



Reasoning Module Design

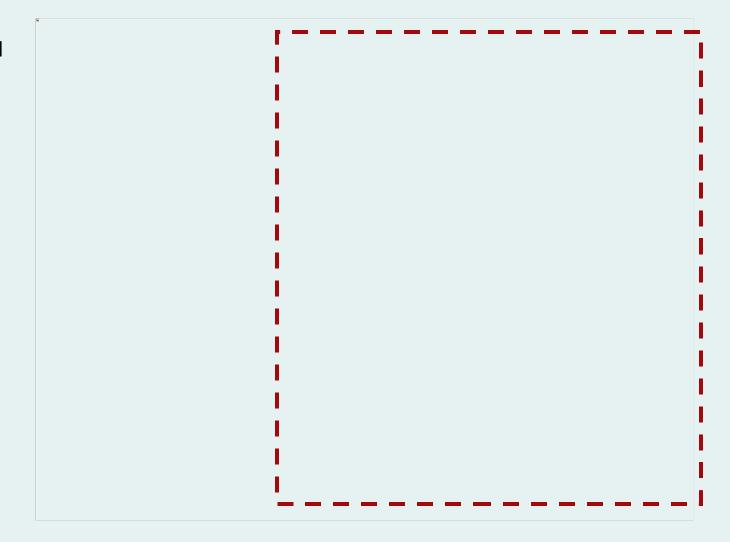
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Atgentive Design

