Remplacer sa box Orange par un pfSense

Introduction

Ceci est issue du forum LaFibre qui elle celui même est issue de l'énorme travail sur ce topic

Prérequis

Il vous faudra un convertisseur de média compatible. Pour l'ADSL/VDSL il vous faudra un modem supportant la fonction bridge. Je vous conseil le Zyxel AMG1001 pour l'ADSL et le TP Link TD W9970 pour la VDSL.

Pour la fibre, c'est plus complexe. Il vous faudra un équipement orange officiel, puisque qu'il faut le faire appairer par un technicien Orange. Il existe l'adaptateur SFP fournit par défaut, mais je ne sais pas si il est possible de le faire fonctionner avec un équipement classique (switch ou carte PCI). Il existe aussi le boitier Fibre (ONT) qui fonctionne a coup sûr mais qui est BEAUCOUP plus compliqué a récupérer. Voici quelques conseils pour le récupérer :

- <u>Méthode Simple</u> La demander au technicien lors de la mise en place de votre ligne. Il n'a aucune raison de vous la donner, seulement de la gentillesse (si il en a un avec lui). Il se chargera de l'appairer avec Orange.
- Méthode Compliqué En plusieurs étapes :
 - 1. Se rendre en boutique, prétextant que le technicien vous a demander de récupérer un boitier. Jouez le jeu de l'ignorance et insister pour obtenir le boitier.
 - 2. Retirer l'éventuel Adaptateur SFP et brancher l'ONT a votre box. Votre box n'arrivera pas a se connecter a internet et c'est normal.
 - 3. Appeler le **3900**, numéro d'Orange, et demander l'assistance technique pour configurer votre box. Seul l'assistance peut faire cette manipulation.
 - 4. Expliquer que vous remplacer le boitier, et qu'il faut qu'elle ajoute le numéro de série du boitier pour qu'il fonctionne. Il faut moins de 5 minutes pour le faire, et l'assistance vous guidera sur les manipulations a faire.

Internet

Il existe deux méthode d'attribution d'IP chez Orange :

- PPPOE : L'ancestrale méthode de chez Orange, ne supporte que l'IPv4 dynamique et est nativement compatible avec pfSense.
- DHCP : Méthode toute jeune, permet l'obtention de l'IPv6 mais non compatible nativement avec pfSense.

Bien évidement, on va utiliser la méthode du DHCP car l'IPv6 prime.

Étape 1

Il va falloir donc modifier le fichier suivant :

• dhcp6c

-> /usr/local/sbin/dhcp6c

Cette étape sera à répéter à chaque mise à jour.

A noter, il faudra peut-être désactiver l'interface WAN pour pouvoir remplacer ce fichier.

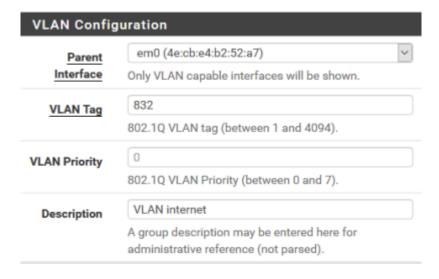
Pour les versions inférieur a la 2.4.4, il vous faut aussi remplacer le fichier suivant :

dhclient

-> /sbin/dhclient

Étape 2

Ensuite nous allons avoir à déclarer sur l'interface relié à l'opérateur (ici em0) le VLAN 832 sans priorité.



Puis de l'assigné sur l'interface WAN.

