

# **External OBS**

User Manual

### Version

1.1

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# Date

July 2010

### Support

For assistance, please contact Grapevine: +27 21 702-3333 or email info@vine.co.za.

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# 1. Reference

## **1.1.** Terms and definitions

Term	Definition				
Affiliate	Company that is allowed to use Grapevine's External OBS to request funds from mobile phone users' accounts in payment for content.				
	When companies register with Grapevine, we say that they are 'provisioned' to use the External OBS.				
Affiliate Administrator	Affiliate employee who has a user profile allowing them to manage services, create user profiles and view reports on their company's use of the system.				
Content	Products and ser ringtones, screen market notificatio	vices that are so savers, games, o ns, etc.	old to daily N	mobile pł weather re	hone users, e.g., ports and stock
Content Owner	Owner of content	that is sold to mo	bile ph	one users.	
CSV (Comma Separated Values) file	Text file where each field is distinguished from the next by a comma. The commas indicate to a spreadsheet program (for instance, MS Excel) where each field starts and ends so it can divide the data into columns, e.g.: Text file saved in .csv format Surname,First Name,Area Code, Telephone				
	Bloggs,Joe,(U21),5553456				
				Spreadshe	eet application
	Surname	First Name	Area	Code	Telephone
	Bloggs	Joe	(021)		5553456
	A new line in the text file represents a new row in the spreadsheet. Reports from the External OBS can be exported to a CSV file where the data can be custom-sorted and filtered.				
Debit Request	Method used to request funds from mobile phone users' accounts in payment for content they have bought.				
EBB (Event Based Billing)	MTN's preferred name for the Online Billing System (OBS).				
MSISDN	Mobile Subscriber International Station Directory Number / Mobile Subscriber Integrated Services Digital Network Number).				

	Number format used to uniquely identify a mobile phone number internationally. It is created by replacing the '0' of the mobile phone number with the country code, e.g.: '27735555555', where '27' is the country code for South Africa.
OBS (Online Billing System)	A mechanism used to take money from mobile phone users' accounts in payment for content. The External OBS lets companies outside Grapevine use the OBS to take money from mobile phone users' accounts directly. These companies need to first register with Grapevine as Affiliates of the system. * OBS is a term used by Cell C and Vodacom. EBB is the term preferred by MTN.

# 2. What is the External OBS?

Grapevine's External OBS (Online Billing System) allows you, registered as an Affiliate, to use Grapevine's **web service** to request funds from networks in payment for content that mobile phone users have purchased.

The **web service** can be accessed using a SOAP call: the **ObsDebitRequest\_Extr** service method. You can view the full WSDL for this method in **Appendix D** on page **27**.

You can monitor your requests, and view reports and revenue details for your requests via the External OBS web site.

#### Note:

All the information you need to access and use the External OBS can be found in the email you receive from Grapevine when you register.

Below is a graphical overview of the External OBS and how the **web service** and **web site** work together.



Figure 1 – System Overview

Now let's take a detailed look at how you will use this service.

# 3. How do I use the External OBS Web Service?

You will use the External OBS web service to request funds from mobile phone users' accounts in payment for content that they have bought from you.

### 3.1. What do I need to access the External OBS web service?

To access the web service, you need:

•	to be registered as an External OBS Affiliate with Grapevine	Affiliate Company that is allowed to use Grapevine's External OBS to request funds from mobile phone users' accounts in payment for content.
•	authentication details for submitting requests to the web service	These will be sent to you by email from Grapevine when you sign up for the External OBS service.
•	the WSDL for these services	The full web service definition is available in WSDL format in <b>Appendix D – Web Service Definition</b> on page <b>27</b> .
•	the web service URL	This will be sent to you by email from Grapevine when you sign up for the External OBS service.

### Note:

If you've mislaid your login information or authentication details, please contact Grapevine Support. Our contact details are in the **Support** section of this manual on page **23**.

### **3.2.** How do I request funds from a network?

The process of requesting funds is quick and easy:

**Step 1**: you will make a Debit Request call for funds (see **Step 1 - Submit a Debit Request** on page **7**).

Step 2: the web service will return a response (see Step 2 - Receive a Debit Request Response on page 9).

\* Please take careful note of the status code in the Debit Request response (see **Debit Request Status Codes** on page **9**). If your request is unsuccessful, you will need to decide whether you want to retry the request. Costs for funds requests will be based on your commercial agreement with Grapevine. Read more ....



# Insufficient Funds and Re-attempts to Request Funds

It is essential for users of the External OBS to understand the process for handling re-attempts to request funds from mobile phone users who have insufficient funds in their accounts.

Please familiarise yourself with **Appendix A – Insufficient Funds and Re-attempts** on page **24**.

### 3.2.1. Step 1 - Submit a Debit Request

To request funds, you must call the Debit Request method. Below, the parameters you need to submit are tabled, followed by an example of a Debit Request.

\* Input parameters are usually case-sensitive, e.g., Affiliate code.

