

# Amadeus e-Power

## Quick implementation guide

**V.2 Created and Updated by:**

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# 1 Introduction

This document describes the main e-Power implementation guidelines into the travel agency's website.

## 1.1 General considerations

Before starting any implementation please read carefully the below recommendations:

- **Page width:** in order to have the best view of all the e-Power pages CSC-WAW it is recommended that the webpages width is set for 920 pixels (the minimum value to have good look & feel is 780px if portal uses webpart elements) or to prepare a full "iFrame" page dedicated to e-Power integration.
- **Separate URLs for each travel service:** each booking type offered through e-Power (air / hotel / car) has its own entry points (URL's) that allow a travel agency to promote services within separate sections of the website.
- **Header & footer implementation:** if the implementation requires inclusion (uploading) of "header & footer" files into e-Power pages, these files will always be implemented by CSC-WAW. In this respect, the travel agency should prepare HTML files (including images, CSS, etc.) and send them to CSC-WAW for acceptance and implementation.

As a general rule, header & footer should not contain any form tags (e.g. search forms, newsletter registration form, etc.) due to the conflict which might arise with other forms within e-Power pages. A workaround for this issue could be an iframe code within the "header & footer" which calls the respective form from the travel agency server.

Please use DIV tags instead of tables when creating header & footer or designing templates. This will allow faster implementation and better handling of the design issues which might arise after implementation.

The header & footer can also be called in e-Power pages within iframes. It is recommended that the "header & footer" files are called from a secured URL (HTTPS) in order to avoid the possible security warnings generated by the browser.

- **Staging URLs:** all the design works should be performed on the staging site.

Sample staging URLs:

- <http://staging.amadeusepower.com/xyztravel/portals/xyztravel/default.aspx> - contains quick search form for all e-Power services (flight / hotel / car)
- <http://staging.amadeusepower.com/xyztravel/portals/xyztravel/flightFareSearch.aspx> - this form is dedicated to flight fare driven searches

- <http://staging.amadeusepower.com/xyztravel/xyztravel/hotelSearch.aspx> - this form is dedicated to hotel searches
- <http://staging.amadeusepower.com/xyztravel/portals/xyztravel/carSearch.aspx> - this form is dedicated to car searches
- <http://staging.amadeusepower.com/xyztravel/portals/xyztravel/login.aspx> - this form is used for website authentication and membership
- <http://staging.amadeusepower.com/xyztravel/portals/xyztravel/register.aspx> - this form is used for registration of portal users

Once e-Power is launched into production the following URLs should be used (the prefix "http://staging.admin.amadeusepower.com" will be replaced by "http://www.amadeusepower.com")

- <http://www.amadeusepower.com/xyztravel/portals/xyztravel/default.aspx> - contains quick search form for all e-Power services (flight / hotel / car)
- <http://www.amadeusepower.com/xyztravel/portals/xyztravel/flightFareSearch.aspx> - this form is dedicated to flight fare driven searches
- <http://www.amadeusepower.com/xyztravel/xyztravel/hotelSearch.aspx> - this form is dedicated to hotel searches
- <http://www.amadeusepower.com/xyztravel/portals/xyztravel/carSearch.aspx> - this form is dedicated to car searches
- <http://www.amadeusepower.com/xyztravel/portals/xyztravel/login.aspx> - this form is used for website authentication and membership
- <http://www.amadeusepower.com/xyztravel/portals/xyztravel/register.aspx> - this form is used for registration of portal users

## 2 IFRAME integration

At the moment the fastest way of the e-Power integration is as follows:

- ▶ CSC-WAW internal integration process includes deliveries to client:
  - Iframe code

In the <HEADER> section, CSC-WAW recommends the following code:

```

-----
<HEADER>
  <script>
    var ePFrame="<iframe src=\"http://staging.amadeusepower.com/XYZTAVEL/Portals/XYZTAVEL\"
width=\"100%\" height=\"100%\" frameborder=\"0\"></iframe>";
  </script>

  <STYLE type="text/css">
    html, BODY { width: auto !important; height: auto !important; overflow: hidden;
text-align: center; margin: 0 auto;}
  </STYLE>
</HEADER>
-----

