

The Impact on Communication Identifiers on AWIPS

Version II – 10/29/2004

This manual will identify the steps needed for sites to undertake when there are certain changes to the Communication Identifiers (CID) of products. This section deals with only the changes caused by XXX part of the CCCNNNXX Communication ID. Although there may be many reasons why this would occur, there are two primary reasons for such change. The first reason is that sites would transition from their legacy XXX to their modernized XXX (e.g., LITZFPLIT becoming LITZFPLZK). A second reason would be that a new site being commissioned or an old site being decommissioned. Below is outline of steps needed for short fuse warning (WarnGen created) products, other products and appropriate IFPS/GFE changes. For short fuse warning (WarnGen created) products, you need to review the steps in Sections I and II, if they are applicable. For those products created via IFPS/GFE, you need to review the steps in Sections II and III. For all other products, sites just need to review Section II.

*** - Editor's Note:** This document is quick outline of steps needed when the XXX of Communication Identifier changes. It is a work in progress. Your input into these changes is welcome. If you have problems, please direct them through the NCF ((301)-713-9344) and have them open a Trouble Ticket. The NCF should then direct the Trouble Ticket to the AWIPS SST (Awips_Sst@noaa.gov)

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Section I – Short Fuse Warning Products (WarnGen created)

1. CHANGING THE WARNGEN XXX FOR YOUR WFO

File LLL-mainConfig.txt (where **LLL** is the site ID) needs to be edited, then a localization needs to be run.

The LLL-mainConfig.txt file is on the workstation in /awips/fxa/data/localiztion/LLL. There may also be a localization override file in /data/fxa/customFiles. All versions of the LLL-mainConfig.txt file should be edited to change the “XXX” variable.

For example, at site BOX, the BOX-mainConfig.txt file looks like:

```
@@@XXX BOX
@@@WFO BOX
@@@CCC BOS
@@@XXXL MA ME RI NH VT CT NY BOS NYC ALB PWM BTV PHL TIR
@@@XXXR BOS NYC ALB PWM BTV PHL TIR BGM CTP MA ME RI NH VT CT
NY
@@@PUP_TABLES TRUE
```

To change your D2D Local Warnings Graphic, you must edit the XXXL line to delete the old and add in the new site ID changes. You must also have an updated copy of the latest afosMasterPIL.txt files. Instructions on updating this file are Section II Part 3 of this document. The –text localization at the end of Section II Part 3 will activate this change.

Some sites may hard code the “XXX” in their WarnGen templates. If so, this also needs to be changed before the localization is run. It’s better to use the “xxxValue” variable in the templates than to hard code the “XXX”. In this case, the LLL-offtIncl.txt file needs to be available in the template by using the following line:

```
#include "${CURRENT_CWA}-offtIncl.txt"
```

After editing the “XXX” line in LLL-mainConfig.txt (and templates if needed), each workstation needs to be localized, using “./mainScript.csh –wwa” (lower case “wwa”). Now restart D2D and WarnGen and WarnGen will use the new “XXX” value.

The instructions above also pertain to the WWA software.

2.) CHANGING THE WARNGEN XXX FOR YOUR FULL SERVICE BACKUP SITES

If a site for which you perform service backup has an “XXX” change, follow these procedures.

File LLL-wwaConfig.txt (where LLL is your local site ID) needs to be edited, then a localization needs to be run.

The LLL-wwaConfig.txt file is on the workstation in /awips/fxa/data/localization/LLL. There may also be a localization override file in /data/fxa/customFiles. All versions of the LLL-wwaConfig.txt file should be edited to change the “SBID” variable.