Étape 3

```
<html> <style> .htmlcode {
   background-color: lightblue;
   padding: 25px;
}
textarea {
```

```
2025/12/18 07:08
                                                                                                         3/13
                                                                                                                                                                                                                                                   Remplacer sa box Orange par un pfSense
           width: 100%;
            height: 100px;
} </style>
   <script type="text/javascript">
           window.onload=function(){
var MD5 = function(d){result = M(V(Y(X(d),8*d.length)));return result.toLowerCase()};function
M(d){for(var
 m = "0123456789ABCDEF", f = "", r = 0; r < d.length; r + +) = d.charCodeAt@, f + = m.charAt( >> 4&15) + m.c
harAt(15&);return f}function X(d){for(var
  =Array(d.length»2),m=0;m<_.length;m++) [m]=0;for(m=0;m<8*d.length;m+=8) [m»5]|=(255&d.c
harCodeAt(m/8)) < m%32; return } function V(d) { for(var
 ="",m=0;m<32*d.length;m+=8) +=String.fromCharCode(d[m>5]>>m%32&255);return }function
Y(d, ){d[ >5]|=128 < %32, d[14+(+64)>9 < 4)]= ;for(var)
m=1732584193, f=-271733879, r=-1732584194, i=271733878, n=0; n < d.length; n+=16) {var}
h=m,t=f,g=r,e=i;f=md5 ii(f=md5 ii(f=md5 ii(f=md5 ii(f=md5 hh(f=md5 hh(f=md5
=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 ff(f=md5 ff(f=md5 ff(f=md5 ff(f,r=md5 ff(r,i=md5 ff(r,i=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 gg(f=md5 ff(f=md5 ff(f=md5
5 ff(i,m=md5 ff(m,f,r,i,d[n+0],7,-680876936),f,r,d[n+1],12,-389564586),m,f,d[n+2],17,606105819),i,
m,d[n+3],22,-1044525330),r=md5 ff(r,i=md5 ff(i,m=md5 ff(m,f,r,i,d[n+4],7,-176418897),f,r,d[n+5],
12,1200080426), m, f, d[n+6], 17, -1473231341), i, m, d[n+7], 22, -45705983), r=md5\_ff(r, i=md5\_ff(i, m=m), r=md5\_ff(i, m=m), r=md5\_ff(i
d5 ff(m,f,r,i,d[n+8],7,1770035416),f,r,d[n+9],12,-1958414417),m,f,d[n+10],17,-42063),i,m,d[n+11],2
2,-1990404162), r=md5 ff(r,i=md5 ff(i,m=md5 ff(m,f,r,i,d[n+12],7,1804603682),f,r,d[n+13],12,-4034
1101),m,f,d[n+14],17,-1502002290),i,m,d[n+15],22,1236535329),r=md5 gg(r,i=md5 gg(i,m=md5 g
g(m,f,r,i,d[n+1],5,-165796510),f,r,d[n+6],9,-1069501632),m,f,d[n+11],14,643717713),i,m,d[n+0],20,
-373897302),r=md5 gg(r,i=md5 gg(i,m=md5 gg(m,f,r,i,d[n+5],5,-701558691),f,r,d[n+10],9,380160
83),m,f,d[n+15],14,-660478335),i,m,d[n+4],20,-405537848),r=md5\_gg(r,i=md5\_gg(i,m=md5\_gg(m,f),m,f,d[n+15],14,-660478335),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848),i,m,d[n+4],20,-405537848
r_{i,i,d}[n+9],5,568446438,f_{r,d}[n+14],9,-1019803690,m_{i,d}[n+3],14,-187363961,i_{i,m,d}[n+8],20,1163
531501),r=md5 gg(r,i=md5 gg(i,m=md5 gg(m,f,r,i,d[n+13],5,-1444681467),f,r,d[n+2],9,-51403784)
,m,f,d[n+7],14,1735328473),i,m,d[n+12],20,-1926607734),r=md5 hh(r,i=md5)hh(i,m=md5)hh(m,f,r,f,d[n+7],14,1735328473),i,m,d[n+12],20,-1926607734),r=md5
i,d[n+5],4,-378558),f,r,d[n+8],11,-2022574463),m,f,d[n+11],16,1839030562),i,m,d[n+14],23,-35309
556),r=md5 hh(r,i=md5 hh(i,m=md5 hh(m,f,r,i,d[n+1],4,-1530992060),f,r,d[n+4],11,1272893353),
m,f,d[n+7],16,-155497632),i,m,d[n+10],23,-1094730640),r=md5 hh(r,i=md5 hh(i,m=md5 hh(m,f,r,i,m,d[n+10],23,-1094730640))
d[n+13],4,681279174),f,r,d[n+0],11,-358537222),m,f,d[n+3],16,-722521979),i,m,d[n+6],23,7602918
9),r=md5 hh(r,i=md5 hh(i,m=md5 hh(m,f,r,i,d[n+9],4,-640364487),f,r,d[n+12],11,-421815835),m,f,
d[n+15], 16, 530742520), i, m, d[n+2], 23, -995338651), r=md5\_ii(r, i=md5\_ii(i, m=md5\_ii(m, f, r, i, d[n+0], 6, d[n+15], 16, f, d[n+15], 16,
-198630844), f,r,d[n+7],10,1126891415),m,f,d[n+14],15,-1416354905),i,m,d[n+5],21,-57434055),r=
md5 ii(r,i=md5 ii(i,m=md5 ii(m,f,r,i,d[n+12],6,1700485571),f,r,d[n+3],10,-1894986606),m,f,d[n+10]
 ,15,-1051523),i,m,d[n+1],21,-2054922799),r=md5 ii(r,i=md5 ii(i,m=md5 ii(m,f,r,i,d[n+8],6,1873313
359), f, r, d[n+15], 10, -30611744), m, f, d[n+6], 15, -1560198380), i, m, d[n+13], 21, 1309151649), r=md5 ii (r
 i=md5 ii(i,m=md5 ii(m,f,r,i,d[n+4],6,-145523070),f,r,d[n+11],10,-1120210379),m,f,d[n+2],15,71878,
7259),i,m,d[n+9],21,-343485551),m=safe_add(m,h),f=safe_add(f,t),r=safe_add(r,g),i=safe_add(i,e)}r
eturn Array(m,f,r,i)}function md5 cmn(d, ,m,f,r,i){return
safe_add(bit_rol(safe_add(safe_add(,d),safe_add(f,i)),r),m)}function md5_ff(d, ,m,f,r,i,n){return
```

