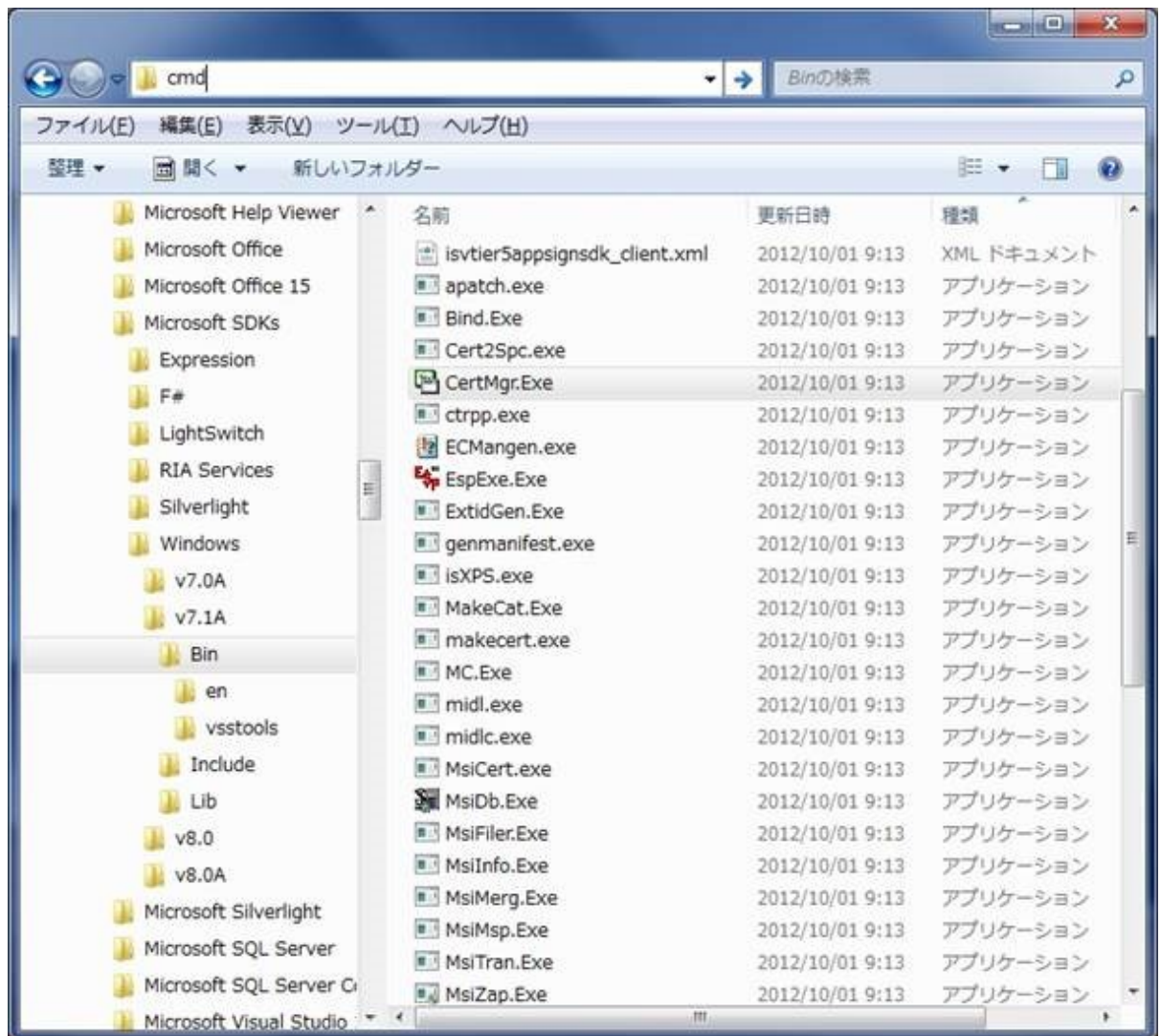


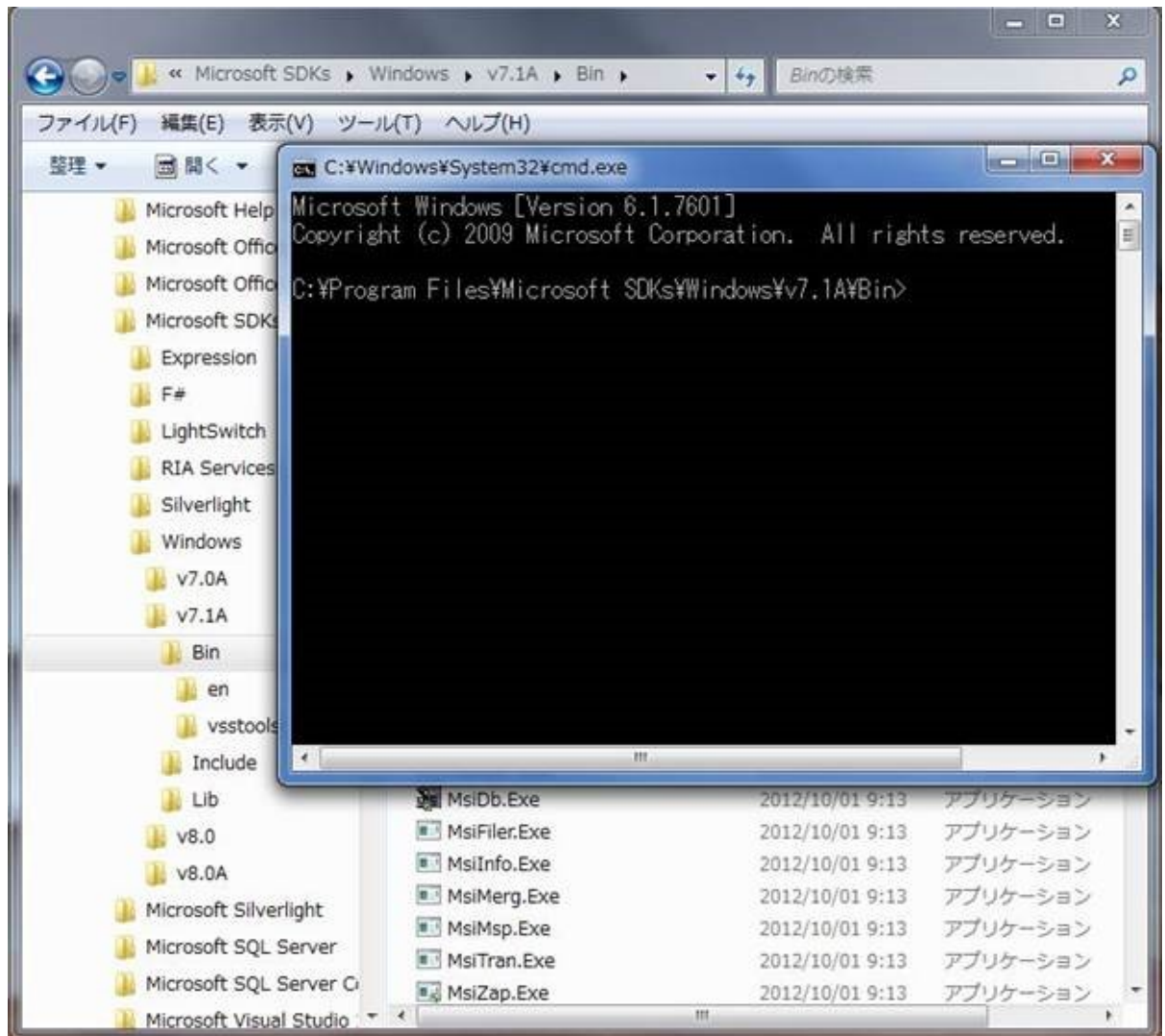
## Coverity

### eBinderのビルドをCoverityで追跡する方法

- ターゲットフォルダからコマンドプロンプトを開く
  - 例えば、エクスプローラで、"C:\Program Files\Microsoft SDKs\Windows\v7.1A\Bin" を開きます。
  - エクスプローラーのアドレスバーに cmd と入力して Enter



- "C:\Program Files\Microsoft SDKs\Windows\v7.1A\Bin" をカレントにしたコマンドプロンプトが開きます。



- 中間ディレクトリ imd を作成する

```
> mkdir imd
```

- Coverity 実行ファイルにパスを通す

```
> set PATH="C:\Program Files\Coverity\Coverity Static Analysis\bin";%PATH%
```

- cov-configureを一度だけ実行する

```
C:\Users\hoge\Desktop\02.Coverity\path\to\project>cov-build --dir imd  
"C:\eSQL\eBinder\bin\ebinder.exe"
```

```
Coverity Build Capture (32-bit) version 2018.03 on Windows 7 Professional,  
32-bit (build 7600)  
Internal version numbers: e1bb2a2a04 p-napa1-push-31731.172
```

- cov-buildを実行する

```
C:\Users\hoge\Desktop\02.Coverity\path\to\project>cov-build --dir imd
"C:\eSOL\EBinder\bin\ebinder.exe"
```

```
Coverity Build Capture (32-bit) version 2018.03 on Windows 7 Professional,
32-bit (build 7600)
Internal version numbers: e1bb2a2a04 p-napa1-push-31731.172
```

