



Buy Web Service

Version 1.3

Jobg8 Limited

Buyer Web Service		29 March 2018
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Document Version History

Date	Version	Description	Author
24 Sept 2013	1.0	Initial Version	Brad O'Connor
09 Mar 2015	1.1	Added GetClicks and GetClicksByDate Methods	Sarah Poole
01 May 2015	1.2	Removed Candidate Details	Sarah Poole
29 Mar 2018	1.3	Added additional information to GetClicks	Brad O'Connor

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2. Overview

This web service is available to allow buyers to download data from Jobg8 and assist with content management and customer support.

This is a technical document and assumes the reader has a working knowledge of XML and web services.

3. Buyer Web Service

The web service URI is:

<http://www.jobg8.com/WebService/Buyer.asmx>

This web service exposes the following methods:

- GetApplications
- GetApplicationsByDate
- GetClicks
- GetClicksByDate
- GetLiveJobs
- SendApplication

A username and password is expected by all these methods as access credentials. These are the same login details that are used to access the Jobg8 website. An additional user can be created through the website for the specific purpose of using this web service.

Schemas and example XML are available upon request.

3.1 Failure Responses

When a Jobg8 issue is encountered after successfully calling one of the web service methods, a failure response will be returned. Below is an example of the failure XML:

```
<Error xmlns="">  
  <Code>2</Code>  
  <Type>InvalidCredentials</Type>  
  <Message>Invalid Credentials</Message>  
</Error>
```

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This XML will contain one of the subsequent errors:

Code	Type	Message
1	Exception	Exception - Please contact Jobg8 support
2	InvalidCredentials	Invalid Credentials
3	AccountAccessDenied	Account Access Denied
4	InvalidApplicationID	The supplied applicationID is invalid

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4. GetApplications Method

This method can be used to return the details of any applications that have been purchased within the last 14 days and have not already been downloaded via this method.

It can be polled at any interval to synchronise the applications that have been purchased. We recommend it is used regularly to reduce the size of the responses generated.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
accountID	Integer	Indicates the account to download application for. If an invoice account is supplied, the applications for the entire invoice account group will be returned.

XML is returned from this method and will conform to the following schema:

Buyer Web Service - GetApplications.xsd

4.1 Application Details

These details will be supplied for each application that is downloaded.

Detail	Description
JobID	The Jobg8 identifier for the job.
Sender Reference	The reference that you used for the job when it was initially posted to us.
Account ID	The account ID that posted the job.
Account Name	The account name that posted the job.
UTC Date Applied	The Coordinated Universal Time (UTC) date/time the applicant applied for the job. Formatted as a SortableDateTimePattern.
Local Date Applied	The local date/time relevant to the account that the applicant applied for the job. Formatted as a SortableDateTimePattern.
Application ID	The identifier of this application.
Application Cost	The cost of the application (excludes tax).
Candidate Name	The full name for the candidate that has applied for the job.
Resend Application Link	A link that can be used to re-send the job application email to your advertiser. Only applications purchased within the last 60 days can be resent.
CandidateIPCountry	The country the candidate applied from determined by their IP address. Please refer to Appendix A for the list of possible IP countries. This node will be empty if the IP country is unable to be determined.
ApplicantSourceIdentifier	The identifier of the applicant source who supplied the application.

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4.2 Application Example XML

```
<Applications xmlns="">
  <Application>
    <JobID>11514</JobID>
    <SenderReference>Ref123</SenderReference>
    <AccountID>123456</AccountID>
    <AccountName>Job Source ABC</AccountName>
    <UTCDateApplied>2010-10-20T14:31:10</UTCDateApplied>
    <LocalDateApplied>2010-10-20T15:31:10</LocalDateApplied>
    <ApplicationID>987</ApplicationID>
    <ApplicationCost>0.78</ApplicationCost>
    <CandidateName>Joe Bloggs</CandidateName>
    <ResendApplicationLink>http://www.jobg8.com/ApplicationActions.aspx?action=XXXYYZZZ
    </ResendApplicationLink >
    <CandidateIPCountry>GB</CandidateIPCountry>
    <ApplicantSourceIdentifier>555</ApplicantSourceIdentifier>
  </Application>
</Applications>
```

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5. GetApplicationsByDate Method

This method can be used to download a specific day's worth of applications from any point in the last 60 days. This will include all applications for that day regardless of whether they have been downloaded before.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
accountID	Integer	Indicates the account to download application for. If an invoice account is supplied, the applications for the entire invoice account group will be returned.
date	DateTime	Used to identify which day of applications are required.
useLocalDate	Boolean	Indicates whether the date supplied is in UTC or local time relevant to the accountID passed in.

The returned XML is exactly the same as the details provide in the GetApplications method as detailed in Section 4.

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6. GetClicks Method

This method can be used to return the details of any clicks that have been purchased within the last 14 days and have not already been downloaded via this method.