```

Then, in the web page's <BODY> of the page that calls e-Power in an iframe, the following code should be added:

```
<BODY>
<script type="text/javascript">document.write(ePFrame);</script>
</BODY>
```

#### Advantages:

- This is the fastest and easiest way for the e-Power implementation
- It uses the whole options available in the e-Power search forms

#### Disadvantages:

- It uses the whole options available in the e-Power search forms
- No disadvantages known regarding loading performance or problems/restrictions in "look and feel"

In the past the below procedure of e-Power integration was recommended by Amadeus however it is not used anymore by CSC-WAW and has been included here just for information purposes:

#### Amadeus deliverables:

##### a) Iframe code

In the <HEADER> section the following code should be added:

```
<script>
function addEpowerIframe(portalCode)
{ var scrIValue="auto style='overflow-x:hidden'";
if(navigator.appVersion.indexOf("MSIE 6.")>-1)
{scrIValue="no";}

var
urlToNavigate="http://www.amadeusepower.com/"+portalCode+"/portals/"+portalCode+"/flightfareSearch.aspx";
var heightValue=450;
var widthValue=750;
document.write ("<iframe name='epowerframe' id='epowerframe' " +
" width=" + widthValue + " height=" + heightValue +
" marginwidth='0' marginheight='0' +
" frameborder='0' vspace='0' hspace='0' " +
" src=" + urlToNavigate + " scrolling=" + scrIValue + "></iframe>");
}
</script>
```

Then, in the web page which calls e-Power in an iframe, the following code should be added:

```
<script>addEpowerIframe("xyztravel")</script>
```

- A resizing script will be applied by Amadeus to the e-Power pages in order to better fit the customer's iframe.
- VPOS code: there are cases when the customers are using VPOS providers which requires the credit card processing to be performed on their own domains (in this case the end-user leaves e-Power pages and is redirected to VPOS webpage).

For such cases, if the travel agency would like to display the booking confirmation pages (paid with a credit card) within the website's iframe the following code provided by Amadeus should be implemented in the customer's website where e-Power is integrated:



This is an ASP code. If the customer's website is based upon PHP, the code needs to be converted by the travel agency.

Advantages:

- This is the fastest and easiest way for the e-Power implementation
- It uses the whole options available in the e-Power search forms

Disadvantages:

- The initial loading of the e-Power search form called in the iframe is slower than the loading of the rest of the website.

### 3 EXTERNAL SEARCH FORM integration

Amadeus e-Power's external search forms can also be integrated into a website.

Amadeus deliverables:

- a) HTML file containing all the external parameters (mandatory or optional) needed to create the external search form;



External\_Search\_form\_sample\_v20\_TESTS.htm

- b) Excel file containing all the city / airport / country / airline codes needed to create the destinations search scripts.

Country\_City\_Airport\_Airline\_List.xlsx

Advantages:

- The external search form is hosted on the travel agency server -> no delays at initial loading of the search form;
- SEO compliant;
- Complete flexibility in terms of design customizations;

Disadvantages:

- Currently the following e-Power search options are not integrated within the external search forms: package search and car search based upon “locations” criteria.

Please take into consideration the following codes types when building external search forms:

a) Flight search

- Both city and airport codes can be used for flight search;

b) Hotel search

- Only city codes can be used for hotel search;

c) Car search

- Only airport codes can be used for car search;

It is recommended to allow the end-user searching city names based using English and local names (e.g London / Londres).

The external search form should represent a mirror of e-Power original search form. Thus, for a better user experience, it is recommended to implement several validation items for the search form parameters.

- passenger types: the pax types in the search form should be in line with the passenger types defined in the portal settings.

- calendar dates selection: the calendar should be restricted in line with the “Show availability starting from” option from portal settings.

As a recommendation a full iframe should be allowed for e-Power search results.



