

Tech Note 692

Using Virtual SMTP Server for SCADAalarm Email Notifications

All Tech Notes, Tech Alerts and KBCD documents and software are provided "as is" without warranty of any kind. See the [Terms of Use](#) for more information.

Topic#: 002464

Created: March 2010

Introduction

Alarms generated in SCADAalarm can be delivered to operators through emails via an SMTP mail server. The SMTP mail server, however, must have its **Anonymous logon** option enabled in order to work with SCADAalarm. When **Anonymous logon** is not enabled in the SMTP server, SCADAalarm won't be able to connect directly to the SMTP server.

This *Tech Note* provides a solution to this problem by using a Virtual SMTP Server.

Application Versions

- All SCADAalarm versions to 6.0

Installing Virtual SMTP Server

Because Microsoft SMTP Service is a component of Microsoft Internet Information Services (IIS), you must install IIS to use the Microsoft SMTP Service. To install IIS and Microsoft SMTP service, depending on the version of Microsoft OS and IIS, variations can exist, but the steps can be summarized as follows.

Note: You can also refer to related Microsoft references, or search the topic on the internet for your installation.

1. Click **Start**, and open **Control Panel**.
2. Double-click **Add/Remove Programs**.
3. Click **Add/Remove Windows Components**.
4. In the Windows Components Wizard, for Windows XP and 2000, select Internet Information Services (IIS), and then click Details; for Windows 2003, select Application Server, then select Internet Information Services (IIS), and then click **Details**.
5. Click the following options:
 - Common Files
 - Documentation (for Windows XP and 2000)
 - Internet Information Services Snap-In (for Windows XP and 2000)
 - Internet Services Manager (HTML) (for Windows 2000)
 - Internet Information Services Manager (for Windows 2003)
 - SMTP Service
 - World Wide Web Server

6. Click **OK**, (click OK again for Windows 2003), and then click **Next** on the **Windows Components** page.
7. On the **Completing the Windows Components** wizard, click **Finish**.
8. Click **Close**.

Configuring the Virtual SMTP Server

1. Start Internet Information Services (snap-in, for Windows XP and 2000) or Internet Information Services (IIS) Manager (for Windows 2003):
 - From **Administrative Tools** or
 - Click **Start**, **Run**, and then type **InetMgr** and click **Enter**.
2. Find **Default SMTP Virtual Server** and select it.
3. Right-click and click **Properties**.
4. Configure the IP address of the virtual server. Use the **Advanced** button to configure the TCP Port if a port other than the default **25** is to be used.

