

# jUCMNav Report



<http://softwareengineering.ca/jucmnav>

## UCM Scenario Groups documentation

- ScenarioGroup6:

1. ScenarioDef7

## Intentional Elements

1. Minimize consumption
2. Manage energy
3. Manage appliances
4. Wind turbines
5. Off heater
6. On heater
7. Off dish washer
8. On dish washer
9. Maximize energy production
10. Wind speed
11. Electricity price
12. Dish washer controller
13. Air conditioner controller

14. Power controller
15. SmartHome
16. Light
17. Smart grid
18. Heater controller
19. Manage home
20. Solar panel
21. Provide services
22. Wi-Fi
23. Internet
24. Response time
25. Open windows
26. On air conditioner
27. Off air conditioner
28. Close windows
29. Water heater controller
30. On water heater
31. Off Water heater
32. Air ventilator controller
33. On air ventilator
34. Off air ventilator
35. Suitable weather
36. Maximize privacy
37. Maximize comfort
38. Smart appliances controller
39. Normalize inside temperature
40. Heating time
41. Heating water time
42. Cooling time
43. Remote cooling
44. Remote heating
45. Remote water heating
46. Full
47. Windows controller
48. Air conditioner schedule
49. Water heater schedule
50. Heater schedule
51. Heater switch
52. Water heater switch
53. Air conditioner switch
54. High temperature
55. Normalize

- 56. Smoke detection
- 57. Operate related tasks
- 58. Refresh inside air
- 59. Low temperature
- 60. User permission
- 61. Air conditioner remote access
- 62. Water heater remote access
- 63. Heater remote access
- 64. Sensors
- 65. Motion sensors
- 66. Light sensors
- 67. Smoke detector
- 68. Smart security camera
- 69. Wind sensors
- 70. Smart thermostat
- 71. No suspicious behaviour detected
- 72. Monitor the environment
- 73. Set thermostat
- 74. Infrared sensor
- 75. Cyber attack detection
- 76. Maximize security
- 77. Temperature setting
- 78. Temperature remote access
- 79. Detect suspicious behaviour
- 80. Security sensor
- 81. Internet connection
- 82. Learning technique
- 83. Cooling habits
- 84. Heating habits
- 85. Fire
- 86. Enable water heater access
- 87. Enable air conditioner access
- 88. Enable heater access
- 89. Enable heater schedule
- 90. Enable air conditioner schedule
- 91. Enable water heater schedule
- 92. Enable temperature access

