

Issue Tracking - Tissue

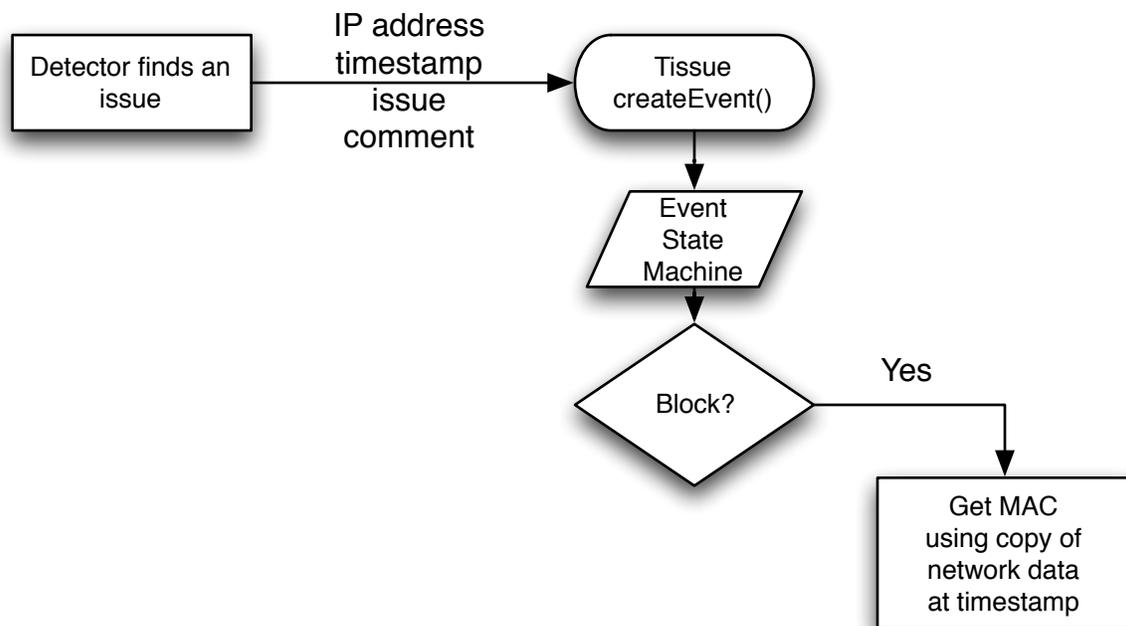
Description

Tissue was developed ('05) to track issues found by network detectors. When a detector finds an issue with a network device, it uses the Tissue 'createEvent()' method to create an event. The resulting event has a state machine applied than can move the event through states such as Open, Closed, Blocked, Pending, etc.

Tissue provides for issues to be defined (e.g. "Virus Found") with parameters for the state machine such as send notification email(s), block network device (or not), remediate event and timeout event. Within Tissue, the network device is defined by a MAC address which Tissue derives from the given IP address and timestamp using a copy of network state data.

Basic Design Decision

Since Tissue was designed to accommodate network detectors, the IP address was used at the only method to identify a network device. The Tissue 'createEvent()'



method only accepts an IP address and timestamp for the network device identification. Tissue uses a copy of network state data to convert the given IP address and timestamp into a MAC address. The MAC address can be used to block the network device if desired.

If a non-network detector has an IP, MAC pair available and attempts to use createEvent() with a timestamp that is out-of-sync with network state data, it's very likely that Tissue will find a MAC address different from the desired MAC address. This can lead to blocking (or warning) about an incorrect network device.