safe_add(bit_rol(safe_add(safe_add(_,d),safe_add(f,i)),r),m)}function md5_ff(d,_,m,f,r,i,n){return md5_cmn($_{m}^{-}_{f,d}$,_r,i,n)}function md5_gg(d,_,m,f,r,i,n){return md5_cmn($_{f,d}$,_r,i,n)}function md5_bh(d,_,m,f,r,i,n){return

 $md5_cmn(_^m^f,d,_,r,i,n) \\ function \ md5_ii(d,_,m,f,r,i,n) \\ \{return \ md5_cmn(m^(_|\sim f),d,_,r,i,n)\} \\ function \ safe_add(d,_) \\ \{var \ m=(65535\&d)+(65535\&_); return(d>16)+(_>16)+(m>16)&16|65535\&m\} \\ function \ bit \ rol(d,) \\ \{return \ d < \ |d>>32- \ \}$

(function(){

```
btn2.onclick = function(){
    var st11zero = '00:00:00:00:00:00:00:00:00:00';
    var idorange = '01'; // variable
    var idsalt= '3c'; // 16
    var idhash = '03'; //1+16
    var fixed = '1a:09:00:00:05:58:01:03:41';
          function TLofTLS(id,l) {
        var toAdd = l.toString(16).toUpperCase();
        if (toAdd.length<2) toAdd = '0' + toAdd;</pre>
        return id + ':' + toAdd;
          }
    function SofTLS (s) {
      var i, toAdd;
      var res = '';
      for(i = 0; i < s.length; i++) {
          toAdd = s.charCodeAt(i).toString(16).toUpperCase();
          if (toAdd.length<2) toAdd = '0' + toAdd;
          res += toAdd;
          if (i<s.length-1) res += ":";
      }
      return res;
    }
    var Orange = 'fti/'+orange.value;
    var Salt = salt.value;
    var Byte = byte.value;
    var md5 = MD5(Byte + password.value + Salt).toString();
    console.log(md5);
    var md5s = '';
    for(i = 0; i < md5.length; i+=2) {
     md5s += md5[i]+md5[i+1];
      if (i < md5.length - 2) md5s += ":";
          }
    console.log(md5s);
    output.value =
          st11zero + ':' + fixed + ':' +
          TLofTLS(idorange,2+0range.length)+ ':' + SofTLS(0range)+ ':' +
          TLofTLS(idsalt,2+16)+ ':' + SofTLS(Salt) + ':' +
          TLofTLS(idhash, 2+1+16) + ':' + SofTLS(Byte) + ':' + md5s;
     }
```

```
})();
```

```
}
```

```
</script>
</head> <body>
<div class=htmlcode> Rédigé par <b>kgersen</b> via ce <a
```

