

***appx***<sup>®</sup>

*For the  
Development and Deployment  
of  
Business Application Software*

***appx***<sup>®</sup>  
SOFTWARE

Distributed By:  
Cansys West International Ltd  
[www.cwi-appx.com](http://www.cwi-appx.com)

# What is APPX?

## APPX is...

- a powerful RAD (Rapid Application Development) environment
  - Active Data Dictionary
  - Design by Specification
  - WYSIWYG Image Editor For Menus, Inputs, and Reports
  - Fully Integrated Language Facility Editor
  - Interactive Debugger
  - Designer Toolbox
- a flexible, user-friendly, runtime environment
 

Choose Your:

  - Application Server
  - Data Server
  - Desktop Client
  - Foreign Languages
- a business application administration utility
  - Applications
  - Databases
  - Users
  - Security
  - Printers
  - Forms
  - Languages

Businesses of all types around the world have been using the APPX business application development software and business application software solutions since 1974.

APPX has survived the acid test of time. APPX is the culmination of over 25 years of experience developing sophisticated business applications. APPX has evolved into a highly efficient, powerful, business application development and runtime environment.

APPX is ready for the challenge of business application development in the new millennium!

APPX is a state of the art, platform-independent, Rapid Application Development (RAD) and runtime environment that provides the capability to develop and deploy full-featured, business applications.



*The APPX Designer/System Administrator Menu*

- P** APPX is a Rapid Application Development environment
- P** APPX is a flexible, user-friendly, runtime environment
- P** APPX is a business application administration utility
- P** APPX runs on most popular hardware platforms
- P** APPX offers flexible ISAM & RDBMS data storage options
- P** APPX interfaces readily with other enabling technologies
- P** APPX offers character, GUI, and web browser clients
- P** APPX includes a real-time interface to web pages
- P** APPX includes an ODBC interface for Windows<sup>®</sup> desktops
- P** APPX includes APPX/NET for remote data access
- P** APPX runs applications in foreign languages
- P** APPX applications support multiple companies/divisions

**APPX incorporates a time-tested, powerful and proven application development methodology**

# Why APPX?



**Business data processing requirements change continuously and often dramatically. Today's technology-driven world demands that your business applications be flexible, easily maintainable and extensible.**

**Your business applications must be designed to *anticipate change.***

## APPX...

- is platform independent
- coexists with your other environments
- is cost effective
- is scalable from 1 to 1,000 or more users
- can be used to develop business applications quickly and easily
- is an enterprise-wide solution
- can give you a competitive edge

## APPX BUSINESS APPLICATIONS

- are designed by specification
- are maintainable
- are extensible
- are flexible

**?** Are your business applications designed to satisfy your business requirements **OR** is your business constrained by the limitations of your applications?

**?** Can you change your applications quickly and easily to meet evolving business needs, market changes, customer requirements and the competition **OR** is your data processing project backlog becoming hopelessly unmanageable?

**?** Are your applications making your users more efficient, productive and responsive **OR** is user satisfaction with your business' technology services continually declining?

**?** Do your applications interface seamlessly with the latest technologies **OR** are you unable to implement technologies that you need to run your business?

**APPX** • **your business requirements are changing**  
**is for** • **your business is growing**  
**you** • **your business application software is not keeping pace with your business requirements**  
**if:** • **your business application development backlog is growing**  
• **your business application development costs are rocketing**

# Design...

## APPX APPLICATION DESIGN

- is platform independent
- is structured
- is efficient
- is powerful
- is flexible
- is fast
- is cost effective

## APPLICATION DESIGN

With APPX you can build better applications in less time than you ever imagined. You design your application by entering your specifications and APPX does the rest. APPX's innovative *Design by Specification* approach to application design minimises the need for procedural code. APPX lets you focus on defining the business rules for your application rather than the data processing rules.

APPX provides a structured framework for designing your application. This well defined structure results in an application which is consistent in its design. With APPX you will be able to quickly design full-featured business applications which are easily maintainable.

The APPX Application Design Utility allows you to easily maintain more than one version of your applications. For example, you might have a production version, a test version, and a development version. As well, you might have additional versions of your applications for each company or corporate entity within your organisation.

**APPX is a comprehensive, consistent, fully integrated environment for designing full-featured business applications.**

## DOCUMENTATION

Applications designed with APPX are self-documenting. APPX's *Design by Specification* approach to application design makes it easy to produce up-to-date technical documentation. APPX includes documentation utilities to enable editing and printing of technical documentation based on your design specifications. If you change an APPX application, the technical documentation automatically changes too.

