

# Easycom For PHP API Functions.

Easycom For PHP is a regular PHP extension. It is made of a loadable module, referred in the "PHP.INI" configuration file.

When Easycom For PHP is installed on a PHP server, a set of functions become available for the web application.

All Easycom For PHP API function names have the prefix **i5\_**.

## Connection:

i5_connect ()	
i5_pconnect ()	
i5_set_property ()	
i5_get_property ()	
i5_close ()	
i5_pclose ()	
i5_adopt_authority ()	
i5_transaction ()	
i5_commit ()	
i5_rollback ()	
	PHP Script can connect to multiple AS/400 systems, or multiple jobs on AS/400.
	A Web session can get a <b>private persistent connection</b> . All the scripts across the web session will connect to the same job on OS/400. The environment is maintained, with its QTEMP library.
	Active programs keep their local data and open files.

## Program and Procedure calls

	Easycom can call any <b>RPG, CL, C or COBOL Program</b> or <b>ILE Procedure</b> , from a PHP script, on any platform (Linux, Windows, IBM i).
i5_program_prepare ()	Parameters are passed to the called program or procedure.
i5_program_prepare_pcml ()	Caller retrieve parameter values on return.
i5_program_call ()	Program interface is locally described by the script, or externally described in a PCML file.
i5_program_close ()	
	PHP application also call <b>System APIs</b> .

## Commands and System values

i5_command ()	
i5_cmd ()	
i5_cmdget ()	
i5_remotecmd ()	
i5_get_system_value ()	
	Call CL commands (*CMD Objects), passing parameters, and retrieving potential result variables.

## SQL Queries and Procedures

i5\_query ()  
i5\_prepare ()  
i5\_setparam ()  
i5\_execute ()  
i5\_next\_result ()  
i5\_affected\_rows ()  
i5\_free\_query ()

Queries and stored procedures are executed in the AS/400 job associated to the connection.

When the connection is **Persistent and Private** for the PHP session, Queries can access overridden files, and QTEMP library.

## Native Database Access

i5\_open ()  
i5\_seek ()  
i5\_match ()  
i5\_range\_from ()  
i5\_range\_to ()  
i5\_range\_clear ()  
i5\_edit ()  
i5\_addnew ()  
i5\_update ()  
i5\_delete ()  
i5\_setvalue ()  
i5\_cancel\_edit ()  
i5\_new\_record ()  
i5\_update\_record ()  
i5\_delete\_record ()  
i5\_free\_file ()

Easycom provides a native record level access to DB2 physical and logical files.

PHP applications act on DB2 tables exactly like a native program compiled on AS/400, not using SQL features.

PHP developers fetch data from native open files, in the same way they fetch from SQL queries, using i5\_fetch\_xxx() function calls.

Files are open in the job associated to the connection.

When the connection is persistent and private, files can be overridden, or created in QTEMP. Properties and overrides are maintained across the PHP script execution.

## Fetching and setting data

i5\_fetch\_row ()  
i5\_fetch\_array ()  
i5\_fetch\_assoc ()  
i5\_fetch\_object ()  
i5\_result ()  
i5\_getblob ()  
i5\_setblob ()  
i5\_setparam ()  
i5\_getparam ()  
i5\_bookmark ()  
i5\_bind\_param ()  
i5\_bind\_result ()  
i5\_num\_rows ()  
i5\_seek ()  
i5\_data\_seek ()  
i5\_match ()

Like any other database PHP extension, Easycom for PHP provides a set of functions to retrieve database record values, and move it to PHP variables and arrays.

All AS/400 – IBM i data types are supported. PHP developers don't have to care about data conversion, and special OS/400 decimal formats.

## Columns & parameters information

i5\_num\_fields ()  
i5\_get\_keys ()  
i5\_list\_fields ()  
i5\_field\_len ()  
i5\_field\_name ()  
i5\_field\_type ()  
i5\_field\_scale ()  
i5\_info ()

Easycom gives all the information and properties about database fields, data types, size, ...

## Data Queues

i5\_dtaq\_prepare ()  
i5\_dtaq\_send ()  
i5\_dtaq\_receive ()  
i5\_dtaq\_close ()

With Easycom, a data queue has a record format. Data is converted according to the description.  
All the data queues are accessed, keyed or not.

## Data Areas

i5\_data\_area\_create ()  
i5\_data\_area\_read ()  
i5\_data\_area\_write ()  
i5\_data\_area\_delete ()

All data areas can be read and write from a PHP application.  
With a private connection, the local data area (LDA) can be maintained along the PHP session.

## User Spaces

i5\_userspace\_create ()  
i5\_userspace\_prepare ()  
i5\_userspace\_get ()  
i5\_userspace\_put ()

Read data from User spaces, and Write data.  
Data is converted according to the given description.

## Spool Files

i5\_spool\_list ()  
i5\_spool\_list\_read ()  
i5\_spool\_list\_close ()  
i5\_spool\_get\_data ()

Spool file data is retrieved, and returned to PHP script as character strings.

## Jobs

i5\_job\_list ()  
i5\_jobLog\_list\_read ()  
i5\_jobLog\_list\_close ()

List active jobs, and retrieve job properties.

## Objects

i5\_objects\_list ()  
i5\_objects\_list\_read ()  
i5\_objects\_list\_close ()

List objects from libraries, and get the properties.

## Job Logs

i5\_jobLog\_list ()  
i5\_job\_list\_read ()  
i5\_job\_list\_close ()

Retrieve the job log

## Error Handling

i5\_errno ()  
i5\_error ()  
i5\_errormsg ()

The PHP program can receive the original native error message (CPFxxxx) sent by the AS/400 connection job.