

Soluções IoT Comerciais

# Agile IoT Solution

Introduce SDN to IoT



# Agile IoT Gateway

Rich interface types  
Rich protocols

Open Integration  
Rich Capacity

## Industrial Switch

- High port density
- Operating range: -40 to 70 °C
- Resisting electromagnetic interference
- 0 second switching delay



## Industrial Router

- Rich interfaces and protocols
- Operating range: -40 to 70 °C
- Resist electromagnetic interference
- Converged rich functions



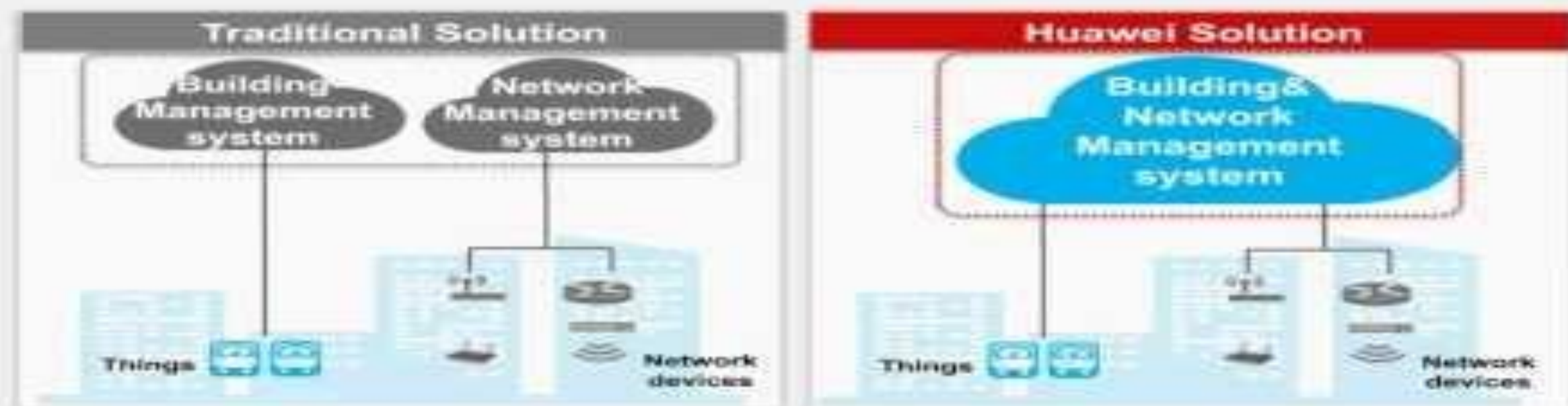
## ICT Convergence

- Local computing and storage, supporting NFV
- Linux/Android/KVM open
- Multimedia Play
- Rich interfaces and protocols





## Unified Management, Simplified Maintenance



**Huawei IoT solution supports unified management of networks and terminals, makes management easier!**

Reliability



High efficiency



# Como acessar o seu dispositivo IoT

- Tipo de Endereço
  - Estático
  - Dinâmico
- Modo de Acesso
  - Cliente
  - Servidor

Como fazer se seu dispositivo IoT  
está com endereço IP Dinâmico?  
Abordagem 1



NO-IP



# NO-IP

## Create an Account with No-IP.com

No-IP.com will allow a user to maintain an account with up to 5 hosts at no charge. Once an account is created, use the “Add a Host” option within the Your No-IP configuration section.

## Your No-IP

██████ Welcome to your No-IP!

Last Login: 2015-04-14 09:45:52 PDT from IP ██████████

You have successfully logged into No-IP's member section. To start using No-IP's services select an icon below or choose an item from the navigation above.



[Manage Domains](#)



[Add Domain](#)



[Add a Host](#)



[Manage Hosts](#)








[Account Information](#)

# NO-IP

## Define Your Host Information

To create a host, select a hostname and select a domain from the pull-down menu. If the desired hostname is already in use you will have to choose another. The Host Type should always be DNS Host (A) and the IP Address will automatically be filled with the IP address from which you are currently accessing this service. Once the DDNS client on the DVR is setup, this address will be updated.

Hostname Information	
Hostname:	<input type="text" value="mydvr"/> <input type="text" value="no-ip.org"/> 
Host Type:	<input checked="" type="radio"/> DNS Host (A) <input type="radio"/> DNS Host (Round Robin) <input type="radio"/> DNS Alias (CNAME)  <input type="radio"/> Port 80 Redirect <input type="radio"/> Web Redirect <input type="radio"/> AAAA (IPv6)
IP Address:	<input type="text" value="12.34.56.78"/> 
Assign to Group:	<input type="text" value="- No Group -"/>  <a href="#">Configure Groups</a>
Enable Wildcard:	Wildcards are a Plus / Enhanced feature. <a href="#">Upgrade Now!</a> 

# NO-IP

## Enter the DDNS Configuration Data on the DVR

Within the Network configuration section of the DVR, there is an entry for DDNS. To complete configuration for the No-IP.com DDNS service enter the following:

- Check the Enable box
- Select NO-IP DDNS for DDNS Type
- Don't make any changes to Host IP (this is where updates get sent)
- Don't change from Custom Domain Name
- Domain Name will be the hostname created in the No-IP.com account
- Username and Password are those from the No-IP.com account
- Interval is how often the DVR sends updates to No-IP (5 minutes is fine in most cases)

The screenshot shows the 'NETWORK' configuration menu of a DVR. The left sidebar contains options: CAMERA, NETWORK (selected), EVENT, and STORAGE. Under NETWORK, there are sub-options: TCP/IP, CONNECTION, WIFI, 3G, PPPoE, DDNS (highlighted), IP FILTER, EMAIL, FTP, and UPnP. The main area displays the DDNS configuration with the following settings:

- Enable:** ☒ Enable
- DDNS Type:** NO-IP DDNS (selected from a dropdown)
- Host IP:** dynupdate.no-ip.com
- Domain Mode:** ☐ Default Domain ☒ Custom Domain Name
- Domain Name:** mydvr.no-ip.org
- User Name:** no-ip-user@gmail.com
- Password:** [masked with dots]
- Interval:** 5 min.

# NO-IP – Como funciona o NO-IP





# NO-IP – Como Configurar



# NO-IP – Como Configurar



COMO CONFIGURAR O  
DDNS NO-IP EM  
QUALQUER ROTEADOR  
TPLINK

# NO-IP – Como Configurar



# Alternativas ao NO-IP

- DuckDNS
- Dynu Dynamic DNS
- FreeDNS
- NameCoin
- Dyn
- DNS-O-MATIC
- Zzz.io
- Duiadns
- Google Cloud DNS
- CloudDNS.net
- nsupdate.info
- Nubem Dynamic DNS
- DNS Made Easy
- BuddyNS
- IPrekt.com
- Outros:  
<https://alternativeto.net/software/no-ip/>

Como fazer se seu dispositivo IoT  
está com endereço IP Dinâmico?  
Abordagem 2



# Dweet.io

- <https://dweet.io/faq>
- <https://www.hackster.io/shaiss/temperature-humidity-monitor-with-dweet-freeboard-3f6fba>

“dweet.io is simple publishing and subscribing for machines, sensors, devices, robots, and gadgets (we just call them things). We call published messages ‘dweets’. It’s helpful to think of dweet.io as a Twitter for things, in fact. We assign each thing a unique thing name (or you can assign your own if it’s available). Then a thing may be subscribed to, which is analogous to following someone in twitter.”

# Dweet.io + Freeboard



