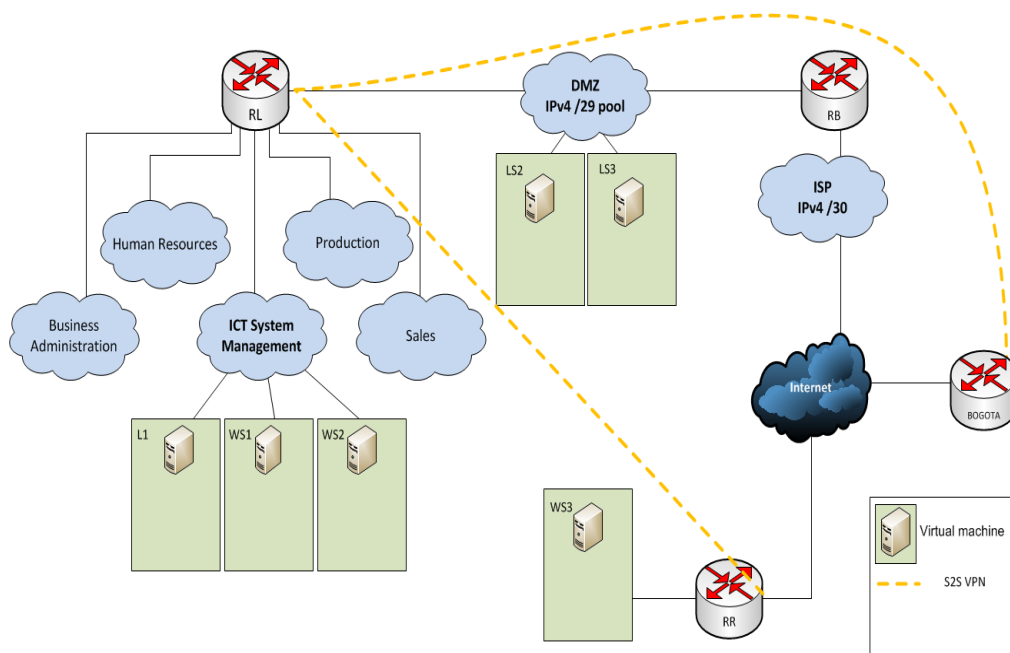# Black & Wake

Scenario Update

"Office ICT Team" test project

v.2.0 EN (2010.12.07)

Modification of the original scenario

1. After a deep study of the local market in Europe, the central office decided to open a national Store, not far from the factory itself. You are asked to design and implement simple network functionality at this new location.

2. You will have to order a new router and a new switch. For this, your Project Manager will have to send an RFP. He will receive offers from 3 companies, and then have to select (and justify selection) the best offer, and finally order the equipment. This equipment will be made available as soon as the order is received (but the supplier and router specifications can be changed without further notice)

The store is connected to the Internet through the local ISP (connection emulated by an UTP cable) using a dynamic IP provided by DHCP.

Computers located in the Store need to authenticate in the Branch Office Active Directory. For this purpose, you are asked to install a local Windows Server 2008 R2 Core Edition which will handle authentication for the local workstations. This server will also forward non cached DNS requests to the Branch Office. However, no user account should be modified locally and communication between the Store and the Branch Office has to be secured with an IPsec VPN (use the same key and settings as for Bogota's connection). All of the traffic should go through the tunnel. Computers in the Store network should receive their IP configuration from a simple DHCP server configured on the RS router, The first usable local net address for the store is used by the router's internal network interface, the last 20 usable addresses of this net are served by the router's DHCP server. (For IP addresses, see Annex III).

3. Install the new supplied workstation with Windows 7 (authenticated in the AD) and install a softphone, connected to the Branch Office Asterisk PBX, and having the phone number 60x998.

4. Company leadership plans to employ in the national office 52 new employees in a half year. Create a plan for ideal work conditions of the national office supposing that it would have 52 new employees (Business Administration:4, Human resources and accounting: 5, ICT system management: 2, Production: 35, Sales: 6). The plan should include the number of network/telephone end points, the number of workstations, other office equipment, etc. The cost plan should be based on the provided price list and hourly rate table for each specialist. The actual procurement would take place after this project ends.

5. For preparing the challenge of Internet changing your team is charged to test a new Ipv6 addressing scheme for the Branch Office LAN and DMZ. For this purpose you will be provide a Packet Tracer activity. You have to configure all of the networking equipment and host/servers according to the instruction inside the Packet Tracer activity.