## How to setup IPsec VPN between DFL and Windows 7



**Introduction:** Using Windows's built-in IPsec policy to establish an IPsec VPN with the DFL. In this document, it does not show the DFL's IPsec setting, but focus on the setting at the Windows side.

## Step:

- 1. Using "MMC" to open manager console, and add the snap-ins of the IPsec policy
- 2. Add the new policy, here I add the policy called D-Link, and build two rules for outbound and inbound traffic.

- Canadel (Console Ractil) Security Parkies on Local Computer 🚰 File Action View Favorites Window Help 2 1 1 1 💠 🔶 🗶 🖂 🖌 🗋 🖉 🖉 🗶 🛪 🖉 Console Root Name Description Policy Assigned Last Modified Time Actions > 🛃 IP Security Policies on Local 🚳 D-Link Yes: 4/30/2012 5/26/20 PM IP Security Policies on Local ... + More Actions . . 12 1 P Filter List ions . An  ${\mathbb F}$  fiber lat is composed of multiple litters. In this way, multiple subnets,  ${\mathbb F}$  addresses and protocols can be combined into one  ${\mathbb P}$  fiber Edit Rule Properties 8 2 **D-Link Properties** Client to Device Automication Nethods Turnel Set Rules General IP Filter List Add. Description Ext. Security rules for communicating with other computers The selected IP Ster ist specific affected by this rule. ž Renove (P Fiters: Vise Add Waard IP Security rules P Flor Line Source DNS Name Source Address Minured Descriptiony PRetint Filter Action Attestuation Tu Yes (My IP Address) (My IP Address) Nane Descri Device to Client Riter Freshared Key O Clent to Device Clert to Device Fiter Preshared Key O Device to Clerk 12 Default response lika IP Filter Properties Kerberos Addresses Protocol Description Need to set the parameter for both way Source address My IP Ackines ..... \* Add Edt Renove V Use Add Wizard Add. Em. Remove Destination address: A specific IP Address or Subnet CK Cancel Apply . OK Cencel IP Address or Subnet: (192.168.10.0/24 I Mmored. Match packets with the exact opposite source and destination addresses. . 0 . A 8 Customire <1 T P
- 2-1. Edit the ip filter list for both way.

2-2. Edit the filter action. Notice: need to custom the "security method", and check the ipsec sa lifetime 3600 sec.

| Concele Real  | a composite and and a state | in the second                                | T INCOME IN A CONTRACTOR  | 1.044048   | ann an th              |  | (new)   |  |
|---|-----------------------------|--|---|--|------------------------|--|---|--|
| IP Security Policies on Local   | Name                        | Description                                  | Policy Assigned   | Last Modifie   | ed Time                |  | Actions                                       |  |
|   | Ban-Link                    |  | Ves   | 4/30/2012 5  | 26:20 PM               |  | IP Security Policies on Local.                |  |
|   |                             |  |   |  |                        |  | More Actions                                  |  |
|   |                             |  |   |  |                        |  | D-Link  |  |
|   |                             |  |   |  |                        |  | More Actions                                  |  |
| Edit Rule Properties  |                             | 18 Filter                                    | Properties  |  | Ξ                      | Edit Security Method   | 2   |  |
| Authentication Methods  | Turnel Setting              | Correction Type                              |   |  |                        | Security Method  |   |  |
| The selected titer action specifies whether this rule negotiates In secure network traffic, and how it will secure the traffic  Fiter Actions Name Description O Fiture |                             | e this rule negatives<br>incluse the traffic | ) Penal<br>) Block<br># Negotiate security:<br>ecurity method preference o<br>Type AH integrity<br>Encrypt thomes | order<br>ESP Confidential. ES<br>30ES 3H   | Add<br>Edg<br>Remove   | Integrity and encryption Data will be encrypted and verified as exchentic and unmodified. Integrity only Data will be verified as exthentic and unmodified, but will not be encrypted Costom Settings. |   |  |
| AddEdt  | Renove                      | 2 Use Add Word                               | A Coept unsecured comm<br>Alow fallback to unsecur<br>can not be established<br>Use session key perfect t         | nication, but elways respond<br>ed communication if a secure<br>anverd secrecy (PPS) | More and<br>Rose align | Custom Security Method Settings<br>Specify the settings for this custom a<br>Data and address integrity without<br>SHA1 •<br>IV Data integrity and encoption (ES)<br>Integrity algorithm<br>SHA1 •     | ecurty method.<br>(encoption (AH) :<br>P)     |  |
| 1   | OK Cano                     | alian Acole                                  |   | OK Cancel  | Hoply                  | Encypton signifier   |   |  |
|   |                             |  |   |  |                        | Session key settings   | (2) Ganatate a new key every:<br>3600 seconds |  |