- cov-analyzeを実行する

```
C:\Users\hoge\Desktop\02.Coverity\path\to\project>cov-analyze --dir imd --
all
Using 1 worker as limited by CPU(s), memory
Looking for translation units
|0-----25-----50-----75-----100|
*****
[STATUS] Computing links for 1778 translation units
|0-----25-----50-----75-----100|
*****
[STATUS] Computing virtual overrides
|0-----25-----50-----75-----100|
*****
[STATUS] Computing callgraph
|0-----25-----50-----75-----100|
*****
[STATUS] Topologically sorting 43206 functions
|0-----25-----50-----75-----100|
*****
[STATUS] Computing node costs
|0-----25-----50-----75-----100|
*****
[STATUS] Running analysis
|0-----25-----50-----75-----100|
*****
[STATUS] Exporting summaries
|0-----25-----50-----75-----100|
*****
Analysis summary report:
-----
Files analyzed                : 2710
Total LoC input to cov-analyze : 875366
Functions analyzed           : 25058
Classes/structs analyzed    : 2415
Paths analyzed               : 1614425
Time taken by analysis       : 00:50:38
Defect occurrences found     : 2306 Total
                               1 ALLOC_FREE_MISMATCH
                               10 ARRAY_VS_SINGLETON
                               2 ATOMICITY
                               1 BAD_COMPARE
                               2 BAD_FREE
```

```
1 BAD_OVERRIDE
17 BAD_SHIFT
2 BAD_SIZEOF
6 BUFFER_SIZE
33 BUFFER_SIZE_WARNING
122 CHECKED_RETURN
7 CONSTANT_EXPRESSION_RESULT
5 COPY_PASTE_ERROR
3 CTOR_DTOR_LEAK
1 DC.WEAK_CRYPT0
83 DEADCODE
12 DELETE_VOID
1 EVALUATION_ORDER
651 FORWARD_NULL
1 INFINITE_LOOP
2 INTEGER_OVERFLOW
55 MISSING_BREAK
22 MISSING_LOCK
2 MISSING_RESTORE
2 MISSING_RETURN
29 MIXED_ENUMS
44 NEGATIVE_RETURNS
1 NESTING_INDENT_MISMATCH
15 NO_EFFECT
24 NULL_RETURNS
1 ORDER_REVERSAL
144 OVERRUN
10 PW.ASSIGN_WHERE_COMPARE_MEANT
2 PW.BAD_MACRO_REDEF
12 PW.INCLUDE_RECURSION
1 PW.MISSING_TYPEDEF_NAME
1 PW.MISSING_TYPE_SPECIFIER
48 PW.PARAMETER_HIDDEN
4 PW.PARAM_SET_BUT_NOT_USED
7 PW.QUALIFIER_IN_MEMBER_DECLARATION
1
PW.USELESS_TYPE_QUALIFIER_ON_RETURN_TYPE
69 RESOURCE_LEAK
8 REVERSE_INULL
1 REVERSE_NEGATIVE
67 RW.FUNCTION_DOES_NOT_MATCH_ARGUMENTS
236 RW.NO_MATCHING_NEW_FUNCTION
256 RW.ROUTINE_NOT_EMITTED
5 SIZEOF_MISMATCH
1 STRAY_SEMICOLON
19 STRING_OVERFLOW
3 TAINTED_SCALAR
75 UNINIT
144 UNINIT_CTOR
10 UNREACHABLE
21 UNUSED_VALUE
3 VARARGS
```

- cov-commit-defectsを実行する

```
C:\Users\hoge\Desktop\02.Coverity\path\to\project>cov-commit-defects --dir
imd --host xxx.xxx.xxx.xxx --port 8080 --stream project --user hoge
Coverity Defect Commit Client version 2018.03 on Windows 7 Professional, 32-
bit
(build 7600)
Internal version numbers: e1bb2a2a04 p-napa1-push-31731.172

Enter passphrase for user 'hoge':

Getting data port from http://xxx.xxx.xxx.xxx:8080/start-listener.cgi
Connecting to server xxx.xxx.xxx.xxx:9090
Upgrading encryption to "required" because we have a certificate
from a past session for this server.
Connection is encrypted.
[STATUS] 2019-11-15 03:40:58 UTC - Committing 56 defect files...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:41:03 UTC - Committing 3285 file descriptions...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:41:12 UTC - Committing 3283 source files...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:40:59 UTC - Calculating 3285 cross-reference
bundles...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:41:39 UTC - Committing 3285 cross-reference
bundles...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:41:52 UTC - Committing 25058 functions...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:42:05 UTC - Committing 56 defect files...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:42:13 UTC - Committing 4 output files...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:42:13 UTC - Sending hashes for 4095 summaries...
|0-----25-----50-----75-----100|
*****
[STATUS] 2019-11-15 03:42:16 UTC - Committing 4087 summaries...
|0-----25-----50-----75-----100|
*****
New snapshot ID 11453 added.
Elapsed time: 00:01:26
```