IOC SCM Procedures Quick Reference: Developers

<supporttop> Development

Local Development

Checkout

```
cd <home>/iocapps/R3.13.2/support
cvs checkout -d <top> support/<top>
```

Develop

```
cd <top>/...
cvs edit ...
    edit, gnumake, test ...
cd <top>
cvs commit ...
```

Tag Version

```
cd <top>
cvs tag RX-Y
```

Release

Ask Operations to install and build the support application in `iocapps/R3.13.2/support/<top>/X-Y`.

Importing Updated Version

Install

```
cd <work>
gnutar xvfz <top>-X.2.tar.gz
```

The tar file is assumed to extract into a subdirectory named `<top>-X.2`.

Import

```
cd <work>/<top>-X.2
cvs import support/<top> <top> relX-2
    conflicts may be reported here
cd <work>
rm -rf <top>-X.2
```

Resolve Conflicts (always required)

```
cd <home>/iocapps/R3.13.2/support
rm -rf <top>
cvs co -d <top> -j relX-1 -j relX-2 support/<top>
cd <top>
    fix conflicts, configure, test ...
cvs commit .
```

Tag Version

```
cd <top>
cvs tag RX-2
```

Release

Ask Operations to install and build the support application in `iocapps/R3.13.2/support/<top>/X-2`.

<ioctop> Development

Minor Changes

Checkout

```
cd <home>/iocapps/R3.13.2/ioc/<ioc>
cvs checkout -d n -r Bn ioc/<ioc>
```

Develop

```
cd <ioc>/n/...
cvs edit ...
    edit, gnumake ...
cvs commit etc
```

Release

Ask Operations to update and rebuild the IOC application in `iocapps/R3.13.2/ioc/<top>/n`.

Major Changes

Checkout Main Branch

```
cd <home>/iocapps/R3.13.2/ioc/<ioc>
cvs checkout -d main ioc/<ioc>
```

Merge With Side Branch

```
cd ioc/<ioc>/main
cvs update -d -j B1
cvs commit
```

Develop

```
cd <ioc>/main/...
cvs edit ...
    edit, gnumake ...
cvs commit etc
```

Create New Branch

```
cd <ioc>/main
cvs tag R2
cvs tag -b B2
cd <ioc>
rm -rf main
```

Release

Ask Operations to install and build the `B2` branch in `iocapps/R3.13.2/ioc/<top>/2`.

Parallel minor changes must be made in both `B1` and `B2` until `B1` is no longer needed.

IOC SCM Procedures Quick Reference: Operations

<supporttop> Operations	<ioctop> Operations

Install and Build
 	
Export from CVS
`cd /usr/local/iocapps/R3.13.2/support`
`mkdir <top>`
`cd <top>`
`cvs -r export -d X-Y -r RX-Y support/<top>`
 	
Build
`cd X-Y`
`gnumake | tee build.lst`
	Update and Rebuild (Minor Change)
	
	Update from CVS
	`cd /usr/local/iocapps/R3.13.2/ioc/<ioc>/n`
	`cvs -n update`
	`    check that only the expected files will change`
	`cvs update`
	
	Build
	`gnumake clean uninstall`
	`gnumake | tee build.lst`

	Install and Build (Major Change)
	
	Checkout Branch
	`cd /usr/local/iocapps/R3.13.2/ioc/<ioc>`
	`cvs checkout -d n -r Bn ioc/<ioc>`
	
	Build
	`cd n`
	`gnumake | tee build.lst`
	
	Parallel minor changes must be made in both branches until old branch is no longer needed.