# **AIE Overview, Part 4**

**Active Security** 





# Search and Security



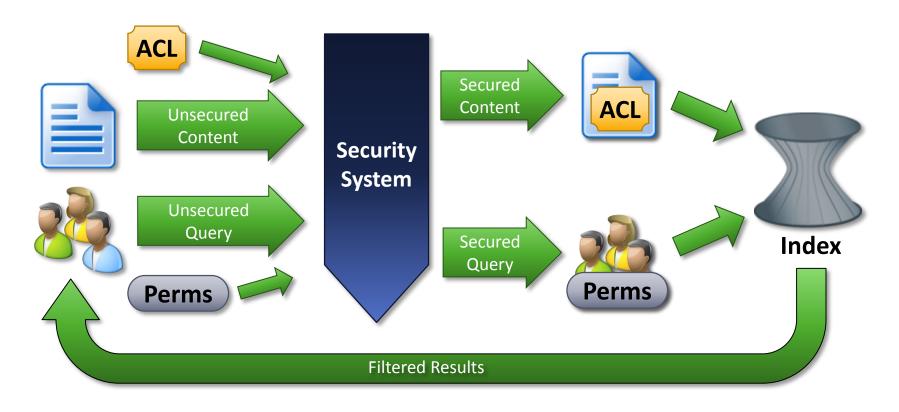
- Two traditional models for securing content:
  - Early Binding Security (flattening)
  - Late Binding Security (post-query filtering)

Both have significant drawbacks

 Attivio's patented Query-time JOIN capabilities allow us to eliminate the problems of both models

## **Early Binding Security**

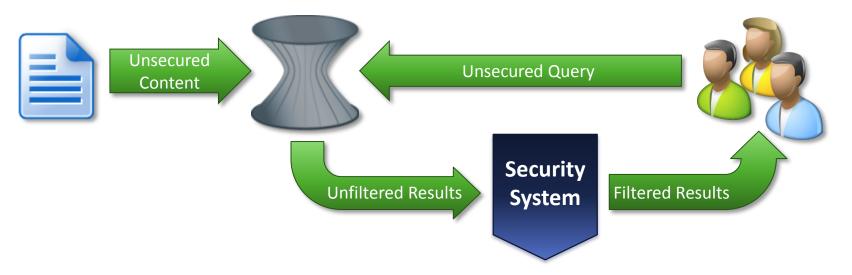




- Documents <u>must</u> be tagged and indexed with ACLs
  - Updating ACLs requires re-processing all associated content
- More secure than the Late Binding model

#### **Late Binding Security**

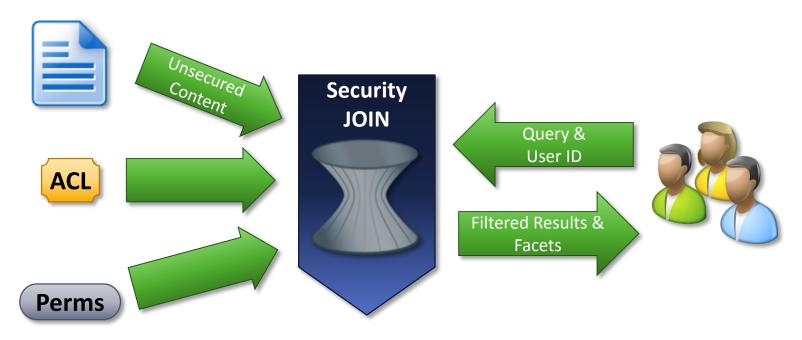




- Results are filtered to remove documents that the user does not have access to
  - Failure case: too many documents displayed
- Inaccurate facet counts—facets "leak" information from filtered documents
- Easier to update than the Early Binding model

#### **Attivio Active Security**

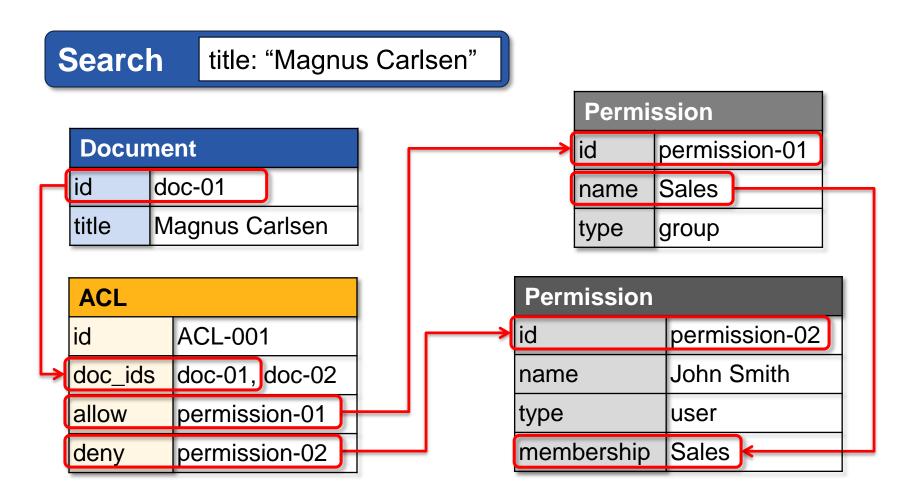




- Ingest and store content, permissions, and ACLs independently
- Permissions and ACL updates don't affect associated content
- Can ingest existing traditional security systems and convert them to an Active Security model

### Active Security Example





John Smith will not be able to see this document.