How to configure WebMux in OOP(DSR) mode for Microsoft LCS servers

To not make big changes to the network, Out-of-path (OOP)mode – also called Direct Server Response (DSR) mode is desired. In OOP mode, the imcoming traffic from clients send to the farm address, WebMux then forward those client requests to the proper LCS server. If WebMux detected any LCS server down, it will only send client to the available LCS server, so that the communication will interrupted. Since OOP mode has WebMux in the same internal network address range, there is no need to change the IP address settings of LCS servers.

To minimise the impact of the addition of WebMux and secondary of LCS servers, it is recommend to work with the WebMux and newly added LCS server first. Once that is working fine, then add the original LCS server to the LCS farm, so that they are load balanced. There are three main steps to take for this configuration: 1) Using pushbotton to configure WebMux for OOP mode; 2) Using browser to configure farms and server; 3) Configure LCS servers to join the farm.

We assume you already have FQDN for the LCS server running. If you are doing a fresh installation, you will need to configure each FARM address with FQDN in your LDAP server or your DNS server and populated to all the potential users' computer. In this document, we use LCSPOOL.PREY.BIRDS.NET as FQDN, which is mapped at IP address 10.51.32.231. You can replace the FQDN with your LCSPOOL and your internal IP address defined for the LCSPOOL in your LDAP/DNS servers.

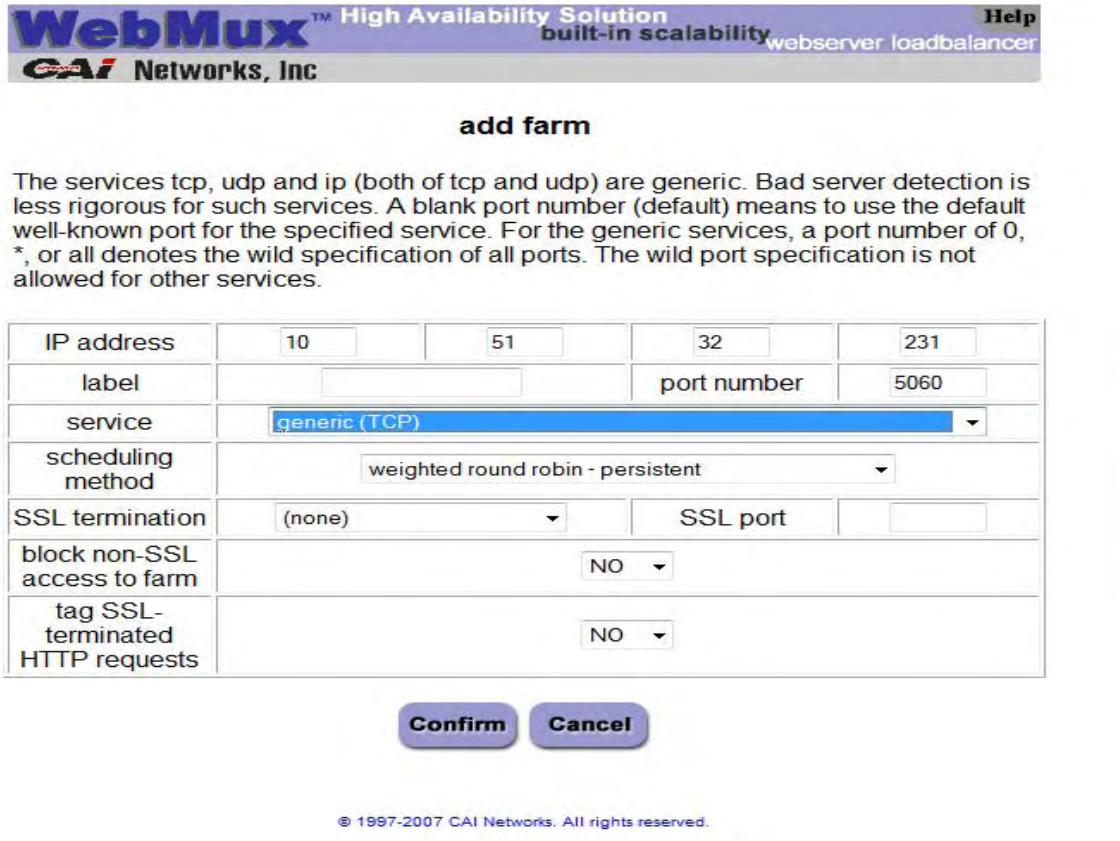
1) Configure WebMux basic settings using pushbuttons
   First power on WebMux, please allow a minute or two before it boot up into operation. Do not keep flip the power switch, which could cause damage to the WebMux. It is recommended using browser interface to shutdown the WebMux, if needed.

