

## Olympic Games Application: Requirement and Assumptions formalization

Version: 1.1

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### **Requirement R:**

$r_{per} := \text{onEvent}(\text{start}, \text{"CheckWeather"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"CalculateFees"}), 45000)$

### **Assumptions A:**

$a_{FastWeather} := \text{onEvent}(\text{start}, \text{"Check Weather"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Check Weather"}), 5900)$

$a_{Google} := \text{onEvent}(\text{start}, \text{"Calculate walking route"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Calculate walking route "}), 4000)$

$a_{Google} := \text{onEvent}(\text{start}, \text{"Calculate bus route"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Calculate bus route "}), 4400)$

$a_{WSAmazonBox} := \text{onEvent}(\text{start}, \text{"Find eBook"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{" Find eBook "}), 8400)$

$a_{HyperlinkExtractor} := \text{onEvent}(\text{start}, \text{"Provide Related Links"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Provide Related Links"}), 6400)$

$a_{GetJoke} := \text{onEvent}(\text{start}, \text{"Add Joke"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Add Joke"}), 2700)$

$a_{CurrencyConverter} := \text{onEvent}(\text{start}, \text{"Calculate Fees"})$

→  $\text{Within}(\text{onEvent}(\text{end}, \text{"Calculate Fees"}), 14000)$