## PROCESS TYPES

MENU
JOB
INPUT
OUTPUT
UPDATE
QUERY
INQUIRY
STATUS
SUBROUTINE

## PROCESS DESIGN

Choose from nine different process types to create menus, data entry screens, reports, batch updates, queries to select and sort records, enquiries, status screens, subroutine modules, and jobs for running sequences of processes.



Application Design Menu



Output Process Design

# ...with APPX



## DATA DICTIONARY

The APPX Data Dictionary is central to the productivity gains which result from designing applications with APPX. The data dictionary is robust and fully integrated with all aspects of application design. As you design your applications with APPX, not only is every reference to a file or field name validated, but the usage is validated to ensure consistency with the attributes of the files and fields as defined within the data dictionary. The APPX data dictionary contains the definitions for Domains, Files and Fields, and Work Fields.

### DOMAINS

A *domain* is a template for defining fields. For example, a Customer Number field may reside in several Accounts Receivable files such as Customer, Transaction History, Payments and Adjustments, as well as in files in the Order Entry, Sales Reporting, EDI, and Collection applications. Using a Customer Number domain to define all Customer Number fields in all files ensures consistency throughout your applications. Most importantly, any **attribute changes** made to a domain are automatically applied to *all* fields which reference that domain.

### FILES/FIELDS

Logical groups of data *fields* are defined as *files* in the APPX Data Dictionary. APPX supports indexed, consecutive, and one record file types. Files can be defined as permanent or temporary. Temporary files can be stored in memory or on disk. APPX supports a wide variety of field types. Each field type has its own distinct set of field attributes. **Many field attributes** are automatically inherited by references to data items within your application. For example, if you change the length of a field in the data dictionary, all references to that field automatically inherit the new length. Input screens and reports do not need to be modified. APPX takes care of the details for you!

### WORK FIELDS

APPX also allows you to define work fields. **Work fields** are temporary fields used for storing computed or derived data values.

### FIELD ATTRIBUTES

- Key Control
- Length
- Description
- Column Headings
- Auto Sequence Number
- Default Value
- Range Check
- Sign Control
- Display Mask
- Number of Occurrences
- Security Code

Seq No	Field Name	Field Type	Def Format	Display
1400	PROSPECT EMPLOYED	NUMERIC	9:4	
1500	PROSPECT LOCATION	NUMERIC	9:3	
1600	PROSPECT P31 CONTACT	GROUP HEADER		
1700	PROSPECT MO 1	STORAGE		
1800	PROSPECT P31 CONT LN	DOMAIN	N(12)	
1900	PROSPECT P31 CONT FN	DOMAIN	N(12)	
2000	PROSPECT P31 CONT ENR	GROUP TRAILER		
2100	PROSPECT SALESREP NAME	DOMAIN	N(30)	
2200	PROSPECT MED SEARCH	ALPHA	N(30)	
2300	PROSPECT MERT ACTIVITY	DOMAIN	9:3	
2400	PROSPECT DATE ADDED	SYOTER	Date Add, CC-ED	
2500	PROSPECT ADDED BY	SYOTER	User Add	
2600	PROSPECT DATE CHANGED	SYOTER	Date Chg, CC-ED	

- Delete Protection
- Case
- Data Lookups for linked files
- Validation Table for allowed values
- Blanks Allowed?
- Field Alignment
- Pad Character
- Storage Mask
- Data Storage Type
- Translatable?
- Documentation

