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“Paragon 4.0, Paragon 97 and more recent releases have been tested and verified to be safe for the Year 2000 transition.”

Y2K Compliance

Paragon For Windows & OS/2 Y2K Compliance

Paragon 4.0, Paragon 97 and more recent releases have been tested and verified to be safe for the Year 2000 transition. Paragon techniques for storing the time and date were found to be safe and there are no losses of historical data. There are no application failures (“crashes”). The tests are outlined in a subsequent section.

Paragon 3.31 and before were not tested but there is at least one known problem found by code inspection. This is associated with entering dates for retrieving historical and trend data. The manual entry of a date like 1/1/00 is interpreted as 1/1/1900.

If you are using Paragon 3.31 or before, you should upgrade to the most recent version.

Paragon 500/550 Y2K Compliance

Paragon 500/550 version 2.35B1 has been tested and has no failures normally described as “crashes.” Paragon 550 operates normally over the millennium change except as noted below.

There are no known problems storing historical data in version 2.35. However, problems will be encountered when retrieving or converting stored data using the off-line HIST or off-line convert utility: These are detailed in a subsequent section.

Version 2.36 is now available, which has all known Y2K problems corrected. An update for version 2.35 is also available. If you are using a version before 2.35, you should upgrade to 2.36.



Some customers may be able to upgrade to Paragon for Windows or Paragon for OS/2 Warp to minimize the effect of the millennium change. NemaSoft will work with 500/550 customers to minimize issues associated with the conversion.

NemaSoft's Validation Strategy

NemaSoft has tested the most recent versions of Paragon for Windows and OS/2, and Paragon 500/550. The scope of these tests have included functions containing time and date, and also other functions important to the continued function of Paragon.

Specific tests for validating Y2K behavior started with version 4.0 on Windows and OS/2, and version 2.35 on DOS. It is not practical to thoroughly test all versions of Paragon on all platforms. NemaSoft provides upgrade paths for all previous versions to one of the tested versions.



Paragon Test Summary

Paragon Tests included the following:

- ✓ Ability to install and update Paragon after 2000.
- ✓ Ability to edit application files after 2000.
- ✓ Verify reports generated after 2000.
- ✓ Performed scheduled processing and computation tasks over and after 2000.
- ✓ Network communications over and after 2000.
- ✓ Collect, export and import data before and after 2000.
- ✓ Plot trend and historical data over and after 2000.
- ✓ Display time and date correctly after 2000.
- ✓ Ability to manually enter time and date for historical data retrieval.

General Test Method:

- Setting the date to December 31, 1999.
- Starting Paragon test applications.
- Running into 2000 while exercising test applications.

Leap year tests were also performed.

- Setting the date to February 28, 2000.
- Starting Paragon test applications.
- Running through February 29 to March 1, 2000.
- Exercise applications including retrieving data from before 2000.

Tests were performed on several platforms (the platforms were tested only through the use of Paragon. Functions not involved in Paragon applications were not tested).

- Windows NT 4.0
- Windows 95
- OS/2 Warp 4.0
- DOS 6.0 (For Paragon 500/550 only).

Paragon For Windows and OS/2 Y2K Results

We have reviewed product code for potential risks and anticipated issues. Beyond code reviews, we have defined and executed formal tests aimed at exposing operating problems into the year 2000.

Paragon 4.0 and beyond were tested. There are no known problems as it operates normally over the millennium change.

Paragon 500/550 Year 2000 Results

We have defined and executed formal tests aimed at exposing operating problems into the year 2000.

Paragon 500/550 version 2.35B1 has no failures normally described as "crashes." Paragon 550 operates normally over the millennium change except as noted below.

There are no known problems storing historical data. However the following problems may be encountered when

retrieving or converting stored data using the off-line HIST or off-line convert utility:

- **Historian Utility** The Historian Utility displays the dates in the Start and End times as follows:

```
Start Time : 12/31/99
End Time   : 01/01/100
```

If data is exported to WKS format, the year 2000 is correct in that file.

- **Utilities-Historian Graphical display:** If the start of the data is 12/31/99, the date will be displayed as such. If the data is scrolled beyond the year 2000, once you scroll past the date and go back to the year 99, the year will be displayed as 990 on the left side of the time axis. The right side of the time axis displays the date as 01/01/00.
- **Utilities-Historian Tabular display:** If the start of the data is 12/31/99 and you scroll down to the year 2000, the year will be displayed as 01/01/100. If you then scroll upwards to 1999, the year will be displayed as 990.
- **Utilities-Historian Graphical and Tabular displays:** If you need to enter the year 2000, you must use "100" as the year. The "100" also exceeds the length of the data display field but the data is generated in both Tabular and Graphical displays correctly (see note above about the date display).

If the year is 2001, the Historian Utility reports the year as 01/01/101. If data is collected for subsequent years such as 2001, 2002, etc., the date is displayed as 101, 102... If data is exported to the WKS format, the dates and times are correct. You can enter these dates into the historical trends and it will behave properly.
- **Data Retrieval Tool:** When a start and/or end time beyond the year 1999 is required in the HISTCONV argument, the year 2000 must be entered as "100." 2001 would be 101 etc.
- **HISTCONV:** Occasionally when a large file is converted to WKS format, the end of the data is wrapped around to the beginning. This overwrites the header information in the output file.