   WebMux will come up with version number, then instruction flying on the LCD display. The instruction is to tell you hold check mark key to start configuration. You will be prompt for the following questions:

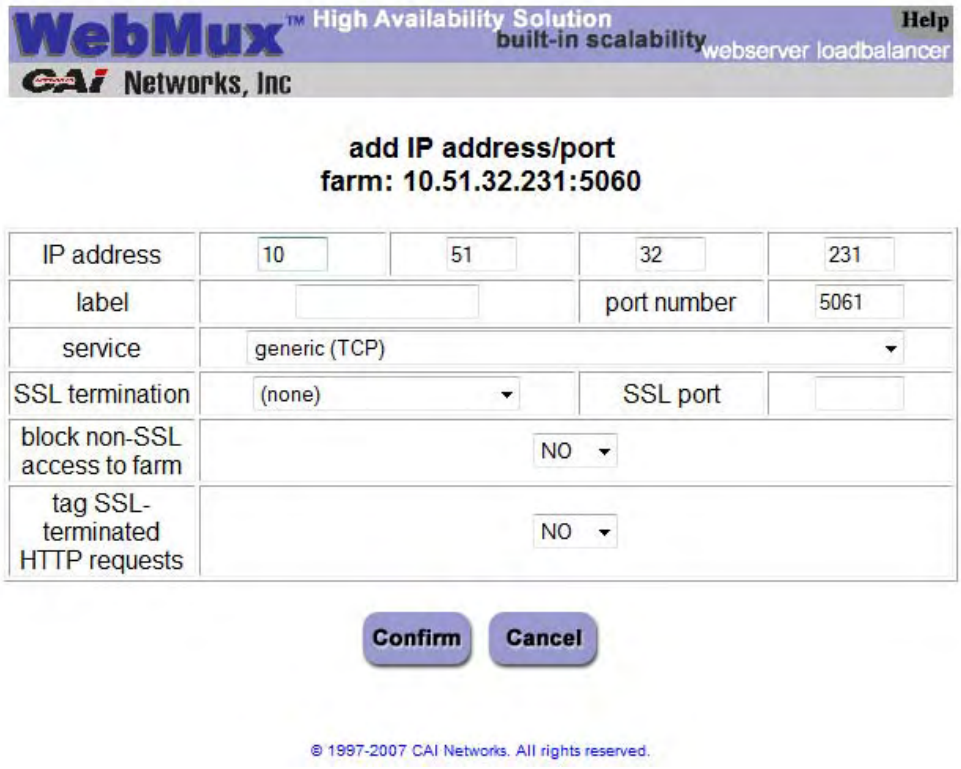
WebMux's host name without domain	S2098_test
WebMux's domain name	
dispatch method	OOP (out of path)
Router LAN gateway IP address	
WebMux's server LAN IP address	
WebMux's server LAN network mask	
Remake password file with default passwords?	
WebMux administration HTTP port	
WebMux administration HTTPS port	
Is this WebMux a primary (or solo) WebMux?	
Is this WebMux running solo without a secondary?	
Server LAN gateway IP address on WebMux (not same as server LAN IP address above!) (required for NAT, optional for OOP, use 0.0.0.0 to omit)	
Reinitialize configuration with admin entries only? (destroys existing configuration!)	
Reboot immediately after submitting this form?	
Submit when satisfied or cancel and log out.	submit

Once those questions are answered and submitted, WebMux will reboot into OOP mode.

