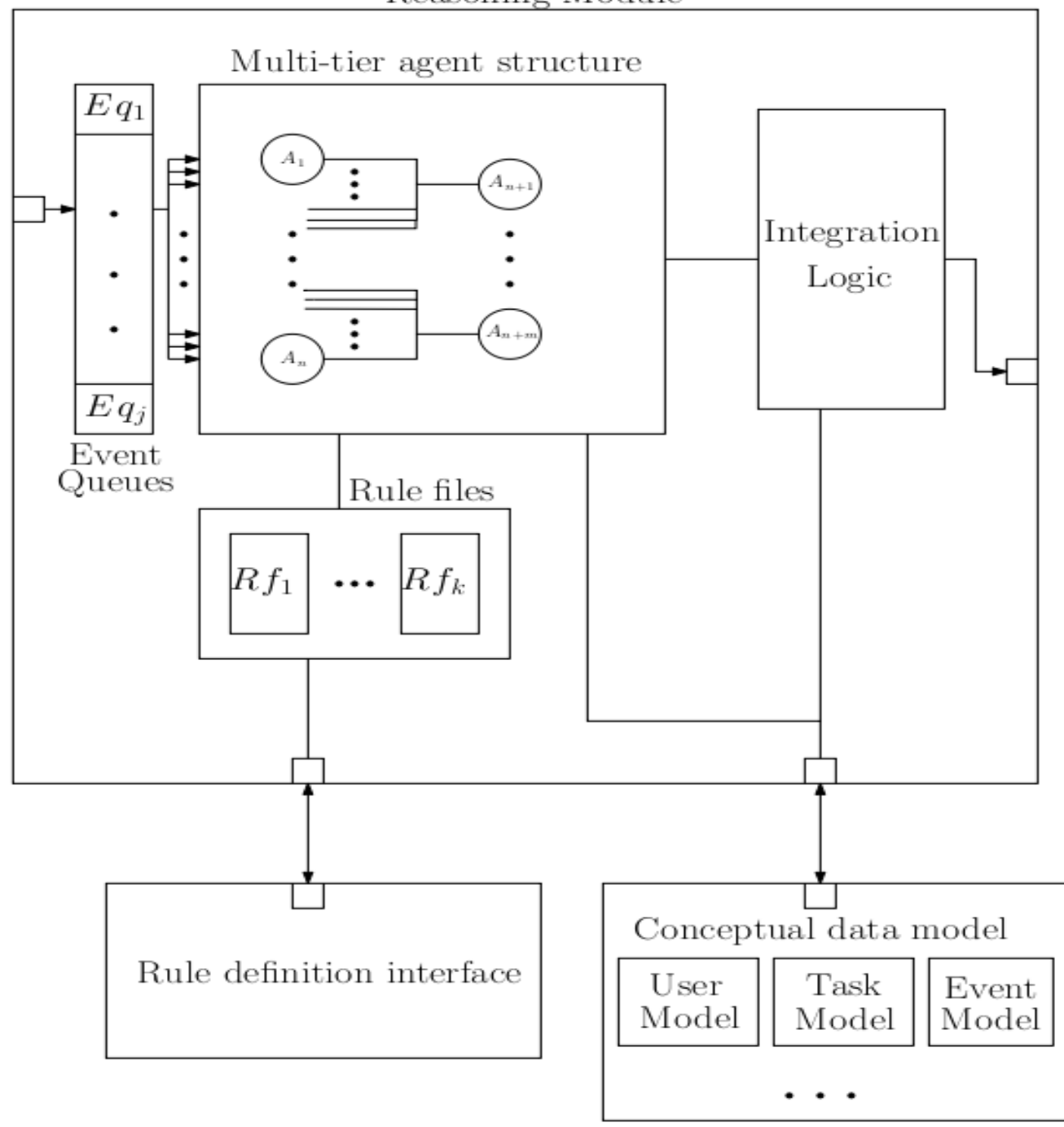




Reasoning Module (WP3)

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Examples of reasoning rules

=> defined at configuration time

If new_external_event and event(keyword) matches
current_task(keyword)
then new_external_event_priority = .8

If new_external_event and event(originator)
matches current_task(relevant_people)
then new_external_event_priority = .5

Rules grammar

- If *event_type* and *eval* then *action*
- *event_type* ::= <the events defined in the CF>
- *eval* ::= *lparam cond rparam* | *eval* and *eval*
- *action* ::= priority *shift_priority* | modality *set_modality* | explanation
build_explanation | *action* ; *action*
- *etc.*

=> allows generation, validation, portability and manipulation via XML translation (editor)



Technology

- agents: applications server (Java, tomcat)
- communication: web services (SOAP)
- blackboard architecture: database (mySQL)
- open source components



Prototype

- scenario driven, from CF
- subset of the conceptual data model
- simple set of rules to validate the grammar
- made collaboration with others partners



Test deployment

- successful: Ontdeknet
- iterative process (response of the agents)
- test of the target scenarios



Future prototyping

- support of more scenarios
- improve reasoning
- other agents (time, community awareness)
- connection with context management tools
- definition of other interfaces to the module