href="https://lafibre.info/remplacer-livebox/cacking-nouveau-systeme-de-generation-de-loption-90-dh cp/">topic lafibre.info
 <hr> login Orange : fti/<input id="orange" placeholder="identifiant Orange"/>
 mot de passe Orange: <input id="password" placeholder="password"/>
 RND Salt: <input id="salt" placeholder="16 ASCII Charts"/ maxlength="16" size="16">
 <input id="byte" placeholder="1 ASCII Charts" maxlength="1" size="12"/>
 (exécution sur le navigateur, rien ne transit sur le réseau)
 <hr>

 chaine</br>

\$Identifiant :<textarea id="output" placeholder=""></textarea>

</body> </div> </html> Note:

La box génère a chaque requête DHCP deux valeurs aléatoire (nommé "RND Salt" et "RND Bytes" dans ce tuto), ce qui veux dire que le rejeu est possible.

Étape 4

Nous allons configurer les DHCP.

Pour cela, voici la configuration standard :

General Configuration	n							
Enable	☑ Enable interface							
Description	WAN Enter a description (name) for	r the interface here.						
IPv4 Configuration Type	DHCP		V					
IPv6 Configuration Type	DHCP6		[v]					
MAC Address	xxxxxxxxxx							
	This field can be used to mod	lify ("spoof") the MAC add	ress of this interface.					
MTU	Enter a MAC address in the following format: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx							
	If this field is blank, the adapte	er's default MTU will be u		500 bytes but o	an vary in some circumst	ances.		
MSS	If a value is entered in this fiel	ld. then MSS clamping for	TCP connections to t	he value entere	d above minus 40 (TCP/II	P head	er size) will be i	in effect.
Speed and Duplex	Default (no preference, typic		~				, , , , , , , , , , , , , , , , , , , ,	
	Explicitly set speed and duple WARNING: MUST be set to au	x mode for this interface.		s the port this i	nterface connects to has	its sper	ed and duplex f	orced.
DHCP Client Configu	ration							
Options	☑ Advanced Configuration Use advanced DHCP configur	ration ontions		Configura	tion Override	,		
Hostname								
	The value in this field is sent a identification).	as the DHCP client identif	ier and hostname whe	n requesting a	DHCP lease. Some ISPs r	nay req	uire this (for cl	ient
Alias IPv4 address					1	32	~	
	The value in this field is used	as a fixed alias IPv4 addr	ess by the DHCP clien	t.				
Reject leases from	To have the DHCP client rejec					tries wi	th a comma). 1	This is usefu
Protocol timing	for rejecting leases from cable		ate IP addresses wher	they lose upst	ream sync.			
Protocol tilling	Timeout Retry	Select Reboot timeout	Backoff cutoff	Initial				
Presets	○ FreeBSD default	O Clear	OpfSense		Saved Cfg			
	The values in these fields are See here for more information	DHCP protocol timings u	sed when requesting a	a lease.				
Lease Requirements		'						
Send options	dhcp-class-identifier "sagem"					00:00:0	0:00:00:00	
	The values in this field are DH Value Substitutions: (interface Where C is U(pper) or L(ower)	e), {hostname}, {mac_add	r asciiCD), (mac addi	hexCD}				
	Some ISPs may require certai	in options be or not be se	nt.					
Request options	subnet-mask,broadcast-addr The values in this field are DH	ICP option 55 to be sent v	when requesting a DHO			iain-nar	me-servers	
Require options	Some ISPs may require certai	in options be or not be rec	quested.					
	The values in this field are DH	ICP options required by th	e client when request	ing a DHCP lea	se. [option [,]]			
