

JACi400 Conversion	JACi400 Development	JACi400 Generator
Automatic conversion of all existing 5250 applications in HTML (RPG, Cobol...)	New HTML applications directly in RPG (Cobol) without 5250 limits and without Java	New HTML standard database applications automatically generated

**JACi400 Deployment**

Printer	Emulation	Office	Download	Web 2.0
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WebSphere Application Server / Tomcat

JACi400 Portlet for WebSphere Portal

## JACi400 - Generator

A solution to generate automatically  
your  
System *i*  
Internet Applications



[www.systemobejcts.com](http://www.systemobejcts.com)

432 Park Avenue South, New York, NY 10016 USA

Tel: (212) 295 2124 Fax: (212) 295 2125

[www.systemobjects.com](http://www.systemobjects.com)

## C O N T E N T S

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## 1. Introduction

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Internet is forever!

Enterprises will use the Internet to communicate more easily with their market.

They will use Internet for the communication with public users and Intranet for their private network.

For the users, Internet is easy to use with only a browser and an Internet connection.

From a laptop, a PDA, new phones...

Also « Portal » technology let them offer a wide range of services to their users with a unique and secured access point.

Enterprises will need to develop quickly these applications.

For them there are two keywords: RAD (Rapid Application Development) and HTML.

Since 15 years SystemObjects is focused on RAD tools for iSeries and today **JACi400 Generator** is our answer to this need.

It's a Rapid Application Development Solution to create Internet applications for the Java environment and for iSeries I5.

The main characteristics of JACi400 Generator are:

- Up to 100% generation of the source code of HTML pages for the client side
- Up to 100% generation of the source code for the server program in ILE RPG (next version will offer to generate also server programs in Java)
- Generation of SQL access to the data bases
- Utilization of an Application Server like WebSphere Application Server, Tomcat or even WebSphere Portal

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## 2. JACi400 – Generator. Presentation

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The target of **JACi400 Generator** is to create quickly robust applications for the Internet using:

- IBM WebSphere Application Server
- Tomcat
- IBM WebSphere Portal (with JACi400 Portlet)

Depending on the complexity of your business rules, **JACi400 Generator** will generate all or only a part of the code of your programs.

The objective is to create all the standard and fastidious lines of code and to let you only the “intelligent” part of the coding of your applications.

The source code generated can be enhanced.

For example:

- A modification of the HTML presentation generated by JACi400, this can be done with any standard HTML tool,
- Adding your own « javascript » programs in the HTML pages,
- Coding the complex business rules in the server program.

With a graphical IDE (Integrated Development Environment) you will design your applications and **JACi400 Generator** will generate it.

The main benefits of **JACi400 Generator** Applications are:

- Applications generated quickly and error free,
- A source code that you can enhance with standard tools,
- The automatic generation of all the code to handle:
  - The presentation of your data,
  - The users’ navigation in your applications,
  - The update of all your data bases,

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- The standard controls to update your data,
- And more...
- “State of the art” applications with a complete separation between presentation and application logic,
- Applications with your own graphical chart included in the templates that you can build,
- Easy to maintain applications:
  - Modification of your design in the IDE,
  - Re-generation of your applications.
- In case of re-generation, the modification you made in the source code are saved for the new version created by JACi400 Generator.
- Your applications can be used immediately with:
  - WebSphere Application Server,
  - Tomcat,
  - WebSphere Portal.

