Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
1 (high) =>dsdf.pl	->HK Level 0 ->MOC Dayfile Save and decode keywords data for asd dayfile and save keywords to asd HK by APID series(s do.lev0_ asd_0004)) - >dsdf.pl cronjob on producti on@j0.	Email messages with this subject. JSOC: (1)WARNIN G: Ingesting MOC dayfiles: status:No files loaded today	status:No files loaded today Warning Message: >Received count of <0> hkt files and count of <0> xml files	Dayfile were not retrieved by process that retrieves the Level 0 dayfiles from MOC Product server. This should be done by 9PM PDT. Then this process looks for dayfiles. If none are there, an email is sent out to jsoc_ops. This causes other processes to fail because they are looking for dayfiles at 11PM.	(1)Confirm the process that retrieves Dayfiles from MOC is working. Check with Art or Hao. (2-option a)Once this is working the process will pick up dayfiles for lost day(s) and the current day and save dayfiles at 10PM-PDT. (2-option b)If needed we can start save of dayfiles for lost day as soon as we get files retrieved by process that gets files from MOC Product Server.  ->login to j0 as production.  % cd /home/production/cvs/JSOC/proj/lev0/scripts/hk  % dsdf.pl moc>View log file to confirm saved dayfiles and decode asd dayfile.  % view log-df-moc  (3)There are processes that missed getting dayfiles and processing. These needed-scripts(temporary quickly done scripts not officially checked into cvs) processes run as cron jobs between 11-11:30PM PDT on production@j0. (NOTE:This script will be changed to using dsdf.pl once complete TRAC ticket #280)  By checking log files(log-doAPID17, log-doAPID19, log-doAPID40) can see if runs were successful.  (a) Keyword Data for APID 19 to hmi.temperature_summary series(For Sebastien and Jesper) ->Go to directory to update manually script.  % cd /home/production/cvs/JSOC/proj/lev0/scripts/hk ->Change start day and end day in script to day(s) did not have day files. For example change \$i start value and 6 end value shown below: #(1)hardcode end day for month #for october 2008 use 1-31 days \$i=5; while (\$i < 6) {

	Error or To	_		
<pre>(priority)</pre>	Warning	tal Message	Problem Described	Solution/ Actions Required
				> Go into file and change: % vi getFilesFromDayfile_019v2.pl>Rum % getFilesFromDayfile_019v2.pl b)APID 17,21,38,40 are less critical since these series are used by Master Pointing series to gather data. This data is used to up hmi.leg_status, hmi/aia iss series data. Since the master pointing series does not change HK lookup times often, this should not have a problem until we update the master pointer series. To do these updates. Repeat steps about described in 3a. Edit these files and then run. Remember v2 version in name of perl file is for hand editing and v3 version should not be touched(used for cronjobs).

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
2 (low-high) =>dsdf.pl	->HK Level 0 ->MOC Dayfile Save and decode keywords data for asd dayfile and save keywords to asd HK by APID series(s do.lev0_ asd_0004)) - >dsdf.pl cronjob on producti on@j0.	Email with subject:  JSOC:WARN ING:Inges ting MOC dayfiles: status:Po ssible error ingesting dayfile.		next day there are	Action Problem Described(1): Probably not Problem. Confirm all 256 files were ingested by viewing log file(log- df-moc) and view the dayfiles are there in the three dayfile series for that day. Where three series are aia.hk_dayfile, hmi.hk_dayfile, sdo.hk_dayfile.  Action for Problem Described(2): Confirm when SUMS/DRMS is working. Then follow similar procedure shown for item #1. The difference here is that, you will sse dayfiles(64 dayfiles + 64 xml files) on the dropoff directory. Since we had files but could not save, so kept files there for manual work around.

