

Wyncs - Web Sync Solutions
Software Development Kit
and Plug-In Field Maps

Version 6.0

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Wyncs - Software Development Kit

Version 6.0

Wyncs - Web Sync Solutions

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Thank you for choosing Wyncs - Web Sync Solutions. We hope that the Wyncs software package will provide enhanced functionality for Web Sites around the world.

You are well on your way to creating USEABLE links for your website that visitors will greatly appreciate.

- The Wyncs Development Team

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Part



1 Introduction



Thank you for choosing Wyncs Web Sync Solutions.

Wyncs represents a bundle of software designed to instantly transfer data from a web site to Palm Desktop or MS Outlook. It supports the four standard 'data' types used by MS Outlook and Palm OS including Contact, Calendar, Memo, and To-Do classifications. Web Site owners and developers can place 'syncable links' on their sites that immediately result in a more useful, and functional site. Using this innovative 'grab-and go' concept, site visitors can quickly sync anything from News Headlines, Weather, Business Contact Information, and Scheduled Events, which can then be read or referenced at the reader's convenience. No longer will visitors be limited to using the cut and paste method for retrieving important data, but will now have the option of simply clicking and syncing well placed WYNCS icons (or links).

At the core of the Wyncs software bundle are the Internet Browser Plug-Ins supporting all the major browsers; MS Internet Explorer 4 and above, and Netscape 4.2 and above. These plug-ins are quick to download (approx. 500K) and install on demand when required by the web site. The plug-ins are intuitive, and simple to use, with minimal interaction necessary by the end user. Built-in support for multiple Palm Users, Multiple Outlook Profiles, Public and Private Outlook folders, and on-the-fly Outlook folder selection are just a few of the enhanced features of our latest plug-ins.

The Wyncs SDK allows you, as a web site developer, to dynamically create wync data to be sent to the Wyncs Plug-In. You are open to using ANY scripting language, and can access your data from ANY source. Your Web Server needs NO special requirements, or configuration. If you are currently designing and hosting dynamic web site content pulled from a database then you are capable of integrating Wyncs into those sites! So, the sooner you get started, the sooner you and your site's visitors can enjoy the benefits of syncing that data directly into their Calendar, Address Book, or other personal information area.

We hope you enjoy the software, and your comments are always welcome at jason@schedulestar.com.

For new product updates, news, and information regarding the Wyncs - Web Sync Solutions software bundle please visit <http://www.wyncs.com/>.

1.1 Web Site Requirements

Because Wyncs is a browser plug-in, there are no special requirements for your web server or host. As long as your server can serve web pages, it can serve Wyncs!

To Dynamically create wync data you will need to have configured your server to run scripts (of ANY language- PHP, Perl, ASP, CFM, etc.). You will also need a 'data source' to pull data from. ANY data source will do- MySQL, DBase, Comma-Delimited files, etc.

To serve Wyncs from your server you must first upload some necessary files to the site...

1.2 Configuring Your Web Site

Before visitors can begin taking advantage of Wyncs on your site, you will need to configure your site for use with Wyncs.

Wyncs has taken a different approach to the access of our plug-ins than, say Macro media Flash. We provide you the ability to host and "serve" the plug-ins from your site. This saves overall bandwidth by supplying the ENTIRE sync mechanism from your site. This also eliminates any hesitations about whether the Wyncs.com server is available to supply the end user with the browser plug-in.

The "Wyncs Plug-Ins Package" contains four files and is available for download at <http://www.wyncs.com/download/PlugInsPackage.zip>.

Separate from the "Wyncs Plug-Ins Package" is your "Domain License" file which you receive via email.

Upload the Necessary Files:

The default location for Wyncs files is /Wyncs (or the Wyncs directory, off your document-root directory). Note: You can place the files into any folder you wish, but you will need to edit the w.js file if you select a location other than the default.

Extract the PlugInsPackage.zip file in your document-root directory, the Wyncs folder will be created for you.

Place your "Domain License" file (received via email) into the same Wyncs folder created above. Note: You may have several different copies of your license file... place each one into the Wyncs folder.

Contact sales@kenner-price.com to request a 30-day trial Domain License.

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2 The 'Wync' Process

The process of transferring 'wync data' from a web site to the visitor is quite simple in terms of the pieces that are required. The Wyncs Browser Plug-Ins are what does the bulk of the work and this, of course, all takes place on the visitors PC. You, as the developer, only need to be concerned about sending the data to the Wyncs Plug-In, in the format that the Wyncs Plug-In requires. To accomplish this we break up the process into two steps.

The first step involves the building of, what we like to call, a data-dumper. This is a simple script that will 'pull' data from your data source, and then 'send' that data to the Wyncs Plug-In. This data-dumper is usually easiest to write by taking a current script that displays dynamic content as a web page, and modifying it to 'display' the data for the Wyncs Plug-In.