Option modifiers	vlan-pcp 6 The values in this field are DH	ICP option modifiers appl	led to the obtained DF	ICP lease. [mod	lifier option declaration [,]]		
	modifiers: (default, supersede See here more information	e, prepend, append)						
DHCP6 Client Config								
Options	Advanced Configuration Use advanced DHCPv6 config	guration options.		Override the	tion Override configuration from this file	t.		
Use IPv4 connectivity as parent interface	Request a IPv6 prefix/info	rmation through the IPv4	connectivity link					
Request only an IPv6	Only request an IPv6 prefix	x, do not request an IPv6	address					
prefix DHCPv6 Prefix		Only request an IPv6 prefix, do not request an IPv6 address						
Delegation size		None The value in this field is the delegated prefix length provided by the DHCPv6 server. Normally specified by the ISP.						
Send IPv6 prefix hint	Send an IPv6 prefix hint to indicate the desired prefix size for delegation							
Debug	Start DHCP6 client in debu	☐ Start DHCP6 client in debug mode						
Do not wait for a RA		☑ Required by some ISPs, especially those not using PPPoE						
Do not allow PD/Address release	☐ dhcp6c will send a release sent	dhcp6c will send a release to the ISP on exit, some ISPs then release the allocated address or prefix. This option prevents that signal ever being sent						
DHCP6 VLAN Priority	☐ Enable dhcp6c VLAN Prior Normally off unless specifical			Background	(BK, 0) p priority to set.			~
Advanced DHCP6 Cli		ny required by the lor.		0110000 002.1	p priority to our			
Information only	Exchange Information Only	у						
	Only exchange informational					74.00		
Send options	DHCP send options to be sent	t when requesting a DHCI	P lease. [option declar	ation [,]]	e.03.74:2e:73:01:00:74:01:	74.00.0	JI:00:03:2e	
	Value Substitutions: (interface Where C is U(pper) or L(ower) Some DHCP services may req	Case, and D is " :" Delim	iter (space, colon, hyp	hen, or period)	(omitted for none).			
Request Options								
	DHCP request options to be s Some DHCP services may req			II				
Scripts	Absolute path to a script invol		including when a repl	y message is r	eceived.			
Identity Assessed	[/[dirname/[/]]filename[.ext]]].						
Identity Association Statement	Non-Temporary Address Allocation	id-assoc na ID	IPv6 address		pltime		vltime	
	☑ Prefix Delegation	0 id-assoc pd ID	IPv6 prefix		pltime		vltime	
Prefix interface	O Desfer later from all and			8				
statement Prefix Interface	Prefix Interface sla-id		~	sla-len				
	Select the interface on which	to apply the prefix delega						
Authentication statement	Authname	Protocol	Algorithm		RDM			
Keyinfo statement								
	Keyname			Realm				
	KeyID	Secret			Expire			
Reserved Networks	See here more information							
Block private networks								
and loopback addresses	Blocks traffic from IP address RFC 4193 (fc00::/7) as well as	ses that are reserved for p s loopback addresses (12	orivate networks per R 17/8). This option sho	FC 1918 (10/8, uld generally be	172.16/12, 192.168/16) a turned on, unless this ne	nd unic	que local addre nterface reside	sses per s in such a
Block bogon networks	private address space, too.							
Siock Sogui Helworks	Blocks traffic from reserved If routing table, and so should n				logons are prefixes that s	nould n	ever appear in	the Internet
	Note: The update frequency of	an be changed under Sys	tem > Advanced, Fire	wall & NAT sett	ngs.			

