**Coverity User guide**

1. **Coverity Connect** [**http://ctu-coverity-prod.wrs.com:8090**](http://ctu-coverity-prod.wrs.com:8090)

Developers, managers, and leads of software development teams use Coverity Connect to understand, manage, and fix issues found by Coverity analyses. The daily build for the branch vx7\_integration will commit all the defects to the Coverity database, all the defects can be browsed and managed in Coverity Connect [**http://ctu-coverity-prod.wrs.com:8090**](http://ctu-coverity-prod.wrs.com:8090) **.**

1. **Coverity desktop installation directory for each site:**

 Ottawa:

/net/yow-nas1/vol/vol9/software/cov-analysis/Prevent/prevent.pl

Alameda:  
/folk/common/cov-ana**l**ysis-desktop/Prevent/prevent.pl  
Beijing:  
/folk/beijing/tools/cov-analysis/Prevent/prevent.pl  
Chengdu:  
/folk/chengdu/tools/cov-analysis/Prevent/prevent.pl

1. **Run Coverity**

Before you check in your code to vx7-integration or vx7\_SRXXX\_features branch, you must clean all the Coverity defects. The earlier, the better. There are two ways to run Coverity.

* 1. **Run desktop Coverity**

This is a fast way to run Coverity. You can build and analysis only one file or the whole VSB. You can perform the following commands to run Coverity.

1. **Run Coverity for a single file**

cd source code directory

prevent.pl make xxxx.o VSB\_DIR=VSB directory

NOTE: please touch the source file (xxxx.c) before executing the above command. If there are errors, please make sure your build command can build successfully (make xxxx.o VSB\_DIR= VSB directory).

1. **Run Coverity for the whole VSB**

cd VSB director

prevent.pl make (or make –j, or vxprj vsb build layerName)

NOTE: please perform make clean before executing the above command.

1. **build a target in $WIND\_BASE/Makefile (take buildvsb\_vsbbsp\_lp64-itl\_generic-gnu-w-x-y-z as an example)**

cd $WIND\_BASE

prevent make buildvsb\_vsbbsp\_lp64-itl\_generic-gnu-w-x-y-z

* 1. **Launch Coverity build at http://ctu-coverity-prod.wrs.com:8080/job/vx7\_feature/**

Build your branch using Coverity. Output is filtered based on files modified in your branch.

Step 1. Login with your Windows name and password, then select "Build with Parameters"

Step 2. Type in the branch that you want to build

Step 3. Choose the target that you want to make. The target is from the Makefile in vxworks-7 directory.

Step 4. Submit the job

1. **Defect fix**

If you meet any defect that you don’t know how to fix. Please refer to the help document: **http://ctu-coverity-prod.wrs.com:8090/doc/en/cov\_checker\_ref.html**

1. **Add source annotation to suppress false positive defect**

Code annotations are placed immediately before the line of code where the defect occurs. Please see the details at **http://ctu-coverity-prod.wrs.com:8090/doc/en/cov\_checker\_ref.html#codeannotate .**

e.g.

Intentional:

/\* please write the reason why you suppress the defect \*/

/\* coverity[var\_deref\_op] \*/

\*x = 0;

False positive:

/\* please write the reason why it is a false positive \*/

/\* coverity[var\_deref\_op : FALSE]\*/

\*x = 0;

NOTE: Code suppressions must be discussed and approved. Approval must be PT and Coverity owner.