### FILE TYPES

INDEXED

CONSECUTIVE

ONE-RECORD

### FIELD TYPES

ALPHA

DATE

DOMAIN

FORMAT

GROUP

GROUP

LOGIC

NUMERIC

SYNONYM

SUBSTRING

SYSTEM

TEXT

TOKEN

# Design...

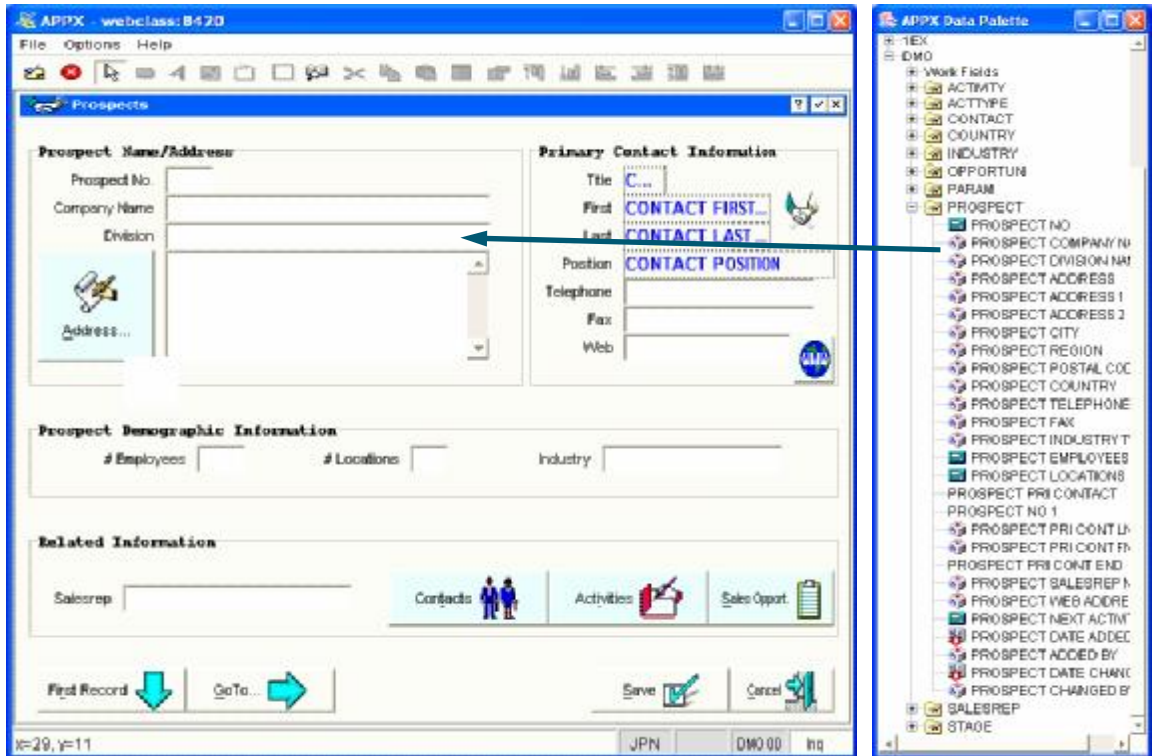
## IMAGE EDITOR

DESIGN TOOLS

IMAGE EDITOR

TOOLBOX

ILF EDITOR



The Image Editor

The Data Palette

Designing data entry screens, reports, special forms and inquiries are simple tasks with our innovative *Image Editor* and *Data Palette*. As you design your screens and reports, the Image Editor always shows you exactly what the result will look like when you actually run the process. This visual approach to application design is fast and efficient. Use your mouse to Drag and Drop data elements from the *Data Palette* to the desired location on the image. Toolbar buttons allow you to easily add buttons, icons, frames, and labels wherever you want them. An item's *Additional Attributes* can be easily changed to modify entry sequence or to edit display characteristics such as colour, font, point size, brightness, underlining, display mask, and many other attributes. The image editor provides all the tools you need to design functional and easy-to-use input processes. Menus, reports, and enquiries are also designed using the same powerful image editor. The APPX application design environment provides an easy-to-use, consistent design environment which is capable of quickly creating full-featured business applications.

## TOOLBOX

The *Process Design Toolbox* contains a variety of tools to make the design process even *easier and faster*. The interactive Reference Browser allows you to view all references within the process being designed. You can even “drill down” to the exact point where a reference occurs to review and/or edit it. You can use *Design Transfer* to copy all or part of existing processes to take advantage of existing application design components when designing new processes. You can run a syntax check on a process and you can immediately run a process to test it. This *Design and Run* approach to application design is unsurpassed for productivity! Design & Run! Change & Run! Enhance & Run!

# ...Fast



## INTEGRATED LANGUAGE FACILITY (ILF) EDITOR

APPX provides software designers with almost 100 high level commands to further customise applications according to business requirements and rules. Using the ILF Editor, statements are placed in strategic *Event Points* within a process, allowing them to be executed precisely when the designer wants them to be. Use them to perform complex calculations, edit user-entered data, run external subroutines or override normal execution to produce conditional screen displays or variable report formats.

The ILF editor is fully integrated with the data dictionary and your application processes. It provides real-time edit checking to immediately detect syntax errors. A variety of editing functions - including move, copy, search, and replace - make the ILF Editor an easy and efficient design tool.

- **Field Statements** to modify field values
- **Date/Time Statements** for special handling of date/time fields
- **Transfer of Control Statements** to branch, loop, intercept errors and invoke internal and external subroutines
- **Condition Test Statements** to make comparisons between field values
- **Image Statements** to display error messages and modify the normal entry or display characteristics of fields within input (data entry) and output (report) processes.
- **File I/O Statements** to create, scratch, read and modify data files.