The second step involves modifying your dynamic pages you currently create by adding links that will initiate the Plug-In and data-dumper. Each of these links is a simple JavaScript method.

2.1 Creating a 'Data Dumper'

The guidelines for the 'Data-Dumper' are as follows (it is simply tab-delimited):

- The data must be in the order specified in the Data Format Specification.
- The First Line out of your Data-Dumper contains the data version number (2)
- There must not be any other content, (comments, html tags, etc.)
- Only Tabs can be used to separate the field values.
- If data for a field is null (there is no data), you must still put a tab in its place.
- Each record must start on a new line.
- Each record must be a single line.

Sample data sent from a data dumper:

```
2
address 138      wyncsdemos      Wyncs Web Sync Solutions      PO Box 746 .....
address 126      wyncsdemos      Bob      Montgomery      Mr.      Montgomery Ford      9260 Montg .....
```

Sample Script written in Perl accessing a MySQL Database:

```
#!/usr/bin/perl

#####
#
# SAMPLE data handler for Wyncs
#
# Alan Rollins - 2002.01.28 - rollins@ccc1td.com
#
# Last Modified 2003.02.11
#
#####

use CGI;
use DBI;

my ($cgi)=new CGI;
my ($d)="\\t";          # set the delimiter character
my ($version)='2';     # set the Wyncs data version

## CGI parameters:
my ($table)=$cgi->param('table') || die 'no table specified';
my ($id)=$cgi->param('id') || die 'no id specified';
my ($type)=$cgi->param('type') || die 'no type specified';
my ($userid)=$cgi->param('user');

if ($type eq 'address') {
    if ($id ne 'all') {
        doSingleAddress($d,$id,$table);
    } else {
        doMultipleAddress($d,$userid,$table);
    }
}
if ($type eq 'appointment') {
    doAppointment($d,$id,$table);
}
```

```

exit;

sub doQuery {
    my ($i,$t,$u) = @_ ;
    my ($sql)='SELECT * FROM '. $t.' WHERE ID='.$i;
    my ($dbh)=DBI->connect($mysql_perl,$mysql_user,$mysql_pass);
    my ($sth)=$dbh->prepare($sql) || die "Can't prepare $sql: $dbh->errstr\n";
    my ($rsv)=$sth->execute || die "Can't execute the query: $sth->errstr\n";
    my ($f)=$sth->fetchrow_hashref;
    $sth->finish;
    $dbh->disconnect;
    return ($f);
}

sub doHeader {
    ## the content type used for wynys is text/plain
    print "Content-type: text/plain\n\n";

    print "$version\n";
}

sub doSingleAddress {
    my ($d,$id,$table)=@_;
    my ($f)=doQuery($id,$table);
    $f->{'Address'} =~ s/\n/\n/g;
    $f->{'Comments'} =~ s/\n/\n/g;
    doHeader();
    print "ADDRESS", $d, # record type
        $f->{'ID'}, $d, # record ID
        "lcr-", $table, $d, # provider ID
        $f->{'First_Name'}, $d, # First Name
        $f->{'Last_Name'}, $d, # Last name
        $d, # Title
        $d, # Company
        $f->{'Address'}, $d, # Address
        $f->{'City'}, $d, # City
        $f->{'State'}, $d, # State
        $f->{'Zip'}, $d, # Zip
        $f->{'Day_Phone'}, $d, # Work Phone
        $f->{'Eve_Phone'}, $d, # Home Phone
        $f->{'Mobile_Phone'}, $d, # Mobile Phone
        $f->{'Fax_Phone'}, $d, # Fax Phone
        $f->{'Pager_Phone'}, $d, # Pager Phone
        $f->{'Email'}, $d, # Email Address
        $d, # Start Time
        $d, # End Time
        $d, # Date
        $d, # Title (To-Do)
        $f->{'Comments'}, $d, # Notes
        $d, # All-Day (1 or 0)
        $d, # Alarm (1 or 0)
        $d, # Work Address
        $d, # Work City
        $d, # Work State
        $d, # Work Zip
        $d, # Web Page Address
        $d, # IM Address
        $d, # Department
        $d, # Office
        $d, # Profession
        $d, # Managers name
        $d, # Assistants name
        $d, # Nickname
        $d, # Birthday
        $d, # Spouses name
        $d, # Anniversary
        $d, # Categories (comma delimited)
        $d; # Job Title
    "\n"; # delete ('1' to delete)
}

sub doMultipleAddress {
    my ($d,$u,$t)=@_;
    my ($sql)='SELECT * FROM '. $t.' WHERE Agent_ID='.$u;
    my ($dbh)=DBI->connect($mysql_perl,$mysql_user,$mysql_pass);
    my ($sth)=$dbh->prepare($sql) || die "Can't prepare $sql: $dbh->errstr\n";
    my ($rsv)=$sth->execute || die "Can't execute the query: $sth->errstr\n";
    doHeader();
    while ($f=$sth->fetchrow_hashref) {
        $f->{'Address'} =~ s/\n/\n/g;
        $f->{'Comments'} =~ s/\n/\n/g;
        print "ADDRESS", $d, # record type
            $f->{'ID'}, $d, # record ID
            "lcr-", $table, $d, # provider ID
            $f->{'First_Name'}, $d, # First Name
            $f->{'Last_Name'}, $d, # Last name
            $d, # Title
            $d, # Company
            $f->{'Address'}, $d, # Address
            $f->{'City'}, $d, # City
            $f->{'State'}, $d, # State
            $f->{'Zip'}, $d, # Zip
            $f->{'Day_Phone'}, $d, # Work Phone
            $f->{'Eve_Phone'}, $d, # Home Phone
            $f->{'Mobile_Phone'}, $d, # Mobile Phone
            $f->{'Fax_Phone'}, $d, # Fax Phone
            $f->{'Pager_Phone'}, $d, # Pager Phone
            $f->{'Email'}, $d, # Email Address
            $d, # Start Time
            $d, # End Time
    }
}

