## Appendix A. LDM Ingest Checklist

In order to add a line to the pqact.conf or pqact.local file for LDM ingest, certain information is necessary. The following is a general checklist of information that can be used when adding new data from the SBN into the system.

* Note the WMO header or pattern for desired product:
* Note the LDM FEEDTYPE for the desired product:
* Note the raw archive location for the desired product:
* Create entry in the pqact.conf or pqact.local file:
* Restart or send HUP to ldmd process.

To find this information the following steps might prove useful.

1. **Find the WMO header or pattern for the desired product.**

If the product is being ingested into an AWIPS I system, look at the /data/fxa/customFiles/acqPatternAddOns.txt file. It is possible that you will discover the WMO pattern needed for ingesting. A listing of WMO header bulletins can also be found starting at the following URL: http://www.nws.noaa.gov/tg/table.html

1. **Find the LDM FEEDTYPE for the desired product.**

In all cases, the FEEDTYPE “ALL” will match all the FEEDTYPES listed in Table 3-1.1 of this Localization Guide. However, tools are available that may help identify the proper FEEDTYPE, if that is of interest. As user *ldm* the following commands might be useful:

# ldmadmin watch

This command will show all data coming from the upstream LDM server. This should be every product that the upstream is ingesting. Watching can identify specific feedtypes of the products being ingested. A sample output of the command follows.

-bash-3.2$ ldmadmin watch

(Type ^D when finished)

Jan 21 14:44:44 pqutil INFO: 5219 20110121144443.333 NEXRAD3 56308488 SDUS26 KSGX 211440 /pN1QNKX !nids/

Jan 21 14:44:44 pqutil INFO: 36388 20110121144443.334 HDS 56308489 YAWD74 KWBG 211400 /mRUC2 !grib/ncep/RUC2/#236/201101211400/F003/DIST/cld base/

Jan 21 14:44:44 pqutil INFO: 7621 20110121144443.345 NEXRAD3 56308490 SDUS51 KLWX 211443 /pN0VLWX

Jan 21 14:44:44 pqutil INFO: 3846 20110121144443.348 NEXRAD3 56308491 SDUS31 KOKX 211439 /pN1POKX

Jan 21 14:44:44 pqutil INFO: 119137 20110121144444.274 NGRID 12387336 MTAZ98 KWBE 211200 !grib2/ncep/NMM\_89/#255/201101211200F081/TMXK03/0 - NONE

# notifyme –l- -h $LDM\_HOST -v –p ‘<WMO ID Pattern>’

This command will print to the screen every product available from <LDM Upstream IP/Hostname> that matches <WMO ID Pattern>. For example, the following would print all products starting T available from CPSBN2:

notifyme –l- -h cpsbn2 –v –p ‘^T.\*’

***Note:*** The pattern passed to notifyme, and put into the pqact.conf file, must be a valid regular expression.

A sample output of the command follows.

-bash-3.2$ notifyme -l- -v -h adam1 -p '^sat.\*TI.\*'

Jan 21 15:17:37 notifyme[6887] NOTE: Starting Up: adam1: 20110121151737.886 TS\_ENDT {{ANY, "^sat.\*TI.\*"}}

Jan 21 15:17:37 notifyme[6887] NOTE: LDM-5 desired product-class: 20110121151737.886 TS\_ENDT {{ANY, "^sat.\*TI.\*"}}

Jan 21 15:17:37 notifyme[6887] INFO: Resolving adam1 to 165.92.24.36 took 0.000398 seconds

Jan 21 15:17:37 notifyme[6887] NOTE: NOTIFYME(adam1): OK

Jan 21 15:19:33 notifyme[6887] INFO: 26096 20110121151933.179 NIMAGE 47222 satz/ch1/GOES-13/SOUND-14.06/20110121 1446/EAST-CONUS/10km/ TIGE43 KNES 211446

Jan 21 15:19:34 notifyme[6887] INFO: 72646 20110121151934.390 NIMAGE 47223 satz/ch1/GOES-13/SOUND-11.03/20110121 1446/EAST-CONUS/10km/ TIGE48 KNES 211446

Jan 21 15:19:38 notifyme[6887] INFO: 58914 20110121151938.479 NIMAGE 47224 satz/ch1/GOES-13/SOUND-7.43/20110121 1446/EAST-CONUS/10km/ TIGE50 KNES 211446

Jan 21 15:19:40 notifyme[6887] INFO: 51259 20110121151940.513 NIMAGE 47225 satz/ch1/GOES-13/SOUND-7.02/20110121 1446/EAST-CONUS/10km/ TIGE51 KNES 211446

Jan 21 15:19:44 notifyme[6887] INFO: 45947 20110121151944.599 NIMAGE 47226 satz/ch1/GOES-13/SOUND-6.51/20110121 1446/EAST-CONUS/10km/ TIGE52 KNES 211446

Both of these commands will give other information that can be used in writing the data to disk in the raw archive in a more useful format.

1. **Note the raw archive location for the product.**

In general, the raw archive used is /data\_store/<product type>. For example, radar products are put into a subtree of /data\_store/radar based on the information. It is good practice to continue to follow this paradigm. However, as long as the –edex argument is used in the pqact.conf entry, the product should be decoded no matter where the physical storage location ends up as long as the EDEX server has access to that location.

1. **Create the pqact.conf entry.**

Following the format described in Section 3.1 of this Localization Guide, add the entry into the pqact.conf file. See deciphering a pqact.conf entry below for more information on syntax.

1. **Restart or send HUP signal to LDM server.**

Following the steps listed in Section 3.1, restart or send a HUP signal to the LDM server.

### A.1 Deciphering a pqact.conf Entry

Use the following reference to help decipher a pqact.conf entry.

NNEXRAD ^(SDUS[2-8].|NXUS6.) (K|P|T)(LWX|BGM|CHS|RLX|ILN|CLE|AKQ|JKL|CTP|MHX|MRX|OKX|PHI) (..)(..)(..) /p(...)(...)

FILE -overwrite -log -close -edex /data\_store/radar/\2\8/\7/\5\6\_\2\8\_\7\_(seq).rad

The first part, NNEXRAD is the FEEDTYPE as described in Table 3-1.1 of this Localization Guide.

The Regular Expression describes any product starting with SDUS and follows with any number between 2 and 8 OR starting with NXUS6.

The () store that string into the variable \1 which can be used when storing to physical disk.

(K|P|T) matches either a K, P or T and stores that to the variable \2 .

(LWX|BGM|CHS|RLX|ILN|CLE|AKQ|JKL|CTP|MHX|MRX|OKX|PHI) matches any of those site IDs and stores it to variable \3 .

(..)(..)(..) matches the next 6 characters of any type and stores them in pairs to \4, \5 and \6 respectively.

/p matches the exact string /p

(...)(...) matches the next 6 characters of any type and stores them in trios to \7 and \8 .

So the following line would match this entry in pqact and store in the following location:

**Product:**

NEXRAD3 56424268 SDUS51 KLWX 211529 /pTZLDCA !nids/

**Storage Location:**

/data\_store/radar/KDCA/TZL/1529\_KDCA\_TZL\_56424268.rad