## 4 Dynamic external elements

### 4.1 General overview

CSC-WAW has been authorized by Product Management and Istanbul Development team since 06/01/2011 to implement e-Power using a new implementation method (dynamic external elements) under the condition of taking control and full responsibility over such implementations. Since then CSC-WAW has successfully completed a number of customizations.

CSC-WAW initiative adds value to the product and to the delivered solution. Allows flexibility and independency to our customers by releasing implementation and development teams from unnecessary workload.

As clients are requesting UI changes "on the fly" to "header&footer" more and more often, CSC-WAW come up with a solution that allows clients to introduce HTML and CSS changes that are reflected instantly to the end user avoiding the waiting time needed to load staging UI customization into production.

E-power is currently implemented as: hosted solution, external search form, iFrame and using web services interface allowing dynamic packaging (under pilot mode). Dynamic external elements are a new implementation approach now available to clients bringing added value to e-Power booking engine reinforcing its flexibility and customization possibilities.

### 4.2 Implementation details

This new implementation method, requires that the client takes full responsibility of "look&feel" issues that can have origin at their side.

Client must provide link to CSS file (Css file must be prepared specially for this use: Only header and footer classes must be included to avoid class overriding (body...etc). Also URL to the HTML files used in header and footer must be provided.

Examples of HTML and CSS files to such an implementation have been attached to this document.

Menu is another possibility if a client has a need of frequent changes.

Notes:

- ▶ CSC-WAW will verify if the code provided by client is compatible with e-power code and doctype specification (XHTML 1.0 Transitional)
- ▶ To avoid security warnings check if all external elements (iframe, images, dynamic header and footer) are included in secured location.

### 4.3 Code samples

When creating a portal with theme wizard, and specifying the Main HTML layout, the example code/structure should be used (using HTTPS):

```
-----
<link type="text/css" rel="stylesheet" media="all"
```

```
href="http://slopes.comoj.com/RSS\_dynamic\_header\_footer/testFiles/css/style-header-footer.css" />
<script language="javascript" src="../../App_Themes/polishtestportal_theme1/js/jquery.js"></script>
<script language="javascript" src="../../App_Themes/polishtestportal_theme1/js/java2.js"></script>
```

```
<div id="client_header">
</div>
```

```
<div id="client_menu">
</div>
```

```
<table width="100%" cellpadding="0" cellspacing="0">
<tr><td>{tabmenu}</td></tr>
<tr><td width="100%" nowrap>
  <table width="100%" cellpadding="0" cellspacing="0" border="0">
    <tr><td width="100%">{culture}</td>
    <td width="1" nowrap align="right">{login}</td>
    </tr>
    <tr><td colspan="2" align="right">{basket}</td></tr></table>
  </td></tr>
<tr><td WIDTH="100%">{content}</td></tr></table>
```

```
<div id="client_footer">
</div>
```

It means that all "look&feel" properties will be hosted at the Client's side and Amadeus will provide a JavaScript code (sample: "java2.js"), that will parse the HTML files used in header and footer (HTML also hosted at client side). Script is ready to use and can be improved to detect and/or ignore code of dangerous tags (like Asp.NET or Java code, that simple will not be parsed, so only pure HTML technology is recommended to keep security level). Using this method, along with HTTPS protocol, allows avoiding security warnings of Internet Explorer when external content is loaded.

"CSC-WAW, IT SIMPLY WORKS! "

See a production example here:

<http://www.amadeusepower.com/ibusz/portals/ibusz/flightFareSearch.aspx>

and samples (that can/should be used as client guidelines) of all external files at:

[http://slopes.comoj.com/RSS\\_dynamic\\_header\\_footer/testFiles/](http://slopes.comoj.com/RSS_dynamic_header_footer/testFiles/)

Notes about JavaScript code from CSC-WAW:

- ▶ gets the url of the html pages to header, footer and menu (if needed) and parses it at clients side.
- ▶ All special characters must be URL encoded (e.g. "="/"/)