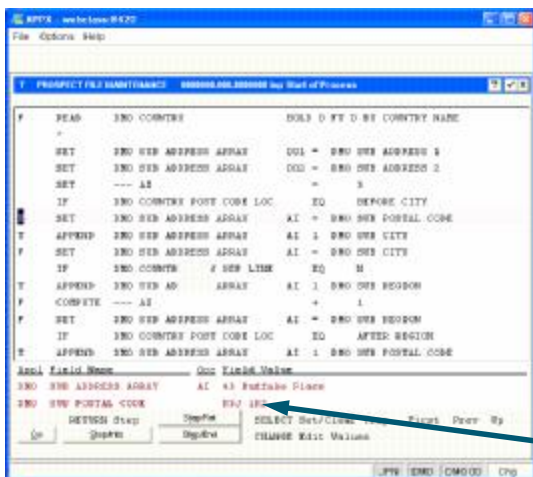


The Interactive ILF Editor

## ILF COMMANDS

- ACTION
- AND
- APPEND
- AT FIELD
- BEG AT
- BEG LOOP
- BEG READ
- BLANK
- BLINK
- BRIGHT
- BROWSE
- CALC
- CALL
- CANCEL
- CLOSE
- CNV BIN
- CNV TEXT
- COMMIT
- COMPUTE
- COPY
- COLOR
- CREATE
- DATE ADD
- DATE BTW
- DEFINE
- DELETE
- DIM
- DISABLE
- DISP
- DISPLAY
- ENABLE
- END
- END AT
- END LOOP
- END PROC
- END READ
- ERROR
- EXIT
- FONT
- GOSUB
- GOTO
- IF
- IF EXIST
- INPUT
- INQUIRY
- INVERSE
- JOB
- LABEL
- LOGOUT
- MENU
- MESSAGE
- NO INPUT
- NO ULINE
- NORMAL
- OK INPUT
- OPEN
- OR
- OUTPUT
- OVERFLOW
- PASS
- PICTURE
- POSITION
- PRINT
- QUERY
- READ
- READNEXT
- RECEIVE
- REFRESH
- RESTORE
- RETURN
- REWRITE
- ROLLBACK
- RUN
- SAVE PNT
- SCAN
- SCRATCH
- SELECT
- SET
- SET DATE
- SET DAY
- SET MNTH
- SET TEMP
- SET TOT
- STATUS
- STORE
- SUBR
- TIMEOUT
- TOTAL
- TRAP
- ULINE
- UNDEFINE
- UPDATE
- VERIFY
- WARNING
- WRITE

## INTERACTIVE ILF DEBUGGER



The Interactive ILF Debugger

Designing complex applications is not always problem-free which is why we have developed the powerful ILF Debugger. Use it to test and debug the logic in your ILF routines by stepping through the execution of any routine and analysing how each field value is affected by each statement. You control where and when the debugger operates by setting and clearing *traps*. Field values can even be modified by the designer to see the effect in subsequent processing. You can set watch points on any field, or go back and re-execute code, or even force APPX to execute code that was skipped.

View and edit field values while interactively debugging



# Deploy...

APPX is both your development environment and your runtime environment. APPX applications can be developed without regard to the environment in which they will be deployed. **Development independence** allows your application designers to focus on the functionality of your applications, not on the environment in which they will run.

At deployment time, your APPX System Administrator can choose the best platform, the best DBMS, and the best desktop clients based on your business needs and preferences. **With APPX**, your deployment decisions are based on the needs of your business, not on the limitations of your software.

APPX offers a wide range of platforms, databases, and presentation methods.

*With APPX, your deployment decisions are based on the needs of your business, not on the limitations of your software*

APPX ENVIRONMENT CHOICES		
Application Servers	Data Servers	Clients
<b>RISC PLATFORMS</b> <ul style="list-style-type: none"> <li>• IBM RS/6000 (AIX)</li> <li>• HP 9000 (HPUX)</li> <li>• SUN (SOLARIS)</li> <li>• IBM AS400 (OS/400)*</li> <li>• DEC ALPHA (LINUX)</li> </ul>	<b>DMS</b> <ul style="list-style-type: none"> <li>• APPX-IO</li> <li>• C-ISAM</li> <li>• VISION</li> </ul> <b>RDBMS</b> <ul style="list-style-type: none"> <li>• ORACLE</li> <li>• SYBASE</li> <li>• DB2</li> <li>• ODBC</li> </ul>	GUI WINDOWS GUI JAVA BROWSER CHARACTER MODE
<b>INTEL PLATFORMS</b> <ul style="list-style-type: none"> <li>• WINDOWS</li> <li>• LINUX</li> <li>• SCO UNIX</li> </ul>		

## THE APPX CLIENT

The APPX Client can be run in a browser or as a standalone Java<sup>®</sup> application. The APPX client runs on Windows desktops as well as most other desktops which support Java<sup>®</sup> including Linux and Macintosh.