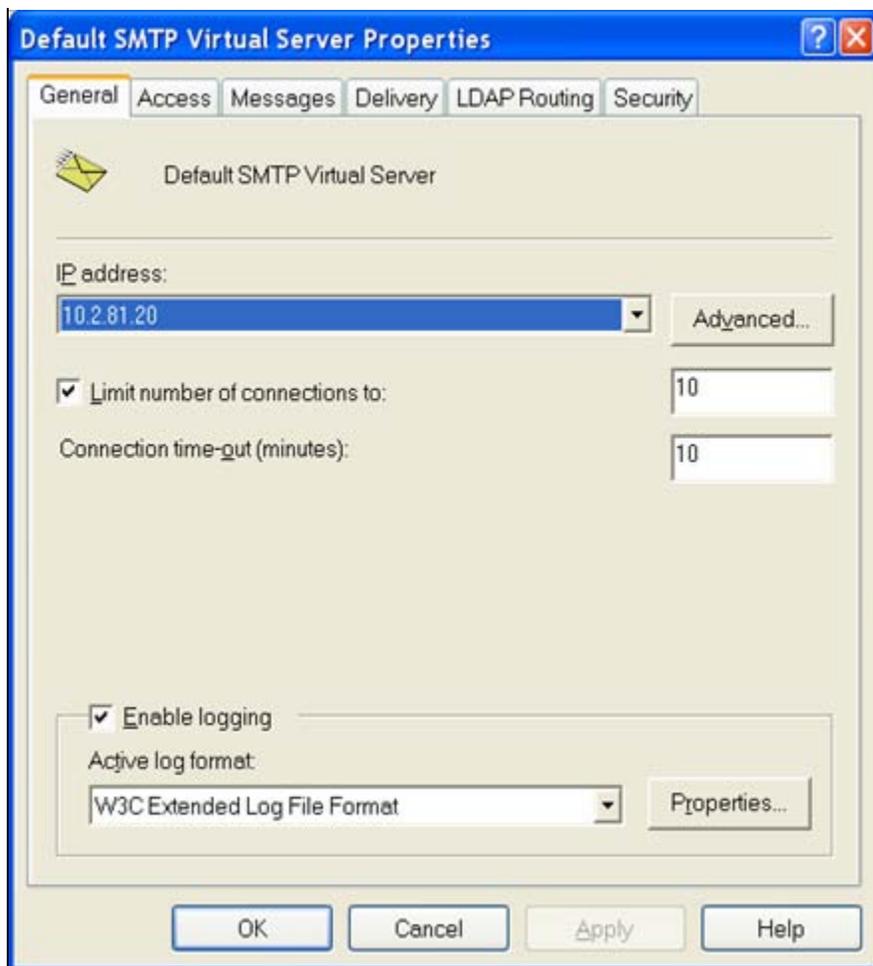


FIGURE 1: CONFIGURING THE VIRTUAL SERVER IP ADDRESS

5. Click the **Access** tab, then the **Authentication** button.
6. Check the **Anonymous access** option, then click **OK** (Figure 2 below).

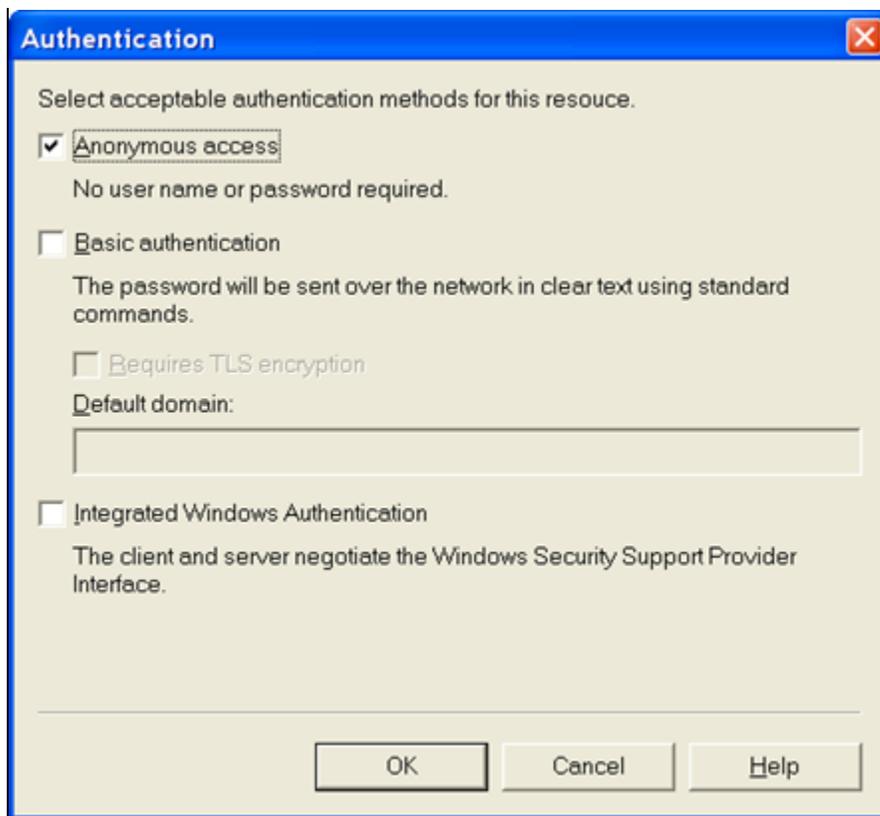


FIGURE 2: ANONYMOUS ACCESS OPTION

7. In the **Access** tab field, click the **Connection** button. Decide which computer or computers will be granted access permission to this virtual server.
8. Click the **Add** button and type the IP octet of those computers (Figure 3 below).
9. Click **OK** to save the configuration.

