

Adventures in analyzing Stuxnet

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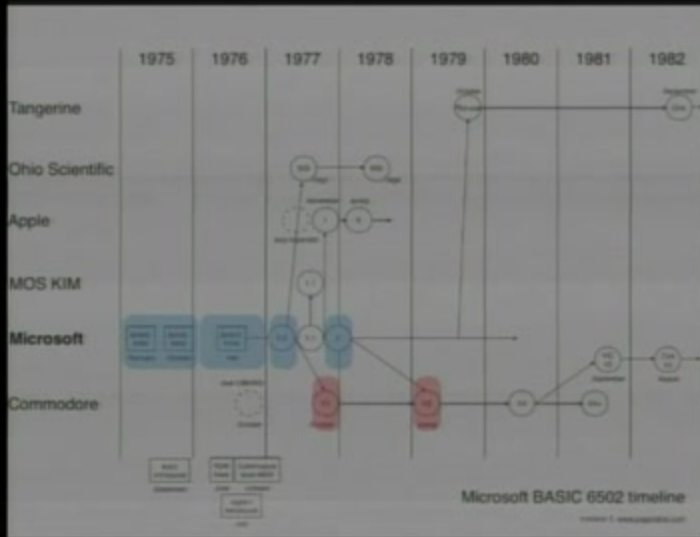
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- 2010-12-27
- 2011-01-04
- 1249
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There has been many publications on the topic of Stuxnet and its "sophistication" in the mainstream press. However, there is not a complete publication which explains all of the technical vulnerability details and how they were discovered. In this talk, you will get a first-hand account of the entire story.

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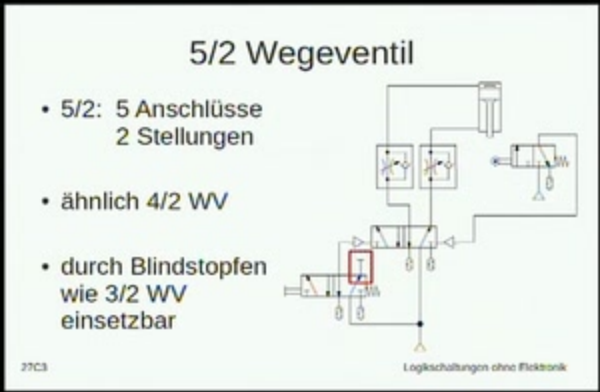
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The two paths of the receive code

```
static int rt18169_rx_interrupt([[...]]){ // [...]  
  for (; rx_left > 0; rx_left--, cur_rx++) {  
    // [...]  
    // grab status: attacker-controlled  
    status = le32_to_cpu(desc->optal); // [...]  
    if (unlikely(status & RxRES)) {  
      // Path 1: Reset-path  
      if (status & RxFOVP) {  
        rt18169_schedule_work(dev, rt18169_reset_task);  
        // [...]  
      }  
      rt18169_mark_to_asic(desc, tp->rx_buf_sz);  
    }else{  
      // Path 2: Receive-Path [...]  
    }  
  }  
}
```

Phenselit Vabs @ 26e8



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