# 3<sup>rd</sup> Party Software

# **Installation Procedure**





## **READ ME FIRST**

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## $3^{\text{rd}}$ Party Software Installation Procedure

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## 1. OVERVIEW

This document explains the **NEW installation** and configuration procedures for installing and setting-up the Cronus 3<sup>rd</sup> Party Software products. Please contact Cronus if attempting an upgrade or re-installation of the software.

XiText
LPR Printer Driver
SUSPR
S4 Software (if required)
CoSort (if required)

## 2. INSTALLATION STEPS

- a. Create an installation directory and sub-directories.
- b. Validate spooler user-id
- c. Xi-Text Installation
- d. Installing LPR Driver and SUSPR
- e. S4 Software installation
- f. CoSort Software installation
- g. Installing licenses of licenses



## 3. PRE-INSTALLATION OF 3RD PART SOFTWARE

This section explains how to transfer and unpack the 3<sup>rd</sup> Party software.

a) Create an installation directory

As the user-id 'sag' create an installation directory to load and extract the supplied software.

For Example:

cd \$CRONUS
mkdir 3rdparty

b) Transfer the compressed software packages.

**Binary** FTP the **compressed** software packages to the Linux server, save it in the **\$CRONUS/3rdparty** directory.

c) Uncompress the software from compressed file.

As the user-id "root"

Uncompress the supplied software using *gunzip* to extract the software packages:

For example:

cd \$CRONUS/3rdparty gunzip x86\_64-linux-centos7.0-xitext-23.49.gz

d) Extract the software from tarbal file.

As the user-id "root"

cd \$CRONUS/3rdparty tar xvf x86\_64-linux-centos7.0-xitext-<vers>.gz tar xvf lprdrv.<vers>.tar



## 4. INSTALL XITEXT

#### a) Validating the spooler user-id

The Xi-Software must be installed as the user "root".

The user "**spooler**" must already exist or be added before commencing with the installation of Xitext.

Check if the user-id 'spooler' exists.

grep spooler /etc/passwd

Continue ONLY with 'add' if a response is not received from the grep command.

Adding users with "useradd"

useradd -u 50 -g bin -c "XiText Admin" -d /home/spool -s /bin/bash spooler

(Please refer to the command for the O/S syntax)

Perform the installation as a **root user**, but "*spooler*" will own certain files. The installation will fail if user "*spooler*" is not defined.

#### b) Running the INSTALL (XiText) script

Change to the "xitext" sub-directory and execute the INSTALL script.

All commands as "root"

cd \$CRONUS/3rdparty/x86\_64-linux-centos7.0-xitext-23.491
./INSTALL

```
sag@cronus2:

«

sag@cronus2:

«

sag@cronus2:

«

sag@cronus2:

»

sag@cronus2:

«

sag@cronus2:

»

sag@cronus2:

sag@cronus2:

sag@c
   root@cronus2 x86_64-linux-centos7.0-xitext-23.491]# pwd
 home/sag/temp/XiText-spooler/x86 64-linux-centos7.0-xitext-23.491
[root@cronus2 x86 64-linux-centos7.0-xitext-23.491]# ls -1
total 32
                                                                                                1011 1012
  rwxrwxr-x.
                                                                                                                                                                                                                                                                   2016 INSTALL
                                                                                                1011 1012 17764 Sep 14
                                                                                                                                                                                                                                                                   2016 INSTALL.pl
  rwxrwxr-x.
                                                                                                                                                                                 904 Sep 14
  rwxrwxr-x.
                                                                                                                                                                                 444 Sep 14
                                                                                                                                                                                                                                                                   2016 README
drwxr-xr-x. 10 1011 1012
                                                                                                                                                                                 258 Sep 13
```



The software should be installed under /usr/local/bin – please accept defaults.

Please remember to add the path /usr/local/bin to the default profile:

#### Eg: PATH=\$PATH:/usr/local/bin

```
I need to ask you which directory you want to put user-level binaries for Xi Software products in.

This should normally be in each user's PATH, but as root you may have a more restricted PATH.

Here are the directories on your PATH.

/bin
/sbin
/usr/bin
/usr/sbin
Please give user-level directory: /usr/local/bin
```

The software will be installed with a 30day trail license and can be updated later.



