

yoda
Yoda Software

Xtend

editing software for Model204™



Version 1.75

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Proprietary Notices

Xtend is a proprietary product of Yoda Software

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Mainframe Connection

- Two modes of connection
Depending on the site a user can connect via Connect* or Janus Web.

Procedure List Interface

- **Multiple views for Development/Test and Production**
A user can set up his/her workspace with any number of remote views. A remote view is essentially the same as a user running another instance of a 3270 emulator application.
- **Views saved automatically on application exit**
Each remote view is saved when the user exits, unlike most current 3270 based editor setups where only your last view is saved.

Editor Interface

- **Colour**
The user can be as creative as they like in setting up their editing environment. The standard Windows colour palette is at their disposal to tailor their view of Model204 code.
- **Line Numbers**
Lines are numbered in the left hand margin. Line numbering can be disabled.
- **Scrolling**
Getting around a Model204 program is now as simple as ever. Standard scroll bars help the user navigate around the program. The arrow keys or PageUp/Down can also be used to move through the Model204 code. Standard keystrokes like HOME, END, <CTRL + HOME> ...etc are also valid.
- **Find & Replace**
This is the standard Find & Replace that users might have used in word processors (eg Microsoft Word)
- **Cut/Copy & Paste**
As *Xtend* is a GUI application, moving code around is significantly simpler than within a 3270 emulator. (especially copying/moving code between procedures)
- **Upper Lower case conversion**
Who hasn't been caught out in a 3270 emulator editing in the wrong case. *Xtend* makes it so easy to convert case from upper to lower and visa versa. Whether you need to change the case for 1 line, multiple lines or parts of a line, *Xtend* makes it simple.
- **Non-consecutive line copying**
Xtend allows a user to copy non-consecutive lines of Model204 code in a single operation.
- **Automatic Line indentation**



So much time is spent getting the cursor to the correct position when editing via a 3270 emulator. *Xtend* has an option, which when set, places the cursor in line with the first character on the preceding line when the ENTER key is pressed.

- **Automatic End if/for/find**
This option, which when set, automatically adds an END IF/FOR/FIND on the following line when the ENTER key is pressed.
- **Tabbing (single/multiple line)**
When the TAB key is pressed the cursor will move a set (a number set by the user) number of spaces to the right. (SHIFT + TAB moves to the left). This powerful feature can also be used to shift multiple lines of code in a single keystroke.
- **Comment/uncomment multiple lines in a single action**
During the debugging or unit test stage, a user might need to comment out a particular block of code. This is easily achieved (and undone) with a couple of keystrokes in *Xtend*.
- **Auto lowercase comment lines**
With this option set on, if a user is coding with the CAPS LOCKED, then when they leave a line that is preceded with an *, that line is automatically converted to lowercase.
- **Suppress lines**
This feature allows the user to suppress lines of code that do not contain a certain string or combination of strings. Text can also be suppressed by simply highlighting text, and then selecting 'Hide' from the menu or pressing the corresponding shortcut key.
- **Syntax checking**
Xtend has a simple inbuilt syntax checker. This has the capability to dramatically reduce the CPU used whilst trying to get a compilable version of a Model204 program.
- **GO!**
Another powerful feature is the ability for users to run a procedure in any of the onlines that they have logged into and receive the results in a separate window!
- **Fast browse (Shift F2)**
Xtend gives the user the ability to place the cursor over an INCLUDE statement and by pressing SHIFT + F2, the application will display a dialogue box confirming the online, procedure file and name (any of which can be changed) before browsing that procedure. No need to go back to the Procedure List screen and find it!
- **Line wrap**
This option, when activated, will wrap any lines that do not fit on the editing window.
- **Line Length & Allow editing beyond maximum line length**
Xtend allows the user to set the maximum number of characters per line. Values from 60 to 255 are accepted. In version 1.75 a new option has been added to allow



editing beyond the maximum number of characters per line. An “end of line” marker can be shown to indicate the end of the line.

➤ **HotKeys**

Most of the editing features are available via a shortcut key sequence. Eg: CTRL + D to delete the current line, CTRL + E to erase to end of line. The standards for Windows are kept for things like copy/cut and paste ...etc. All HotKeys are detailed in the Help File.

➤ **Undo and Redo**

This feature has been built in with an unlimited undo/redo stack. The undo/redo stack is initialised when a procedure is saved.

➤ **Templates**

Comment blocks, subroutine definitions or any piece of code that might be used often and by a number of users can be used as a template.

Tool tips

One of *Xtend's* most powerful features is its ability to provide real-time help to users. These options can be de-activated individually should the user so wish.

➤ **Mouse over**

When the cursor is moved over a Model204 variable, its declaration is displayed in a tool tip. (a tool tip is a box that appears automatically with an explanation of what the cursor is currently over. Most modern applications have tool tips on all their menu options.)

➤ **Image and screen drop-down box**

When the user types the screen/image name and then the colon, a list of all the screen/image items will appear in a drop-down box from which the user can select the appropriate one.

➤ **Variable drop-down box**

When the user type the % character, all the variables declared in the procedure are displayed in a drop-down box. The user can select from the list, or keep typing and the drop-down box will automatically scroll to a variable that matches what the user is typing. By pressing the TAB key the variable name that is highlighted in the drop-down box is copied into the procedure. This feature can dramatically reduced the number of keystrokes when coding User Language.

➤ **Subroutine parameters**

When the user types a “CALL SUBNAME(“ in their code (where SUBNAME is the name of a valid subroutine) a list of the required parameters for that subroutine will appear in a tool tip.

➤ **\$function parameters**

When the user types in the \$function a list of the required parameters for that function will appear in a tool tip.

➤ **\$function drop-down box**



When the user type the \$ character, all the dollar functions are displayed in a drop-down box. The user can select from the list, or keep typing and the drop-down box will automatically scroll to a function that matches what the user is typing. By pressing the TAB key the function name that is highlighted in the drop-down box is copied into the procedure.

➤ **\$function F1 help**

If the tool tip on a \$function is not sufficient help (you might want an example), just place the cursor on the \$function and press the F1 key.

Block Mode

A severe limitation to a 3270 emulator is the functions available to the user when working with a block of code. Especially if that block is more that a page in length and/or there are extended lines involved. *Xtend* overcomes these limitations and has a host of features that can be performed on a block of code.

➤ **Block more than 1 page**

As the user 'draws' the block, the procedure will automatically scroll when the cursor goes outside the editing window.

➤ **Cut (leaving or removing spaces)**

After the block has been defined, the user can cut the block (ie: remove the contents within the block) and either choose to leave spaces in place or not.

➤ **Copy**

The contents of the block are automatically copied into memory once the block has been defined

➤ **Paste (overwrite or insert)**

The block of code can be pasted in insert mode or overwrite mode.

➤ **Sort**

The contents of the block is sorted alphabetically

➤ **Align**

The block is aligned with a word/symbol that the user will be prompted for.

➤ **Flip**

This option is used to swap text on either side of an equals sign.

➤ **Fill**

This option can only be used when the first element in the block is a number. The rest of the block is then incremented/decremented by a number specified by the user. (eg: you have a screen that has 100 postcodes, you type POSTCODE1, duplicate it 100 times, then use the block fill to update the screen items 2 to 100)

➤ **Replace**

This will replace the contents of the block with a string specified by the user.

Multiple Windows

➤ **Tile many windows**



Tiling windows in a 3270 emulator environment results in almost unreadable code. *Xtend* allows multiple windows to be tiled without compromising legibility.

- **Drag & drop lines of code between windows**
With multiple windows opened, copying code between them is simple.
- **Compare procedures**
Xtend has a procedure compare facility that can be used to highlight the differences between two procedures. It can also be used to compare procedure output. (eg: PAI dumps)

Xtend offers maximum flexibility to the user to tailor the product to suit their individual/company needs.

Recovery

In the event of a PC crash, *Xtend* has a built in recovery system that will ensure that no more than 15seconds of editing can be lost. When invoking *Xtend* after a crash, all procedures that were being edited will be automatically displayed, the cursor will be placed back to the exact position before the crash.

If a user is editing a procedure and the Model204 online comes down, they are not effected. No code is lost! If an online needs to be 'bounced' for some reason, users can edit a number of procedures, save them to their PC's (or LAN) and keep working throughout the 'down-time' period. Procedures can be saved to a laptop and worked on at a users convenience and then saved back to the mainframe when they next login into their network.

Response Times

Apart from the more obvious time-saving features packed into *Xtend*, there will be a significant CPU saving gained. Where the 3270 editor uses CPU for scrolling, inserting/deleting text, find/replace, in fact whenever the ENTER key is pressed there is a small CPU usage. In *Xtend* all these functions have no interaction with the mainframe! The only time an ENTER is recorded, is on the initial edit of the procedure and whenever the procedure is saved.

Xtend allows each user to effectively use their PC as a filing system for their Model204 code. No longer is there a need to have a generic Model204 procedure file (or individual user files) for a users Model204 adhoc procedures. They can now reside on the PC or the LAN.

Summary

- *Xtend* utilises the power and versatility of a graphical user interface.



- *Xtend* will allow for faster and more accurate development of Model204 procedure code.
- *Xtend* allows for code to be developed independently from mainframe availability.