

Remplacer sa box Orange par un pfSense

Introduction

Ceci est issu 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 conseille 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 à coup sûr mais qui est BEAUCOUP plus compliqué à récupérer. Voici quelques conseils pour le récupérer :

- Méthode Simple - 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 demandé 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 à votre box. Votre box n'arrivera pas à se connecter a internet et c'est normal.
 3. Appeler le **3900**, numéro d'Orange, et demander l'assistance technique pour configurer votre box. Seule 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 à faire.

Internet

Il existe deux méthodes 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 évidemment, 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 inférieures 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.

VLAN Configuration	
<u>Parent Interface</u>	em0 (4e:cb:e4:b2:52:a7) v Only VLAN capable interfaces will be shown.
<u>VLAN Tag</u>	832 802.1Q VLAN tag (between 1 and 4094).
<u>VLAN Priority</u>	0 802.1Q VLAN Priority (between 0 and 7).
<u>Description</u>	VLAN internet A group description may be entered here for administrative reference (not parsed).

Puis de l'assigné sur l'interface WAN.

Étape 3

```
<html> <style> .htmlcode {
```

```
background-color: lightblue;  
padding: 25px;
```

```
}
```

```
textarea {
```

```
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(r),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_hh(f=md5_hh(f
=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=md
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
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
,r,i,d[n+9],5,568446438),f,r,d[n+14],9,-1019803690),m,f,d[n+3],14,-187363961),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,
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,
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,
-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
md5_cmn(_&m|~_&f,d,_,r,i,n)}function md5_gg(d,_,m,f,r,i,n){return
md5_cmn(_&f|m&~f,d,_,r,i,n)}function md5_hh(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^(_~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 stllzero = '00:00:00:00:00:00:00:00:00:00:00';
        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;
            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 =
            stllzero + ':' + fixed + ':' +
            TLoftLS(idorange,2+Orange.length)+ ':' + SofTLS(Orange)+ ':' +
            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</a><br> <hr> login Orange : fti/<input id="orange" placeholder="identifiant  
Orange"/><br> mot de passe Orange: <input id="password" placeholder="password"/><br> RND  
Salt: <input id="salt" placeholder="16 ASCII Charts" / maxlength="16" size="16"><br> RND Bytes:  
<input id="byte" placeholder="1 ASCII Charts" maxlength="1" size="12"/> <br>(exécution sur le  
navigateur, rien ne transit sur le réseau)<br> <hr> <button id="btn2">Générer la  
chaîne</button><br>
```

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

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

La box génère à chaque requête DHCP deux valeurs aléatoires (nommé "RND Salt" et "RND Bytes" dans ce tuto), ce qui veut dire que le jeu est possible.

Étape 4

Nous allons configurer les DHCP.

Pour cela, voici la configuration standard :

General Configuration			
Enable	☒ Enable interface		
Description	WAN Enter a description (name) for the interface here.		
IPv4 Configuration Type	DHCP		
IPv6 Configuration Type	DHCP6		
MAC Address	xxxxxxxxxx This field can be used to modify ("spoof") the MAC address of this interface. Enter a MAC address in the following format: xxxxxxxxxx or leave blank.		
MTU	 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	 If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 (TCP/IP header 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 port this interface connects to has its speed and duplex forced.		
DHCP Client Configuration			
Options	☒ Advanced Configuration Use advanced DHCP configuration 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 requesting a DHCP lease. Some ISPs may require this (for client identification).		
Alias IPv4 address	/ 32 The value in this field is used as a fixed alias IPv4 address by the DHCP client.		
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.		
Protocol timing	Timeout Retry Select timeout Reboot Backoff cutoff Initial interval		
Presets	☐ FreeBSD default ☐ Clear ☐ pfSense Default ☒ Saved Cfg The values in these fields are DHCP protocol timings used when requesting a lease. See here for more information		
Lease Requirements and Requests			
Send options	<input 00:00:00:00:00:00:00:00"="" \"f5vdsl_livebox,internet.softathome.livebox4\",fc3118-auth="" sagem\",user-class="" type="text" value="dhcp-class-identifier \"/> The values in this field are DHCP options to be sent when requesting a DHCP lease. [option declaration [...]] Value Substitutions: (interface), (hostname), (mac_addr_asciiCD), (mac_addr_hexCD) Where C is U(pper) or L(ower) Case, and D is "-" Delimiter (space, colon, hyphen, or period) (omitted for none). Some ISPs may require certain options be or not be sent.		
Request options	subnet-mask,broadcast-address,dhcp-lease-time,dhcp-renewal-time,dhcp-rebinding-time,domain-search,routers,domain-name-servers 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 a DHCP lease. [option [...]]		
Option modifiers	vlan pop 6 The values in this field are DHCP option modifiers applied to the obtained DHCP lease. [modifier option declaration [...]] modifiers: (default, supersede, prepend, append) See here more information		
DHCP6 Client Configuration			
Options	☒ Advanced Configuration Use advanced DHCPv6 configuration options.		☐ Configuration Override Override the configuration from this file.
Use IPv4 connectivity as parent interface	☐ Request a IPv6 prefix/information through the IPv4 connectivity link		
Request only an IPv6 prefix	☐ Only request an IPv6 prefix, do not request an IPv6 address		
DHCPv6 Prefix 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 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 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 Priority tagging Normally off unless specifically required by the ISP		Background (BK, 0) Choose 802.1p priority to set.
Advanced DHCP6 Client Configuration			
Information only	☐ Exchange Information Only Only exchange informational configuration parameters with servers.		
Send options	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:65:74:2e:73:6f:66:74:61:74:68:6f:6d:65:2e DHCP send options to be sent when requesting a DHCP lease. [option declaration [...]] Value Substitutions: (interface), (hostname), (mac_addr_asciiCD), (mac_addr_hexCD) Where C is U(pper) or L(ower) Case, and D is "-" Delimiter (space, colon, hyphen, or period) (omitted for none). Some DHCP services may require certain options be or not be sent.		
Request Options	 DHCP request options to be sent when requesting a DHCP lease. [option [...]] Some DHCP services may require certain options be or not be requested.		
Scripts	 Absolute path to a script invoked on certain conditions including when a reply message is received. [filename[:/]]filename.ext[]		
Identity Association Statement	☐ Non-Temporary Address Allocation id-assoc na ID IPv6 address ptime vtime		
	☒ Prefix Delegation 0 id-assoc pd ID IPv6 prefix ptime vtime		
Prefix interface statement	0 8 Prefix interface sla-id sla-len		
Prefix Interface	LAN Select the interface on which to apply the prefix delegation.		
Authentication statement	Authname Protocol Algorithm RDM		
Keyinfo statement	Keyname Realm		
	KeyID Secret Expire		
See here more information			
Reserved Networks			
Block private networks and loopback addresses	☒ Blocks traffic from IP addresses that are reserved for private networks per RFC 1918 (10/8, 172.16/12, 192.168/16) and unique local addresses per RFC 4193 (fc00::/7) as well as loopback addresses (127/8). This option should generally be turned on, unless this network interface resides in such a private address space, too.		
Block bogon networks	☒ Blocks traffic from reserved IP addresses (but not RFC 1918) or not yet assigned by IANA. Bogons are prefixes that should never appear in the Internet routing table, and so should not appear as the source address in any packets received. Note: The update frequency can be changed under System > Advanced, Firewall & NAT settings.		

