

# *User-Centric Management of Ubiquitous Environments - Challenges & Initial Solutions*

Keara Barrett, Ray Caroll, Venet Osmani and Sven van den Meer

## Challenges

- Personal Information
- Context Information
- Policy Based Management

## Personal Information

- Provide a consistent representation of user information to all ubiquitous environments.
- Manage the collection, maintenance and use of this information to actively personalise the environment.

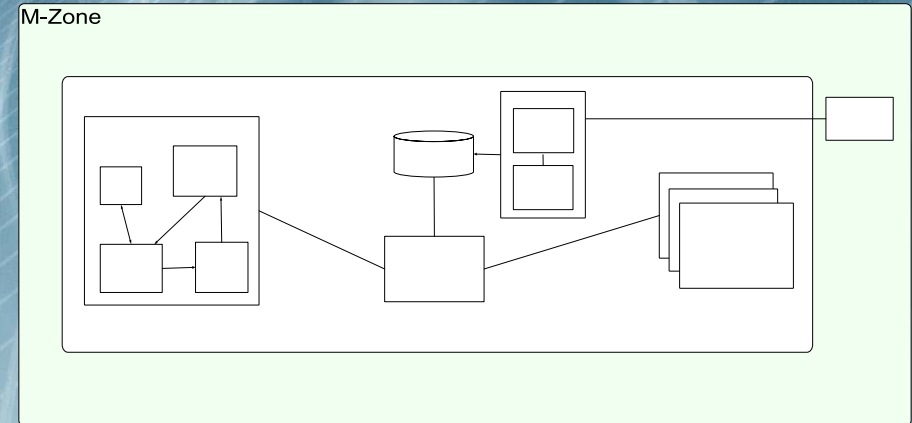
## Context Information

- Select the best service for the user
- Aggregate contextual information to deduce higher level conclusions

# Policy Based Management

- ▣ Apply information to alter the computing environment
- ▣ Verify that operations are complete and valid

# Architecture



Context Information Manager

QoC  
Monitor

Context  
Aggregator

Context Data  
Composer

Context Data  
Retriever