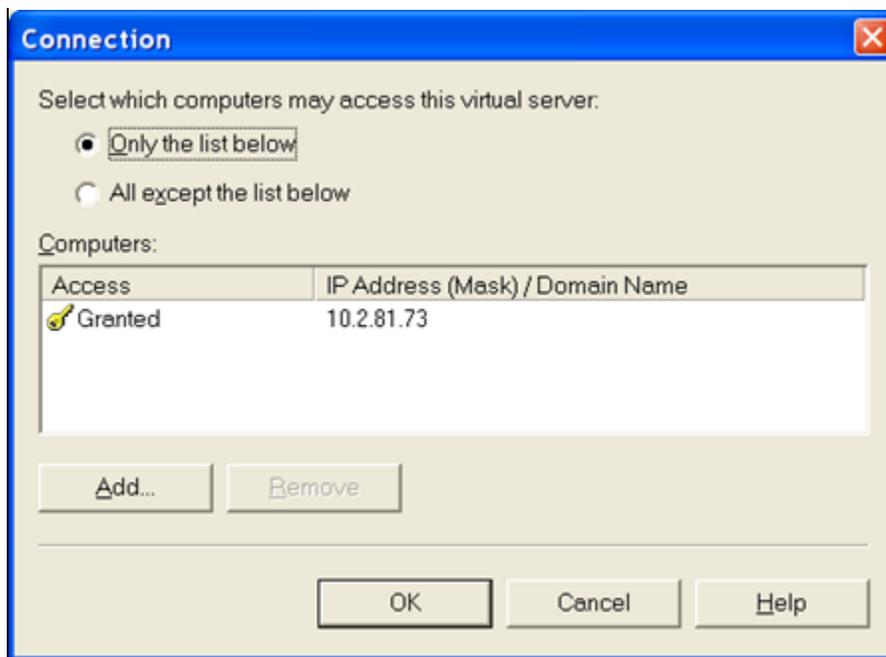


FIGURE 3: GRANT ACCESS TO THE VIRTUAL SMTP SERVER

10. Click **OK** to save the configuration.
11. In the **Access** tab field, click the **Relay** button. Add SCADAAlarm nodes to the relay list.

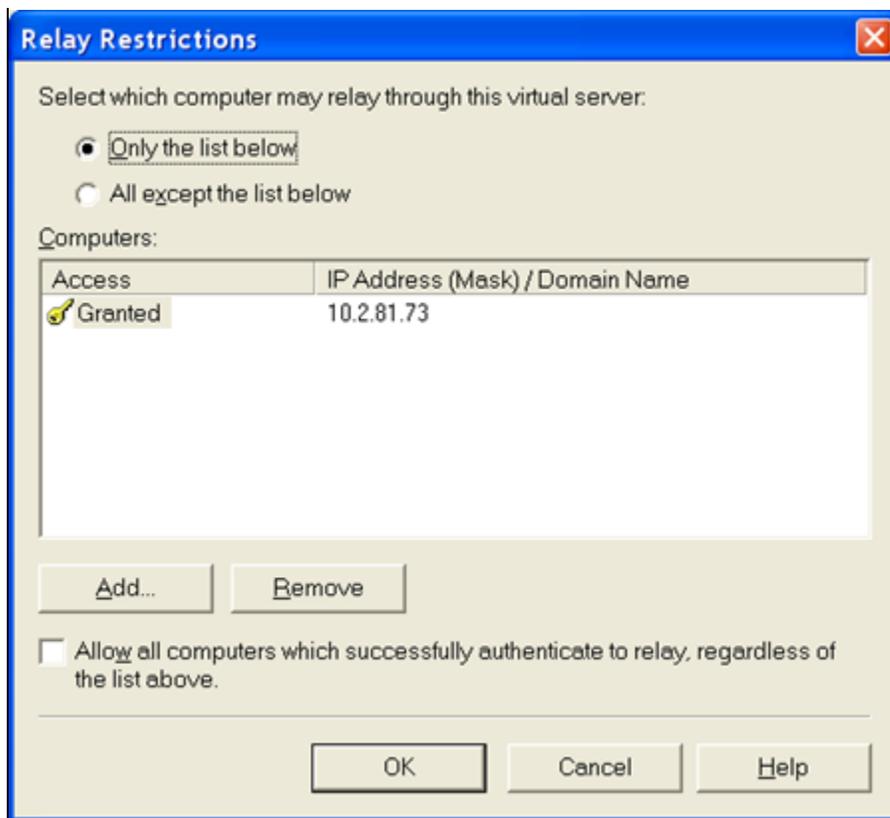


FIGURE 4: GRANT RELAY PERMISSION TO SCADALARM NODE

12. Click **OK** to save the configuration.
13. Click the **Security** tab.
14. Add Windows user accounts to the Grant operator permissions list.