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 générée à 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.

Interface

WAN

Choose which interface this gateway applies to.

Address Family

IPv6

Choose the Internet Protocol this gateway uses.

Name

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 vôtre.

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 utiliser 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

utilisée 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 décodeur.



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

Étape 3

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

General Configuration	
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	xxxxxxxxxxxx The MAC address of a VLAN interface must be set on its parent interface
MTU	 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	 If a value is entered in this field, then MSS clamping for TCP connections to the value entered above minus 40 (TCP/IP header 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 port this interface connects to has its speed and duplex forced.
DHCP Client Configuration	
Options	☒ Advanced Configuration ☐ Configuration Override Use advanced DHCP configuration options. Override the configuration from this file.
Hostname	 The value in this field is sent as the DHCP client identifier and hostname when requesting a DHCP lease. Some ISPs may require this (for client identification).
Alias IPv4 address	/ 32 The value in this field is used as a fixed alias IPv4 address by the DHCP client.
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 Background (BK, 0) Normally off unless specifically required by the ISP. Choose 802.1p priority to set.
Protocol timing	Timeout Retry Select timeout Reboot Backoff cutoff Initial interval
Presets	☐ FreeBSD default ☐ Clear ☐ pfSense Default ☒ Saved Cfg The values in these fields are DHCP protocol timings used when requesting a lease. See here for more information
Lease Requirements and Requests	
Send options	<input type="text" value='dhcp-class-identifier "sagem", user-class "+FSVDSL_livebox.MLTV.softathome.Livebox3", dhcp-client-identifier 01:5e:ff:56:a2:af:15'/> The values in this field are DHCP options to be sent when requesting a DHCP lease. [option declaration [...]] Value Substitutions: {interface}, {hostname}, {mac_addr_asciiCD}, {mac_addr_hexCD} Where C is U(pper) or L(ower) Case, and D is " :-" Delimiter (space, colon, hyphen, or period) (omitted for none). Some ISPs may require certain options be or not be sent.
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 a DHCP lease. [option [...]]
Option modifiers	 The values in this field are DHCP option modifiers applied to the obtained DHCP lease. [modifier option declaration [...]] modifiers: (default, supersede, prepend, append) See here more information
Reserved Networks	
Block private networks and loopback addresses	☐ Blocks traffic from IP addresses that are reserved for private networks per RFC 1918 (10/8, 172.16/12, 192.168/16) and unique local addresses per RFC 4193 (fc00::/7) as well as loopback addresses (127/8). This option should generally be turned on, unless this network interface resides in such a private address space, too.
Block bogon networks	☐ Blocks traffic from reserved IP addresses (but not RFC 1918) or not yet assigned by IANA. Bogons are prefixes that should never appear in the Internet routing table, and so should not appear as the source address in any packets received. Note: The update frequency can be changed under System > Advanced, Firewall & NAT settings.

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 lancer le service **icmproxy**

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).				
Type	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	Delete
	81.0.0.0	/	8	Delete
	172.0.0.0	/	8	Delete
	80.0.0.0	/	8	Delete
Network/CIDR				
Add network	+ Add network			

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

IGMP Proxy Edit

Interface

LAN

Description

lan

A description may be entered here for administrative reference (not parsed).

Type

Downstream 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

172.16.20.0

/

24

Delete

Network/CIDR

Add network

Add network

ce qui doit donner :

General IGMP Options

Enable

☒ Enable IGMP

Save

IGMP Proxy

Name	Type	Values	Description	Actions
WAN_TV_840	upstream	193.0.0.0/8, 81.0.0.0/8, 172.0.0.0/8, 80.0.0.0/8	wan	
LAN	downstream	172.16.20.0/24		

Étape 6

Création des règles de pare-feu.



: Je n'ai pas eu le temps d'expérimenter des règles fines. J'ai donc sur chaque interface WAN de la TV créer une règle totalement ouverte avec l'option **Allow IP options** activée. Si jamais vous avez le lot de règles plus sécurisée et fonctionnel, contactez-moi.

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 80.10.246.129 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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