For example, at site EWX, the EWX-wwaConfig.txt looks like:

```
EWX-wwaConfig.txt
@@@SRWARN FALSE
@@@ORABOUT TRUE
@@@SBID "CRP", "SJT", "HGX", "FWD"
@@@OFFH AUSTIN/SAN ANTONIO TX
@@@OFFT IN AUSTIN SAN ANTONIO
@@@COPE
@@@CIPE
@@@
```

If the HOU site ID is changing, the “HGX” entry in the “SBID” line will be changed. Some sites may hard code the “XXX” in their WarnGen templates. That is, if site EWX has HOU templates, the HOU templates may have “HOU” hard coded. If so, this also needs to be changed before the localization is run. It’s better to use the “xxxValue” variable in the templates than to hard code the “XXX”. In this case, the LLL-offtIncl.txt file needs to be available in the template by using the following line:

```
#include "${CURRENT_CWA}-offtIncl.txt"
```

After editing the “SBID” line in LLL-wwaConfig.txt (and templates if needed), each workstation needs to be localized. For example, if the local site is BOX and they need to back up site ALB, localize using “./mainScript.csh -WWA ALB BOX” (upper case “WWA”). Now restart D2D as the backup site and WarnGen will use the new backup site “XXX” value.

WarnGen partial backup sites are defined in the usa_cwa_total and marine_total shape files and are not site configurable.

Section II – Changes needed for all products

1. How to edit the afos2awips.txt file

A.) As user fxa, change directories to the location of the afos2awips.txt file

```
cd /awips/fxa/data
```

B.) For safety sake, make a copy of your current afos2awips.txt file.

```
cp -p afos2awips.txt afos2awips.txt.orig
```

C.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the afos2awips.txt file. (In the example below, the vi editor is used.)

```
vi afos2awips.txt
```

D.) When completed to save and exit from vi. After completing your edits, the SST have found that problems can occur with afos2awips.txt, if it is not sorted.

```
:wq!
```

E.) Copy the afos2awips.txt file to all other workstations and servers (Note: where, BOX is lx1, ds1,px1 etc)

```
rcp -p afos2awips.txt BOX:/awips/fxa/data/afos2awips.txt
```

An example of a section from the afos2awips.txt is below:

```
ABIAWWABI WWUS84 KSJT  
ABQABVABQ UFUS45 KABQ  
ABQADAABQ NOUS45 KABQ
```

```
.  
.  
.
```

```
^                    ^
```

```
Comms ID            WMO ID
```

Additional Information on the afos2awips.txt file:

The afos2awips.txt file is used on the text and graphics workstations when issuing products to convert the AFOS PIL into a WMO Header for product transmission. To activate the afos2awips.txt file on the text and graphics workstations, it is probably safest to logout/login to each text and graphics workstation after updating the file. This ensures that all applications that may be running on the graphics and text workstation read the updated copy of the afos2awips.txt file.

On ds1, I believe the afos2awips.txt file is only utilized by applications that read this file on the fly. Therefore, there is no need to stop or restart any processes.

The afos2awips.txt file should also be updated on ds2 in case of a ds1->ds2 failover.

2. How to edit the textCCChelp.txt file

A.) As user fxa, log into a workstation.

B.) Change directories to the location of the textCCChelp.txt file

```
cd /awips/fxa/data
```

C.) For safety sake, make a copy of your current textCCChelp.txt file.

```
cp -p textCCChelp.txt textCCChelp.txt.orig
```

D.) ftp into the NOAA! Server and download the latest textCCChelp.txt file.

```
ftp 165.92.25.15 (NOAA1)
```

```
login: ftp (use your e-mail address for password)
```

```
cd pub/ndm
```

```
get textCCChelp.txt
```

```
bye
```

E.) Change the attributes and ownership of the TextCCChelp.txt.

```
chmod 775 textCCChelp.txt
```

```
chown fxa:fxalpha textCCChelp.txt
```

F.) Copy the afos2awips.txt file to all other workstations and servers (Note: where, BOX is lx1, ds1,px1 etc)

```
rcp -p afos2awips.txt BOX:/awips/fxa/data/afos2awips.txt
```

G.) **Note:** You must run a -text localization on each workstation and log out and log back in of each Text and Graphics Workstation. This will be done at the end of the next step when updating the afosMasterPIL.txt file.

Additional Information on the textCCChelp.txt file:

This file contains help strings associated with CCC or XXX entries in the Text Browser.

An example of a section from the textCCChelp.txt is below:

0 Bulletin No. 0

1 Bulletin No. 1

2 Bulletin No. 2

3 Bulletin No. 3

4 Bulletin No. 4

5 Bulletin No. 5

6 Bulletin No. 6

7 Bulletin No. 7

.

