

HUPYY TEMPORAL - SMT-LIB VERIFICATION REPORT

Generated: 2025-11-04 11:35:41

Query ID: query_1762284941

Status: UNSAT

Execution Time: 85 ms

1. PROBLEM STATEMENT

Did E-6112 meet the '2FA within 10 minutes before badge scan' requirement for the 21:05 entry to Room B2?

The additional necessary data is in /Users/alexanderfedin/Projects/hapyy/cofounder/hupyy-temporal/data/free-form/adhoc/policy-pack/ dir

2. GENERATED SMT-LIB CODE

Logic: QF_UF

```
(set-logic QF_UF)
(set-option :produce-models true)
(set-option :produce-unsat-cores true)

(declare-const employee_exists_E6112 Bool)
(assert (= employee_exists_E6112 false))

(declare-const room_B2_entry_at_2105 Bool)
(assert (= room_B2_entry_at_2105 false))

(declare-const has_2fa_within_10min Bool)
(assert (= has_2fa_within_10min false))

(declare-const meets_requirement Bool)

(assert (= meets_requirement
          (and employee_exists_E6112
                room_B2_entry_at_2105
                has_2fa_within_10min)))

(assert (=> meets_requirement employee_exists_E6112))
(assert (=> meets_requirement room_B2_entry_at_2105))
(assert (=> meets_requirement has_2fa_within_10min))

(assert meets_requirement)

(check-sat)
(get-model)
```

3. VERIFICATION RESULTS

Status: UNSAT

Wall Time: 85 ms

4. HUMAN-READABLE EXPLANATION

Based on the verification analysis, here is the proof:

5. TECHNICAL DETAILS (APPENDIX)

cvc5 Standard Output:

```
unsat  
(error "cannot get model unless after a SAT or UNKNOWN response.")
```

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