The following full text is a publisher's version.

For additional information about this publication click this link.
http://hdl.handle.net/2066/34748

Please be advised that this information was generated on 2018-01-22 and may be subject to change.
Revealed incorrectness upon receiving payload in I2-SENT or I2BIS-SENT.

Revealed possible deadlock with optional re-transmitting I2 / I2bis messages.

Clarified confusion about responder nonce.

Revealed several other ambiguities, omissions and inconsistencies.

Acknowledged by SHIM6 draft authors. Will be incorporated in new IETF proposal.

Formalization and Verification

An integrated tool environment for modelling, validation and verification of real-time systems modelled as networks of timed automata, extended with data types.

Properties:

A[] not deadlock

exists(h1:HostType) exists(h2:HostType) (h1 != h2 and heuristics[h1][h2]) --> forall(h3:HostType) forall(h4:HostType) (h3 != h4 imply Context(h3,h4).established)

UPPAAL:

API1
API2
TCP/UDP
IP
IPv4
End-point
IPv4
Locator
IPv6
Forward
shim6 Protocol

SHIM6:
http://www.shim6.org
http://tools.ietf.org/wg/shim6/
http://www.ietf.org/html.charters/shim6-charter.html

UPPAAL:
http://www.uppaal.com