Debit Request Method Method name: ObsDebitRequest_Extr				
Field	Description	Format	Examples	Supplied by?
Service name	Unique name of the content offered by your company	string	<ul> <li>ringtones</li> <li>classic screenshots</li> <li>Card Division</li> </ul>	GVI
Authentica tion code	Unique security code	string	D63A3F991C9683011 2D60701D7	GVI
Affiliate code	Unique company code	string	Acme_001	GVI
MSISDN	Mobile phone number in international format, where the '0' prefix for a mobile phone number is replaced by the country code, e.g., '27' for South Africa	string	27767239116	Affiliate

Debit Request Method Method name: ObsDebitRequest_Extr				
Field	Description	Format	Examples	Supplied by?
Vodacom Service ID	This is a Vodacom requirement that enables the network to identify the service (previously all services were tagged as 'Grapevine' services). Grapevine must apply for a Service ID for each new service it implements. This is then tested and deployed by Vodacom. The Service ID will help Grapevine to identify the funds associated with a service when Vodacom sends a billing report.	string	SA Redemptorists	GVI
Amount	Amount to be taken from the mobile phone user's account. * Allowed amounts that may be requested from the networks are provided in Appendix C – Allowed Amounts on page 26.	2-place decimal (Any digits after the first two decimal places will be ignored)	0.50 10.00	Affiliate
Daily Limit Amount	This figure limits the amount of funds that can be requested per day by an Affiliate. The default is R100. In this example, if a request costs R5, only 20 requests could be made per day). The Daily Limit Amount can only be changed by a Grapevine administrator. It has been implemented to prevent user error selecting a higher rate.	Decimal (in rands)	100	Affiliate

#### Table 1 – Debit Request Method

ObsDebitRequest\_Extr(ringtones, D63A3F991C96830112D60701D7, Acme\_001, 27767239116, 5.00)

#### Example 1 - Debit Request

### **3.2.2.** Step 2 - Receive a Debit Request Response

Each Debit Request generates a Debit Request response. Below is a sample Debit Request response.

After you receive a response, please check the status code to see if your request was successful. Debit Request response status codes are tabled at the end of this section with explanations about what they mean.

### Debit Request Response

### Header

<?xml version="1.0" encoding="utf-8"?>

<ExternalObsStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://196.36.190.168/">

Parameter	Example	Description
Status code	0	Please see <b>Debit Request</b> Status Codes on page 9.
Status description	Authorisation failure	Please see <b>Debit Request</b> Status Codes on page 9.

#### Table 2 – Debit Request Response

xml version="1.0" encoding="u</th <th>tf-8"?&gt;</th>	tf-8"?>		
<externalobsstatus< td=""><td>xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</td></externalobsstatus<>	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"		
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://196.36.190.168/">			
<ex_statuscode><b>0</b></ex_statuscode>			
<ex_statusdescription>Authorisation failure.</ex_statusdescription>			

#### Example 2 - Debit Request Response

Debit R	equest Status Codes	
Status Code	Status Description	What does it mean?

Debit R	Debit Request Status Codes			
Status Code	Status Description	What does it mean?		
0	Authentication failed	Please check your Debit Request parameters. It is possible your entered an invalid service name, authentication code or service code.		
1	Funds authorised	Funds have been successfully taken from user's mobile phone account.		
2	Funds request unsuccessful - insufficient funds.	Cell phone user has insufficient funds for the Debit Request. You may retry the request based on the rules specified in <b>Appendix A</b> – <b>Insufficient Funds and Reatempts</b> on page <b>24</b> .		
3	Amountrequestedexceedsmaximumallowed for this service.	Each service has a maximum amount that may be requested.		
4	Funds request failed - network problem	Please try again later. Contact Grapevine Support if this problem persists. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .		
5	Service is disabled	Contact Grapevine Support if a service has been disabled. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .		
6	Maximum daily attempts for this MSISDN has been reached	If you receive a response with status code = 2 (insufficient funds), you may only resubmit the request twice on a given day. Please see <b>Appendix A</b> – <b>Insufficient Funds and Re-attempts</b> on page <b>24</b> .		
7	Invalid MSISDN	Please check your MSISDN parameters.		
8	Minimum amount should be 0.50	No amounts less than 0.50 are allowed.		
9	Not an allowed amount for MTN	Allowed amounts that may be requested from the networks are provided in <b>Appendix C – Allowed Amounts</b> on page <b>26</b> .		
10	Unknown error	Please try again later. Contact Grapevine Support if the problem persists so that they can investigate the problem. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .		
11	Timed out, please try again later	Please try again later. Contact Grapevine Support if this problem persists. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .		
12	Delivery confirmation failed	Grapevine has made more than one attempt to reach the network to confirm delivery of your content and been unsuccessful. Please contact Grapevine Support. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .		

### Notes:

- A funds request may not exceed R50.00 or be less than R0.50 for most networks. Allowed amounts that may be requested from the networks are provided in Appendix C Allowed Amounts on page 26.
- An Affiliate can make a maximum of three requests a day (two retries) to an MSISDN which does not have sufficient funds. Please see Appendix A – Insufficient Funds and Reattempts on page 24.

### What next?

- You can view reports detailing your Debit Requests on the web site.
- If there was a network failure or unexpected error, please contact Grapevine. Our contact details are in the **Support** section of this manual on page **23**.

### 3.3. Web service FAQs

### How many times may I resubmit an OBS request?

Because the networks charge for OBS requests, if the mobile phone user has insufficient money in their account (status code = 2), you may only resubmit a request twice. This means that you may request funds for content from a specific MSISDN a maximum number of 3 times a day. You will be charged for every unsuccessful request as per the commercial agreement with Grapevine.

### How can I see how much money I have made?

You can see how much money you have requested via the **View OBS Revenue** function on the External OBS web site. Your company's share of the OBS revenue will be determined based on the reported OBS revenue, the commercially agreed revenue share with Grapevine and the actual payout by the mobile networks.



OBS Revenue Calculations

It is essential for users of the External OBS to understand how revenue owing to them is calculated.