.

.

9V9 Chamberlain, SD

9W7 Currituck Cnty AP, Currituck, NC

AAA K-Lincoln/Logan Co, IL; U-Almaty, RA

AAF Apalachicola Muni, FL

.

.

3. How to download the afosMasterPIL.txt file

The updated afosMasterPIL.txt dataset belongs in /data/fxa/nationalData. Localization then creates the afosMasterPIL.CCC from it and adds this site-specific version to /awips/fxa/data/localizationDataSets/LLL.

A.) Log into ds1 as the fxa user

B.) Change directory to /data/fxa/nationalData

```
cd /data/fxa/nationalData
```

C.) For safety sake, make a copy of your current afosMasterPIL.txt file.

```
cp -p afosMasterPIL.txt afosMasterPIL.txt.orig
```

D.) ftp into the NOAA! Server and download the latest afosMasterPIL.txt file.

```
ftp 165.92.25.15 (NOAA1)  
login: ftp (use your e-mail address for password)  
cd pub/ndm  
get afosMasterPIL.txt  
bye
```

E.) Change the attributes and ownership of the afosMasterPIL.txt.

```
chmod 775 afosMasterPIL.txt  
chown fxa:fxalpha afosMasterPIL.txt
```

F.) On each workstation, log into the workstation as the fxa user, and run localization (-text option).

```
cd /awips/fxa/data/localization/scripts  
./mainScript.csh -text
```

H.) Logout / login to the each Text Workstation and Graphics Workstation.

An example of a section from the afosMasterPIL.txt is below:

```
@@@18AA11  
@@@18AA13  
@@@18AA21  
@@@18AA23  
.  
.  
@@@24AU11
```

@@@5TCNMC
@@@90NUS
@@@ADADEN

.

4. Asynchronous Product Scheduler Changes

A.) Log into as1 as the fxa user

B.) Change directories to /data/fxa/workFiles/asyncProdScheduler

```
cd /data/fxa/workFiles/asyncProdScheduler
```

C.) For safety sake make a copy of your current aps_pil.tbl file.

```
cp -p aps_pil.tbl aps_pil.tbl.orig
```

D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the aps_pil.tbl file. (In the example below, the vi editor is used.)

```
vi aps_pil.tbl
```

D.) When completed to save and exit from vi.

```
:wq!
```

E.) Copy the aps_pil.tbl file to as2 for failover purposes.

```
rcp -p aps_pil.tbl as2:/data/fxa/workFiles/asyncProdScheduler/aps_pil.tbl
```

F.) Ensure that the afos2awips.txt file is update. Then stop and start the ingest on as1 with the following commands. Remember, you must be the fxa user on as1 to run these commands.

```
stopTextDB.as1  
startTextDB.as1
```

5. Trigger Changes

5a. LDAD Triggers

A.) Log into ds1 as the fxa user

B.) Change directories to /awips/fxa/data/localization/LLL, where LLL is your site ID

```
cd /awips/fxa/data/localization/LLL
```

C.) For safety sake make a copy of your current LLL-ldadSiteConfig.txt file.

```
cp -p LLL-ldadSiteConfig.txt LLL-ldadSiteConfig.txt.orig
```

D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the LLL-ldadSiteConfig.txt file. (In the example below, the vi editor is used.)

```
vi LLL-ldadSiteConfig.txt
```

D.) When completed to save and exit from vi.

```
:wq!
```

E.) Copy the LLL-ldadSiteConfig.txt file to ds2 for failover purposes.

```
rcp -p LLL-ldadSiteConfig.txt \  
ds2:/awips/fxa/data/localization/LLL/LLL-ldadSiteConfig.txt
```

5b. Local Triggers (CRS and FAX)

A.) Log into ds1 as the fxa user

B.) Change directories to /data/fxa/siteConfig/textApps

```
cd /data/fxa/siteConfig/textApps
```

C.) For safety sake make a copy of your current siteTrigger.template file.

```
cp -p siteTrigger.template siteTrigger.template.orig
```

D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the siteTrigger.template file. (In the example below, the vi editor is used.)

vi siteTrigger.template

D.) When completed to save and exit from vi.