The APPX *Client in a Browser* technology allows your APPX applications to be easily accessed via the Internet from anywhere in the world. Our thin client technology provides complete integration between your APPX application, which is running on your server, and the user's desktop. Features include file transfer, remote printing, and remote launching of applications on the desktop.

These features combine to provide **seamless integration of your APPX application with the user's desktop**. For example, a user could select a menu item from a server-based application which would transfer a spreadsheet file from the server to the client and then send a command to the client telling the client to launch Excel using the file which was transferred to display a spreadsheet or a chart.

**The APPX Client is a thin client which uses TCP/IP to communicate** with the application server where all application processing takes place.

\* IBM AS400 - Check with APPX Software or your local Distributor for availability



# ...with APPX



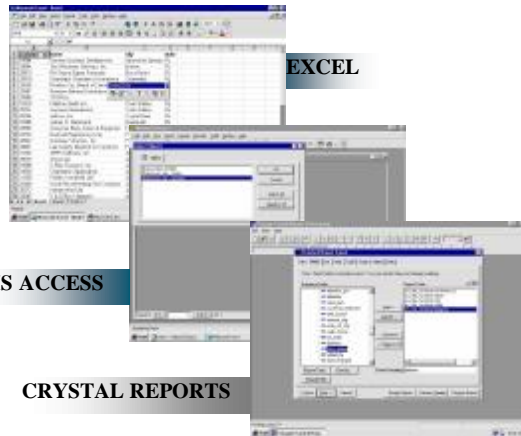
## DISTRIBUTED PROCESSING

Server Independence

Data Independence

Desktop Independence

Language Independence



Our standard APPX/NET feature allows your applications and your data to be distributed over multiple servers. APPX lets you decide where to locate your applications and your data, based on your business needs and preferences.

And, AppxODBC provides your Windows® desktop users with an easy-to-use ODBC interface that instantly connects office applications such as Access, Excel, and Crystal Reports with your APPX data . . . wherever it is.

## LANGUAGE TRANSLATOR

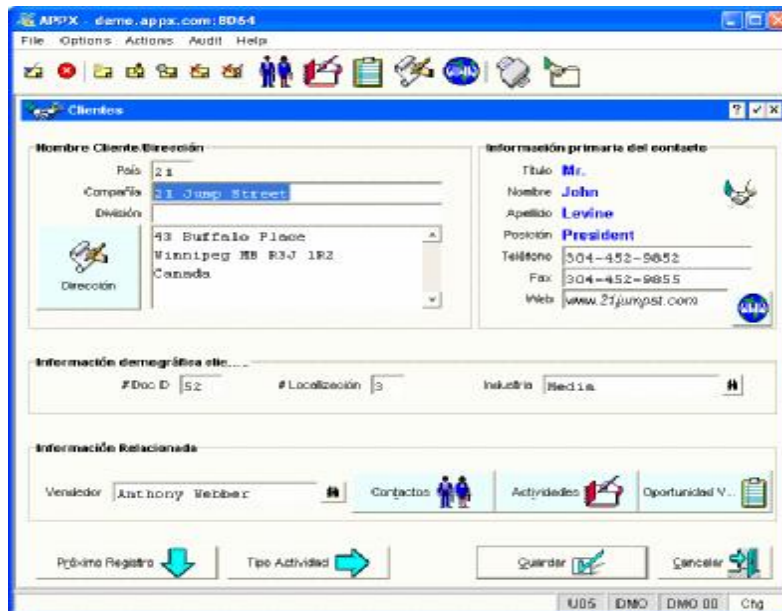
Distributed Processing

Distributed Applications

Distributed Data

*Parlez vous français?  
¿Habla usted el español?  
Sprechen Sie Deutsch?  
Lei parla l'italiano?  
De taler Norsk?  
Fala português?*

Design and maintain your APPX applications in one language, such as English, for example. You can then deploy your applications in as many languages as you need. English, German, French, Dutch, and Spanish are but a few. Regardless of which languages you elect to deploy in, you still maintain your applications in your chosen design language. Our Language Translator can take your business applications, regardless of the language in which they are written, and present them in almost any language you choose or the individual user chooses. Instantly.