This should bring you back to the Installation Directory screen. Modify the default using the values shown below.

The license setup program is /usr/local/bin/xt-vwrite

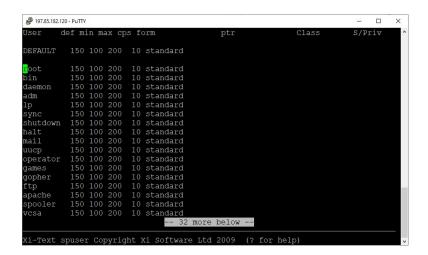
The Emergency-license setup program is /usr/local/bin/xt-emerglic

Configure XiText "**default privileges**" in order to allow non root users to startup or shutdown the application. (for example 'sag' and/or 'spooler')

#### All commands as "root"

/usr/local/bin/spuser -i

In order to assign privileges to a user-id, use the "/" command to locate/search the required user-id .(eg. /spooler)





Set the appropriate privileges using the lowercase "p" option.

```
Default is to allow users to Edit admin file: Yes
Default is to allow users to Override class: Yes
Default is to allow users to Override class: Yes
Default is to allow users to Edit admin file: Yes
Default is to allow users to Stop spooler: Yes
Default is to allow users to Use other forms: Yes
Default is to allow users to Use other printers: Yes
Default is to allow users to Change priority on Q: Yes
Default is to allow users to Edit other users' jobs: Yes
Default is to allow users to Select printer list: Yes
Default is to allow users to Select printer list: Yes
Default is to allow users to Halt/restart printers: Yes
Default is to allow users to Halt/restart printers: Yes
Default is to allow users to Set any priority on Q: Yes
Default is to allow users to Change own default prio/form: Yes
Default is to allow users to View other users' jobs: Yes
Default is to allow users to Edit remote jobs: Yes
Default is to allow users to Edit remote printers: Yes
Default is to allow users to Edit remote printers: Yes
Default is to allow users to Edit remote printers: Yes
Default is to allow users to Edit remote printers: Yes
Default is to allow users to Save new default options: Yes
```

Please note that option uppercase "P" will change the privileges for all users.

Confirm the setting with "**Y**" (only applicable with option "P")

One can assign privileges to other users (as required)

To terminate the 'spuser' function use option "q"

## 5. INSTALL LPR-DRIVER

#### a) Execute the install script

The LPR-Driver must be installed as the user "root".

After you have extracted the LPR Driver change to the \$CRONUS/3rdparty/lprdrv.<vers>directory and execute the install script.

All command as "root"

cd \$CRONUS/3rdparty/lprdrv.<vers>
./install
Accept the defaults



## 6. INSTALL SUSPR

#### a) Execute the install script

After uncompressing the **suspr.gz** file, change the permission and install SUSPR to /usr/local/bin/suspr

Make sure that you update the permissions on the file to 4755 with chmod

All command as "root"

cd \$CRONUS/3rdparty

chown root:bin suspr

chmod 4755 suspr

cp -rp suspr/usr/local/bin/suspr

## 7. UPDATE THE XITEXT HELP FILE

ONLY perform this after the XiText software has been installed.

The **spq.help** file should be changed to support the Cronus required format. You should first make a copy of the original **spq.help** file before replacing it with the Cronus **spq.help** file.

The **spq.help** file is used to format *Xitext* (spq) - we have modified it to allow wider columns and a different "look and feel"

Shutdown the Xitext.

/usr/local/bin/sstop -y

Change to the /usr/spool/progs directory cd /spool/progs

Create a copy of the original file.

cp spq.help spq.help.orig

Copy the supplied \$CRONUS/install/spq/spq.help file to /spool/progs

Using the 'default' Cronus *spq.help* file – new installation ONLY.

cd /spool/progs cp \$CRONUS/install/spq/spq.help .