Understanding these requirements is a specific commercial condition of using the External OBS. Please familiarise yourself with **Appendix B – OBS Revenue Calculations** on page **25**.

# 4. How do I use the External OBS Web Site?

The External OBS web site is a reporting mechanism. You can use it to view all the requests for funds made by your company and whether they were successful or not. You can also see the total amount of money you have requested from different networks.

### 4.1. What do I need to access the External OBS web site?

To access the web site, you need:

•	an External OBS username and password	These will be sent to you from Grapevine by email when you sign up for the External OBS service.
•	the URL of the web site	This will be sent to you from Grapevine by email when you sign up for the External OBS service.

### Note:

If you've mislaid your login information or the URL for this service is not working, please contact Grapevine Support. Our contact details are in the **Support** section of this manual on page **23**.

### 4.2. The External OBS Home Page

Manage OBS Services	Manage Users		——— Navigation bar
			Menu functions
View OBS Revenue			Mena junctions
Manage Users			
		-	
	Manage OBS Services View OBS Revenue Manage Users	Manage OBS Services Manage Users View OBS Revenue Manage Users	Manage OBS Services Manage Users View OBS Revenue Manage Users

Figure 2 – Home Page

Function	Description	Who has access to this function?
View OBS Requests	Lists all the requests for funds that your company has made to the networks.	<ul> <li>Affiliate administrators can view OBS requests for their company's services.</li> <li>Users can view the OBS requests for services they have been given permission to view.</li> </ul>
View OBS Revenue	Lists the total amount taken from mobile phone users' accounts during a selected time period.	<ul> <li>Affiliate administrators can view revenue details for their company's services.</li> <li>Users can view revenue details for services they have been given permission to view.</li> </ul>
Manage OBS Services	Assign users to services and view service details.	<ul> <li>Affiliate administrators can view details of their company's services and change the users associated with them.</li> <li>Users do not have access to this function.</li> </ul>
Manage Users	View and update user details.	<ul> <li>Affiliate administrators can view and update their company's users' details, and add new users to their company's services.</li> <li>Users do not have access to this function.</li> </ul>

### 4.3. Overview of web site functions

#### Table 4 – Overview of Web Site Functions

#### Notes:

- Your home page and the functions to which you have access will vary according to your user status. The following screenshots display all functions that an Affiliate administrator can view but may not necessarily be viewable by all users. Only Affiliate administrators have access to the **Manage Users** and **Manage OBS Services** functions.
- Service and Affiliate details are initially set up by Grapevine administrators.

### 4.3.1. View OBS Requests

Use this function to report on all the debit requests that your company has made to the networks.

Who has access to this function?

Manage Users

Hour 0 - Minutes 00 -

Hour 23 - Minutes 59 -

Search

View OBS Revenue

2

6

- Affiliate administrators can view OBS requests for their company's services.
- Users can view the OBS requests for services they have been given permission to view.

GRAPEVINE

OBS WEB SERVICE

Uelcome back, jane

Manage OBS Services

**View OBS Requests** 

Date From:

OBS Service:

MSISDN 5

Date To:

Search for OBS Requests

View OBS Requests Manage OBS Services

View OBS Requests (1) View OBS Revenue

2009/08/21

2009/08/21

All

Manage Users

### To View OBS Requests:

1. Select View OBS Requests from the Navigation bar at the top of the page or from the links on the home page.

In the **Search for OBS Requests** section, you can narrow your search to a specific time period, service and/ or mobile phone number.

- 1. Use the date picker is to select a **start date** and **time**.
- Use the date picker is to select an end date and time.
- 3. Select an **OBS Service** from the dropdown list.
- If you wish, enter an MSISDN (international mobile phone number).
- 5. Click Search.
- Click Export to send a detailed report of the data to a CSV file where you can filter and sort the results in a spreadsheet application like Excel.



Your report will include one of the following status descriptions.

OBS Web Site Requests Statuses	
Status Description	What does it mean?

Figure 3 – View OBS Request parameters

**-** (4

OBS Web Site Requests Statuses	
Status Description	What does it mean?
Funds authorised	The funds you requested have been authorised.
Authentication failed	Authentication will fail if you enter an invalid service name, authentication code or service code.
Unsuccessful request	<ul> <li>At least one input parameter was invalid. You may have:</li> <li>entered an amount that is not allowed (some networks specify the amounts you may request)</li> <li>used an MSISDN that doesn't exist</li> </ul>
Invalid MSISDN	You have entered an invalid MSISDN. The number must be in international format where '0' is replaced by the South Africa code '27. Numbers greater than 11 digits will not be processed.
Minimum amount should be 0.50	The networks all specify minimum and maximum request amounts. No amounts less than 0.50 are allowed.
Maximum amount exceeded	Each service has a maximum amount that may be requested based on your OBS application.
Insufficient funds	There are insufficient funds in the account of the mobile phone user. Please refer to <b>Appendix A</b> – <b>Insufficient Funds</b> and <b>Re-attempts</b> on page <b>24</b> .
Service disabled	Please contact Grapevine. Our contact details are in the <b>Support</b> section of this manual on page <b>23</b> .
Attempts exceeded for insufficient funds	You have exceeded the daily number of times you can request funds from a mobile phone user with insufficient funds in their account. Please refer to <b>Appendix A</b> – <b>Insufficient Funds and Re-attempts</b> on page <b>24</b> .

 Table 5 – OBS Web Site Requests Statuses

### 4.3.2. View OBS Revenue

This report shows the total amount of money taken from mobile phone users' accounts over a selected time period.

