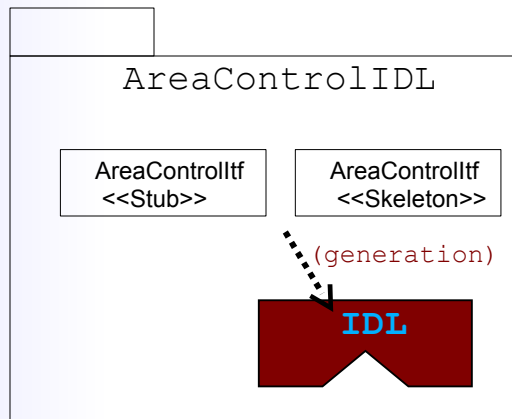
```
interface AreaControl {  
    void lockArea(void);  
    void unlockArea(void);  
    boolean isAreaLock(void);  
};
```

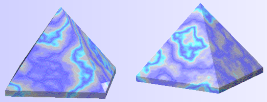




# Security system: logical view (4)

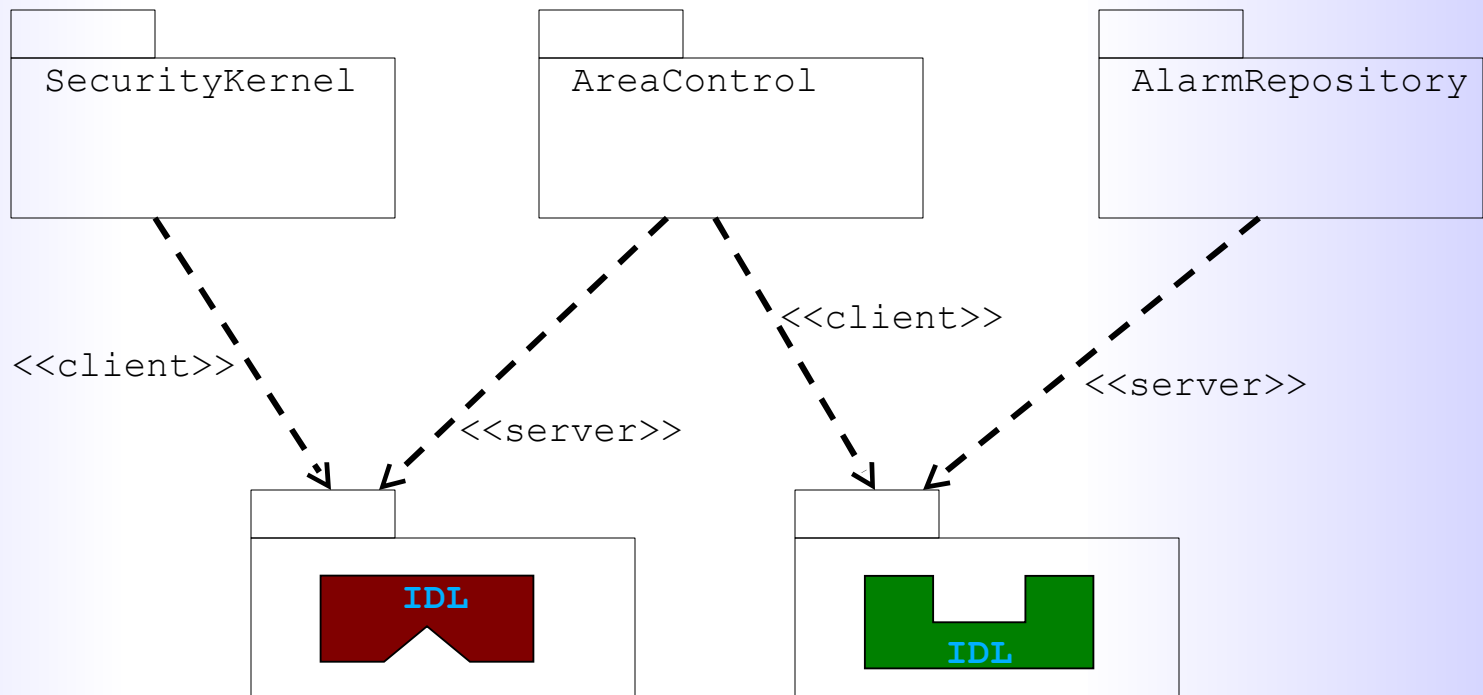
- Logical View (packages) :
  - ◆ Where do we represent the IDLs and the associated generated files ?
  - ◆ In particular packages





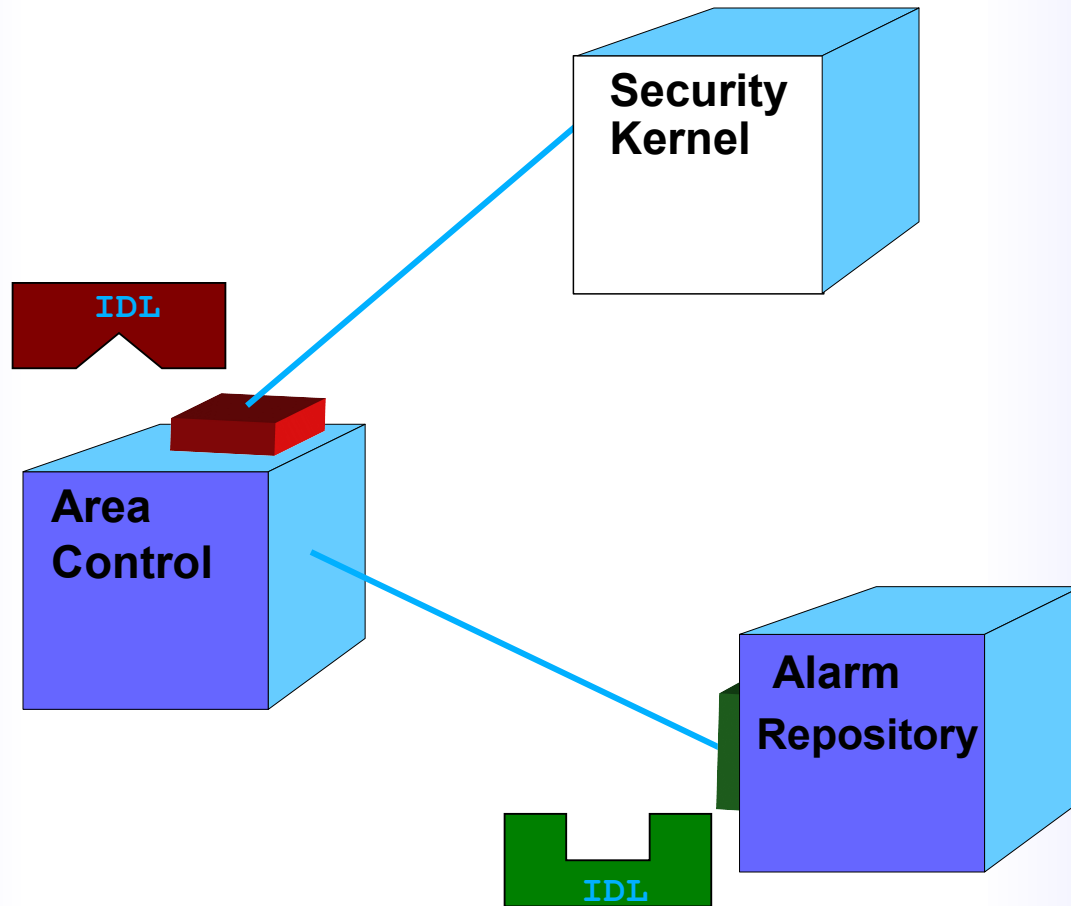
# Security system: logical view (5)

- Logical View (packages) :
  - combining the "normal" packages with the "CORBA" ones

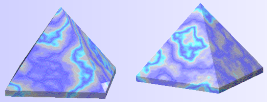


# Security system: Deployment view

- Deployment view:

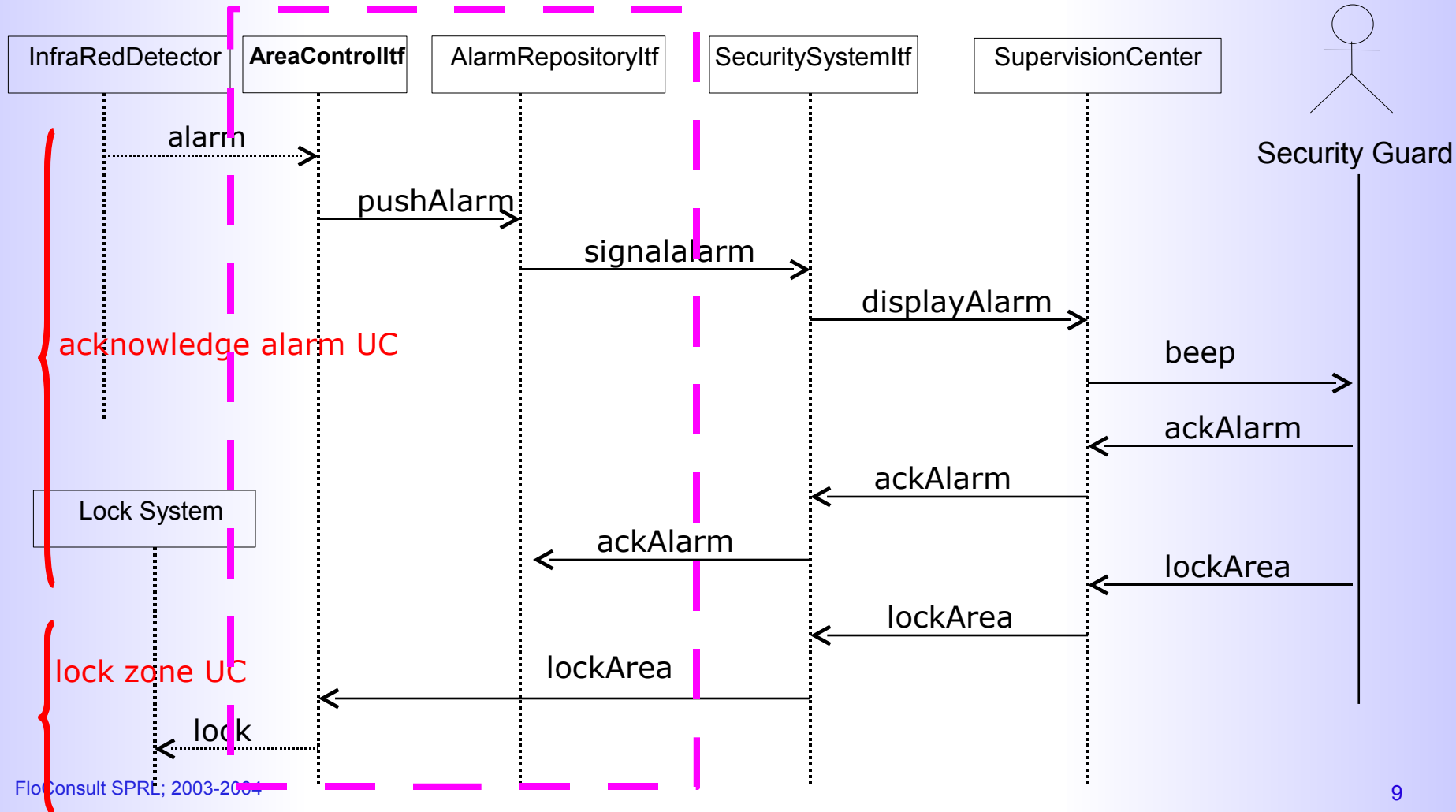


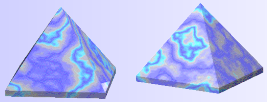




# Security system: UC view

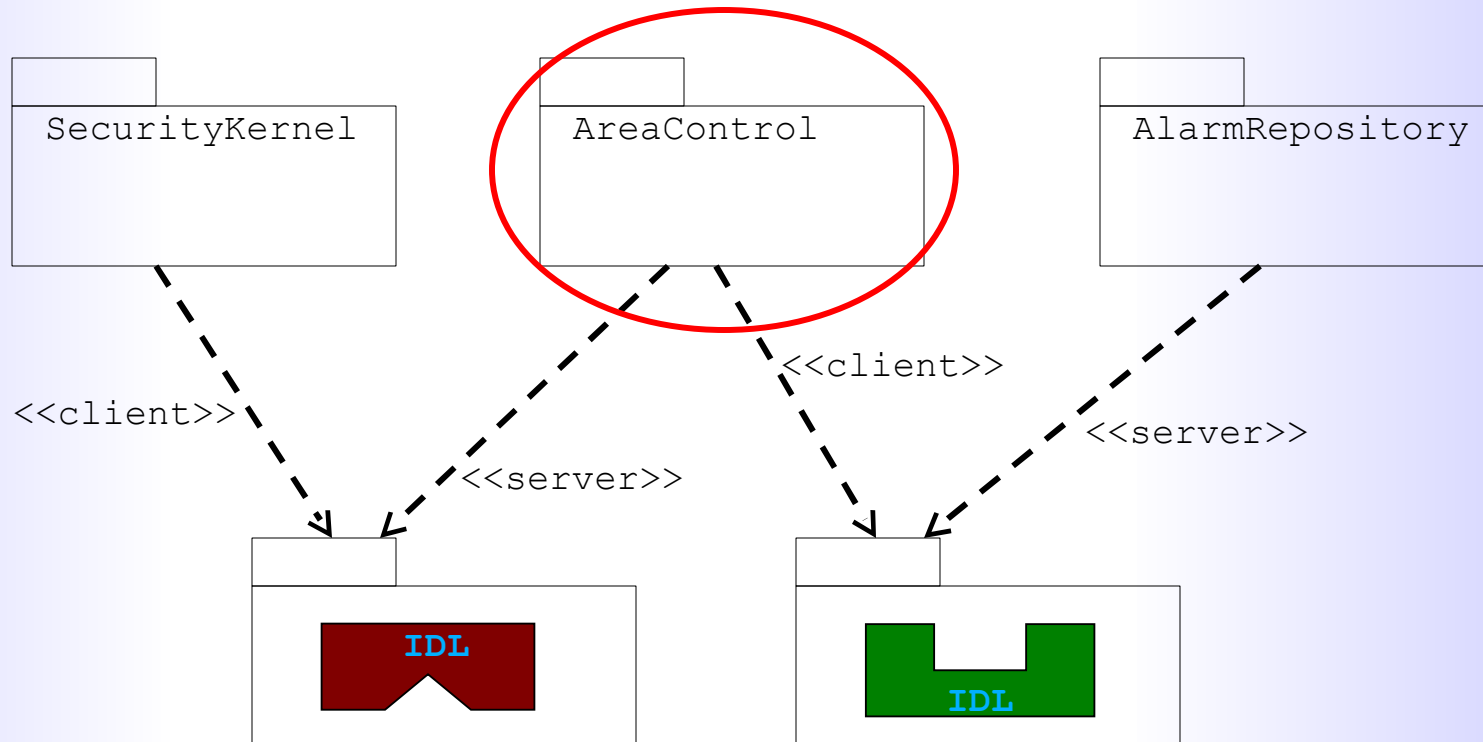
## Scenario example

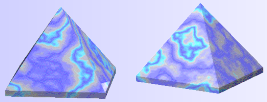




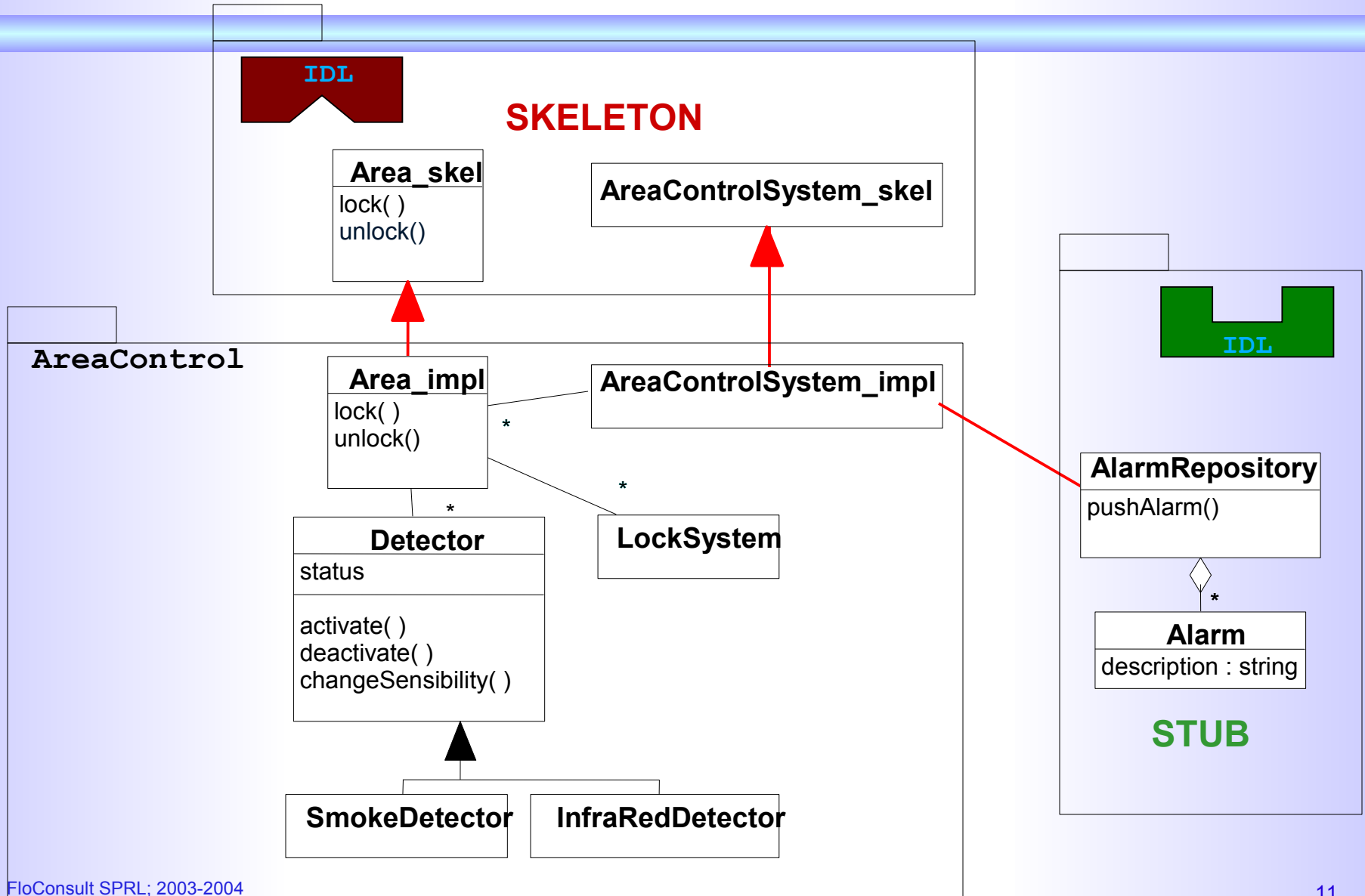
# Security system: logical view (6)

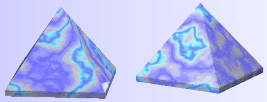
## Logical View (packages):




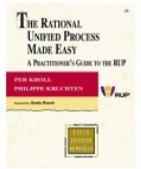


# Security system: logical view (7)





# Bibliography

|   |  |
|---|--|
|  | <p><b>Pure CORBA 3</b><br/>by Fintan Bolton;<br/>944 p, July 2001, SAMS, ISBN 0672318121</p>   |
|  | <p><b>The Rational Unified Process made Easy: A Practitioner's guide to RUP</b><br/>by Per Kroll, Philippe Kruchten;<br/>464 p, April 2003, Addison-Wesley, ISBN 0-321-16609-4</p> |