Edit the **spq.help** file and change the XXXXXXX comment to the client name **vi spq.help** 

Save the file

Change the permission on the **spq.help** file.

chmod 777 spq.help

Restart XiText

/usr/local/bin/spstart 20000 200

(starts XiText and pre-allocates shared memory for 20000 reports and 200 printers).

## 8. INSTALL S4 SOFTWARE

a) Validating that the "bc" command is available.

Check if the user-id 'spooler' exists.

which bc

The response should typically be "/usr/bin/bc"

If not present it can easily be installed via yum.

Installing "bc"

yum install bc

(Please refer to the command for the O/S syntax)



b) All the release files are compressed tar file containing the installation documentation and installation programs.

Start by extracting the file: tar xvf <installfile>.tar.gz

All commands as "root"

cd \$CRONUS/3rdparty/s4

tar xvf <installfile>.tar.gz

c) Install S4 Access

All commands as "root"

cd \$CRONUS/3rdparty/s4/
./s4access\_6.10\_LinuxRedHat7

#### **S4Access Configuration options:**

Are you using NIS or NIS+? N

Install the Secure4Access PAM library modules? (y/n): Y

Do you wish to disable these programs? (y/n): N

Do you want the server to be started on boot up? (y/n): Y

Enable the Secure4Access syslog? (y/n): Y

While S4Access will install the PAM module, for now it will not be activated

- -- The passwd disable step answer up to you but they will be wanted it at such time as PAM gets enabled
- -- There is an additional S4Access process 's4accinit' which is primarily for LDAP/AD and PAM, so will not be run at this time.

Create a default profile for the user installing the software. (even though you sudo'ed to root) Example if you log in as 'sag'

cd /usr/secure4/secure4.upf cp root.upf sag.upf

Install the license file.

cd \$CRONUS/3rdparty/s4
cp s4access.exp /bin/secure4/s4access.dir/



#### Validate the license file.

```
Current security values are:
[1: 50182e4c, 2: 30100610, 3: 038eb182]

Product code : Secure4Access - With Active Directory
Serial number : 14571

Media identifier : 0/9337045a*

Customer number : 0

CPU type : Linux x86-64

Revision : 6.10.00.1211031 (610) [1.70.01.1206103]

Expiration date : Fri Mar 20 08:02:08 2020

Options : 3

Maximum sessions : 100

[root@drslinap1d secure4] # /bin/secure4/s4access -v
```

#### d) Install S4 Privilege

```
All commands as "root"

cd $CRONUS/3rdparty/s4/
./s4priv_2.62_LinuxRedHat7
```

### **S4Privilege Configuration options:**

```
Are you using NIS or NIS+? (y/n): N
Do you want s4privdms to be started on boot up? (y/n): N
```

Install the license file.

```
cd $CRONUS/3rdparty/s4
cp s4priv.exp /bin/secure4/s4priv.dir/
```

#### Validate the license file.

```
Current security values are:
[1: 501829f7, 2: 70100260, 3: 038ed182]

Product code : Secure4Privilege - All modules
Serial number : 14573

Media identifier : 0/9337045a*

Customer number : 483

CPU type : Linux x86-64

Revision : 2.62.00.1028202 (260) [1.70.01.0822101]

Expiration date : Sat Mar 7 11:05:46 2020

Options : 3
Server count : 100

[root@drslinap1d secure4]# ./s4priv -v
```



#### e) Install S4 Audit

All commands as "root"

cd \$CRONUS/3rdparty/s4/
./s4audit 2.42 LinuxRedHat7

#### **S4Audit Configuration options:**

#### **S4Audit Configuration**

Do you want s4auditmon to be started on boot up? (y/n): **N** Do you want s4auditarc to be started on boot up? (y/n): **N** 

Install the license file.

cd \$CRONUS/3rdparty/s4
cp s4audit.exp /bin/secure4/s4audit.dir/

#### Validate the license file.

```
Current security values are:
[1: 501829f7, 2: g0100240, 3: 038ef182]

Product code : Secure4Audit
Serial number : 14575
Media identifier : 0/9337045a*

Customer number : 483

CPU type : Linux x86-64

Revision : 2.42.00.1027201 (240) [1.70.00.0621008]

Expiration date : Sat Mar 7 11:06:15 2020

Options : 0

Server count : 100

[root@drslinap1d secure4]# ./s4audit -v
```



## 9. INSTALL COSORT SOFTWARE

a) All the release files are compressed tar file containing the installation documentation and installation programs.