## **Actors**

- 1. Inhabitant
- 2. SmartHomeSystem

## Manage home

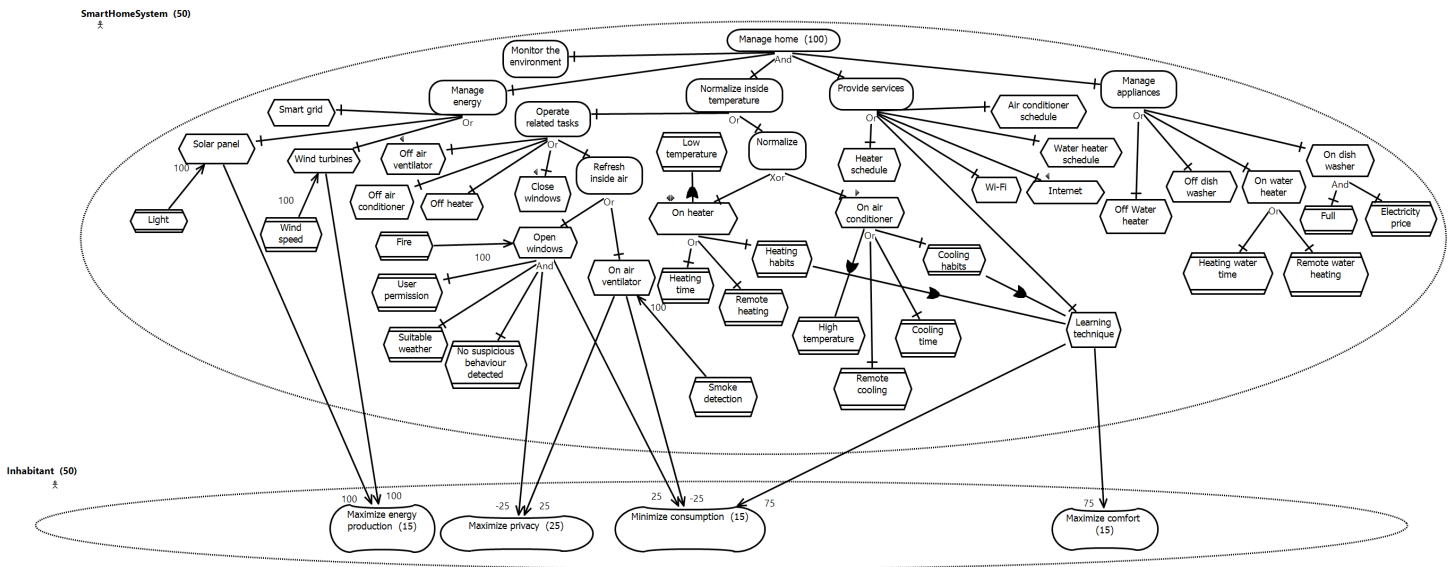


Figure 1 - Manage home

## Intentional Elements

Wind speed

Metadata: "\_addAggregate" = "disable"

Electricity price

Metadata: "\_addAggregate" = "disable"

Light

Metadata: "\_addAggregate" = "disable"

Suitable weather

Metadata: "\_addAggregate" = "disable"

Heating time

Metadata: "\_addAggregate" = "disable"

Heating water time

Metadata: "\_addAggregate" = "disable"

Cooling time

Metadata: "\_addAggregate" = "disable"

Remote cooling

Metadata: "\_addAggregate" = "disable"

Remote heating

Metadata: "\_addAggregate" = "disable"

Remote water heating

Metadata: "\_addAggregate" = "disable"

Full

Metadata: "\_addAggregate" = "disable"

Low temperature

Metadata: "\_addAggregate" = "disable"

Smoke detection

Metadata: "\_addAggregate" = "disable"

High temperature

Metadata: "\_addAggregate" = "disable"

User permission

Metadata: "\_addAggregate" = "disable"

Cooling habits

Metadata: "\_addAggregate" = "disable"

Heating habits

Metadata: "\_addAggregate" = "disable"

No suspicious behaviour detected

Metadata: "\_addAggregate" = "disable"

Fire

Metadata: "\_addAggregate" = "disable"

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## Intentional Element URN Links

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On heater ==> (Feature)Close windows

Link Type: Include

On heater ==> (Feature)Off air ventilator

Link Type: Include

On heater <== (IntentionalElement)On air conditioner

Link Type: Exclude

Internet <== (Feature)Water heater remote access

Link Type: Include

Internet <== (Feature)Air conditioner remote access

Link Type: Include

Internet <== (Feature)Heater remote access

Link Type: Include

Internet <== (IntentionalElement)Temperature remote access

Link Type: Include

On air conditioner ==> (Feature)Close windows

Link Type: Include

On air conditioner ==> (Feature)Off air ventilator

Link Type: Include

On air conditioner ==> (IntentionalElement)On heater

Link Type: Exclude

Off air ventilator <== (IntentionalElement)On air conditioner

Link Type: Include

Off air ventilator <== (IntentionalElement)On heater

Link Type: Include

Close windows <== (IntentionalElement)On heater

Link Type: Include

Close windows <== (IntentionalElement)On air conditioner

Link Type: Include

## Scenario Documentation

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### Scenario Execution Summary

#### Group ScenarioGroup6 (ID:6)

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Scenario	Result	Message(s)
ScenarioDef7 (ID: 7)	FAILED	No start points defined! Nothing to execute!

## Scenario Information

Group ScenarioGroup6 (ID: 6)

**Scenario ScenarioDef7 (ID: 7)**