



iSeries2web

Use RPG to build web applications!

The RPG web tool iSeries2web from Framework Systems secures the longevity of business critical AS/400 (iSeries) applications by meeting the demands of the next generation regarding GUI, browser integration, e-business, security, flexibility and multiple on-screen languages.

iSeries2web is a toolbox extending RPG with built-in functions using HTML instead of DDS (i.e. no need for JAVA, servlets, scripting etc.). Re-engineer your RPG with iSeries2web.

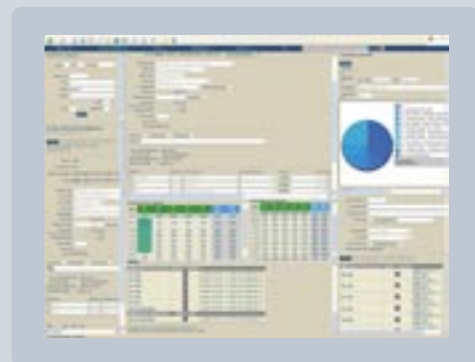
And... TCP/IP socket, XML import/export, Pocket PC etc.

```
if          rtvxmldoc('control':*on)
eval      wk_control=fs_xmldoc

eval      abreqfunc = rtvvara('function')

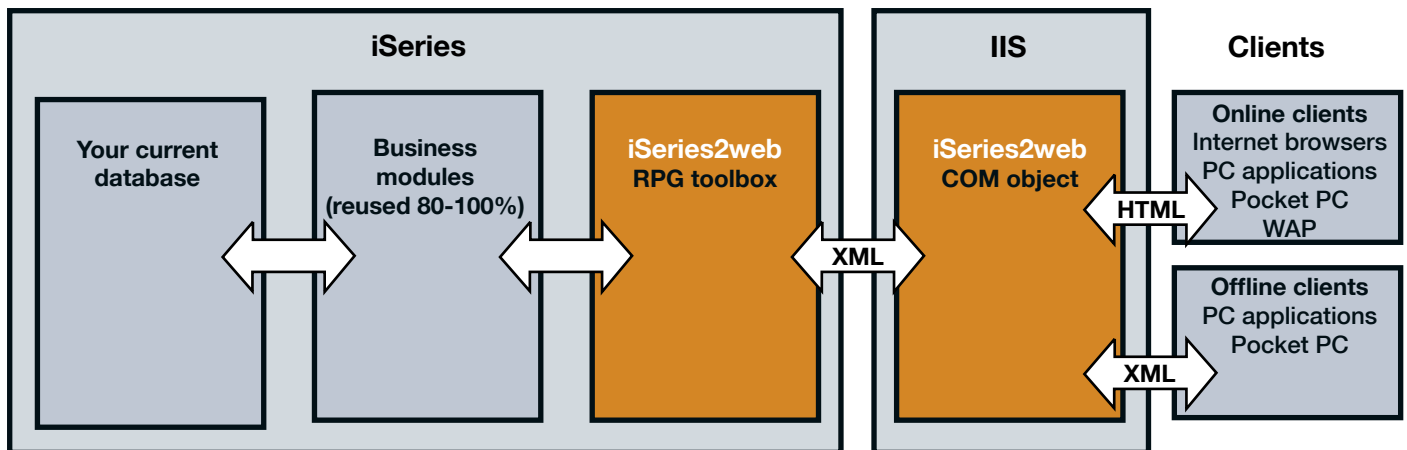
dow      rtvxmlrec(*on)
eval     fs_dsparm=fs_xmlrec_ptr
eval     fs_dsparm=save_ds_ptr

if        PutXmlRcd('orderline':linedata)
callp    dspmsg('Errors occurred':alarm')
endif
```



Framework Systems is a Scandinavian consultancy and IT systems house focused on business development and industrial oriented software solutions

Infrastructure setup



Technical specifications:

- Requires min. OS/400 version 4.5
- Windows 2000 IIS

Client -2- Web-server (IIS)

- Strong encryption (industry standard: SSL currently 128 bit)
- Internet Explorer 5.01 and higher (or compatible)

Web-server (IIS) security (Advanced Win2000)

- No business application information is stored
- No access to application design (HTML templates)
- HTTP and HTTPS (SSL) communication with client is possible
- No binary executable code (prevents common attacks)
- Compatible with IIS standard security system (incl. future Microsoft updates and patches)

Application server (iSeries)

- Proprietary TCP/IP connection to web server
- No direct data connection to web server (no data leak / data access) e.g. ODBC, SQL etc.
- Proprietary protocol with XML

Features in iSeries2web

- Use of multiple frames in the browser
- No special HTML or Java-script functions (can e.g. be used on many different browser types)
- Drag 'n' drop between frames
- SSL level security
- No data is stored on the browser
- Keys linked to the user, session, system ensure authorized access only
- On-the-fly language generation
- Built-in text translation system and multi languages access
- Same application to multiple countries/languages with one single HTML page
- Reuse 80-100 % of the business logic from existing green screen solutions
- True Portal front-end, where other applications can be implemented e.g. e-mail, web search, vendors etc.
- True TCP/IP protocol, e.g. no ODBC or other »direct data connection«, i.e. high security
- Reuse same program models for intra / internet applications
- Integrated menu system with drop-down
- Built-in user maintenance and authority levels
- Includes all the tools necessary to build own applications
- Uses XML to communicate between web server and iSeries backend
- Runs in batch, no interactive features necessary on the iSeries
- Every transaction is logged with user, data, request, date/time etc.

Examples of built-in functions in the iSeries2web toolbox

Description	Built-in function
Generates value in XML format, etc.	XMLN, XMLA, etc.
Generates a button, checkbox, list box, radio button, etc.	XMLB, XML CB, XMLL, XMLR, XMLD, XMLT, etc.
Retrieves values of - alphanumeric, numeric, checkbox, date, time, etc.	RTVVARA, RTVVARN, RTVVARCB, RTVVARD, RTVVART, etc.
Sends the information into the XML documents (transfer to web server)	PUTXML(document)
Generates a messages into XML documents (for display)	DSPMSG
Generate numbers in sequence	GENNUM
Formats dates, time, numbers for screen display (controlled by system setup)	FMTD, FMTT, FMTN
Uses function-to-program setup to execute the correct modules	CALLFUNC