4.4.1.1

Features

- Improved analytical processing for parent-child relationships, when the parent process quickly dies before Cyber Crucible completes processing (milliseconds).
  - The extremely common scenario here is that attackers (and legitimate programs) will often open up multiple programs, sometimes in a muli-step “daisy-chain”. This may be on purpose, or due to Windows or other application behavior “under the hood”.
  - Cyber Crucible behavioral models leverage activity & state variables for all processes in a chain of executions to achieve maximum accuracy and context.

Fixes

- Cyber Crucible had a loss in behavioral model decision making accuracy, due to the loss of telemetry when multiple programs each call each other, but one of the programs died in milliseconds.
  - In a chain where Program A executes Program B. Program B starts Program C, but Program B dies within milliseconds (usually a silent crash, but not always). Cyber Crucible behavioral analysis has Program A and Program C variables, but did not have time to completely analyze program B, since it expected it to be running.
  - This has been correcting, resulting in more accurate decision making by the Cyber Crucible hyper-automated decision making engine.

WHCP/WHQL Validation Status

Validated.

MD5 Hashes

```
service.exe   = db76d0abc8f4bc4b2a093435bc314bde
assistant.exe = a5bac35d839d7a57fcccfceb011083c1
CCRRSecMon.sys (Windows10)       = 935e43368fa95ae740a3f04defcc390d
```

```
CCRRSecMon.sys (Windows8)        = ee555ad0f282f36dd11deada8d1ca9c7
CCRRSecMon.sys (Windows7)        = a6a5073c6565361b443651ef29e49490
```

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