



## **Xtend Version 2.0**

### **Xtend version 2 features**

- Optimised for Windows XP
- Caching of procedures locally
- Included procedure processing
- More Tooltip style help
- Support for Sirius objects, structures and XML
- New Administrator Functions screen
- Word Replace
- Remove trailing 'white space'
- New colour options
- Procedure List enhancements
- Block mode upgrade
- Editor enhancements
- Procedure Compare enhancements
- New File Locations for \$functions

### **Optimised for Windows XP**

*Xtend* version 2 has been compiled on an XP base. (previously Windows98). This has allowed *Xtend* to tap into features of the operating system that were 'unavailable' in previous releases.

### **Caching of procedures locally**

This feature is activated locally by the user from the Options screen under the Cache/Include TAB. It defaults to OFF. It can also be overridden for all users by a person with access to the Administrator screen. At a system level it defaults to ON.

When turned ON locally, any procedures edited from the mainframe are cached locally in a (secure) database on the users PC/Laptop. If the user then re-edits that same procedure at a later date, only a date/time stamp check is done against the remote version, and if it matches what is held in the Cache database, the procedure is retrieved from the local database. This can greatly increase the speed of editing a large procedure as there is no need to reparse or colour it.



If a procedure is cached, the Edit/Browse/Print button on the Procedure List screen will also allow the user to force *Xtend* to retrieve the procedure from the remote host.

### **Included procedure processing**

This feature is activated locally by the user from the Options screen under the Cache/Include TAB. It defaults to OFF.

When turned ON, if a procedure INCLUDEs a screen, subroutine, copy code ...etc, then those routines will also be parsed and the variables, images, screens are available via the *Xtend* Tooltip DropDowns. The first time you edit a procedure with many includes, *Xtend* will be retrieving and parsing all the INCLUDED routines as well. The second, and subsequent edits will be much faster as *Xtend* will be able to source the INCLUDED routines from the cache database (provided you have activated the *Caching* feature)

It is **strongly** recommended that the user activates the *Caching* feature if they activate the *Include Processing* feature.

### **More Tooltip style help**

The new Tooltip options can be activated by the user from the Options screen under the Tool Tips TAB.

There are 6 options which will result in a Drop Down box being displayed for the user to select from.

1. Display Variable/Images/Screens. This is not a new feature but if the Include Processing feature is activated, then variables, images and screens from within any INCLUDED routines will also be displayed in the Drop Down box.
2. Display variable types on 'IS'. Activate this to display a Drop Down box containing all the valid variable types after the user types IS followed by a space.
3. Display \$Functions. Users of previous versions of *Xtend* will be familiar with this feature.
4. Display Subroutines on 'CALL'. Activate this to display a Drop Down box containing all the valid subroutines after the user types CALL followed by a space. The Drop Down box will also include subroutines from within any INCLUDED routines if the *Include Processing* is activated.
5. Display Objects. This new feature is for Sirius Sites. A Drop Down box containing all the Sirius Objects (from Sirius Mods 6.5 and 6.6) will be displayed when the user is defining a variable of type OBJECT.



6. Display Structures. This new feature is for Sirius Sites. A Drop Down box containing all the Structures defined in the procedure will be displayed when the user is defining a variable of type STRUCTURE.

### **Support for Sirius objects, structures and XML**

*Xtend* version 2 recognises and parses the new objects made available in Sirius Mods 6.5 and 6.6. Including: classes, structures, stringlists ...etc are all parsed in *Xtend* version 2.

### **New Administrator Functions screen**

The system parameters for *Xtend* were previous updated via a 3270 screen. These parameters (and the new ones introduced for version 2) are now updated via a new Administrator screen from within the *Xtend* GUI. Only a user with the *Xtend* administrator privileges will be able to view this screen.

The user who ran the Model204 code upgrade will have been added as an *Xtend* Administrator. This person will need to run the *Xtend* v2 GUI to add more *Xtend* Administrators if required.

### **Word Replace**

This feature is located on the User Options screen under the *Procedure Code* TAB. It allows a user to use abbreviations which will be automatically replaced when the user 'moves off' the current edit line.

### **Remove trailing 'white space'**

This feature is located on the User Options screen under the *Procedure Code* TAB . When editing a procedure, any white space to the right of the line being changed, will be removed. Trailing white space is also removed when pasteing code.

### **New colour options**

An option to pick the highlight colour for all grids has been added.

Colouring of procedure code has been changed from the one screen to 3 separate grids.

Section: allows colouring of a section of code within a Model204 line. Eg: colouring the text between quotes.

Line: Using a 'Starts with' and/or 'Contains' field, lines can be coloured.

Word: Explicit words can be coloured.



All 3 options also have a 'Match Case' option. For backwards compatibility, the default is non case sensitive colouring.

All the users existing colours will be converted to the new format.

### **Procedure List enhancements**

New filter criteria of *UserID* and *Date* are available on Remote TABs

Setting of grid widths will be remembered the next time *Xtend* is invoked.

The user can now 'right click' the mouse on the Procedure List grid for fast access to the Edit/Browse/Print options.

Click on any line on the grid and then press CTRL and C (the standard Windows Copy hotkeys) to copy the procedure name on the grid into the clipboard.

### **Block mode upgrade**

Block mode has been upgraded to allow for different screen resolutions when drawing the 'block'

When the 'block' is copied, it is now also placed on the Clipboard and thus can be pasted using the conventional Windows paste (CTRL and V) back into *Xtend* or other applications.

### **Editor enhancements**

The editor is now 'aware' of all the Sirius Mods 6.5 and 6.6 objects. There is automatic End For/If that can be activated from the Options screen, *Procedure Code* TAB. This will also work for Subroutines and Sirius Classes.

On right click, under the Options submenu, all the Tooltip settings can be changed for the procedure being edited without effecting other procedures or the default settings in the Options screen.

### **Procedure Compare enhancements**

The automatic mode algorithm has been enhanced for better accuracy. The manual mode will now centre the lines when a difference is found in the 2 procedures being compared. The line numbers (left hand margin) where there is a difference will also be highlighted for a short period to further 'identify' the lines of difference.

The compare results can now also be saved or printed.



### **New File Locations**

**\$Functions XML** – The \$functions, including parameters, is now sourced from an XML document, *XtendFunctions.XML*, which is located in the directory you install *Xtend v2.0* in. (required)

**Inhouse Functions XML** – Any inhouse written \$Functions are now sourced from an XML document in the *Xtend* procedure file on the main frame. This file location points to where the local cache should be stored. (optional)

**Generic objects** – for Sirius sites only – Generic objects, such as XML documents, string lists, HTTP helpers etc, are now sourced from an XML document, *XtendGenericObjects.xml*, which is located in the directory you install *Xtend v2.0* in. (required)

**Local Cache of help** – File/Field help and Object (user written classes) are sourced from the mainframe. This file location points to the local cache of help. (optional)

### **Summary**

Version 2.0 is a significant upgrade from v1.75, both from an internal and external view. The parser is quicker and more accurate and has the ability to now cache procedures locally and ‘drill down’ and parse INCLUDED procedures. These, and the many other additions will enhance the productivity of the Model204 User Language programmer.