IRIS 7.13 Release Notes

These notes cover changes made in IRIS since release 7.12 of 1 November 1999. If you are upgrading from an earlier release, please read those notes also. The current hardcopy versions of the manuals are: *IRIS/Open User's Manual*: 7.12, *IRIS/Open Utilities Manual*: 7.05, *IRIS/Open Installation Manual*: 7.12, and *IRIS/Open Programmer's Manual*: 7.12.

Installation Changes

1. The directory with the IRIS release notes has been changed. You should make the appropriate change to your ${IRIS_CONFIG}profile file. It should now read:

```
IRIS_MANUALS_NOTE="${IRIS_ROOT}/manuals/relnotes.ilcab/relnopdf/relnotes/"
```

2. The tape inventory format was changed to add support for the new RTI product. You will need to reinventory you tapes to get a correct inventory.

Bug Repairs

1. Repaired AMS menu. It was broken in release 7.12.
2. *Linux platforms only:* A bug was repaired in the DSP driver. Attempts to read more than 4000 words from the DSP would result in incorrect data being received. The I/O operation was okay from the DSP's point of view, i.e., it would not timeout, but the words received by IRIS were incorrect. This would show up as IRIS tasks not working properly if they contained more than approximately 990 bins.
3. Corrected a bug in ASCOPE playback of data. If the original data set included parameters that are not actually recorded in the file (e.g. magnitude of (I,Q)), then some of the real parameters would not play back correctly. The data in the file itself were fine, however.
4. *Linux platforms only:* Fixed problem with infinite loop of iris when logging out using the EXIT button from the front–panel.
5. The wind barb display for the NDOP product was displaying the barbs to the lower left by half of the data grid spacing.

New Features

1. Movie loops can now go up to 72 hours.
2. The network receiver will now now throw away a product file if it already has that file. This fixes a problem with dual network systems: Every file is sent twice, and this can cause every file to be recorded twice on archive media.
3. Centroids displayed as overlays on other products can now display as either: 1) A filled ellipse; 2) A hatched ellipse, or 3) An open ellipse. This is controlled with a **setup** question.

4. **Irisnet** now allows you to customize the list of tools you can launch for each site.
5. The product inventory now uses binary searches to find and insert products. This will save significant CPU time for customers who keep more than 10000 files on disk. It should especially speed up the time to cross check archive inventories.
6. The RST menu now uses color consistently to indicate which systems are contributing to a failure. All process or RCP related critical faults are now shown in red, and the site status will also show red. All non-critical faults are shown in yellow, and similarly the site status will show yellow. Note that yellow faults will not trigger the window alert. When upgrading, you will need to go through the RCP section to select which faults are critical.
7. IRIS now has a new "hardware site name". This is used to differentiate which system is running on a dual computer radar system.
8. IRIS now includes the new RTI product as part of the basic product set. "RTI" stands for "Range-Time Indicator", and consists of a display of range vertically vs. time horizontally. This is useful for displaying manual scans.
9. **Ascope** can now display SQI, as well has polarization parameters PhiDP and RhoHV. IRIS ingest and display now supports PhiDP and RhoHV.
10. The Task Scheduler menu can now support a "flip" flag bit. This is used when two radars share the same antenna and wish to alternate tasks between the radars.
11. IRIS now has partial support for antennas which can scan in elevation from 0 to 180 degrees. The elevation limits in the antenna utility and the task configuration menu are broadened. Elevation angles are now always displayed in the range –90 — +270.

TDWR Changes

1. The IRIS/LLWAS integration algorithm is now complete and working.
2. The ribbon display was repaired to show the runway direction on top, and the losses in knots.
3. The 7.12 IRIS LLWAS product is renamed the TDWR product. Similarly the 7.12 **llwas_sim** utility is now **tdwr_sim**.
4. The duration of flashing on the ribbon displays is now controlled by a question in **ribsetup**.
5. There is a new utility program called llwas_sim. It produces simulated output from an LLWAS system and sends it in a socket message to the IRIS/LLWAS integrator.
6. Combined the configuration file tdwr_llwas.conf into runways.conf. When upgrading be sure to combine these files, and examine the template file for new parameters.

Setup Changes

1. The **setup** disk files are reorganized: There is now a new file called "license.conf" which contains site specific info. It holds the information displayed in the first section of

setup/general, titled *Licenses and Site Information*. This simplifies network management of multiple similar machines. You can copy all the other setup configuration files from one master system. After upgrading, you will get the error "no such file or directory" when reading the setup files. You will need to run **setup** and save to clear the error. Note that the new file contents will automatically be filled in correctly, see below.

2. Added automatic version upgrading to **setup**. Starting with the 7.12 to 7.13 transition, **setup** will automatically detect changes made in the saved structures, and fill in reasonable default values. This does not work on the RVP and RCP sections of **setup**, as well as on **color_setup**. When running **setup** for the first time after an upgrade, you will see a message like: "Converting format from 6.13 to 6.14".

3. There is a new feature in IRIS called "window alerts". The configuration for this is in the general section of **setup**, in the subsection titled "Window Alert Configuration". Window alerts display as a big red "X" on the display, and they can be used to display either a radar failure, or a display showing old data. See the **setup** manual page for details.