Privacy Arguments
Managing Selective Disclosure Requirements in Mobile Applications

1. **Mobile privacy** is dependent on user **context**

Privacy needs are also **specific** to **individual** users

“Bob does not want to share his location information with Sarah on Thursdays and Fridays.”

“It is acceptable to share location information with colleagues during work hours.”

“Bob prefers to share with colleagues on weekdays and with friends on weekends” { 
**preferred by**
A2 **precedes** A3
when (day >= Monday & day <= Friday)
A3 **precedes** A2
when (day >= Saturday & day <= Sunday) 
}

New challenges for Requirements Engineering

Representation of requirements for individual and classes of users

**Formal reasoning** about requirements for privacy

Privacy Argument captures a class of **software behaviour** and its **context** satisfying privacy requirements

A **problem diagram** describes software behavior, context, requirement and their relationship.

A transformed problem diagram describes the architecture for enforcing the privacy in the original problem diagram.

Reference