| IP Security Policies on Loca | COD-Link  | Description  | Pailcy Assigned<br>Vec  | Last Mudified Time<br>4/30/2012 5 JB20 PM  | Actions<br>IP Setterby Policies on Local -<br>More Actions |
|------------------------------|---|--|---|--|--|
|                              |   |  |   |  | Durk   |
| In Rule Properties           | Turnel Setting<br>varback geoch have to<br>tere. These below the<br>setted when mapdating<br>most arole.<br>Datatis<br>123409-789 | the Action<br>Connection Trace<br>in a statistication<br>on anti-field are<br>concerned with produce<br>Action<br>Reserved<br>Biomethysis<br>Biomethysis | Ent Authentication Mathead Pers<br>Authentication Mathead<br>Authentication Mathead<br>Authent Desclay: athwait (Mathead<br>- Use a certificate the reference)<br>- Exalusin the CA reserve<br>- Exalusin the CA reserve<br>- Exalusing Descharts of the<br>Table Top Statement for<br>Table Top S | perters<br>transfrod specifies have itsel is an abilitized<br>beens 'fi protocol<br>fifcient's automy (CA):<br>(Inner:<br>All (Inner:<br>Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inner:<br>(Inne |  |
|                              | Chine   |  |   | OK Croot   |  |
|                              |   |  |   |  |  |
|                              |   |  |   |  |  |
|                              |   |  |   |  |  |

## 2-3. Setting the "authentication method" and "tunnel setting"

| P Security Policies on Loca   | Figure Description   | Enline Aminted                                   | Last Modified Time                           | Artis    | and a                     |
|---|--|--|--|----------|---------------------------|
|   | BD-Link  | Van  | 4/30/2012 5.26.20 FM                         | 15.54    | munty Polalies on Local - |
|   |  |  |  |          | More Actions              |
|   |  |  |  | Des      |                           |
|   |  |  |  | a find a | Mare Actions              |
| P Piler Lut<br>Addression Methods<br>The Investigation for the second<br>in Table does not speed,<br>The sele does not speed,<br>Publicated induced<br>1.1.77<br>Publicated induced | Terrer Setting Plan Action<br>Terrer Setting Connection Type<br>Connection the harmeling connection devices in the<br>sales to descale are Plane barved<br>and State Lansed<br>field by these Platthemas | the policy for Device<br>and, we set 1.1.1.1 for | to Client. On the other<br>Client to Device. |          |                           |
|   | Case   Cares   Anty  | 9  |  |          |                           |
| Politanal endoert   |  |  |  |          |                           |

| Console1 - [Console Root\]P Sec | urity Policies on Local C | omputer]    | -               |                  |                                 |
|---------------------------------|---------------------------|-------------|-----------------|------------------|---------------------------------|
| File Action View Favorite       | s Window Help             |             |                 |                  | _ <del>_</del> <del>/</del>     |
|                                 | "∎ <del>2</del>           |             |                 |                  |                                 |
| Console Root                    | Name                      | Description | Policy Assigned | Last Modified Ti | Actions                         |
| P Security Policies on Local    | D-Link                    |             | Yes             | 4/30/2012 5:26:2 | IP Security Policies on Local 🔺 |
|                                 |                           |             |                 |                  | More Actions                    |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 |                           |             |                 |                  |                                 |
|                                 | 1.12                      |             |                 |                  |                                 |
| ×                               | •                         | Ш           |                 | •                | 2 B                             |
|                                 |                           |             |                 |                  |                                 |

## 3. Finally, assign the policy you made.

End of the document.