Read more ...



It is essential for users of the External OBS to understand how revenue owing to them is calculated.

Understanding these requirements is a specific commercial condition of using the External OBS. Please familiarise yourself with **Appendix B - OBS Revenue Calculations** on page **25**.

Who has access to this function?

- Affiliate administrators can view revenue details for their company's services.
- Users can view revenue details for services they have been given permission to view.

#### To View OBS Revenue:

1.	Select <b>View OBS Revenue</b> from the <b>Navigation</b> bar at the top of the page or from the links on the home page.	OBS WEB SERVICE
		Home View OBS Requests Manage OBS Services Manage Users View OBS Revenue
		Welcome back, jane
		View OBS Requests     View OBS Revenue 1       Manage OBS Services     Manage Users
In t nar	the <b>View OBS Revenue</b> section, you can row your search to a specific time	View OBS Revenue
per	100.	Affiliate Name : acme corporation 👻
2. 3. 4.	Select a <b>Month</b> from the drop-down list. Select a <b>Year</b> from the drop-down list. Click <b>Generate</b> .	Generate Report 2 Month: August  Vear: 2009  Generate Generate

### 4.3.3. Manage Users

Use this function to view and update user details. From the **Manage Users** page you can also send notification to a user of their login details.

Who has access to this function?

- Affiliate administrators can view and update their company's users' details.
- Users do not have access to this function.

Affiliate administrators can change the following fields:

- first name
- last name
- land line
- mobile
- password
- user status

Affiliate administrators can delete, disable and enable users.

To Manage Users:

1. Select **Manage Users** from the **Navigation** bar at the top of the page or from the links on the home page.



The system lists all users linked to the services that you may view. If you are an Affiliate administration, you will only be able to view the profiles of users at your company.

- 2. Select the check box next to the user whose details you wish to update.
- 3. Click Update.
- 4. To add a new user, click Add New User.
- A. To send an email to a user with their login details, select the check box next to the name of the user you wish to email and click **Web Site**.
- B. Click on a column heading to sort the users.
- C. To delete, disable or enable a user, select the check box next to the name of a user and then click on the appropriate icon.

Mana	age Users							
Ð	Add New User	4						
Searc	h Results			C				
ß		5	$\bigotimes$	$\bigcirc$	e	)		
Web	Site	UPDATE	DELETE	ENABLE	DISAB	LE		
В	User Name	Affiliate Name	Role	First Name	Last Name	Land Line	Mobile	User Stati
2	acme admin	acme corporation	Admin	Jane	Bloggs	0215556789	0823456789	Enal
	acme affiliate	acme corporation	AffiliateAdmin	John	Brown	0213456789	0823456789	Enal
	acme joe	acme corporation	User	joe	acme	0213456789	0823456789	Disa

5.	Enter the details of the new user and then click <b>Create User</b> .	New User [	Details
	All input fields are mandatory and the	Sign	Up for Your New Account
	user name must be unique.	Amilate Name:	
		User Name:	
		Role	User
		First Name	
		Last Name	
		Password:	
		Confirm Password:	
		E-mail:	
		Landline	
		Mobile	
		User Status	Enabled
		Create User	5 Cancel

#### Note:

To find a specific user, click **Manage Users** on the **Navigation** bar, select a search parameter from the drop-down list, enter a search term in the **Search** box, and then click **Find**. To list all users, the **Search** box must be empty.

Find User	
lastname	Find

#### What next?

You are now ready to link these users to services. To do this, select **Manage OBS Services** from the **Navigation** bar at the top of the page or from the links on the **Home** page.

### 4.3.4. Manage OBS Services

Use this function to give users permission to view OBS requests and revenue details for their company.

Who has access to this function?

- Affiliate administrators can view details of their company's services and change the users associated with them.
- Users do not have access to this function.

Affiliate administrators can change the following:

• service descriptions

Affiliate administrators cannot disable, enable or delete services. Please contact Grapevine for assistance with this. Our contact details are in the **Support** section of this manual on page **23**.

### Notes:

- You may only assign users to services provided by your company.
- Apart from service descriptions, only Grapevine can change service details.

### To Manage OBS Services:

1.	Select Manage OBS Services from the Navigation bar at the top of the page or from the links on the home page.	OBS WEB SERVICE         Home       View OBS Requests         Manage OBS Services       Manage Users         View OBS Requests       View OBS Revenue         1       View OBS Requests         View OBS Requests       View OBS Revenue         View OBS Requests       View OBS Revenue         Manage OBS Services       1
2.	The system lists the services you may view. Select the check box next to the service to which you wish to add a user or from which you wish to remove a user. Click <b>Update</b> .	Manage OBS Services         Image OBS Service         Find OBS Services         Search Results
	Note: Only Grapevine administrators may add new OBS services.	Service Name     A Service Code Authentication Code Status
A.	Click on a column heading to sort the services.	4x4 backup     4x4 backup     4x4 backup     Enabled     clubs     clubs     clubs     clubs     B     Disabled
В.	enable or disable services.	outdoor logos mad cows mad cows Enabled
	Our contract datatile and in the Cumment	

Our contact details are in the **Support** section of this manual on page **23**.

- 4. To add users to a service, in the **Available Users** list box, highlight the user(s) that you wish to add and click **Add**.
- 5. To remove users from a service, In the **Associated Users** list box, highlight the user(s) that you wish to remove and click **Remove**.

### Note:

To select more than one user, press and hold **ctrl**, and click on multiple user names individually.

5. Click **Update Service**.

AffiliateName:	acme corporation	-	
Service Name:	classic screenshots		
Description:	classic screenshots		
Service Code:	SCR-108976-Local		
Authentication Code:	987123-01		
Status:	Enabled		
Max value:	0.50	•	
Associated Users	6	Available Users 5	
acme jane	<ul> <li>Add ( Remove &gt;&gt;</li> </ul>	acme joe oomkoos acme user jeanpaul 5 John Brown penny acme admin 6	*

### Note:

To find a specific service, select a search parameter from the drop-down list, enter a search term in the **Search** box, and then click **Find**. To list all services, the **Search** box must be empty.

Find OBS Services	
affiliatecode	Find
service_name	

### 4.4. External OBS Reports

You can view two kinds of reports on the External OBS web site:

- OBS Requests reports
- OBS Revenue reports

### 4.4.1. OBS Requests reports

To view the External OBS Requests report, select **View OBS Requests** from the **Navigation** bar at the top of the page or from the links on the **Home** page.

Search for OB	S Reques	ts									
Date From:	2009/10	/02	Hour 0	•	Minutes	00	-		F	ilter yo dat	our data by: e and time
Date To:	2009/10	/02	Hour 23	•	Minutes	59	•	-		ser a si	vice ngle
OBS Service:	4x4 bac	kup 👻						_		MS	ISDN
MSISDN				Se	arch						
Summary Infor Total request	mation s:		4	]			Sur	mmary informa	tion		
Summary Infor Total request Total failed: Total success Total amount	mation s: s:	ully authorised	4 3 0	•			Sur giv of s uns	mmary informa res you a bird's successful and successful requi	tion eye view etss		
Summary Infor Total request Total failed: Total success Total amount	mation s: s: successfi	ully authorised	4 3 0 R 0.00			C	Sur giv of s uns lick on	mmary informa ies you a bird's successful and successful requi n the column he	tion eye view etss radings		
Summary Infor Total request Total failed: Total success Total amount	mation s: s: successfi	ully authorised	4 3 0 R 0.00			Ci	Sur giv of s uns lick on sort	mmary informa es you a bird's successful and successful requ the column he your results.	tion eye view etss radings		
Summary Infor Total request Total failed: Total success Total amount	mation s: s: successfi	ully authorised	4 3 0 R 0.00			Ci tc	Sur giv of s uns lick on sort ;	mmary informa res you a bird's successful and successful requi the column he your results.	tion eye view etss radings		
Summary Infor Total request Total failed: Total success Total amount	mation s: s: successf	ully authorised	4 3 0 R 0.00	st	atus	Cl	Sur giv of s uns lick on o sort	mmary informa res you a bird's successful and successful requi the column he your results.	tion eye view etss radings Affiliate	Code	Service Name
Summary Infor Total request Total failed: Total success Total amount ate D09/10/02 10:4	mation s: successf	ully authorised MSISDN 27739771576	4 3 0 R 0.00 Amoun 50.00	St St	atus tempts exi	Ci tc	Sur giv of s uns lick on sort ; d for in	mmary informa ies you a bird's successful and successful requi the column he your results.	tion eye view etss radings Affiliate is outdoor	Code	Service Name
Summary Infor Total request Total failed: Total success Total amount ate 009/10/02 10:4	mation s: s: successf 46:32 AM 49:51 AM	ully authorised MSISDN 27739771576 27739771576	4 3 0 R 0.00 Amoun 50.00 50.00	St St	atus iempts exe sufficient f	Ci to ceede funds	Sur giv of s uns lick on sort ; d for in	mmary informa res you a bird's successful and successful requi the column he your results.	tion eye view etss radings Affiliate is outdoor outdoor	Code	Service Name 4x4 backup 4x4 backup
Summary Infor Total request Total failed: Total success Total amount ate 009/10/02 10:4 009/10/02 09:4	mation s: successf 46:32 AM 49:51 AM 49:35 AM	MSISDN 27739771576 27739771576 27739771576	4 3 0 R 0.00 50.00 50.00 50.00	St St Att	atus tempts exc sufficient f	Ci to ceede funds funds	Sur giv of s uns lick on o sort f	mmary informa ies you a bird's successful and successful requi in the column he your results.	tion eye view etss radings Affiliate is outdoor outdoor outdoor	Code	Service Name 4x4 backup 4x4 backup 4x4 backup
Summary Infor Total request Total failed: Total success Total amount ate 009/10/02 10:4 009/10/02 09:4 009/10/02 09:4	mation s: s: successf 46:32 AM 49:51 AM 49:35 AM 49:35 AM	MSISDN 27739771576 27739771576 27739771576 27739771576	4 3 0 R 0.00 50.00 50.00 50.00 50.00	t St Att In:	atus lempts exe sufficient f sufficient f	CC tc ceede funds funds	Sur giv of s uns lick on sort ;	mmary informa ies you a bird's successful and successful requi to the column he your results.	tion eye view etss adings Affiliate is outdoor outdoor outdoor	Code	Service Name 4x4 backup 4x4 backup 4x4 backup 4x4 backup 4x4 backup

Report 1 – OBS Requests Report

### 4.4.2. OBS Revenue report

To view the OBS Revenue report, select **View OBS Revenue** from the **Navigation** bar at the top of the page, or from the links on the **Home** page.

ffiliate Name : The Outdoor St	ore 👻							
Generate Report								
Month: October 👻 Year: 2009 👻 Generate BillingReports To Accounts								
	twork Revenue Authorised for The Outdoor Store View a summary of revenue for all the networks							
Network Revenue Author	rised for The Outdoor S	tore for all the ne	tworks		October 2009			
Network Revenue Author	rised for The Outdoor S Vodacom	tore for all the ne	CellC	:	October 2009 Total Amount (R)			
Network Revenue Author Network Amount	Vodacom R0.50	tore for all the ne MTN R0.00	CellC R0.54	; F	October 2009 Total Amount (R) R1.04			
Network Revenue Author Network Amount a ServiceName to go View OBS Requests	Vodacom R0.50	for all the ne for all the ne MTN R0.00 View a breakdown of revenue for each of the networks	CellC R0.54	; \$	October 2009 Total Amount (R) R1.04			
Network Revenue Author Network Amount ServiceName to go View OBS Requests	Vodacom R0.50	tore for all the ne MTN R0.00 View a breakdown of revenue for each of the networks	CellC R0.54	8	October 2009 Total Amount (R) R1.04			
Network Revenue Author Network Amount a ServiceName to go View OBS Requests \$ ServiceName	Vodacom R0.50	tore for all the ne for all the ne MTN R0.00 View a breakdown of revenue for each of the networks MTN	CellC	GrandTotal	October 2009 Total Amount (R) R1.04			
Network Revenue Author Network Amount 7 ServiceName to go View OBS Requests ServiceName calls of the wild	Vodacom R0.50 Vodacom R0.50	tore for all the ne for all the ne MTN R0.00 View a breakdown of revenue for each of the networks MTN R0.00	CellC R0.00	GrandTotal R0.00	October 2009 Total Amount (R) R1.04			
Network Revenue Author Network Amount a ServiceName to go View OBS Requests ServiceName calls of the wild outdoor logos	Vodacom R0.50 Vodacom R0.00 R0.00 R0.00	tore for all the ne for all the ne MTN R0.00 View a breakdown of revenue for each of the networks MTN R0.00 R0.00	CellC R0.54 CellC R0.00 R0.00	GrandTotal R0.00 R0.00	October 2009 Total Amount (R) R1.04			

Report 2 – OBS Revenue Report

# 5. Support

For Grapevine assistance, please call: +27 21 702-3333, or email <u>support@vine.co.za</u>.

### Notes:

- In order to be able to submit support requests, you need to ask Grapevine support to add you to our White List. This is a list of e-mail addresses and domain names from which our e-mail blocking program will allow messages.
- The External OBS URL and your login details will have been sent to you by email from Grapevine when you signed up for this service. Please contact us if you have access problems.
- When submitting a request, please ensure you have all your details at hand, including details of the error or problem you are experiencing. This includes any status codes you may have received and a description of what you were doing on the system at the time.

# **Appendix A - Insufficient Funds and Re-attempts**

The following describes what happens when Affiliates repeatedly request funds from mobile phone users who have insufficient funds in their accounts.

It is essential for users of the External OBS to understand and accept the process described below as it is a specific commercial condition of using the External OBS.

When you request funds request from a mobile phone that does not have enough airtime, you will receive a Debit Request response that the mobile phone user has **Insufficient Funds** (status code = 2) (see the **Debit Request Response Codes** table on page **9**).

The mobile phone networks charge for funds requests that are unsuccessful. In fact, some of the networks charge a sliding scale for unsuccessful funds requests, where the more unsuccessful attempts there are, the more they charge.

They have implemented this because, when they get an Insufficient Funds status, some OBS users will repeatedly keep requesting funds from a mobile phone in the hope that the phone user will top up their airtime at some point. This practice has put a huge load on the mobile networks' OBS infrastructure and so they are actively discouraging this practice by charging more for higher volumes of unsuccessful funds requests.

Under the terms of use for the Grapevine External OBS, an Affiliate may only attempt 3 times in any one day to request funds from a mobile phone where there are insufficient funds. If more than 3 attempts in one day are made to request funds for a particular mobile phone, then you will receive a response of **Maximum Daily Attempts Limit Reached** (status code = 6) (see the **Debit Request Response Codes** table on page **9**).

Please note that you will be charged for all unsuccessful funds requests, whether you receive status code 2 or status code 6.

In order to ensure that you do not pay excessively for unsuccessful attempts, please ensure that you write your application to limit the number of daily retries.

From a consumer-friendly point-of-view, if a consumer repeatedly does not have sufficient funds, it would probably be better to remove that person from your customer list than it would be to 'hound' their mobile phone account for funds.

If an Affiliate is seen to be over-requesting for funds which are unsuccessful, Grapevine has the right to suspend the Affiliate's OBS services.

# **Appendix B - OBS Revenue Calculations**

The following is a description of how the Grapevine calculates the revenue owing to Affiliates after the funds they requested from mobile phone users are authorised.

It is essential for users of the External OBS to understand and accept the calculations described below as it is a specific commercial condition of using the External OBS.

The main use of the External OBS is to allow Affiliates to get payment for their content. While the External OBS reporting interface will indicate clearly what amounts have been requested, the amounts shown are the total funds taken from the mobile phone user's account, and not an indication of the split of revenue between the Affiliate, the network and Grapevine.

The mobile networks have different methods of splitting OBS revenues with Grapevine; these calculations can vary considerably.

Grapevine is committed to making the most accurate revenue reports available to Affiliates who are using the External OBS. However, the result is not always perfect.

For example, under the current OBS from Vodacom, Vodacom first deducts VAT from the total amount and then a so-called "bearer fee" of R0.30. Thereafter, they deduct either 15% in the case of a contract mobile phone, or 24.5% in the case of a pre-paid mobile phone. The problem is that Grapevine has no way to know which mobile numbers are on contract and which numbers are on pre-paid. This means that a completely accurate calculation of exact revenue from each request to Vodacom is not possible. As a result, Grapevine will make best-effort assessments of the revenue from Vodacom and report these to the Affiliates monthly. While this is far from ideal, it is the reality that all OBS service providers are faced with. It also means that **Affiliates are required to agree that this is the case** and that Grapevine's revenue reports will be as accurate as we are able to make them.

Please note that Grapevine will only pay out funds to Affiliates once these have been received by Grapevine from the mobile networks. It is fairly common for networks to delay payment and for revenue disputes to occur. Grapevine will always push to get revenues paid by the networks as soon as possible, but only once Grapevine received revenues, will payments be made to the Affiliates.

# **Appendix C - Allowed Amounts**

The following are the minimum and maximum debit amounts in ZAR that you can ask for from network providers.

	Network Provider	Minimum Debit Amount	Maximum Debit Amount	
	MTN	R0.50	R50.00	
	Cell C	R0.50	R50.00	
	Vodacom	R0.50	R50.00	

MTN only allows the following amounts to be requested. Any other amounts requested will not be allowed.

R0.50 - R5.00	R5.24 - R10.00	R10:25 - R25.00	R28.00 - R50.00
0.50	5.24	10.25	28.00
0.86	5.50	10.50	29.50
0.99	5.75	10.75	29.99
1.00	5.99	11.00	30.00
1.20	6.00	11.25	32.00
1.25	6.25	11.50	33.00
1.50	6.50	11.75	34.99
1.75	6.75	11.99	35.00
1.98	6.99	12.00	36.00
2.00	7.00	12.25	38.00
2.25	7.25	12.50	39.50
2.49	7.50	12.75	39.99
2.50	7.75	13.00	40.00
2.75	7.99	13.25	45.00
2.99	8.00	13.50	49.50
3.00	8.25	13.75	49.99
3.25	8.50	14.00	50.00
3.50	8.75	14.25	
3.75	8.99	14.50	
3.99	9.00	14.75	
4.00	9.25	15.00	
4.25	9.50	16.00	
4.50	9.75	18.00	
4.75	9.95	19.50	
4.99	9.99	19.99	
5.00	10.00	20.00	
		22.00	
		22.99	
		24.99	
		25.00	

# **Appendix D - Web Service Definition**

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tm="http://microsoft.com/wsdl/mime/textMatching/"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:mime="http://schemas.xmlsoap.org/wsdl/mime/"
xmlns:tns="http://196.36.190.168/"
xmlns:s="http://www.w3.org/2001/XMLSchema"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/"
xmlns:http="http://schemas.xmlsoap.org/wsdl/http/"
<wsdl:definitions targetNamespace = "http://196.36.190.189/">
   <wsdl:documentation>
   <b>A External web service which performs Online Billing Services</b>
 </wsdl:documentation>
   <wsdl:types>
    <s:schema elementFormDefault = "qualified" targetNamespace = "http://196.36.190.189/">
      <s:element name = "ObsDebitRequest_Extr">
       <s:complexType>
         <s:sequence>
         <s:element minOccurs = "0" maxOccurs = "1" name = "ServiceName" type = "s:string"/>
         <s:element minOccurs = "0" maxOccurs = "1" name = "AuthenticationCode" type = "s:string"/>
         <s:element minOccurs = "0" maxOccurs = "1" name = "AffiliateCode" type = "s:string"/>
         <s:element minOccurs = "0" maxOccurs = "1" name = "Msisdn" type = "s:string"/>
         <s:element minOccurs = "1" maxOccurs = "1" name = "Amount" type = "s:double"/>
       </s:sequence>
      </s:complexType>
    </s:element>
      <s:element name = "ObsDebitRequest_ExtrResponse">
       <s:complexType>
       <s:sequence>
         <s:element minOccurs = "0" maxOccurs = "1" name = "ObsDebitRequest_ExtrResult" type =</pre>
"tns:ExternalObsStatus"/>
       </s:sequence>
      </s:complexType>
    </s:element>
    <s:complexType name = "ExternalObsStatus">
      <s:sequence>
       <s:element minOccurs = "1" maxOccurs = "1" name = "Ex_StatusCode" type = "s:int"/>
       <s:element minOccurs = "0" maxOccurs = "1" name = "Ex StatusDescription" type = "s:string"/>
      </s:sequence>
    </s:complexType>
    <s:element name = "ExternalObsStatus" nillable = "true" type = "tns:ExternalObsStatus"/>
   </s:schema>
 </wsdl:types>
 <wsdl:message name = "ObsDebitRequest ExtrSoapIn">
   <wsdl:part name = "parameters" element = "tns:ObsDebitRequest Extr"/>
 </wsdl:message>
 <wsdl:message name = "ObsDebitRequest ExtrSoapOut">
```