Multiple Companies

Different Databases

Same Applications

*Design in English - Run in Spanish*

# Run...

Write it in APPX then run it in APPX! APPX is also your application runtime environment. APPX provides all of your applications with a common and consistent user interface to make them all function in the same manner. No more relearning of keys, icons, buttons, and procedures every time a new application is introduced. All applications look the same and run the same.

## APPX QUERY REPORT WRITER

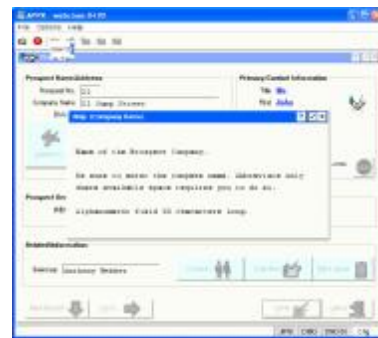
Users can design their own reports quickly and easily with the APPX Query Report Writer.

With this feature, users can:

- Select and paint fields onto reports
- Join files
- Designate control breaks
- Perform calculations on fields
- Define subtotals and grand totals
- Export the report to a Spreadsheet

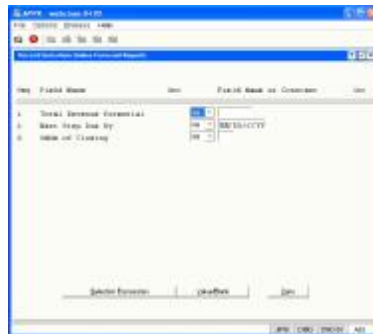
All without programmer assistance.

## ON-LINE HELP ANYTIME



## FLEXIBLE RUNTIME REPORTING

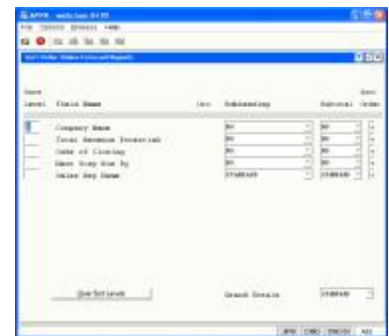
1.



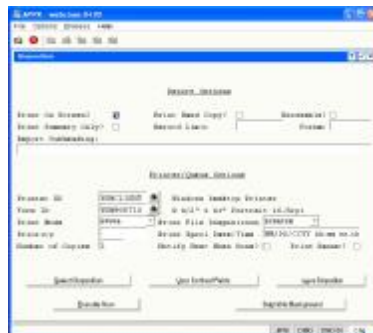
The *Sort Order Screen* lets users override the predefined report sequencing, change page breaks, specify control breaks for subheadings and subtotals, and include or exclude grand totals. Tailoring reports at runtime to get exactly what you want has never been so easy.

When reports or any printed material are run, the *Record Selection Screen* is the first of three screens to be presented. Users can specify which records will be included or excluded on the output so the results are *exactly* what is needed.

2.



3.



The *Print Disposition Screen* lets users:

- View the output on their screen
- Print the output to their default printer or other specified printer
- Save the report to disk
- Request additional copies
- Add a comment to every page
- Summarise the report to show totals only

# Maintain...



If your business applications are like most, “change” is a word that implies an enormous amount of work. Adding or expanding fields in files, adding columns or subtotals to reports, enhancing functionality of input screens or designing new forms.

Not with APPX. APPX is about *change*. About growing your business applications along with your business. Painlessly and almost effortlessly. APPX anticipates change.

## DESIGN & RUN

With APPX’s *Design & Run* feature you can make design changes to your business applications and then run them. No compiling or complex debugging. Just what you need, when you need it.

Of course, more complex changes may be performed in a test environment. APPX’s *Application Versions* allow you to maintain multiple copies of the same application. A “live” version for production users, one for “beta” testers, and another for enhancements-in-progress.

Whatever your design philosophy, APPX can accommodate it and make your business applications design process run as smoothly and efficiently as possible. With APPX, the choice is always yours.

## RESTRUCTURE

Need to add a field to a file? Make that customer number six digits instead of four? Having to write programs to read the old file’s records and move them, field by field, to the new file’s records? Not with APPX! Just make your Data Dictionary changes and let APPX take care of the rest.

- Click a button to automatically restructure files with changed layouts
- Get notification of other files referencing changed domains
- Changed fields on reports, inquiries, and input screens automatically adapt

## CHANGE TOOLS

CHANGE ALL REFERENCES

DESIGN TRANSFER

CROSS-REFERENCE

CHECK FOR ITEM OVERLAP

RESTRUCTURE FILES

CONVERSION UTILITIES

DOCUMENTATION AIDS

SECURITY MANAGEMENT

## DESIGN TOOLS

Change is never easy . . . unless you’re changing applications written in APPX. With its wide array of designer tools, application modifications *are* easy! Use the *Design Transfer* utility to copy entire applications to new applications or versions, or copy individual files, fields, processes, images, and even sections of procedural code. Use the *Cross Reference* feature to interactively find, review, and edit all references to a selected application, file, field or process, or use the *Change All References* utility to do it globally and immediately. *Print Technical Documentation* any time you need it. APPX gives you everything you need to make the change process fast and easy.



