Contents

1 question1 Theory

Built: 05 September 2019
Parent Theories: cipher, string

1.1 Theorems

[question1Thm]

⊢ ∀ *signature* .
  `signVerify (pubK` *TrueSignatures*`)` *signature*
    `(SOME` "pubK GoodBooks"`)` ⟺
  (*signature* `=`
   `sign (privK` *TrueSignatures*`)`
     `(hash (SOME` "pubK GoodBooks"`)))`

2 question2 Theory

Built: 05 September 2019
Parent Theories: aclDrules

2.1 Datatypes

commands `= pay | debit`

keyPrinc `= Staff people | Role roles | Ap num`

people `= Alice | Bob`

principals `= PR keyPrinc | Key keyPrinc`

roles `= payer | payee`

2.2 Theorems

[question2Thm]

⊢ `(`*M*`,`*Oi*`,`*Os*`) sat Name (PR (Role payer)) controls prop pay ⇒`
  `(`*M*`,`*Oi*`,`*Os*`) sat`
  `reps (Name (PR (Staff Alice))) (Name (PR (Role payer)))`
    `(prop pay) ⇒`
  `(`*M*`,`*Oi*`,`*Os*`) sat`
  `Name (Key (Staff Alice)) quoting Name (PR (Role payer)) says`
  `prop pay ⇒`

(*M*, *Oi*, *Os*) sat prop pay impf prop debit ⇒
(*M*, *Oi*, *Os*) sat
Name (Key (Role payee)) speaks_for Name (PR (Role payee)) ⇒
(*M*, *Oi*, *Os*) sat
Name (Key (Role payee)) says
Name (Key (Staff Alice)) speaks_for Name (PR (Staff Alice)) ⇒
(*M*, *Oi*, *Os*) sat
Name (PR (Role payee)) controls
Name (Key (Staff Alice)) speaks_for Name (PR (Staff Alice)) ⇒
(*M*, *Oi*, *Os*) sat
Name (Key (Staff Bob)) quoting Name (PR (Role *Operator*)) says
prop debit

Index