# ccNSO Conficker Panel

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# Agenda

- What actions we took
- Impact of these actions
- Effectiveness
- Cost
- Recommendations

# Step 1

- Prevent registration of Conficker domains
  - Did not want to create a blocklist
  - Might be legitimate reason to register
  - Do not have/want a blocklist
- Build a manual referral route
  - Previously only automatically processed
  - Access to restricted SLDs by registrar
  - Added a mechanism for manual intervention

# Step 2

- Redirect domains to sinkhole
  - Previous zones only from registered domains
- New zone build process
  - Add list of sinkholed domains
  - Mechanism to change list if DN registered
  - Timing functions – how long sinkholed

# Results

- Able to get development changes implemented quickly
- All domains effectively blocked
- Only a handful manually processed
- Very well supported by UltraDNS, CWG and ICANN - thanks

# Issues for ccTLDs

- Cost/distraction of development
  - Not insignificant for us!
- Cost of manual processing
  - Luckily not heavily used
- Cost of outsourced DNS service
  - Not a lot for us, but …
  - For some ccTLDs was a 40% increase
- And of course – no additional revenue !!

# Recommendations

- We must do this
  - Force botnet writes away from DNS
  - Show we are a well-organised community
  - Too hard a target
- If not then they will come back, much bigger!

# Any questions?

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