2) Configure LCS farm and servers on WebMux
First, add farm for TCP port 5060:



Then, click on the farm, select the button “add Addr & Port” to add TCP port 5061 using MAP feature of WebMux:



Then click on the first line of the farm, and then select the “Add Server” button to add the LCS servers. First add server 1:

And then add server two into the farm:


WebMux™ High Availability Solution
built-in scalability webserver loadbalancer
Help
CAI Networks, Inc
add server
farm: 10.51.32.231:5060
IP address
10
51
231
241
label
port number
same
weight
1
run state
ACTIVE
Confirm
Cancel
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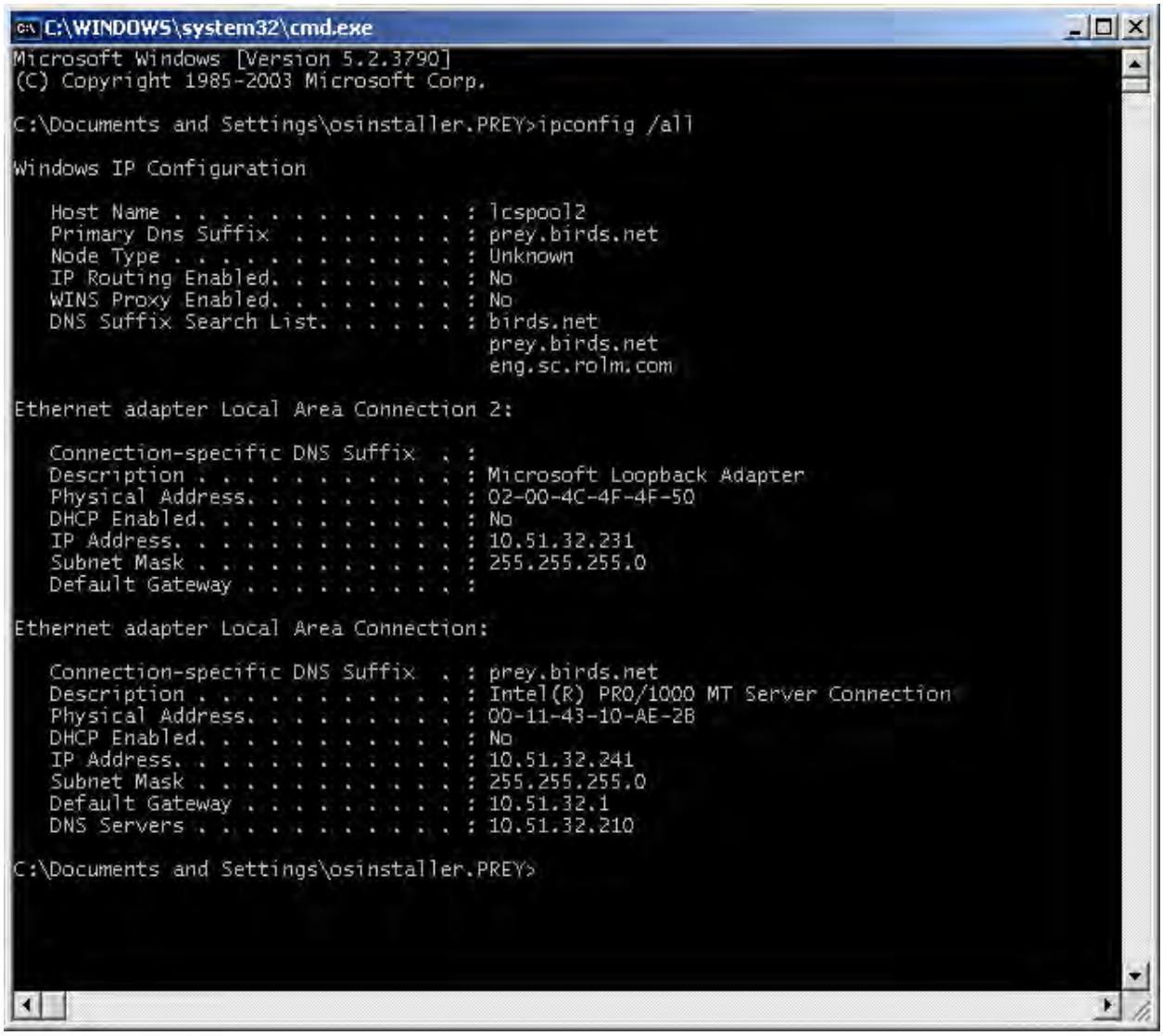
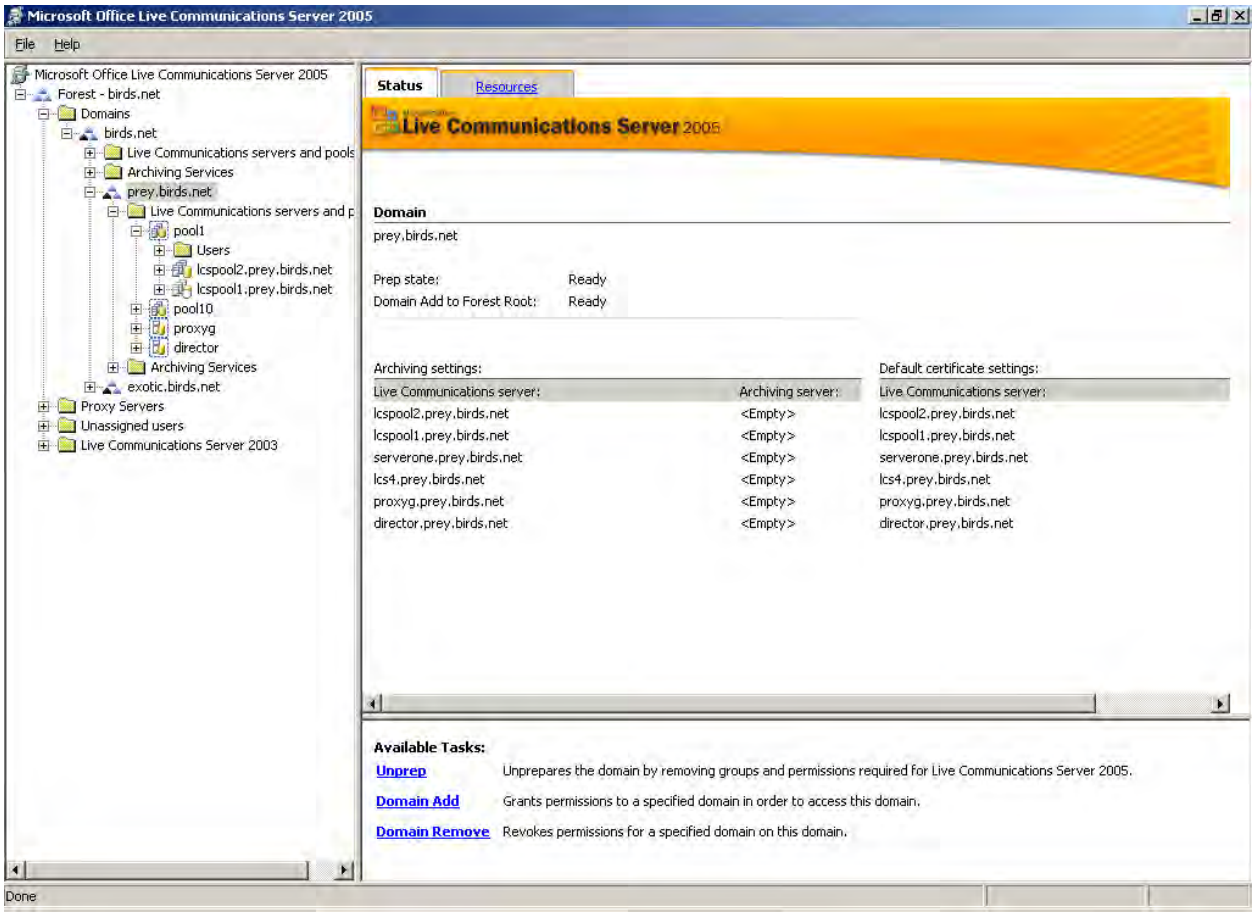
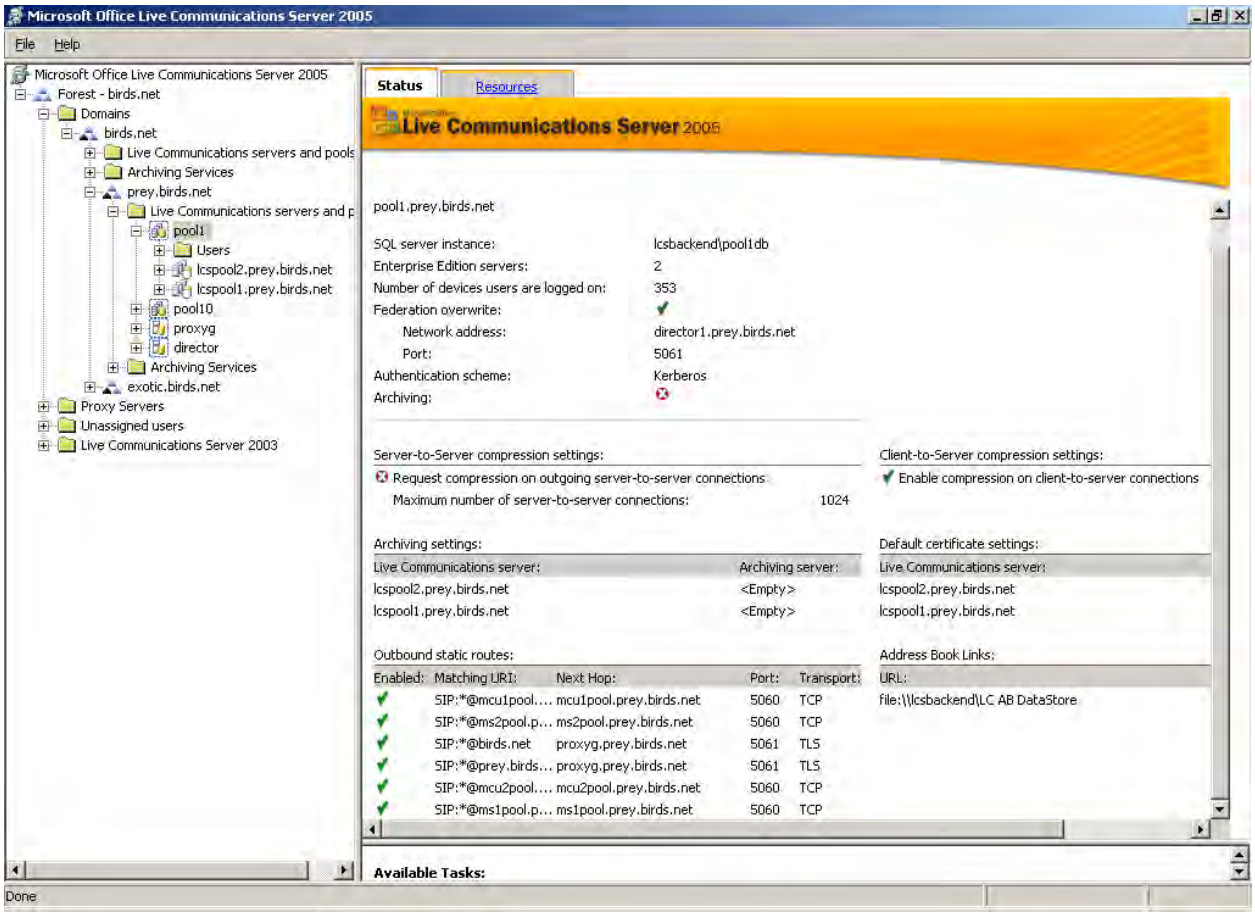
3) Configure LCS servers to work in the LCS farm.
First, add loopback adapter to each LCS server:



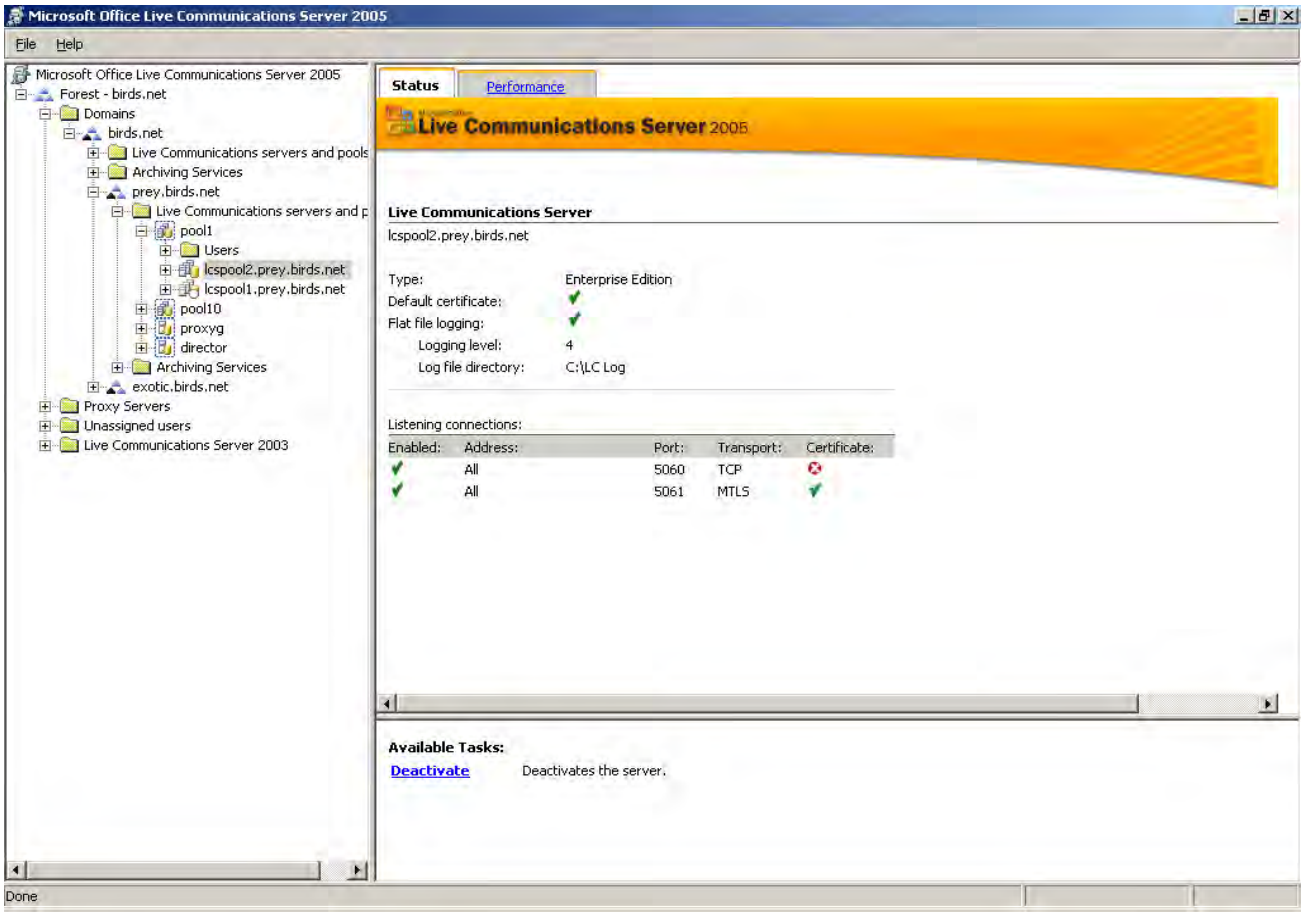
In LCS configuration, first configure the subdomain for LCS:



Then configure the LCS Pool:



Then add LCS server one



You are done! Congratulations, you have configured LCS working with WebMux in OOP mode.