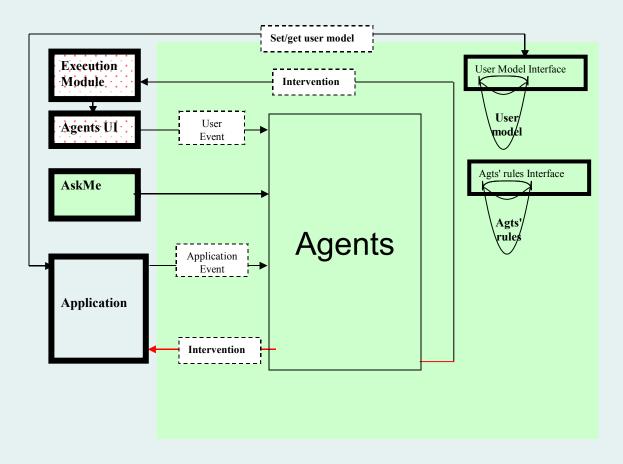
From D3.1







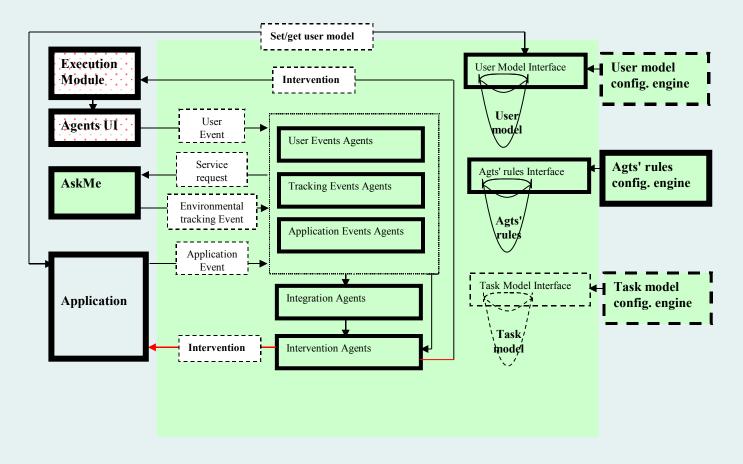
Overview







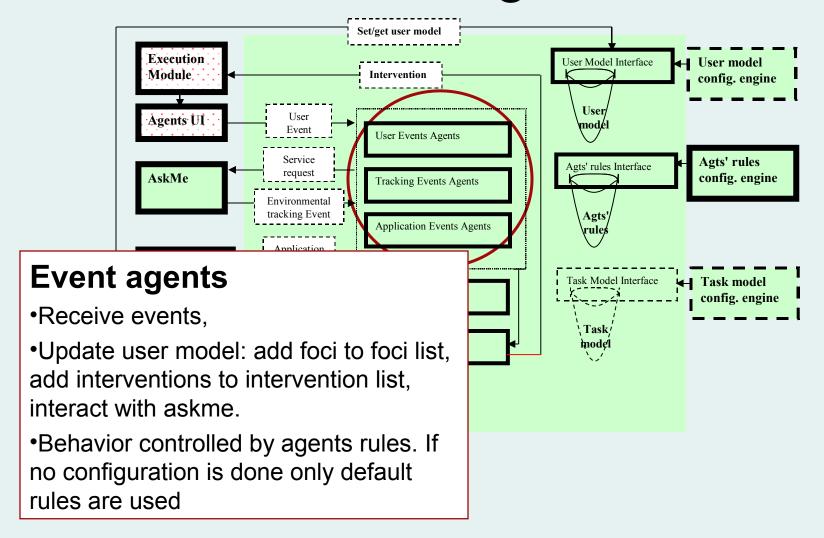
Overview







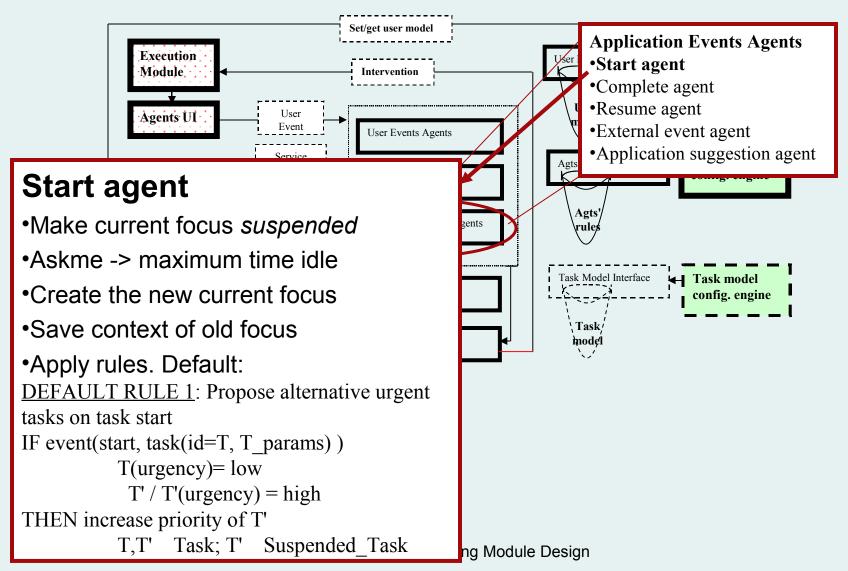
Event agents







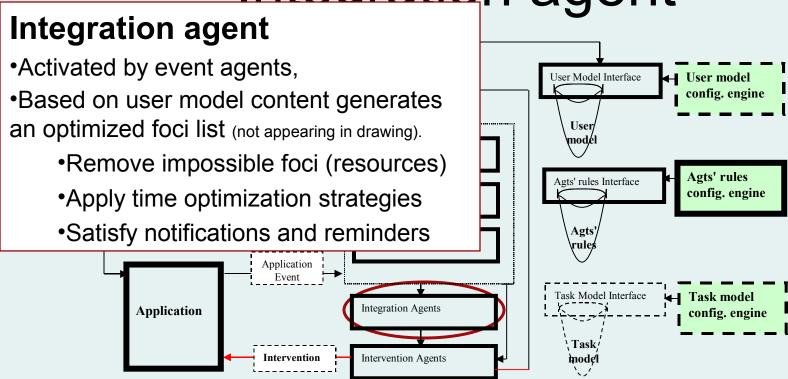
Event agents (example)







Integration agent

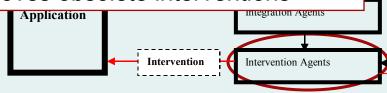




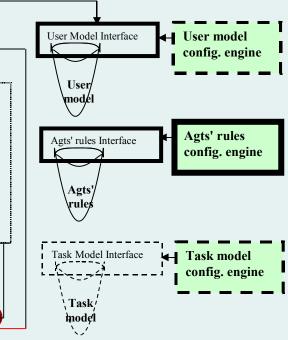


Intervention agent

- •Activated by integration agent, or event agents on special events (idle input, breakpoint),
- •Based on user model and optimized foci list generates and prioritizes interventions (not appearing in drawing).
 - •Responds to idle input events
 - Evaluates intervention type
 - Evaluates intervention modality
 - Removes obsolete interventions



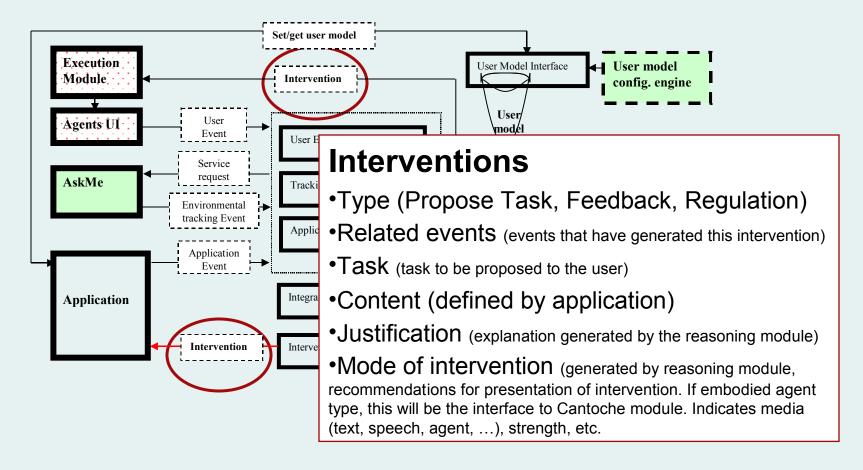
n agent







Interventions

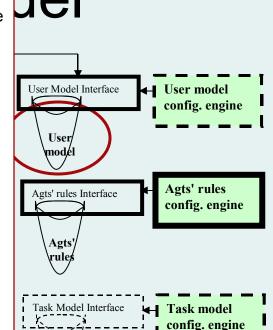






User model

- •Foci list (<user-task, priority, state> these are possible alternative foci)
- •Intervention list (<intervention, priority, state> these are possible interventions)
- Preferences (maximum frequency of interruption, nointerruption time, notification modalities)
- •Notification requests (<event, intervention>)
- •Intervention history (<intervention, time, context, user-feedback)
- •User-task model (<task, urgency, deadline, continuation, difficulty level, keywords, relevant people, interruption preferences, priority (?), progression, expected duration> based on the generic task description)
- Time available
- Social network
- Reminders requests
- Events history
- ...
- •DO WE WANT TO ADD LEARNING SPECIFIC ITEMS AS REQUESTED BY REVIEWERS?



Task/ model





Task model

Task model (user independent)

- •ID
- Type
- Name
- Maximum idle time
- Continuation (following task(s))
- Difficulty level
- Keywords
- •Relevant people / social network
- •Required resources (new information available events, user state (e.g. logged in), task state, ...)
- Explanation to user
- Expected duration