Start by binary transferring the files to the installation directory.

```
All commands as "root"

cd $CRONUS/3rdparty/cosort

Is -I
```

```
[root@drslinapld CoSort_v10.0]# ls -1
-rwxrwxrwx. 1 sag sag 430615449 Dec 17 09:47 com.iri.pelican.workbench-
linux.gtk.x86_64.tar.gz
-rwxrwxrwx. 1 sag sag 16511323 Dec 17 09:41 CoSort1001.el7.tar.gz
-rwxrwxrwx. 1 sag sag 2538826 Dec 17 11:10 CoSort100_manual.pdf
-rwxrwxrwx. 1 sag sag 7031 Dec 17 09:42 cosort-installer.sh
-rwxrwxrwx. 1 sag sag 1282172 Dec 17 11:10 IRI_install_guide.pdf
-rwxrwxrwx. 1 sag sag 63 Dec 17 11:15 SERIAL_NUMBER_TO_USE.txt
```

b) Install CoSort

```
Execute the commands as "sag"

cd $CRONUS/3rdparty/s4/

cosort-installer.sh CoSort1001.el7.tar.gz
```

```
CoSort Tuning Info
You will now answer a series of important questions related to the
performance of CoSort in a multi-user operating system.
This is necessary.
Your responses will be saved in a global resource control file named
$COSORT_HOME/etc/cosort.rc. This is a text file you can modify later,
and make available with, or without, modification to specific users
and even specific CoSort jobs if you want.
The resource control file is created with default values upon
completion of registration, and should provide reasonable,
automatic performance. Values shown are the values found in the
current resource control file. If there is no current file, default
values are shown.
CoSort Resource Control Settings
        1. THREAD MAX
        2. THREAD MIN
                             1
                             AUTO
         3. MEMORY_MAX
         4. WORK AREAS
        5. BLOCKSIZE
         6. LOG
        7. AUDIT
        8. MONITOR_LEVEL
                              1
        10. ON EMPTY INPUT
                              70
                              PROCESS WITH ZEROS
        11. OUTPUT TERMINATOR INFILE
Enter an option number to modify, or 0 to save and continue: 8
CoSort Monitor Level
The level of runtime messaging for CoSort to display.[0 - 9]
Level 0 = OFF
Higher levels may adversely affect performance.
Monitor Level [1]: 0
CoSort Resource Control Settings
        1. THREAD MAX
                             4
                             1
AUTO
        2. THREAD_MIN
         3. MEMORY MAX
         4. WORK AREAS
                              ./
         5. BLOCKSIZE
        6. LOG
        7. AUDIT
                             0
        8. MONITOR LEVEL
        9. MINIMUM YEAR
                              70
        10. ON EMPTY INPUT PROCESS WITH ZEROS
        11. OUTPUT TERMINATOR INFILE
Enter an option number to modify, or 0 to save and continue:
```



Enter an option number to modify, or 0 to save and continue: 0

Save the Resource Control Settings to
[/opt/cosort10/etc/cosort.rc]:

The CoSort registration form can be found at

/opt/cosort10/etc/RegForm.txt

To request a license key, please email the file or contents to
licenses@iri.com

Be sure the email address in the form is correct to receive the key.

When you receive your license key from IRI, run \$COSORT\_HOME/bin/cs\_setup again and select '2. Update License' from the menu.

Press the Enter key to continue...

You will need to set COSORT\_HOME before running bin/cs\_setup again.
(sh: COSORT\_HOME=/opt/cosort10; export COSORT\_HOME)
(csh: setenv COSORT\_HOME /opt/cosort10)