It can be polled at any interval to synchronise the clicks that have been purchased. We recommend it is used regularly to reduce the size of the responses generated.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
accountID	Integer	Indicates the account to download click for. If an invoice account is supplied, the clicks for the entire invoice account group will be returned.

XML is returned from this method and will conform to the following schema:

Buyer Web Service - GetClicks.xsd

6.1 Click Details

These details will be supplied for each click that is downloaded.

Detail	Description
JobID	The Jobg8 identifier for the job.
Sender Reference	The reference that you used for the job when it was initially posted to us.
Account ID	The account ID that posted the job.
Account Name	The account name that posted the job.
UTC Date Applied	The Coordinated Universal Time (UTC) date/time the applicant clicked through to the job. Formatted as a SortableDateTimePattern.
Local Date Applied	The local date/time relevant to the account that the applicant clicked through to the job. Formatted as a SortableDateTimePattern.
Click ID	The identifier of this click.
Click Cost	The cost of the click (excludes tax).
CandidateIPCountry	The country the candidate clicked from determined by their IP address. Please refer to Appendix A for the list of possible IP countries. This node will be empty if the IP country is unable to be determined.
SellerIdentifier	The identifier of the Seller who supplied the click.
IPAddress	The IPAddress of the candidate.
Job URL	The job URL the candidate was redirected to.

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6.2 Click Example XML

```
<Clicks xmlns="">
  <Click>
    <JobID>11514</JobID>
    <SenderReference>Ref123</SenderReference>
    <AccountID>123456</AccountID>
    <AccountName>Job Source ABC</AccountName>
    <UTCDateApplied>2010-10-20T14:31:10</UTCDateApplied>
    <LocalDateApplied>2010-10-20T15:31:10</LocalDateApplied>
    <ClickID>987</ClickID>
    <ClickCost>0.78</ClickCost>
    <CandidateIPCountry>GB</CandidateIPCountry>
    <SellerIdentifier>555</SellerIdentifier>
    <IPAddress>1.2.3.4</IPAddress>
    <JobURL>http://www.yourdomain.com/job123</JobURL>
  </Click>
</Clicks>
```

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7. GetClicksByDate Method

This method can be used to download a specific day's worth of clicks from any point in the last 60 days. This will include all clicks for that day regardless of whether they have been downloaded before.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
accountID	Integer	Indicates the account to download click for. If an invoice account is supplied, the clicks for the entire invoice account group will be returned.
date	DateTime	Used to identify which day of clicks are required.
useLocalDate	Boolean	Indicates whether the date supplied is in UTC or local time relevant to the accountID passed in.

The returned XML is exactly the same as the details provide in the GetClicks method as detailed in Section 6.

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8. GetLiveJobs Method

This method can be used to download details of jobs that are currently posted live on Jobg8.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
accountID	Integer	Indicates the account that posted the jobs. If an invoice account is supplied, the jobs for the entire invoice account group will be returned.
includeSubAccounts	Boolean	Indicates whether the entire invoice account group is returned. Only applies if an invoice account is supplied.

XML is returned from this method and will conform to the following schema:

Buyer Web Service - GetLiveJobs.xsd

8.1 Live Job Details

These details will be supplied for each job.

Detail	Description
JobID	The Jobg8 identifier for the job.
Sender Reference	The reference that you used for the job when it was initially posted to us.
Account ID	The account ID that posted the job.
Account Name	The account name that posted the job.
UTC Posted Date	The Coordinated Universal Time (UTC) date/time the job was posted. Formatted as a SortableDateTimePattern.
Local Posted Date	The local date/time the job was posted relevant to the account. Formatted as a SortableDateTimePattern.

8.2 Live Jobs Example XML

```
<LiveJobs>
  <Job>
    <JobID>11514</JobID>
    <SenderReference>Ref123</SenderReference>
    <AccountID>123456</AccountID>
    <AccountName>Job Source ABC</AccountName>
    <UTCPostedDate>2010-10-20T14:31:10</UTCPostedDate>
    <LocalPostedDate>2010-10-20T15:31:10</LocalPostedDate>
  </Job>
</LiveJobs>
```

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9. SendApplication Method

This method can be called to resend the job application email to your advertiser. Only applications purchased within the last 60 days can be resent.

The following parameters are expected:

Parameter	Type	Description
username	String	Access credential.
password	String	Access credential.
applicationID	Integer	Indicates the ID for the application to be resent.

