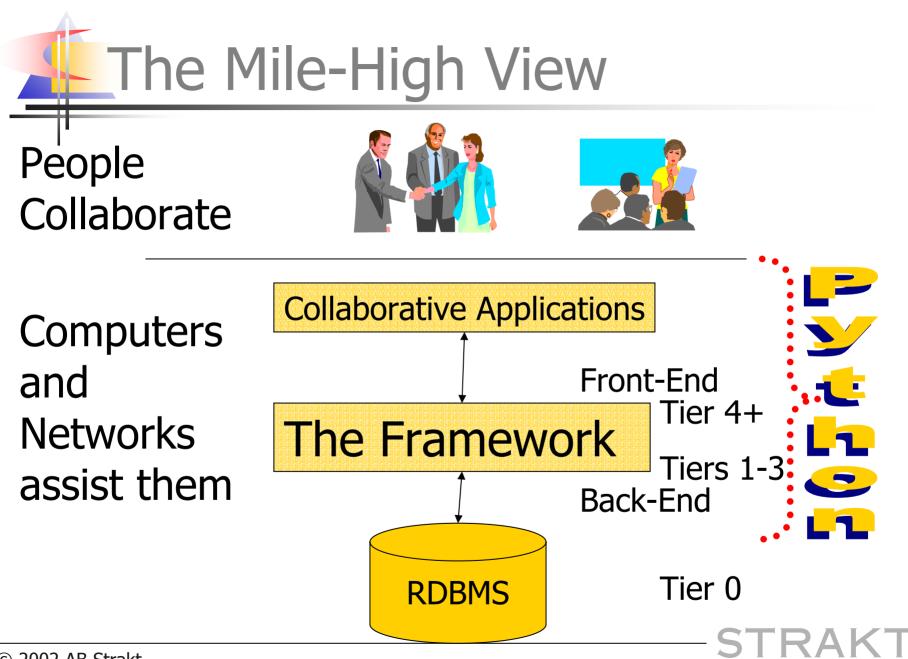
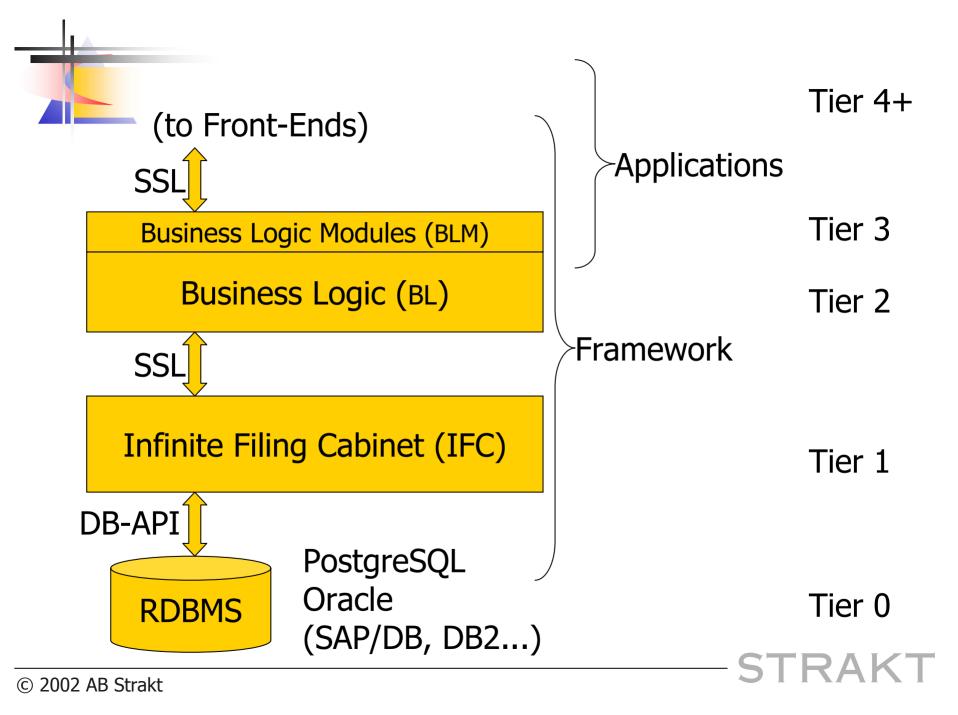