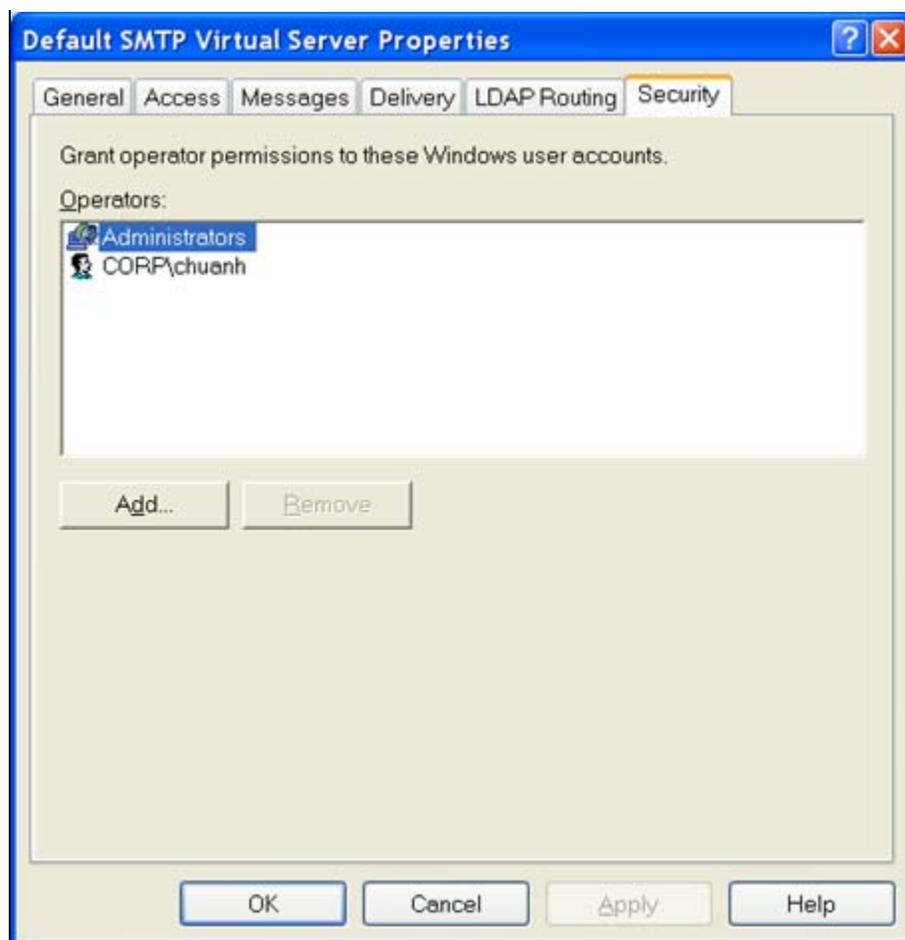


FIGURE 5: GRANTING OPERATOR PERMISSIONS TO WINDOWS USER ACCOUNTS

15. Click **OK** to save the configuration.
16. In the Internet Information Services window, highlight the **Domain** under the Default SMTP Virtual Server item.
17. Right-click Domain, then click **New/Domain**.
18. Add the **Local (default)** domain name.
19. Highlight **Domain**, right-click it, and select **New/Domain**.
20. Click **Remote**, then **Next**. Type in the address for mail to be delivered or relayed.