Successfully calling this method will return the following XML:

```
<Success xmlns=""></Success>
```

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10. Example .NET Code

The code example below demonstrates how to use the GetApplications method:

```
// Create the soap XML
string soapXML = "<soap:Envelope xmlns:soap=\"http://schemas.xmlsoap.org/soap/envelope/\">"
    + "<soap:Body>"
    + "<GetApplications xmlns=\"http://jobg8.com/\">"
    + "<username>testlogin@jobg8.com</username>"
    + "<password>test</password>"
    + "<accountID>123456</accountID>"
    + "</GetApplications>"
    + "</soap:Body>"
    + "</soap:Envelope>";

// Create the request and add the soap XML
System.Net.WebRequest request =
System.Net.WebRequest.Create("http://www.jobg8.com/WebService/Buyer.asmx");
request.Method = "POST";
request.ContentType = "text/xml; charset=utf-8";
request.Headers.Add("SOAPAction", "http://jobg8.com/GetApplications");

using (System.IO.StreamWriter streamWriter = new
System.IO.StreamWriter(request.GetRequestStream()))
{
    streamWriter.Write(soapXML);
}

// Get the response and create an XML document from it
System.Net.WebResponse response = request.GetResponse();
System.Xml.XmlDocument xmlResponse = new System.Xml.XmlDocument();
xmlResponse.Load(response.GetResponseStream());

// Parse the response XML
System.Xml.XmlNamespaceManager nsmgr = new
System.Xml.XmlNamespaceManager(xmlResponse.NameTable);
nsmgr.AddNamespace("SOAP", "http://schemas.xmlsoap.org/soap/envelope/");
nsmgr.AddNamespace("JOBG8", "http://jobg8.com/");

foreach (System.Xml.XmlNode application in
xmlResponse.SelectNodes("//SOAP:Body/JOBG8:GetApplicationsResponse/JOBG8:GetApplicationsResult
/Applications", nsmgr))
{
    // Work through each application
}
}
```

Alternatively an easy way to access a web service is by using a Web Reference in Visual Studio. The following link details a good example of how to use Web References:

[http://msdn.microsoft.com/en-us/library/xb5th1ba\(VS.80\).aspx](http://msdn.microsoft.com/en-us/library/xb5th1ba(VS.80).aspx)

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11. Appendix A

This table details a list of possible IP Countries.

IP Country	Country	IP Country	Country
AD	Andorra	DZ	Algeria
AE	United Arab Emirates	EC	Ecuador
AF	Afghanistan	EE	Estonia
AG	Antigua and Barbuda	EG	Egypt
AI	Anguilla	EH	Western Sahara
AL	Albania	ER	Eritrea
AM	Armenia	ES	Spain
AN	Netherlands Antilles	ET	Ethiopia
AO	Angola	FI	Finland
AQ	Antarctica	FJ	Fiji
AR	Argentina	FK	Falkland Islands (Malvinas)
AS	American Samoa	FM	Micronesia, Federated States of
AT	Austria	FO	Faroe Islands
AU	Australia	FR	France
AW	Aruba	GA	Gabon
AX	Aaland Islands	GB	United Kingdom
AZ	Azerbaijan	GD	Grenada
BA	Bosnia and Herzegovina	GE	Georgia
BB	Barbados	GF	French Guiana
BD	Bangladesh	GH	Ghana
BE	Belgium	GI	Gibraltar
BF	Burkina Faso	GL	Greenland
BG	Bulgaria	GM	Gambia
BH	Bahrain	GN	Guinea
BI	Burundi	GP	Guadeloupe
BJ	Benin	GQ	Equatorial Guinea
BM	Bermuda	GR	Greece
BN	Brunei Darussalam	GS	South Georgia and the South Sandwich Islands
BO	Bolivia	GT	Guatemala
BR	Brazil	GU	Guam
BS	Bahamas	GW	Guinea-Bissau
BT	Bhutan	GY	Guyana
BV	Bouvet Island	HK	Hong Kong
BW	Botswana	HM	Heard and McDonald Islands
BY	Belarus	HN	Honduras
BZ	Belize	HR	Croatia (local name: Hrvatska)
CA	Canada	HT	Haiti
CC	Cocos (Keeling) Islands	HU	Hungary
CD	Congo, Democratic Republic of	ID	Indonesia
CF	Central African Republic	IE	Ireland
CG	Congo, Republic of	IL	Israel
CH	Switzerland	IN	India
CI	Cote d'Ivoire	IO	British Indian Ocean Territory
CK	Cook Islands	IQ	Iraq
CL	Chile	IR	Iran (Islamic Republic of)
CM	Cameroon	IS	Iceland
CN	China	IT	Italy
CO	Colombia	JM	Jamaica
CR	Costa Rica	JO	Jordan
CS	Serbia and Montenegro	JP	Japan
CU	Cuba	KE	Kenya
CV	Cape Verde	KG	Kyrgyzstan
CX	Christmas Island	KH	Cambodia
CY	Cyprus	KI	Kiribati
CZ	Czech Republic	KM	Comoros
DE	Germany	KN	Saint Kitts and Nevis
DJ	Djibouti	KP	Korea, Democratic Peoples Republic of
DK	Denmark	KR	Korea, Republic of
DM	Dominica	KW	Kuwait
DO	Dominican Republic	KY	Cayman Islands

IP Country	Country
KZ	Kazakhstan
LA	Lao Peoples Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
MK	Macedonia, the former Yugoslav Republic of
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS	Palestinian Territory, occupied
PT	Portugal
PW	Palau
PY	Paraguay

IP Country	Country
QA	Qatar
RE	Reunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen Islands
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy see)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
XA	Kosovo
YE	Yemen
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe