

Access Code Logins

Unified Visitor Management

amigopod Technical Note

Revision 1.0 30 September 2010

United States of America +1 (888) 590-0882

Europe, Middle East & Asia +34 91 766 57 22

Australia & Pacific +61 2 8669 1140

http://www.amigopod.com

Copyright © 2010 amigopod. All rights reserved.

Table of Contents

Introduction	3
Audience	3
Document Overview	3
Disclaimer	3
Confirming Compatibility	4
Check Plugin Versions	4
Customizing Guest Manager	5
Customize Random Username and Passwords	5
	6
	b
Edit the Print Template	6
Customize Create Multi	8
Add username_auth the the Field List	8
Create Multiple Accounts	9
Create Multiple Accounts	9 9
Create Multiple Accounts Create Multi Create Multi Results	9 9 9
Create Multiple Accounts Create Multi Create Multi Results Print Cards	9 9 9 10
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page	9 9 10 12
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login Testing Authentication WLAN Controller and Access Point setup	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login Testing Authentication WLAN Controller and Access Point setup Authenticating	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login Testing Authentication WLAN Controller and Access Point setup Authenticating Troubleshooting	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login Testing Authentication WLAN Controller and Access Point setup Authenticating Troubleshooting Invalid username or password	
Create Multiple Accounts Create Multi Create Multi Results Print Cards Creating a Web Login Page Create a Web Login Testing Authentication WLAN Controller and Access Point setup Authenticating. Troubleshooting Invalid username or password Logging in timeout	

Introduction

This technical note explains the creation of bulk accounts and a login page that require a single access code for access to the network.

This method of authentication can be convenient for short-term access where security does not play as important of a role as security.

The accounts will be valid for 1 year, or 4 hours after the account first logs on.

NOTE The default username and password based authentication remains the preferred and recommend deployment for guest access.

Audience

This document is intended for network administrators and system integrators deploying an amigopod-based visitor management solution.

Basic familiarity with the amigopod Visitor Management Appliance is assumed. For in-depth information about the features and functions of the amigopod appliance, refer to the amigopod Deployment Guide.

Document Overview

The first section of the document explains configuring guest manager to create multiple accounts with the ability to login in with only the username. We will refer to this as an **Access Code**.

The next section will explain creating a web login that only requires the access code for entry onto the system

Finally, we will show you how to test the authentication.

Disclaimer

The topics of network design, security architectures and visitor access are complex subjects, and no single document can hope to cover all of the possible combinations of network equipment, network design, deployment requirements, and device configurations, nor can all the possible security implications for a particular recommendation be covered.

Therefore, while you read this document, it is best to consider it as a guide to developing your own understanding of the network design topics covered, and as a basis for further investigation.

Confirming Compatibility

Check Plugin Versions

Access Code logins requires the following plugin versions:

- amigopod RADIUS Services 3.0.4 or later
- GuestManager Plugin 3.0.3

To verify you have the correct plugin versions installed, navigate to **Administrator** > **Plugin Manager** > **Manage Plugins** and check the version number in the list.

Use the **Update Plugins** link to download and install updated plugins.

amigopod :: Guest WiFi Login
A + * http://10.0.1.210/sdk/app/access_code.php C Qr Google
guest wifi login
Please login to the network using your access code. Guest WiFi Login * Access Code: u1243dfx Log In
Contact a staff member if you are experiencing difficulty logging in.
copyright © 2010 amigopod pty ltd.

Customizing Guest Manager

Customize Random Username and Passwords

In this example we will set the random usernames and passwords to be a mix of letters and digits. Navigate to **Guest Manager > Customization > Customize Guest Manager**.



We have chosen an 8 character **Random letters and digits** username, and a **Password Complexity** of digits for the password. Note that the generator matching the complexity will also include a mix of upper and lower case letters.

* Expiration Options:	12 12 hours 16 16 hours 20 20 hours 24 1 day 48 2 days 72 3 days 96 4 days 120 5 days 144 6 days 168 1 week 336 2 weeks 8736 1 year The available options to select from when choosing the expiration time of a guest account. Expiration times are specified in hours.
* Lifetime Options:	60 1 hour 120 2 hours 180 3 hours 240 4 hours 360 6 hours 480 8 hours 720 12 hours 1440 1 day 2880 2 days 4320 3 days 10080 1 week

Our accounts will be created with an expiration of 1 year and a lifetime of 4 hours. By default the expiration list does not have a value for 1 year. We have added 8736 (24 * 365) as an additional value.

Create a Print Template

By default, the print templates include username, password, expiration, as well as other options. For the purpose of access codes, we only want the username presented.

Create the Print Template

We will base our print template off one of the existing scratch card templates. Navigate to **Guest Manager > Customization > Print Templates** and select **Two-column scratch cards** and click **Duplicate**.



Edit the Print Template

We need to replace Username for Access Code, as well as remove the extraneous data.



The exact text is provided below.

```
<thead>
Access Details
```

```
</thead>
<img
src="images/icon-user48.png" width="48" height="48" border="0"
alt="">
 Access Code
 <td class="nwaBody"
style="width:12em">{$u.username|htmlspecialchars}
 {if $u.create result.error}
 Error
 <span
class="nwaError">{$u.create result.message}</span>
 {/if}
```



Customize Create Multi

Create Multi is the screen used to generate accounts with random usernames and passwords. We need to modify it to add a flag to accounts to allow the access-code based authentication.

Add username_auth the the Field List

Navigate to **Guest Manager > Customization > Customize Forms & Views** and select **create_multi** and then click **Edit Fields**. Look for a field named **username_auth**.

If the field exists, but is not bolded and enabled, click Enable Field.



If the field does not exist, select a field that does (num_accounts) and select **Insert After**. Select **username_auth** from the **Field Name** dropdown and allow the page to refresh. The defaults should be acceptable, but feel free to customize the label or description.

Use this form to add a new field to the form create_multi.

Form Field Editor				
* Field Name:	username_auth Select the field definition to attach to the form.			
Form Displa These properties	y Properties control the user interface displayed for this field.			
Field:	Enable this field When checked, the field will be included as part of the form.			
* Rank:	9.5 Number indicating the relative ordering of user interface fields, which are displayed in order of increasing rank.			
* User Interface:	Checkbox The kind of user interface element to use when entering or editing this field.			
Label:	Username Authentication: Label for this field to display on the form.			
Description:	Visitors will require the login screen setup for username-I Descriptive text for this field, displayed with the user-interface element.			

Once the field is enabled or inserted, you should see it bolded in the list of fields.

9	username_auth	checkbox	Username Authentication:	Visitors will require the login screen setup for username-based authentication as well.
3	Edit 🛛 🌆 Edit Base Field	🔞 Remove 📥 I	nsert Before 🍃	Insert After 🔀 Disable Field

Create Multiple Accounts

With the account generation customized, we can now create our accounts.

Create Multi

Navigate to **Guest Manager > Create Multi** (or select **Use this form** from the previous fields list). We will create 10 accounts that will expire in 1 year, or 4 hours after they first log in, whichever comes first.

	 + * http://10 Create multiple guest Account username Account password: 	.0.1.210/sdk/app/create_multi.php Cr Google accounts, each with a randomly-assigned username and password. Image: Coople accounts, each with a randomly-assigned username and password. s will have 8 random letters and digits. Image: Coople accounts, each with a random letters and digits. s will be 8 characters long, and adhere to the current complexity requirements.
Guest Manager Start Here Create Account Create Multiple List Accounts	Create multiple guest Account username Account password	accounts, each with a randomly-assigned username and password. will have 8 random letters and digits. si will be 8 characters long, and adhere to the current complexity requirements.
 Start Here Create Account Create Multiple List Accounts 	Account username Account passwords	s will have 8 random letters and digits. will be 8 characters long, and adhere to the current complexity requirements.
List Accounts		
Edit Accounts		Create Guest Accounts
 Create MAC Device List MAC Devices Active Sessions 	* Number of Accounts:	10 © Number of visitor accounts to create.
 Import Accounts Export Accounts Customization 	Username Authentication:	Allow visitor access using their username only Visitors will require the login screen setup for username-based authentication as well.
 Guest Self-Registration Print Templates Customize Forms & 	* Account Role:	Cuest : Role to assign to this visitor account.
Views ➡ Customize Fields ➡ Customize Guest	Account Activation:	Now Select an option for changing the activation time of this account.
Manager Customize Email Receipt Customize SMS Receipt	Account Expiration:	Account expires after Select an option for changing the expiration time of this account.
Hotspot Manager Reporting Manager Advertising Services	Expires After:	1 year 🗘 Amount of time before this visitor account will expire.
Administrator RADIUS Services SMS Services Support Services CRM Services Test Skin Logout	* Expire Action:	Delete and logout at specified time Select an option for controlling the expiration of this account. Note that a logout can only occur if the NAS is RFC-3576 compliant.
	Account Lifetime:	4 hours : The amount of time after the first login before the visitor account will expire and be deleted.
		Create Accounts
	*	

NOTE Note that the Username Authentication field we added must be selected. Otherwise if the username is entered on the login screen, the authentication will be denied.

Create Multi Results

After clicking Create Accounts, the results page will be displayed with a list of accounts. If a large number of accounts are created at one time they may not all be displayed at the same time. This will not effect the printing action



Confirm that the accounts settings are as you expected with respect to letters and digits in the username and password, expiration, and role.

Print Cards

Select the new print template from the dropdown at the bottom of the table. A new window or tab will open with the cards.

00		amigopod :: Gues	t Account	Receipt	
	Access	Details		Access	s Details
9	Access Code	u1243dfx	9	Access Code	yvvtq1rd
	Access	Details		Access	s Details
8	Access Code	z9wakxnk	9	Access Code	mc3xpwim
	Access	; Details		Access	s Details
8	Access Code	yk2cppp6	8	Access Code	g4t5yyh6
	Access	Details		Access	s Details
9	Access Code	vw74ym0s	9	Access Code	75zsjapk
	Access	Details		Access	s Details
8	Access Code	ibjdtmc5	8	Access Code	iqzr92rd
			_		

NOTE Your method of printing and delivery to the customer should define the print template used in production. If you have a label printer, or cards, they should be tested prior to the creation of the actual accounts.

Creating a Web Login Page

The web login will need to be customized to hide the password, and check for accounts with the username_auth flag set.

Create a Web Login

Navigate to **RADIUS Services > Web Logins** and **click Create a new web login page** at the bottom of the table.

In our example we will create a page called **access_codes** that has been customized to our liking.



In order to provide access-code based authentication, we must also enable the Pre-Auth Check.



We also update the helper text to remove mention of username or password.

amigopod :: RADIUS Web Login					
	Title:	Guest WiFi Login The title to display on the web login page.			
Header HTML:		{if Serrmsg} {mwa_icontext type=error}Serrmsg}//nwa_icontext} {//if} Please login to the network using your access code.			
Footer	HTML:	Contact a staff member if you are experiencing difficulty logging in. (Insert content item			

Click Save Changes to create the web login.

Name	Page Title	Page Name	Page Skin
🚜 access_code			
This web login is setup for a single access code based login. Guest accounts will require the username_auth flag set.	Guest WiFi Login	access_code	(Default)
Edit 🕞 Duplicate 😵 Delete 🛶 Test			

Select Test to open the login page in a new window or tab.



Testing Authentication

WLAN Controller and Access Point setup

Please refer to your WLAN reference documentation where to configure the external redirection URL. Enter the URL as it appeared when clicking **Test**.

As a proof of concept, some of the below steps can be used without being connected to the WLAN. However the test will not do complete a RADIUS authentication to verify the complete setup.

Authenticating

Connect to the WLAN and open your browser to a web page. You should be redirect to the web login configured above. Enter one of the access codes generated previously.



Select Log In and you should briefly see a logging in message, followed by a successful authentication with the WLAN.



Troubleshooting

Invalid username or password

If you receive the error **Invalid username or password**, it could be due to an username that does not exist, which you can check in the List Accounts list. It could also be due to not selecting **Allow visitor access using their username only** while creating the accounts. To verify the flag, you can add **username_auth** to the **List Accounts** column view (**guest_users**), or the **guest_edit** form, and then edit the user.

Logging in timeout

If you sit on the logging in page until it times out, confirm that you have entered the WLAN settings correctly on the web login page.

WLAN Authentication Failure

If you get an error regarding authentication from the WLAN, ensure your RADIUS settings, especially the shared secret are configured correctly. RADIUS Services > Server Control > Debug RADIUS Server can be very useful in determining errors.