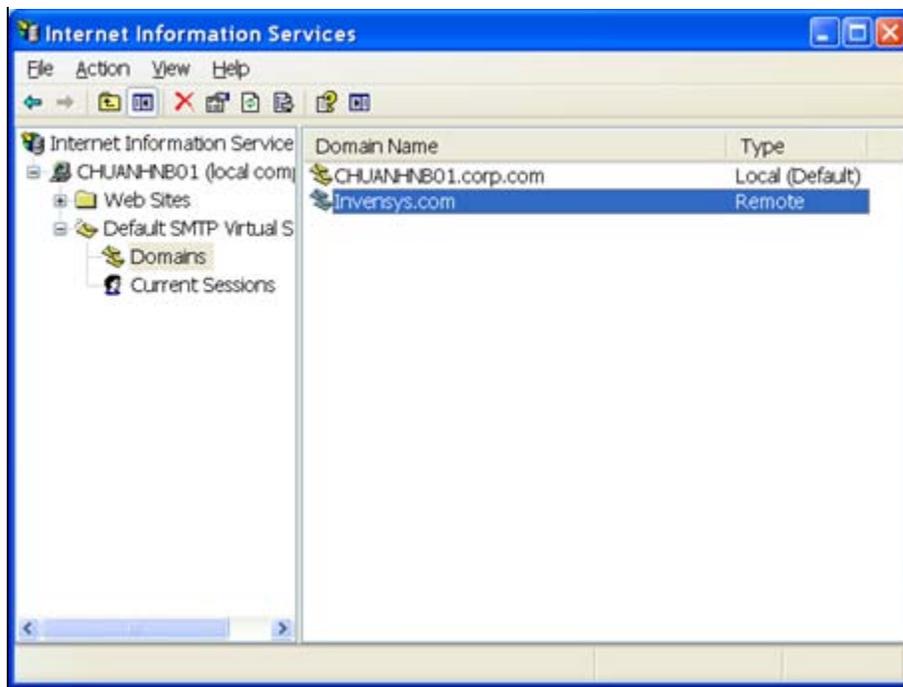


FIGURE 6: ADDING REMOTE DOMAIN FOR EMAIL RELAY

21. Select the remote domain, right-click it, then click **Properties**.
22. In **General** tab, check the **Allow incoming mail to be relayed to this domain** option, and **Forward all mail to smart host**.
23. Type the IP octet (in square brackets) in the **Forward all mail to smart host** field.