:wq!

5c. Hydro Triggers

A.) Log into ds1 as the fxa user

B.) Change directories to /data/fxa/nationalData

cd /data/fxa/nationalData

C.) For safety sake make a copy of your current hydroTrigger.template file.

cp -p hydroTrigger.template hydroTrigger.template.orig

D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the hydroTrigger.template file. (In the example below, the vi editor is used.)

vi hydroTrigger.template

D.) When completed to save and exit from vi.

:wq!

5d Adapt Triggers

A.) Log into ds1 as the fxa user

B.) Change directories to /data/fxa/nationalData/adaptTrigger.template

cd /data/fxa/nationalData

C.) For safety sake make a copy of your current adaptTrigger.template file.

cp -p adaptTrigger.template adaptTrigger.template.orig

D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the adaptTrigger.template file. (In the example below, the vi editor is used.)

vi adaptTrigger.template

D.) When completed to save and exit from vi.

:wq!

5e Trigger Localization

The localization command uses the various trigger configuration files to create a site specific master trigger file, /awips/fxa/Informix/txatextTriggerActions.txt. The command then deletes the existing Informix watchWarn table and uses the txatextTriggerActions.txt file to recreate the Informix watchWarn table.

A.) Either log into ds1 as user fxa or make sure you are user fxa on ds1 before issuing the localization command.

B.) Change directories to /awips/fxa/data/localization/scripts

cd /awips/fxa/data/localization/scripts

C.) Run the localization command with the -text option

./mainScript.csh -trigger

6. Text Workstation Alarms

6a. Personal Text Alarms

- A.) At the Text Workstation GUI, press the Alarm/Alert button.
- B.) The Current Alarm Queue GUI will appear. From this GUI press the Product List button.
- C.) A GUI containing a list of the Alarm/Alert (AA) Products (Top) and the Proximity Alarm (PA) Products (Bottom) will appear.
- D.) Delete any old products from the appropriate AA/PA section by left clicking on the Product ID and then hitting the Delete Entry button.
- E.) Add any an AA and PA products by hitting the New AA Entry and/or New PA Entry buttons respectively.
- F.) The appropriate New AA or New PA GUI will appear. Enter the appropriate Product ID in the GUI and determine whether you want it to alarm (noise) or not by selecting or de-selecting the Alarm button.
- G.) When finished, press the OK button.
- H.) Also, press the Save & Close button before exiting the GUI.

6b. Site Protected Text Alarms

- A.) Log into a workstation as the root user
- B.) Change directories to /awips/fxa/data/localizationDataSets/LLL, where LLL is your site ID.

cd /awips/fxa/data/localizationDataSets/LLL

- C.) For safety sake make a copy of your current textAlarmAlertProducts.txt file.

cp -p textAlarmAlertProducts.txt textAlarmAlertProducts.txt.orig

- D.) Use an editor of your choice to edit (i.e. remove any old and/or add any new changes) the Communication Identifiers into the textAlarmAlertProducts.txt file. (In the example below, the vi editor is used.)

vi textAlarmAlertProducts.txt

- D.) When completed to save and exit from vi.

:wq!

Section III – IFPS/GFE formatter related changes

Note: For sites at pre-IFPS 16, the update to the afos2awips.txt file mentioned in Section II is all that needs to be completed. But for those sites, who have installed IFPS 16 or greater, please carefully read and follow the instructions below.

A.) After the afos2awips.txt file has been updated, log onto px1 as user ifps.

B.) Change directories to /awips/GFESuite/primary/data/textInstall

cd /awips/GFESuite/primary/data/textInstall

C.) Execute the formatter configuration script:

python configureTextProduct.py

Note: The baseline version of the GFE formatters has been updated to contain the correct WMO and PILs based on the updated afos2awips.txt file. If you have modified any of these files (which will appear at the SITE or USER level in the data/databases/TEXT/TextProduct and data/databases/Text/TextUtility directories), you will manually need to go into those files and correct the WMO and PILs based on the updated afos2awips.txt configuration file. Use of the “diff” command may be helpful in determining what changes may need to be made.