### 3. JACi400-Generator. How it works?

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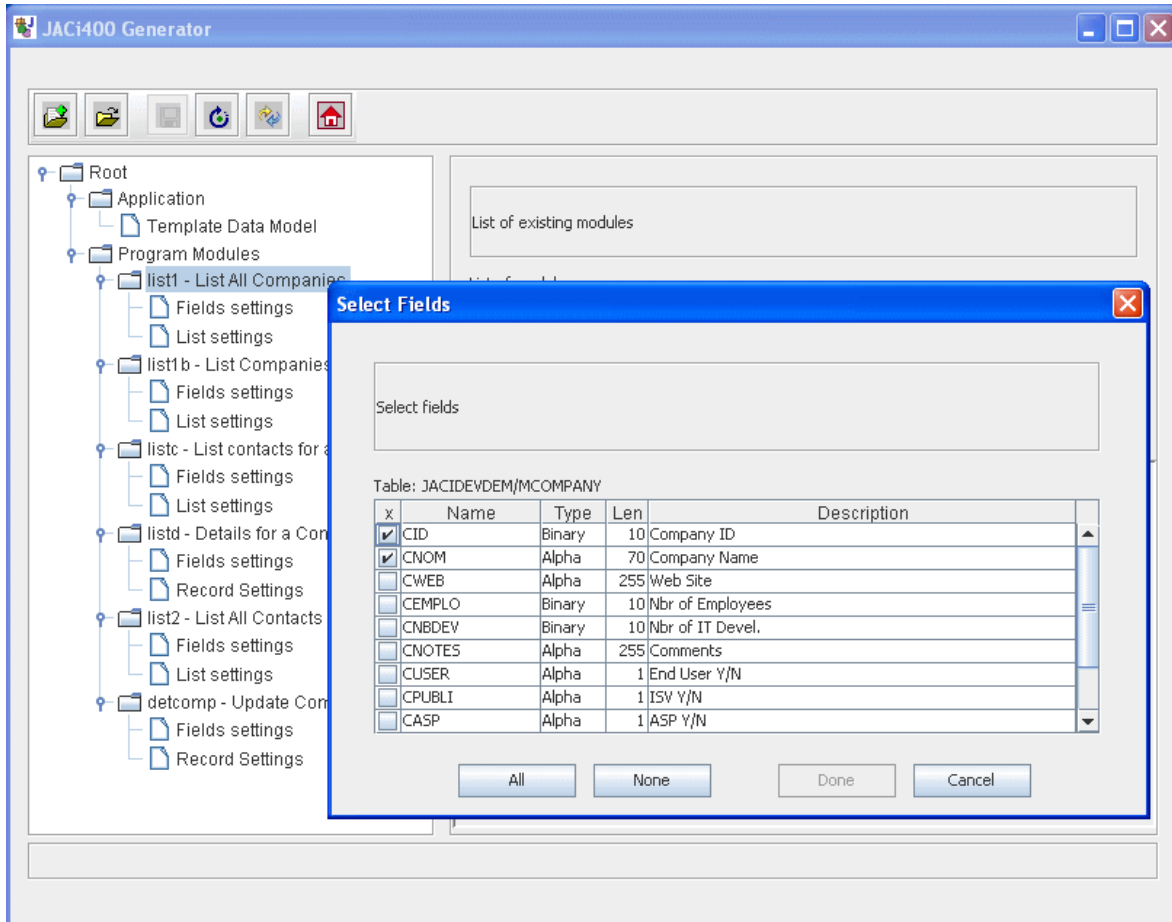
Using the graphical IDE you will design all the characteristics of your application.

**JACi400 Generator** will create:

1. The HTML page for the client side of your applications using your own template,
2. The source of the server program.

An application is built using several modules.

A module is compound of one HTML page and one server program to handle this page.



A screen shot of the JACi400 Generator IDE

A quick list of the different steps to create an application with JACi400 Generator:

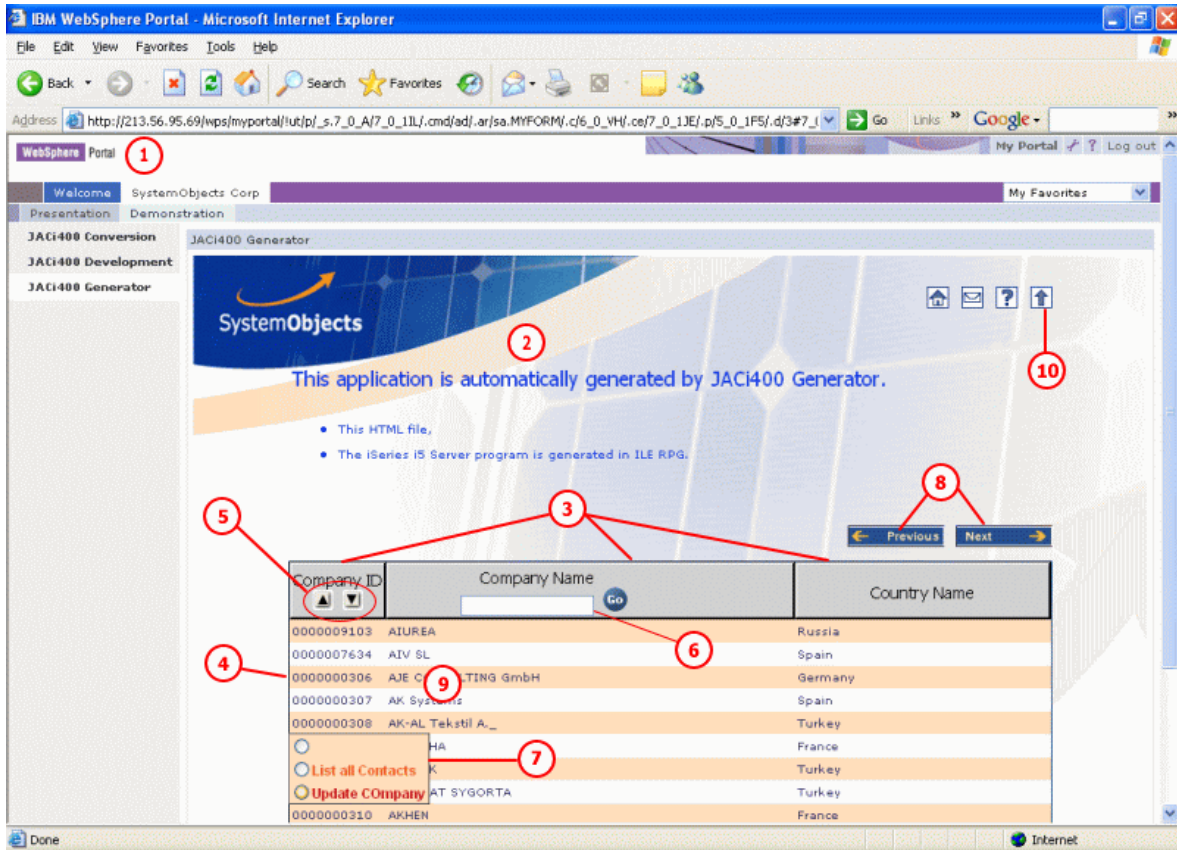
1. Define the general parameters of your application like the name of the application, the IP address of your i5 server, the address of your application server...
2. Define the data model of your application: table(s), joins, columns, order...JACi400 will build an SQL statement,
3. Choose the type of your module, list of records, update of one record...
4. Define the presentation of your data like:
  - Columns header and style of their presentation (HTML classes)
  - Columns that can be sorted by the user,
  - Number of lines displayed on each page,
  - And more...
5. Define the actions to proceed when the user click one object in your page like:
  - Display next page or previous page,
  - Call the module « XYZ » with or without parameters,
  - Check this column value in a reference table,
  - And more..
6. **JACi400 Generator** creates the HTML page,
7. (Optional) Enhance the HTML page to include for example your own « javascript » programs,
8. **JACi400 Generator** creates the source code of your server program in ILE RPG,
9. (Optional) Enhance the program generated to include for example your own business rules,
10. Compile and deploy, your first application is ready to go.

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In this typical application **JACi400 Generator** has automatically created:

1. An application for WebSphere Portal, (or WebSphere Application Server or Tomcat)
2. With your own graphical chart
3. The SQL statement to select and display the columns you have chosen
4. The presentation of your pages with the number of lines you have chosen
5. The columns the user can sort by clicking the up and down icons
6. An automatic positioning in the table for one or several columns
7. When the user clicks, JACi400 displays the list of options you designed and will call the program you choose. If there is only one choice the program is directly called, there is no display of the list. The called program can receive one or more parameters coming from the selected line
8. The fetch and the display of next and previous page of records
9. The utilization of different HTML classes to display the lines and to make the « rollover » effect
10. The end of the program and the return to the calling one

## SystemObjects Corporation

432 Park Avenue South  
New York – NY 10016  
USA

☎ (212) 295-2124

☎ (212) 295-2125

✉ [info@systemobjects.com](mailto:info@systemobjects.com)

## SystemObjects International Ltd.

Devlin House  
36 St George Street  
Mayfair - London W1R 9FA  
United Kingdom

☎ +44 (0) 20 7529 1467

☎ +44 (0) 20 7529 1468

✉ [info.uk@systemobjects.com](mailto:info.uk@systemobjects.com)

## SystemObjects Europe

7 Rue Traversière  
94573 Rungis Cedex  
Paris - France

☎ + 33 (0)1 41 80 09 09

☎ + 33 (0)1 41 80 09 08

✉ [info.fr@systemobjects.com](mailto:info.fr@systemobjects.com)

## SystemObjects Japan

Migaro Co., Ltd.  
Shinsaibashi Bldg. 9F,  
1-2-4 Nishi shinsaibashi,  
Chuoku, Osaka-shi -  
Osaka Japan

☎ + 81 6 6251 8601

☎ + 81 6 6251 8603

✉ [info@migaro.co.jp](mailto:info@migaro.co.jp)

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2007 - Oct

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