atcom

R&A series auto provision by DHCP option user manual

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Contact ATCOM

Overview of ATCOM

ATCOM is the leading VoIP hardware manufacturer in global market. We have been keeping innovating with customer's needs oriented , working with partners to establish a total solution for SMB VoIP with IP phone , IP PBX and Asterisk cards

With over 10 years' experience of R&D , manufacturing and service in network and VoIP filed ; mission of creating the biggest value for IP terminals , we commit ourselves in supplying the competitive IP phone and other terminals for IP PBX , softswitch , IMS , NGN providers and carriers; supplying the competitive total VoIP solution for SMB market. We keep improving the customer's experience and creating the bigger value with our reliable products. Until now, our VoIP products have been available in 100+ countries and used by millions of end users.

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Content

How to provision ATCOM IP Phone

This guide shows you how to provision ATCOM IP phones with the minimum settings required.
The purpose of this guide is:
used by DHCP server or ATCOM IP PBX. ATCOM IP Phones support the FTP ,TFTP ,HTTP and HTTPS protocols for file. provisioning and are configured by default to use Trivial File Transfer Protocol(TFTP)
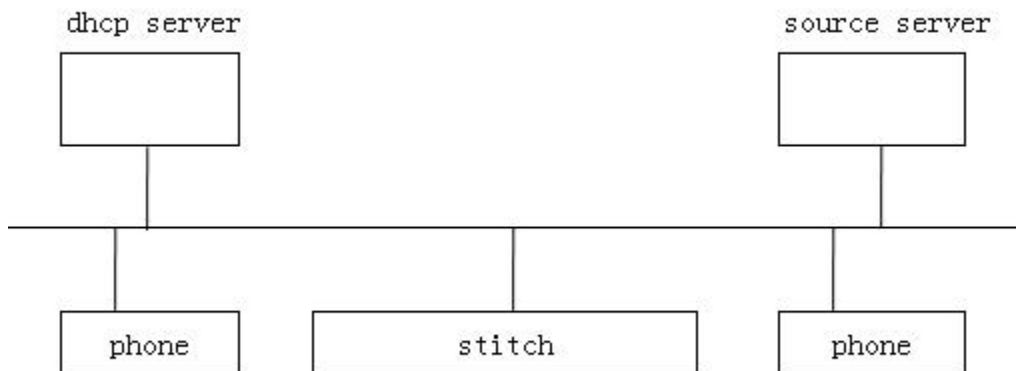
1. Introduction

This sections introduce principle about auto provision and network topology 。

1.1 Provision ways

When the network mode has been set to DHCP, IP Phone will add OPTION66 configurations to the DHCP Request after it starts. DHCP Ack with OPTION66 configurations will be replied from the DHCP server.

1.2 Network topology：

a. DHCP server：provide IP address , help OPTION66 configure IP address or domain name and configure control file.
b. Source server：used for deposit firmware, phonebook, language, configuration file. Source server support TFTP server , FTP server and HTTP server. and support the same server with control server.
c. Phone：ATCOM IP phone, it needs to connect to the same switch or network with other all server.

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2. Operation

This sections introduce the step of auto provision, the provision server is TFTP server and DHCP server in the guide document.

2.1 Phone start up

Plug in the phone by adapter and connect the cable with phone and switch , or use the cable connecting the phone and switch directly without adapter, if the switch support POE

2.2 Install and configure the tool in PC

•Please start up DHCP server and configure OPTION66,if it is exist in PC. Or please install it and start up it, if it is not, please install dhcpd in Linux

2.3 Create control file and deposit the file in a root directory of TFTP server

Control file must be deposited a root directory of TFTP server, the purpose is：
1. Control provisioning file.

Common.cfg
the Common CFG file is effectual for all the phones with the same model. It uses a fixed name "a00000000000x.cfg" as the file name.   the names of the Common CFG file for
R1 is 'a000000000001.cfg' ;
R2 is 'a000000000002.cfg' ;
R3 is 'a000000000003.cfg' ;
R4 is 'a000000000004.cfg' ;
A1x is 'a000000000010.cfg' ;
A2x is 'a000000000020.cfg' ;
A41 is 'a000000000041.cfg' ;
A4x is 'a000000000040.cfg' ;
A6x is 'a000000000060.cfg' ;

MAC.cfg
The MAC-Oriented CFG file is only effectual for the specific phone. It uses the 12-digit MAC address of the phone as the file name

2. Control provisioning mode, include TFTP ,FTP and HTTP

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2.4 Configurating OPTION 66 in the DHCP server and restart the DHCP server

Edit dhcp.conf in the DHCP server, and configurating OPTION66 like :

    Option option-66 code 66=string;

    Subnet 172.16.0.0 netmask 255.255.255.0 {

    Range 172.16.0.3 172.16.0.254;

    Option option-66 "172.16.0.107";   ;IP address of TFTP server
    }

3.verifing configurations

After auto provisioning, the phone boots up. You an then verify the update via phone user interface, or you can verify it via web user interface of the phone.

4.Refer

The guide document introduce how to provision ATCOM phone by used DHCP server, TFTP server and PC. If you need to know ATCOM phone, please download the user manure form atcom website. You can access ATCOM website www.atcom.com.cn
The provisioning information in this guide applies to the following ATCOM phones:
•Rainbow series：R1,R2,R3,R4
•A series：A1x (A10W,A10,A11), A2x(A20,A21), A41,A4x(A48),A6x(A68)