

2.11 RAW: Raw Data

The screenshot shows a window titled "wind RAW Product Configuration: PPI_VOL". It features a menu bar with "File", "Menus", "Type", "Commands", and "Help". The main area is divided into sections. The "TASK SUMMARY" section contains several input fields: "TASK Name" with the value "PPI_VOL", "DSP Data" with "Z V", "Scan Mode" with "PPI Full", "Max Range" with "299.8", and "Angle List" with "AZ: Full Circle" and "EL: One angle at 1.0". Below this is a "Formats" section with a "Preserve Format" button. At the bottom, there is a "Make sweep-by-sweep?" checkbox.

This section describes the fields of the Product Configuration menu that are unique to RAW products. For general information, see these other sections of this chapter:

- Task Summary area, Section 2.1.1.

The RAW Data product (RAW) generates a compressed product file containing all of the signal processor data parameters collected during the associated TASK. The RAW product cannot be displayed, but it can be archived to tape or sent to the disk of another IRIS computer in a network. When a RAW product file is either retrieved from tape or received from another IRIS computer, an ingest file is created, so that products can be generated. Thus, the RAW product is typically used in the following ways:

Analysis Product Generation from RAW Data

RAW products are stored on tape and later read back to an IRIS system (not necessarily the radar host) so products can be generated for analysis or testing.

Network Product Generation from RAW Data

RAW products are sent to another IRIS network computer and the product generation is done there rather than by the radar host. This off-loads some of the processing burden from the radar host onto other network computers that may be less busy. This is valuable if some users prefer to generate products that are not normally produced by the radar host.

To open the RAW Product Configuration menu:

Choose **Type**→**RAW** from the menu bar.

The RAW product is a simple product to configure. There are few configuration parameters beyond the RAW product name (assigned when you save the product) and the TASK name. It is recommended that you give a RAW product the same name as its associated TASK.

Formats

This pop-up menu allows you convert products between 8-bit and 16-bit formats. Choose the format that you would like, or choose “Preserve Format” to perform no conversion on the in-coming data.

Make sweep-by-sweep?

Press this button in to generate RAW products incrementally—on a sweep-by-sweep basis. If these products are sent to a second machine over a network, that machine will also assemble the ingest data one sweep at a time. Push this button out to generate the RAW product from the entire volume scan.

2.11.1 Recording RAW Data Automatically

To record a RAW product automatically whenever the associated TASK runs, perform the following steps after you have configured the RAW product:

1. Load the associated TASK into the TASK Scheduler and choose →**Go** to get it running.
2. In the Product Scheduler menu, load the product and choose →**All**. This causes the RAW product to be generated every time the TASK runs.
3. In the Product Output menu, specify the desired archive media as the output device and choose →**All** in the header line for the product, so all output is sent to the archive.
4. In the Archive menu, mount a tape or disk and choose **Commands→Record**.



Note: Because RAW products require substantial disk space, it is best to record them “on the fly,” so they are not automatically deleted by the disk Watchdog.