# Manage...

## APPLICATIONS

### DATABASES



The number of APPX applications you can design and run are limitless. Our Application Manager makes it easy to organise and administer applications and their multiple versions.

## SECURITY

APPX provides up to 10,000 security classes that can be used to restrict user access to specific components of the system. Different combinations of selected security classes are stored in *Security Profiles*. Each profile can be assigned to one or several users to guarantee that files and processes are properly secured.

Security can be applied to:

- Files
- Records
- Fields
- Menus
- Jobs
- Processes

Because the combinations are limitless, so are your security options.

### USERS



## DATABASES

Via APPX's built-in Database Manager, you can:

- Maintain the APPX Data Dictionary
- Create files in specific directories or folders
- Restructure files
- Scratch files
- Import files
- Export files

With APPX, you can even maintain several different databases for the same application, which you will find is perfect for multiple companies, divisions, or locations.

## PRINTING

### SECURITY



Printers and special forms are defined in APPX to make it easy for users to direct their print jobs to the most convenient locations and paper types. Printers and forms are easily selected from drop-down or scan lists when running reports or other printed materials.

### PRINTING



## USERS

By defining which users have access to the APPX environment, you can also assign specific rights to each user:

- Application Design
- Database Management
- Documentation

These rights can be applied to all applications and databases or any desired combination, even just a single version of one application.

## LANGUAGES

Default Presentation Languages can be defined by the System Administrator at the level of your choice:

- System wide
- By Application
- By Database
- By User

### LANGUAGES



# Integrate...

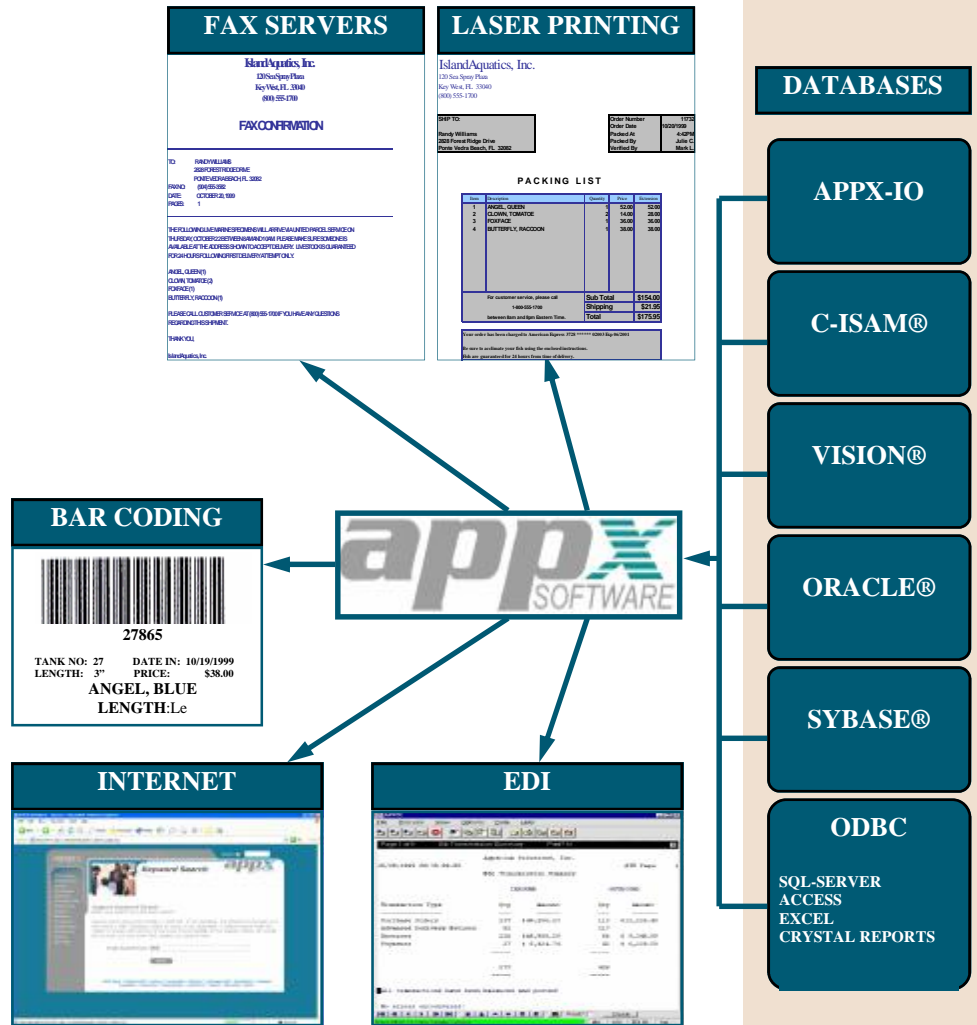


Other business application packages may look great and work great but it is often impossible to utilise the latest technologies with such proprietary solutions.

You will not experience this problem with APPX because APPX is designed to work with almost any other technical solution available today.

The APPX IO file management system is fast, but you may still want to store your data in a RDBMS. If you want to use office automation tools such as MS Access, Excel, or Crystal Reports for creating documents or reports, your APPX data is readily available through the ODBC interface. Email and fax APPX output directly from the applications or access APPX files directly from your Web-based applications. Print high quality laser forms and get rid of all those expensive and archaic-looking pre-printed forms. Trade transactions electronically with your business partners using APPX and your favourite EDI software. For your input-intensive inventory applications, create bar-coded labels and documents directly from APPX output, and then scan them right into APPX input processes using fixed scanners or Radio Frequency Data Collection (RFDC) devices.

Also, remember that APPX integrates seamlessly with the desktop. The desktop Java Client can transfer files to and from the server, and open desktop applications under your control.



\* Some integration capabilities require the purchase of third party products.

# Applications

## BUSINESS APPLICATION FOUNDATION TEMPLATES

### INDUSTRY-SPECIFIC APPLICATIONS

- Banking
- Commercial Printing
- Consumer Affairs
- Contractors
- Distribution
- Education
- Engineering
- Financial Planning
- Government
- Healthcare
- Insurance
- Manufacturing
- Non-Profit Agencies
- Personnel Placement
- Retail
- Sales
- Telephony
- Trade Associations
- Training



APPX offers a complete suite of business application foundation templates that have been designed with APPX. These APPX applications are available individually or as a suite of fully integrated applications, and can get your business up and running *fast*. While these applications are ready to run, they are also designed to be changed and can be readily customised to meet your exact requirements today and into the future.

In addition to being easily modifiable and maintainable, these applications offer unsurpassed security, include significant functionality and can be run in character mode or with our GUI Client.

APPX's innovative technology and the Business Application Foundation Templates can get your business up and running quickly and with a minimum of effort.

## INDUSTRY-SPECIFIC APPLICATIONS

APPX customers all around the world are running a wide assortment of industry-specific business applications that have been developed in APPX. These solutions can be readily customised to meet your particular needs and take full advantage of all the latest available technologies. Whether you have a single user or more than a thousand, these APPX applications are scalable to meet your needs.

Regardless of your company's industry or size, there's an APPX solution available for you.

For more information, simply contact CWI or any APPX authorised reseller.

# Support



We know that with a fully-functional and multi-faceted array of technical support\*, our clients and resellers will utilise all the features of APPX and realise all the benefits that APPX has to offer. Just look at all the different ways we make sure you get everything out of APPX you expect . . .

## WEB SITE

The APPX web site provides a variety of support features including FAQ's (Frequently Asked Questions), on-line manuals, a support issue database, downloadable software including the newest versions of APPX and technical publications. Because of its ease and convenience, [www.appx.com](http://www.appx.com) is a favourite with clients *everywhere*.



## MESSAGE BOARD

A web-based message board allows users in the APPX community instant access to the experience and expertise of APPX users all over the world.

The message board offers threaded topics, search capabilities, daily e-mail updates, and more. It provides features that will facilitate communication between APPX customers, resellers, and hobbyists. Everyone is invited to join the conversation, or just visit and "lurk" for a while.

## TRAINING

A full selection of APPX classes for designers is offered at levels from beginning to advanced. Expert APPX trainers interact with an international roster of students in a fully-functional computer lab, sending them back to work with the technical and design skills needed to deploy APPX and the wide variety of benefits it has to offer their companies.

Class schedules are posted on our web site and, since classes fill up fast, advance reservations are recommended.

## CONFERENCES

Periodic APPX conferences are hosted and draw an international consortium of APPX companies. Feature premieres, user networking, educational sessions, round-table discussions, and planned social events make APPX conferences not-to-be-missed events.

## SOFTWARE UPDATES

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