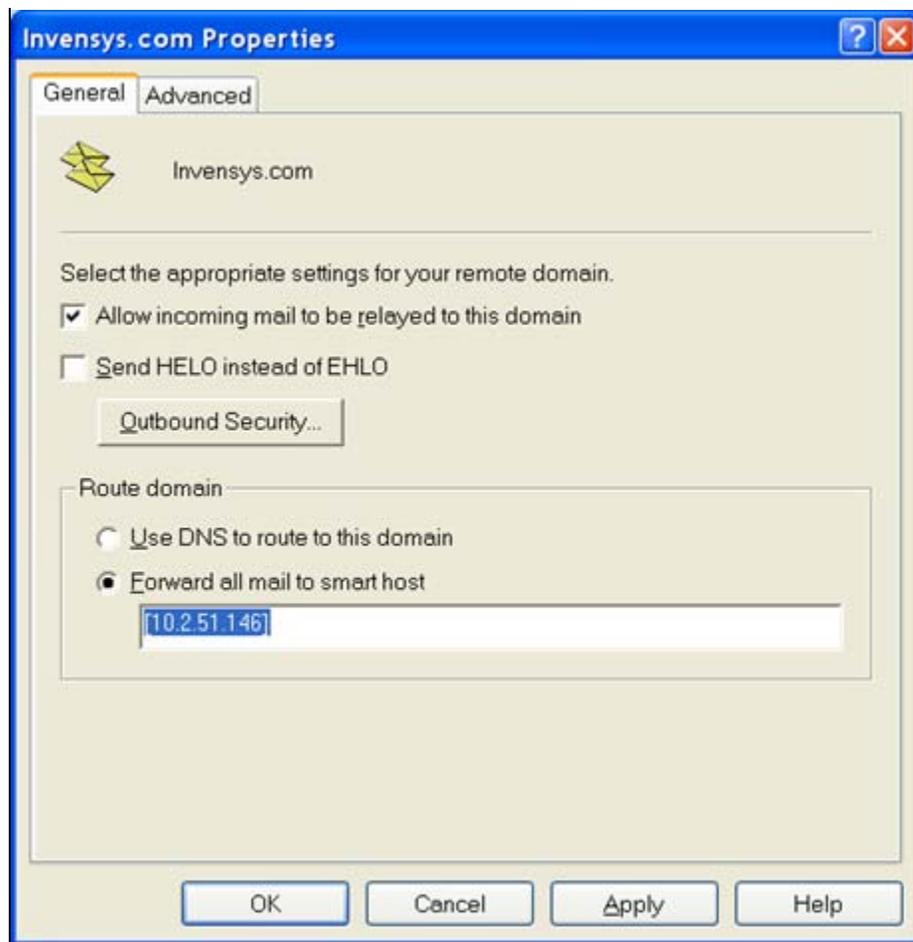


FIGURE 7: CONFIGURING REMOTE DOMAIN FOR EMAIL RELAY

24. Click the **Outbound Security** button (Figure 7 above).
25. Select an appropriate authentication method and type the necessary information (Figure 8 below).
26. Click **OK** to save the configuration.

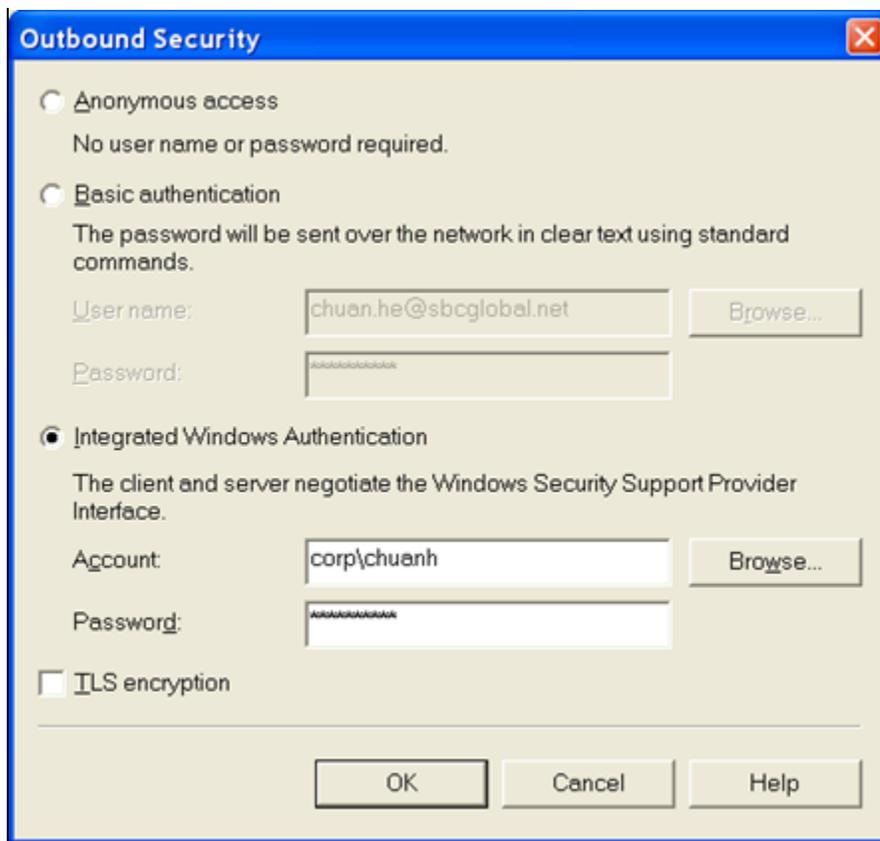


FIGURE 8: OUTBOUND EMAIL AUTHENTICATION INFORMATION

27. Close the Internet Information Services window.

Note: For information about setting up email in SCADAAlarm, refer to SCADAAlarm users guide or [Tech Note 266](#).

C. He

Tech Notes are published occasionally by Wonderware Technical Support. Publisher: Invensys Systems, Inc., 26561 Rancho Parkway South, Lake Forest, CA 92630. There is also technical information on our software products at [Wonderware Technical Support](#).

For technical support questions, send an e-mail to support@wonderware.com.

 [Back to top](#)

©2010 Invensys Systems, Inc. All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, broadcasting, or by any information storage and retrieval system, without permission in writing from Invensys Systems, Inc. [Terms of Use](#).