#### for Real-time Computer-assisted Collaborative Applications







# The Infinite Filing Cabinet

- builds an OO DB on top of the RDBMS's tables / transactions / views / queries...
- can use any good standard SQL RDBMS
- queries yield sets of objects
- requests yield object attributes
- each is transient or subscription
- subscriptions feed BL with RT info
- IFC also provides intrinsic audit trail

# The Business Logic subsystem

- builds business objects on top of IFC (so all other Tiers can deal in high-level, application oriented concepts/terms)
- handles real-time interaction with IFC and front-ends
- highly modular: loads (from IFC) the Python *Business Logic modules* to perform application-specific work
- supervises authorization issues

### Business Logic modules

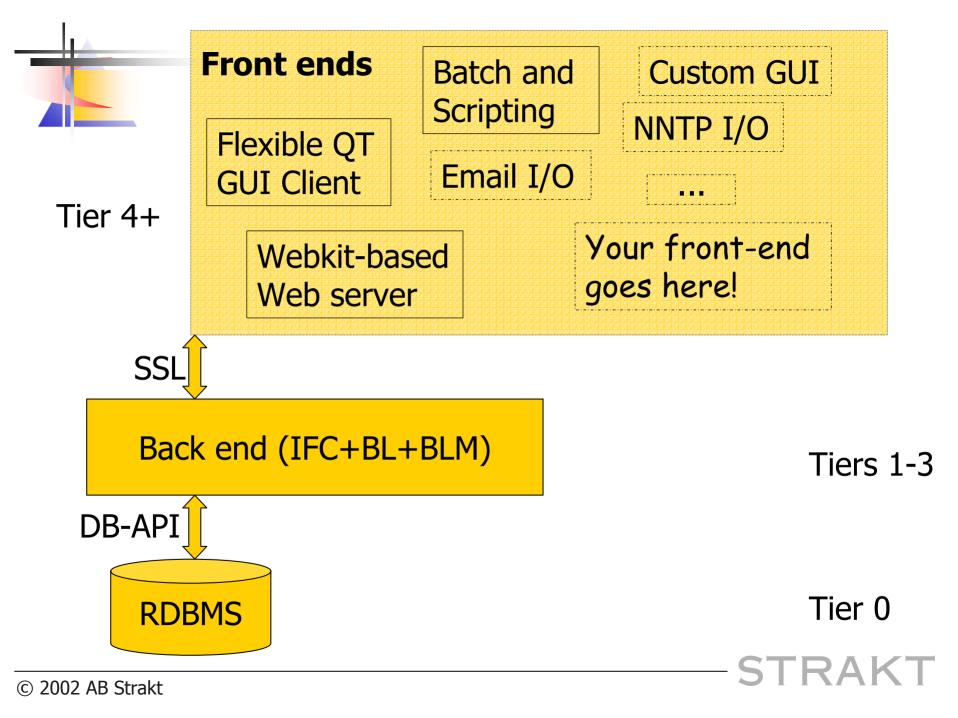
- Python modules residing in the IFC, loaded by and running in the BL
- each BLM deals with a specific application area
- describes each business object
- asserts (may implement) business rules
- may include presentation-level information (passed on to front-ends)



- "small language" (mostly Python classes) to ease ER-like expression of BLMs
- \_ent\_doc = Entity('Document').attributes(
   (String('Heading'),Mandatory,Short),
   (Timestamp('Created'),Unchangeable,
   OnCreation(BlmLang.timeStamp),
   (Blob('Contents'),),
- ).relation('Links', (0,Any), (0,Any)

).presenterClass(DocumentPresenter

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### Front-Ends (Tier 4)

- Communicate with the BL (via SSL)
- Receive presentation-control from BLM
- Optionally support RT updates
- Framework supplies some flexible / generic ones (current and/or planned) customized via presentation-control ...
- and supports adding custom ones
- May support Tiers 5+ (e.g. Tier 4 Web server Tier 5 browsers)

# Applications

#### One or more BLMs for logic

- may use BlmLang
- may support presentation-control in order to customize flexible generic front-ends
- Optionally, custom Front-Ends
  - if the flexible generic ones aren't enough
- Coded in Python (other languages are not "forbidden", but... why?-)
- Integration "hooks" with externals
  - back-end (metadata, "peer to peer", ...)
  - front-end (more typical -- and easier)

## Size to date (approx SLOC)

500

STRAK

7000

- bin
- Common
- IFC 7000
  BL 7000
  BLM 2500
- FE Base 4500
  Test Scripts 1500
  Gui Base 7000
  Gui/\* 7000
  Web FE 5000