

The secret of Topic Map caching



Posten Information System

- Intranet with 26 000 user-Ids, each with a personalized "My page"
- Information sharing/access and collaborative workspaces
- Based on
 - SharePoint Portal server 2003
 - TMCore topic map engine
 - Captaris Workflow
 - Intellisearch search server
 - Meridio archive system



Performance challenges

- Scaling
 - 250 000 topics, 500 000 associations,
 1.2 Mill occurrences
 - 12 000 uniqe intanett users
- Performance need:
 - 80 pages pr second
 - 10 TopicMap queries on personal start page
 - = 800 TopicMap queries pr second...
 - = 0.00125 second pr query...



Solution: Cache Qube

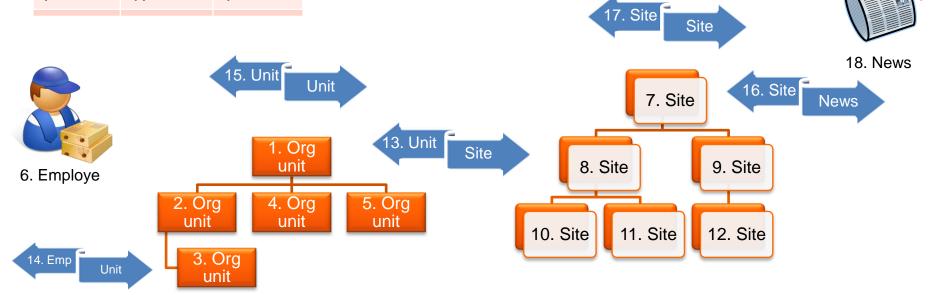
- Topic Maps gives the simple solution if you can hook into the update process
- Store a trail of every topic and association type iterated in a query
- Cache the result
- On update lookup in the trail an delete any affected query



TopicID	AssoType	QueryID
6	14	1
3	15	1
2	15	1
1	13	1
8	16	1
8	17	1
7	16	1
7	17	1

Cache Qube

QueryID	Query
1	Select News related by Unit and Site to Employe 6





Conclution

 In a query repetitive environment where you need instant view of updates...

Topic maps may just be the fastest data structure there is!