# Entrypoint® i4

**Intelligent data capture software**

## Entrypoint® i4 — Product Description

### Advanced Data Entry Software

Entrypoint i4 is a complete system for creating, deploying, and administering customized intelligent data capture applications that serve as on-screen forms. The product has a built-in database but can interact with MySQL or Microsoft SQL Server.

Entrypoint has three components: Application Studio, System Manager, and Workstation. The System Manager and Workstation components are available in a web browser interface. The Application Studio is available as a desktop application. There is also a Desktop Workstation that includes the same functionality as Web Client and adds data verification and key-from-image.

### Rapid Application Development

With the Application Studio, developers can easily create a wide variety of custom data entry applications. Applications can include built-in validation, editing, and export options.

Features such as range checks, table lookups, duplication, and check-digit validation criteria are built into Entrypoint, making their implementation quick and easy.

Entrypoint also comes with EntryPointScript, its own programming language, allowing for nearly limitless customization. EntryPointScript is similar to Javascript. The Application Studio provides powerful design capabilities without scripting, but you can use EntryPointScript to customize your applications and make them even more powerful.

### Data Entry Accuracy

The data entry Workstation ensures data integrity through data checking during each phase of data entry. Special features include immediate error detection and flagging, re-key verification (local desktop client only), data retrieval, and validation from lookup tables.

### Key-from-Image Option

Entrypoint has an imaging feature that lets you link a PDF to an application and add zones corresponding to fields. When the cursor enters a field, the matching zone is highlighted. During key-from-image sessions, the image appears in one window and the application in another. Or you can make the image window semi-transparent, to maximize screen real estate.

### PDF Output

You can output an application as a PDF to print out and use as a paper form. The completed forms can then be scanned in and keyed using Entrypoint's imaging feature. You can also output completed records as filled-out PDF forms.

### Data Export

Entrypoint exports data to such formats as text (using a customizable text-based output specification), Microsoft Excel (CSV), XML, PDF and SAS.

### Special Features for Clinical Trials

- *Internal security features:* Create a customized, fine-grained security policy specific to your needs—independent of security provided by the operating system. Control access to modules, batches, batch utilities, reports, and records.

- *Audit Trail Facility:* Keep records of all data entered in a batch, who made the entries, and when they were entered. Track all changes to the batch by operator and time the changes were made. The audit trail facility also records operator comments on the changes.

- *Application revision:* Update a protocol during an ongoing study and revise batches after the new version is deployed.

- *CRF templates:* Choose from data entry screens for demographics, medical history, examination data, adverse reactions, and lab information or use the entire application. Use the screens as-is or modify them to fit your study.

### Powerful Administrative and Security Options

As a system administrator, you can manage user and security profiles and control access to different parts of the system by user or groups of users, making the implementation of complex security policies a simple task.

### Documentation

Entrypoint i4 comes with clear and concise reference material, including online help, a quick-start document and a step-by-step tutorial that will have you designing and using your own applications in just a few hours.

*This software has been validated and conforms to current guidelines prepared by the U.S. Food and Drug Administration, as published in the code of Federal Regulations Title 21, Part 11.*

# Entrypoint i4 — Feature Overview

## Application Development

- Tools for creating fields and graphic elements
- Tables for defining field attributes, lookup tables, data ranges, and field masks
- Fully customizable user interface (menus, messages, help screens, and defaults)
- Data entry screen field sequencing options
- Support for templates
- Support for simultaneous development of multiple applications and formats
- Easy application modification
- PDF output for paper studies

## Data Entry

- Unlimited amount of text in comment fields
- Immediate error detection and flagging
- CORRECT command for locating error flags
- Required fields
- Default data values
- Input storage and retrieval
- Data retrieval and cross-checking from lookup tables
- Customized prompts, error messages, and help screens
- Data import option
- Key-from-image

## Data validation

- Double-entry validation (local desktop client only)
- Date checks for date fields
- Table lookup for data comparison
- Valid and invalid value ranges
- Format linkage for data cross-checking
- Batch accumulators

## EntrypointScript Programming Language

- Extensive, built-in EntrypointScript functions, including SQL query functions
- Triggers at every data entry step for execution of custom actions
- Data-dependent field and format sequencing
- Date and time manipulation
- Direct access to batch variables, data, and operator statistics
- Web-level API allows for integration with third-party systems

## Communications

- High-performance architecture
- Multiprocessor scalability
- Remote data entry

## Supervisory functions

- Real-time monitoring of operator activity
- Audit trail reports
- Operator keystroke statistics

## Security Functions

- Fine-grained security policies
- File and function access control
- Audit trails

## Design Parameters

- Unlimited fields and formats per application
- Unlimited user-defined error messages per format
- Unlimited characters per output file

# Entrypoint i4 — Support Services

## Technical Support

We provide our maintenance customers with free, unlimited technical assistance during all phases of application design and workstation operation. You can reach our Entrypoint i4 experts via email, fax, or telephone.

## Product Updates

Entrypoint i4 is updated on an annual basis and as needed throughout the year. All product updates are free of charge to our customers with maintenance agreements.

## Design Consultation*

Our staff works with customers to analyze their needs and help develop and implement technical specifications for Entrypoint i4 applications.

## Other Services*

Consultants familiar with Entrypoint can help you build SOPs, validate software, host data, input information, create top quality certificate databases and process maps.

*Not included with maintenance agreement.

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