```


2.2 Adding Wync Links to dynamic pages

Adding individual "Wync Links" to your web pages involves two steps:

1. Place the following `<script>` just below the `<body>` tag of your html document.
`<script language="JavaScript" src="/Wyncs/w.js"></script>`

Remember to include the entire path to the location where you saved "w.js", (the Wyncs directory in the example above).

2. Anywhere you want a link to sync information, and the following `<a>` tag:
`Link Text Here`

where '/mydatadumper.asp' includes the full path and name of the 'data dumper', plus any query string necessary to tell the data-dumper what records to return.

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3 Data Format Specification

Table 1: Wyncs Data Format Specification (v2)

Column Reference	Value	Definition / Allowed Values
01	Record Type	Allowed Values Are: appointment address task memo
02	Record ID	Unique identifier for this record. This value is combined with the Provider ID to create a unique identifier for this record for later updating or deleting the record. No Spaces allowed
03	Provider ID	Unique identifier for the provider or data set. Allowed values would include the domain name, the database name, etc. No Spaces allowed
04	First Name	
05	Last Name	
06	Title	(Mr., Mrs., etc.)
07	Company	
08	Home Address	street address This field supports a /n character to include a linefeed for formatting purposes.
09	City	
10	State	
11	Zip Code	

Table 1: Wynncs Data Format Specification (v2) (Continued)

Column Reference	Value	Definition / Allowed Values
12	Work Phone	
13	Home Phone	
14	Mobile Phone	
15	FAX Phone	
16	*Pager Phone	
17	E-Mail Address	
18	Start Time	<p>Start time for appointments</p> <p>Time MUST be in valid 24 hour time format: hh:mm both hours and minutes must contain 2 characters</p> <p>e.g.: 14:35 (for 2:35 PM)</p> <p>Times are required for appointments, even if you are specifying the appointment as an all-day event.</p>
19	End Time	<p>End time for appointments</p> <p>Time MUST be in valid 24 hour time format: hh:mm both hours and minutes must contain 2 characters</p> <p>e.g.: 14:35 (for 2:35 PM)</p> <p>Times are required for appointments, even if you are specifying the appointment as an all-day event.</p>
20	Date	<p>Date for appointments OR 'Due Date' for tasks.</p> <p>must be a valid date in the format: yyyy/mm/dd. The slashes must be included. The year MUST be 4 characters and the month and day MUST be 2 characters.</p>

Table 1: Wynycs Data Format Specification (v2) (Continued)

Column Reference	Value	Definition / Allowed Values
21	Subject	Subject of appointments and task items
22	Notes	Available for ALL data types. This IS the memo data type. This field supports a /n character to include a linefeed for formatting purposes.
23	All-Day	make appointment an all-day event. 1=All Day 0 or blank = Timed Note: even with all-day set to 1, you must include a start-time and end-time (even though they will be ignored).
24	Alarm	set a 15 minute reminder. 1=Set Reminder 0 or blank = no reminder
25	†Work Address	street address This field supports a /n character for inserting a linefeed for formatting purposes.
26	†Work City	
27	†Work State	
28	†Work Zip Code	
29	*Web Page Address	
30	*IM Address	Instant Messaging Address
31	*Department	
32	*Office	
33	*Profession	
34	*Manager's Name	

Table 1: Wyncs Data Format Specification (v2) (Continued)