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
3 (high) =>gdfrt.pl	->HK Level 0 ->Real time Decode and save of keywords to asd series using Minute of data in RTMON Dayfile ->On producti on@j0_ cron job to start script. Script at /home /product ion/cvs/ JSOC/pro j/lev0/s cripts/h k.  % gdfrt.p l apid=129 pkt_size =128 % nohup monitor _df_rtm on.pl apid=129 &	(1) j0 server down or crashed email from admins  (2) Email with subject: JSOC:WARN ING:INGES TING REALTIME DAYFILE FOR APID 129:Dayfi le does not exist  (3)Email with subject: JSOC:WARN ING:INGES TING REALTIME DAYFILE FOR APID 129:Dayfi le is not getting new packets	continue running and resend another email notice if the data file is there and data starts flowing and stops again. >To restart monitor enter command: /home/production/cvs/J SOC/proj/lev0/sc ripts/hk/monitor _df_rtmon.pl apid=129 >To stop monitor run command(user=pro duction):/home/p roduction/cvs/JS OC/proj/lev0/scr	short delay when	Action Problem Described(1): Solution is to restart gdfrt.pl process with new LOG file marked with time restarted process. Restart monitor_df_rtmon.pl process.  a)Login into j0 as production user on terminal window. Execute: % nohup gdfrt.pl apid=129 pkt_size=128 > LOG-RT- APID0x081-2010.05.11.09_10:00:00 &  This process decodes minute of dayfile and saves keywords to sdo.lev0_asd_0004 series.  b)Log on to j0 on another terminal window and execute: % nohup monitor_df_rtmon.pl apid=129 &  This script monitors if dayfile is getting updated every 5 minutes, if not sends email warning.  c) View if passing when processing. Note the is one issue shown in the log file as failed when processing more then 1 minute of data at beginning of run. This is really ok. % tail -f <log-rt-<whatever>  d)View in LookData tool that data records are getting added to sdo.lev0_asd_0004.  Action Problem Described(2): -Check j0 can see directory /hmisdp-mon/log/packetsContact Rock on why Lockheed not updating data to dayfiles.  Action Problem Described(3): -Check j0 can see directory /hmisdp-mon/log/packetsContact Rock on why Lockheed not updating data to dayfiles.</log-rt-<whatever>

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
4 (high) =>gdfrt.pl	->HK Level 0 ->Real time Decode and save of keywords to asd series using Minute of data in RTMON Dayfile ->On producti on@j0_ cron job to start script. Script at /home /product ion/cvs/ JSOC/pro j/lev0/s cripts/h k. The cronjob script executio n with argument s:  gdfrt.p l apid=129 pkt_size =128	(1)Email with subject: JSOC:ERRO R:HK Level 0 Real Time Processin g failed to decode minute dayfiles.	into keywords and write keywords to hk data series for apid <129>.	(1)Possib le problems: (a)drms data base is down for service (b)drms data series does not exist.	Action Problem Described(1a): Check with team if drms database is down for service. If down, then as soon as comes back up the script will begin processing where last successfully processed data. Confirm in log file (/home/production/cvs/JSOC/proj/le v0/scripts/hk/log-gdfrt-apid-129) that the processing is being done successfully. If not successfully processing review log for reason why failing.  Sidebar 1: If the drms is down for less than two days and this process continues to run. The script will auto process previous days dayfile before starting processing of current dayfile(0 UTC = 5pmPDT). If greater than two day's of drms down, auto processing will not occur for previous files 2-n days back.  Action Problem Described(1b): First check the dataseries in log file is existing in drms by doing show_info <name>. If does not exist, will need to create using jsd files auto created at /home/production/cvs/TBL_JSOC/lev0/hk_jsd_file/prod using create_series. The script should write to series with no errors. Second check, since the gdfrt.pl calls decode_dayfile. decode_dayfile's series name setup could be incorrect in SOURCE_ENV_FOR_HK_DECODE_DAYFILE which is in directory /home/production/cvs/JSO C/proj/lev0/apps. This name change could occur if the HK config files from Lockheed are updated.</name>