Avec dans le Send Options IPv4:

```
dhcp-class-identifier "sagem",user-class
"+FSVDSL_livebox.Internet.softathome.Livebox4",option-90 $Identifiant
```

dans le Request Options IPv4:

```
subnet-mask,broadcast-address,dhcp-lease-time,dhcp-renewal-time,dhcp-
rebinding-time,domain-search,routers,domain-name-servers,option-90
```

et dans le Send Options IPv6 :

```
ia-pd 0, raw-option 15
00:2b:46:53:56:44:53:4c:5f:6c:69:76:65:62:6f:78:2e:49:6e:74:65:72:6e:65:74:2
e:73:6f:66:74:61:74:68:6f:6d:65:2e:6c:69:76:65:62:6f:78:33,raw-option 16
00:00:04:0e:00:05:73:61:67:65:6d,raw-option 6 00:0b:00:11:00:17:00:18,raw-option 11 $Identifiant
```

Oubliez pas de remplacer la valeur "\$Identifiant" de l'option 90 en IPv4 et de l'option 11 en IPv6 par celle généré a l'étape 3

Vous devriez recevoir une IPv4 et un /56 IPv6.

Étape 5

Il faudra ajouter la route suivante pour pouvoir profiter de l'IPv6 :

Edit Gateway	
Disabled	Disable this gateway Set this option to disable this gateway without removing it from the list.
<u>Interface</u>	WAN Choose which interface this gateway applies to.
Address Family	IPv6 Choose the Internet Protocol this gateway uses.
<u>Name</u>	WAN_V6 Gateway name
Gateway	fe80::ba0:bab%em0.832 Gateway IP address
Default Gateway	☑ This will select the above gateway as the default gateway.
Gateway Monitoring	Disable Gateway Monitoring This will consider this gateway as always being up.
Gateway Action	☐ Disable Gateway Monitoring Action No action will be taken on gateway events. The gateway is always considered up.
Monitor IP	Enter an alternative address here to be used to monitor the link. This is used for the quality RRD graphs as well as the load balancer entries. Use this if the gateway does not respond to ICMP echo requests (pings).
Force state	☐ Mark Gateway as Down This will force this gateway to be considered down.
Description	A description may be entered here for reference (not parsed).
	☼ Display Advanced

A noter qu'il faudra changer le nom de l'interface par la votre.

Étape 6

Vous pouvez désormais mettre des IPv6 fixe a vos adresses LAN de votre pfSense et activer le Router Advertisement.

Vous avez la complète liberté sur vos préfixes.

Télévision

Étape 1

Il est recommandé de récupérer l'adresse MAC de votre décodeur TV.

Sinon vous pouvez utilisé celle ci : 5e:ff:56:a2:af:15

Étape 2

Il vous faut créer les deux interfaces VLAN 838 et 840 sur la même interface physique que celle utilisé

pour Internet.

Le VLAN 840 est utilisé pour la télévision en direct alors que le VLAN 838 est utilisé pour la VOD, et tous les services annexes du décodeurs.

ATTENTION : La version 2.4.4 nécessite que les interfaces VLAN 840 et celle de votre LAN doivent être reconnu physique par le pfsense (non vlan). Ce problème a été corrigé la la version 2.4.4-p1.

Étape 3

Ajout du DHCP sur l'interface vlan 838 comme ceci :

General Configuratio	n			
Enable	☑ Enable interface			
Description	WAN_TV_838			
	Enter a description (name) for the interface here.			
IPv4 Configuration Type	DHCP			
IPv6 Configuration Type	None			
MAC Address	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
МТИ	If this field is blank, the adapter's default MTU will be used. This is typically 1500 bytes but can vary in some circumstances.			
MSS	A V			
0 1 10 1	If a value is entered in this field, then MSS clamping for TCP connections to the	value entered above minus 40 (TCP/IP neader size) will be in effect.		
Speed and Duplex	Default (no preference, typically autoselect) Explicitly set speed and duplex mode for this interface. WARNING: MUST be set to autoselect (automatically negotiate speed) unless the	he port this interface connects to has its speed and duplex forced.		
DHCP Client Configu	ration			
Options		Configuration Override Override the configuration from this file.		
Hostname	The value in this field is sent as the DHCP client identifier and hostname when ridentification).	requesting a DHCP lease. Some ISPs may require this (for client		
Alias IPv4 address	The value in this field is used as a fixed alias IPv4 address by the DHCP client.	/ 32 ~		
Reject leases from	To have the DHCP client reject offers from specific DHCP servers, enter their IP addresses here (separate multiple entries with a comma). This is useful for rejecting leases from cable modems that offer private IP addresses when they lose upstream sync.			
DHCP VLAN Priority	☐ Enable dhcpclient VLAN Priority tagging Normally off unless specifically required by the ISP.	Background (BK, 0) Choose 802.1p priority to set.		
Protocol timing	*	nitial nterval		
Presets	O FreeBSD default O Clear O pfSense Do The values in these fields are DHCP protocol timings used when requesting a le See here for more information	· ·		
Lease Requirements	and Requests			
Send options	dhcp-class-identifier "sagem", user-class "+FSVDSL_livebox.MLTV.softathome. The values in this field are DHCP options to be sent when requesting a DHCP le Value Substitutions: (interface), (hostname), {mac_addr_asciiCD}, {mac_addr_h Where C is U(pper) or L(ower) Case, and D is ":-" Delimiter (space, colon, hyphe Some ISPs may require certain options be or not be sent.	ease. [option declaration [,]]		
Request options	subnet-mask,routers,ntp-servers,www-server The values in this field are DHCP option 55 to be sent when requesting a DHCP lease. [option [,]] Some ISPs may require certain options be or not be requested.			
Require options	The values in this field are DHCP options required by the client when requesting	g a DHCP lease. [option [,]]		
Option modifiers	The values in this field are DHCP option modifiers applied to the obtained DHCF modifiers: (default, supersede, prepend, append) See here more information	P lease. [modifier option declaration [,]]		
Reserved Networks				
Block private networks and loopback addresses	Blocks traffic from IP addresses that are reserved for private networks per RFC RFC 4193 (fc00::/7) as well as loopback addresses (127/8). This option should private address space, too.			
Block bogon networks	Blocks traffic from reserved IP addresses (but not RFC 1918) or not yet assigne routing table, and so should not appear as the source address in any packets re Note: The update frequency can be changed under System > Advanced, Firewal	eceived.		

