File System Changes

PxPlus 2016 (v13)

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File System Changes

- File backup directive
- ZIP file Insert and Extract directives
- SQL data validation
- PDF file UTF-8 support and Watermarks

File Backup Directive

- The Problem:
  - Normal Backup software either requires exclusive use of file or makes a backup of a file that may be in mid-update

- How we solved this:
  - PxPlus 2016 added a high-speed file copy/backup option within PxPlus that defers updates during the process and does not require exclusive access to the file

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File Backup Directive

- Syntax:

CREATE FILE "new_path" FROM "old_path"
CREATE FILE "new_path" FROM (channel)

File Backup Directive

- Advantages:

  - Performs high-speed binary copy of file and contents
  - Does not require exclusive access to input file
  - Can be used to make copy of ANY type of disc file

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ZIP Insert and Extract Directives

- New syntax to directly insert or extract file into a ZIP repository

> EXTRACT FILE filename$ FROM (channel, KEY=name$)
> INSERT FILE filename$ TO (channel, KEY=name$)

- The key **name$** is optional. Default uses **filename$**

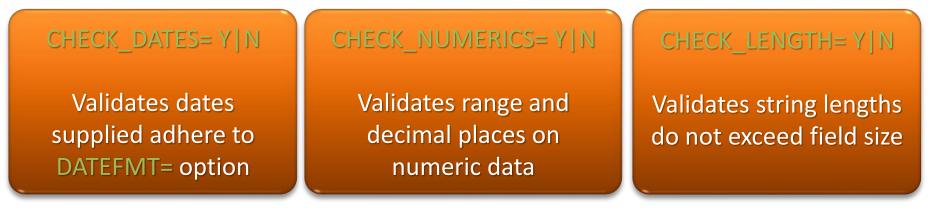**DireXions 2016**

ZIP Insert and Extract Directives

- Advantages
  - Don't need to read file into memory to transfer
    - Reduces memory usage
    - Avoid OPEN / READ RECORD / CLOSE requirements
  - Faster transfer of data

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SQL Data Validation

- PxPlus built-in ODBC interface can pre-validate data
  - 3 New INI file options in the [ODBC] section or OPT= string

CHECK_DATES= Y|N	CHECK_NUMERICS= Y|N	CHECK_LENGTH= Y|N
Validates dates supplied adhere to DATEFMT= option	Validates range and decimal places on numeric data	Validates string lengths do not exceed field size

  - Invalid data generates Error #5 - Data error on device or file
    - MSG(-1) provides additional details

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PDF UTF-8 Support & Watermarks

- Built in PDF driver now supports UTF-8 data
  - Controlled by the 'U8' system parameter
  - Allows inclusion of wide variety of characters
    - Font(s) chosen need to include the characters

- New *PDF* option: WATERMARK=*filename*
  - Adds image in file as background watermark
  - Image is centered and stretched to fit page

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Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2016 (version 13) release.

- CREATE FILE Directive

- EXTRACT FILE Directive

- INSERT FILE Directive

- [ODB] Open Database

- *PDF* PDF Print Interface

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