Item # Module (priority) =>exec or script name	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
Solution   Solution	Email message with this subject: JSOC:WARN ING:Inges ting RTMON dayfiles: status:Po ssible error ingesting dayfile.	files and count of <1> xml files from directory >When executing script <td>The RT Dayfile was not saved to dayfile series.  Possible problems: (1)SUMS/D RMS down so could not save files.  (2)Path setup to pickup or drop off dayfile was not correct.  (3)No dayfile on /hmisd p-mon server.  (4)J0 has no access to hmisdp-mon server.</td> <td>(Step 1)Verify issue: Check if RT dayfile in sdo.hk_dayfile series where date is day of problem and source=rtmon. Check log file at log-df-rtmon for information on warning. Check for dayfile at drop directory defined in dsdf.pl and pickup directory in ingest_dayfile.pl  (Step 2)Manual save RT dayfile that failed last night. Execute the manual command to save asd rtmon dayfile to sdo.hk_dayfile. ssh or login to j0 as production user. Since we are save only asd files(apid in hex use 81) use command with apid=81. Set merged value to 0 which mean save dayfile only. Utilize src=rtmon because file is in rt filename format. The dsnlist is a map to tell script were save dayfile.  a)Save dayfile:  % cd /home/production/cvs/JSOC/proj/ lev0/scripts/hk  % ingest_dayfile.pl apid=81 dsnlist=./df_apid_ds_list_for_rtmo n src=rtmon merged=0  b)Verify files save by checking LookData tool with sdo.hk_dayfile.  c)Clean files:  % cd /tmp21/production/lev0/hk_rtmon _dayfile % rm <files saved=""> % vi DF_DELETE_FILE_LIST_RTMON (Remove files saved already)  (Step 3)Fix issue, if needed to, described in list issues in Problem Description column. Verify tomorrow no warning email is send. Verify log has no errors.</files></td>	The RT Dayfile was not saved to dayfile series.  Possible problems: (1)SUMS/D RMS down so could not save files.  (2)Path setup to pickup or drop off dayfile was not correct.  (3)No dayfile on /hmisd p-mon server.  (4)J0 has no access to hmisdp-mon server.	(Step 1)Verify issue: Check if RT dayfile in sdo.hk_dayfile series where date is day of problem and source=rtmon. Check log file at log-df-rtmon for information on warning. Check for dayfile at drop directory defined in dsdf.pl and pickup directory in ingest_dayfile.pl  (Step 2)Manual save RT dayfile that failed last night. Execute the manual command to save asd rtmon dayfile to sdo.hk_dayfile. ssh or login to j0 as production user. Since we are save only asd files(apid in hex use 81) use command with apid=81. Set merged value to 0 which mean save dayfile only. Utilize src=rtmon because file is in rt filename format. The dsnlist is a map to tell script were save dayfile.  a)Save dayfile:  % cd /home/production/cvs/JSOC/proj/ lev0/scripts/hk  % ingest_dayfile.pl apid=81 dsnlist=./df_apid_ds_list_for_rtmo n src=rtmon merged=0  b)Verify files save by checking LookData tool with sdo.hk_dayfile.  c)Clean files:  % cd /tmp21/production/lev0/hk_rtmon _dayfile % rm <files saved=""> % vi DF_DELETE_FILE_LIST_RTMON (Remove files saved already)  (Step 3)Fix issue, if needed to, described in list issues in Problem Description column. Verify tomorrow no warning email is send. Verify log has no errors.</files>

			1	T	
Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
6 (low) =>dsdf.pl	->HK Level 0 ->RTMON Dayfile Save of only ASD Dayfile - >dsdf.pl rtmon cronjob on producti on@j0.	subject:	Similar to item #1 except this is for RTMON or Real time day files. This RTMON refers to HK_SOURCE keyword setting in <aia hmi  sdo="">.hk_dayfile series.</aia hmi >	(1) Path setup to pickup or drop off dayfile was not correct. (2) No dayfile on /hmi-sdp server. (3) JO has no access to hmi-sdp server therefore cannot reach dayfile.	(Step 1) Check with j0 see hmisdpmon directory. Check if asd dayfile there(apid is 0x81).  (Step 2) Follow similar step as item #3

Item # (priority) =>exec or script name	Module Componen t/ Subcompo nent/ Executab le	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
8. (low) =>getdf.pl	->HK Level 0 ->HSB Dayfile Save >getdf.p l hsb cronjob on producti on@j0.	Email message with subject: JSOC:WARN ING:Inges ting HSB dayfiles: status: Found Old HSB Dayfile Not Processed ->Action Required	requiring action> ISSUE Found: (1)Old	(1)There was reprocess ing of older telemetry data. The ingest_le v0 executabl e write HK packets to HSB dayfile. The regular process that save HSB dayfiles only saves current days dayfile. It does not save older dated dayfiles.	Action for Problem Described(1): Step(1)(a)Confirm with Jim and Hao that the dayfiles created were from production telemetry data. Now we begin a manual process to save hsb dayfiles. See steps 1b-1e. Step (1)(b) go to production@j0 % ssh -1 production j0 % cd /home/production/cvs/JSOC/proj/lev 0/scripts/hk  Step(1)(c)Save files in dayfile series using script. For day 9/29 use this. Important to note to use hsb_r. Also do not save or delete current dayfiles being updated, let auto process do this(getdf.pl hsb).  ==>Best Way %ingest_dayfile.pl apidlist=./df_apid_list_day_file_hsb_r start=2000929 end=2000929 dsnlist=./df_apid_ds_list_for_h sb_r src=hsb_r merged=0  ==>Slower Way % ingest_dayfile.pl apid=48 start=2000929 end=2000929 dsnlist=./df_apid_ds_list_for_h sb_r src=hsb_r merged=0

Item # Module (priority) =>exec or script name	Error or Warning	Total Message	Problem Described	Solution/ Actions Required
				Step 1(f) Remove files from tmp22 %rm /tmp22/production/lev0/hk_h sb_dayfile/*_09_29*