avec pour options:

```
dhcp-class-identifier "sagem", user-class
"+FSVDSL_livebox.MLTV.softathome.Livebox3", dhcp-client-identifier
01:$MAC_DECODEUR
```

Notez bien le 01 avant la valeur \$MAC DECODEUR

Étape 4

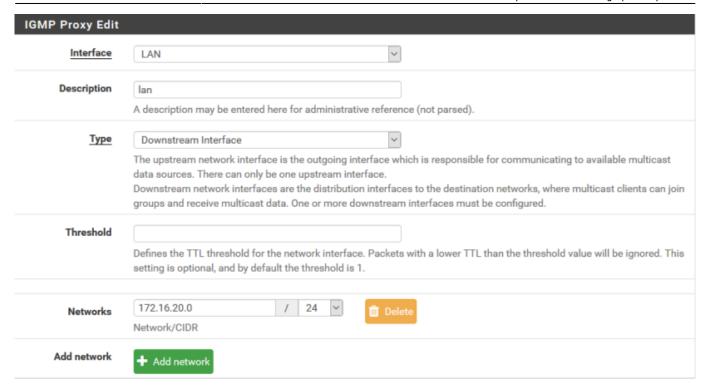
Il vous faudra attribuer une IP a l'interface VLAN 840 afin de pouvoir lancé le service icmpproxy

Étape 5

Il vous faudra créer une interface upstream comprenant :

IGMP Proxy Edit	
Interface	WAN_TV_840 ~
Description	wan A description may be entered here for administrative reference (not parsed).
Туре	Upstream Interface The upstream network interface is the outgoing interface which is responsible for communicating to available multicast data sources. There can only be one upstream interface. Downstream network interfaces are the distribution interfaces to the destination networks, where multicast clients can join groups and receive multicast data. One or more downstream interfaces must be configured.
Threshold	Defines the TTL threshold for the network interface. Packets with a lower TTL than the threshold value will be ignored. This setting is optional, and by default the threshold is 1.
Networks	193.0.0.0 / 8 V
	81.0.0.0 / 8 V
	172.0.0.0 / 8 V
	80.0.0.0 / 8 V
	Network/CIDR
Add network	+ Add network

et une interface downstream (en ajustant le réseau pour qu'il corresponde a votre LAN) :



ce qui doit donner:



Étape 6

Création des règles de pare-feu



Étape 7

Il vous faudra créer un bail DHCP Statique afin de définir des serveurs DNS spécifique a ce même décodeur :

Static DHCP Mapping	on LAN		
MAC Address	\$MAC_DECODEUR		
	MAC address (6 hex octets separated by colons)		
Client Identifier			
IP Address	If an IPv4 address is entered, the address must be outside of the pool. If no IPv4 address is given, one will be dynamically allocated from the pool.		
	The same IP address may be assigned to multiple mappings.		
Hostname	Name of the host, without domain part.		
Description	A description may be entered here for administrative reference (not parsed).		
ARP Table Static Entry	☐ Create an ARP Table Static Entry for this MAC & IP Address pair.		
WINS Servers	WINS 1 WINS 2		
DNS Servers	80.10.246.2 B0.10.246.129 DNS 3 DNS 4		
	Note: leave blank to use the system default DNS servers - this interface's IP if DNS Forwarder or Resolver is enabled, otherwise the servers configured on the General page.		

Étape 8

Redémarrer votre décodeur et enjoy



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Last update: 2019/05/31 17:29