```
<wsdl:part name = "parameters" element = "tns:ObsDebitRequest ExtrResponse"/>
</wsdl:message>
<wsdl:message name = "ObsDebitRequest ExtrHttpGetIn">
 <wsdl:part name = "ServiceName" type = "s:string"/>
 <wsdl:part name = "AuthenticationCode" type = "s:string"/>
 <wsdl:part name = "AffiliateCode" type = "s:string"/>
 <wsdl:part name = "Msisdn" type = "s:string"/>
 <wsdl:part name = "Amount" type = "s:string"/>
</wsdl:message>
<wsdl:message name = "ObsDebitRequest_ExtrHttpGetOut">
 <wsdl:part name = "Body" element = "tns:ExternalObsStatus"/>
</wsdl:message>
<wsdl:message name = "ObsDebitRequest ExtrHttpPostIn">
 <wsdl:part name = "ServiceName" type = "s:string"/>
 <wsdl:part name = "AuthenticationCode" type = "s:string"/>
 <wsdl:part name = "AffiliateCode" type = "s:string"/>
 <wsdl:part name = "Msisdn" type = "s:string"/>
 <wsdl:part name = "Amount" type = "s:string"/>
</wsdl:message>
<wsdl:message name = "ObsDebitRequest ExtrHttpPostOut">
 <wsdl:part name = "Body" element = "tns:ExternalObsStatus"/>
</wsdl:message>
<wsdl:portType name = "ExternalObsWebServiceSoap">
 <wsdl:operation name = "ObsDebitRequest_Extr">
   <wsdl:input message = "tns:ObsDebitRequest_ExtrSoapIn"/>
   <wsdl:output message = "tns:ObsDebitRequest ExtrSoapOut"/>
 </wsdl:operation>
</wsdl:portType>
<wsdl:portType name = "ExternalObsWebServiceHttpGet">
 <wsdl:operation name = "ObsDebitRequest_Extr">
   <wsdl:input message = "tns:ObsDebitRequest ExtrHttpGetIn"/>
   <wsdl:output message = "tns:ObsDebitRequest_ExtrHttpGetOut"/>
 </wsdl:operation>
</wsdl:portType>
<wsdl:portType name = "ExternalObsWebServiceHttpPost">
 <wsdl:operation name = "ObsDebitRequest Extr">
   <wsdl:input message = "tns:ObsDebitRequest ExtrHttpPostIn"/>
   <wsdl:output message = "tns:ObsDebitRequest_ExtrHttpPostOut"/>
 </wsdl:operation>
</wsdl:portType>
<wsdl:binding name = "ExternalObsWebServiceSoap" type = "tns:ExternalObsWebServiceSoap">
 <soap:binding transport = "http://schemas.xmlsoap.org/soap/http"/>
 <wsdl:operation name = "ObsDebitRequest_Extr">
   <soap:operation soapAction = "http://196.36.190.189/ObsDebitRequest Extr" style = "document"/>
   <wsdl:input>
    <soap:body use = "literal"/>
   </wsdl:input>
   <wsdl:output>
    <soap:body use = "literal"/>
   </wsdl:output>
 </wsdl:operation>
</wsdl:binding>
```

```
<wsdl:binding name = "ExternalObsWebServiceSoap12" type = "tns:ExternalObsWebServiceSoap">
      <soap12:binding transport = "http://schemas.xmlsoap.org/soap/http"/>
     <wsdl:operation name = "ObsDebitRequest Extr">
         <soap12:operation soapAction = "http://196.36.190.189/ObsDebitRequest Extr"
                                                                                                                                                                                      style =
"document"/>
         <wsdl:input>
            <soap12:body use = "literal"/>
         </wsdl:input>
         <wsdl:output>
            <soap12:body use = "literal"/>
         </wsdl:output>
      </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name = "ExternalObsWebServiceHttpGet" type = "tns:ExternalObsWebServiceHttpGet">
      <http:binding verb = "GET"/>
      <wsdl:operation name = "ObsDebitRequest Extr">
         <http:operation location = "/ObsDebitRequest Extr"/>
         <wsdl:input>
            <http://www.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.coded.
         </wsdl:input>
         <wsdl:output>
            <mime:mimeXml part = "Body"/>
         </wsdl:output>
      </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name = "ExternalObsWebServiceHttpPost" type = "tns:ExternalObsWebServiceHttpPost">
      <http:binding verb = "POST"/>
      <wsdl:operation name = "ObsDebitRequest Extr">
         <http:operation location = "/ObsDebitRequest_Extr"/>
         <wsdl:input>
            <mime:content type = "application/x-www-form-urlencoded"/>
         </wsdl:input>
         <wsdl:output>
            <mime:mimeXml part = "Body"/>
         </wsdl:output>
      </wsdl:operation>
  </wsdl:binding>
  <wsdl:service name = "ExternalObsWebService">
      <wsdl:documentation>
         <b>A External web service which performs Online Billing Services</b>
      </wsdl:documentation>
      <wsdl:port name = "ExternalObsWebServiceSoap" binding = "tns:ExternalObsWebServiceSoap">
         <soap:address
                                                                                                             location
                                                                                                                                                                                                     =
"http://196.36.190.189/externalobswebservice/ExternalObsWebService.asmx"/>
     </wsdl:port>
     <wsdl:port name = "ExternalObsWebServiceSoap12" binding = "tns:ExternalObsWebServiceSoap12">
         <soap12:address
                                                                                                               location
                                                                                                                                                                                                     =
"http://196.36.190.189/externalobswebservice/ExternalObsWebService.asmx"/>
     </wsdl:port>
     <wsdl:port name = "ExternalObsWebServiceHttpGet" binding = "tns:ExternalObsWebServiceHttpGet">
                                                                                                            location
         <http:address
                                                                                                                                                                                                     =
"http://196.36.190.189/externalobswebservice/ExternalObsWebService.asmx"/>
```