Column Reference	Value	Definition / Allowed Values
35	*Assistant's Name	
36	*Nickname	
37	*Birthday	valid date in the format: yyyy/mm/dd. Slashes MUST be present. Year MUST contain 4 characters. Month and Day MUST contain 2 characters.
38	*Spouses Name	
39	*Anniversary	valid date in the format: yyyy/mm/dd. Slashes MUST be present. Year MUST contain 4 characters. Month and Day MUST contain 2 characters.
40	Categories	multiple categories allowed in Outlook, separate each by a comma. The first category will be used by Palm Desktop.
41	*Job Title	
42	Delete	To delete the record from user's PIM software. 1=Delete 0 or blank = don't delete Note: The record has to have been previously synced by the user before it can be deleted.
43	*Location	
44	*EndDate	valid date in the format: yyyy/mm/dd. Slashes MUST be present. Year MUST contain 4 digits. Month and Day MUST contain 2 digits (leading 0s). Left blank, the Wyncs Date field will be used as the EndDate
45	*Email2	

Table 1: Wynycs Data Format Specification (v2) (Continued)

46	*Email3	
47	Country	
48	†Work Country	
49	**UserField1	Palm Desktop 4.1.x
50	**UserField2	Palm Desktop 4.1.x
51	**UserField3	Palm Desktop 4.1.x
52	**UserField4	Palm Desktop 4.1.x
53	**Swap Palm Desktop Address	0 or blank = Palm Desktop 4.1.x uses first address for contact records. 1 = Palm Desktop 4.1.x uses Work Address for contact records.

* Fields synchronize ONLY to MS Outlook, and are ignored if synced to Palm Desktop software.

† Fields synchronize to Palm Desktop versions 4.1 and up ONLY IF field 53 is set to 1.

** Fields synchronize ONLY to Palm Desktop versions 4.1 and newer.

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4 Field Maps

The following field maps indicate where the data will end up in the end user's PIM software.

4.1 Contact Field Map

Wyncs Manager Field	MS Outlook	Palm Desktop
RECORD ID		
First Name	First Name	First Name
Last Name	Last Name	Last Name
Title	Title	Title
Email	E-mail	E-Mail
Company	Company	Company
Job Title	Job Title	
Home Ph	Home	Home
Work Ph	Business	Work
Fax	FAX	FAX
Cell Ph	Mobile	Mobile
Pager	Pager	
Category	Categories	Category
Home Address	Home Street Address	Street Address
Home City	Home City	City
Home State	Home State/Province	State
Home Postal Code	Home ZIP/Postal Code	ZIP
Work Address	Work Street Address	
Work City	Work City	
Work State	Work State/Province	
Work Postal Code	Work ZIP/Postal Code	
Birthday	Birthday	
Anniversary	Anniversary	
Nickname	Nickname	
Spouse's Name	Spouse's Name	
Web Page	Web Page Address	
IM Address (Instant Messaging Address)	IM Address	
Office	Office	
Department	Department	

Contact Field Map (cont.)

Profession	Profession	
Manager	Manager's Name	
Assistant	Assistant's Name	
Notes	Notes	Note
Email2	Email2	
Email3	Email3	
Country	Country	Country
Work Country	Work Country	
UserField1		Custom Field 1
UserField2		Custom Field 2
UserField3		Custom Field 3
UserField4		Custom Field 4

4.2 Tasks Field Map

Wynys Manager Field	MS Outlook	Palm Desktop
RECORD ID		
Subject	Subject	To-Do Title
Due Date	Due Date	Due Date
Category	Categories	Category
Notes	Notes	Note

4.3 Memo Field Map

Wynys Manager Field	MS Outlook	Palm Desktop
RECORD ID		
Category	Categories	Category
Notes	Notes	Memo

4.4 Appointment Field Map

Wynys Manager Field	MS Outlook	Palm Desktop
RECORD ID		
Subject	Subject	Event Title
Appt. Date	Start (and End) Date	Date
Start Time	Start Time	Start Time
End Time	End Time	End Time
All Day Event	All Day Event	No Time
Set Reminder	15. min. Reminder	15. min. Reminder

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5 Purchasing Domain Licenses

Each Internet domain where you intend to place WynCS links must be registered and licensed through WynCS.com.

5.1 How to Purchase Domain Licenses

To register and purchase a domain license follow the steps below...

1. Visit our secure online order form at www.wynCS.com/devel_professional.php
2. Enter the domain name you would like to register.
3. Enter your email address.
4. Enter your credit card billing information.
5. Submit your order and on the next screen confirm your order.

You will receive your Domain License file via E-mail.

Upload the Domain License file(s) to your web server as described in the Configuring Your Web Site section of this help manual.

Part



6 Support

Technical support is just an E-mail or Phone call away.

6.1 WynCS Technical Support

E-Mail:

alan@schedulestar.com

Phone:

(740) 698-8000

FAX:

(740) 594-7166

