



AMERICAN DYNAMICS/LANTRONIX MSS1 INTERFACE SETUP

Abstract...

This technical bulletin describes the procedure for connecting a American Dynamic CCTV system to EnterpriseSMS through a Lantronix MSS1 terminal server. Included are instructions for host setup, terminal server configuration, and troubleshooting the installation.

ASSUMPTIONS

This bulletin makes the following assumptions:

- The *Alias Name of the Lantronix Terminal Server* is: `lantronix`
- *Connection* is over TCP/PORT 3001 (default socket)
- *American Dynamics Communications Parameters* are 1200 baud, 8 bit, no parity, XON/XOFF
- The host computer is running the AIX or SCO operating systems. *These procedures are not valid for Windows NT.* Please see the appropriate technical bulletin for WindowsNT or e-mail support@commandsystems.com.

PROCEDURE

1. *Setup (or verify) the IP address of the Lantronix terminal server.*
 - Connect a PC communications port to the single port of the terminal server.
 - Establish a communications session between the PC and the terminal server, setting the communications port to 9600 baud, 8 characters, no parity.
 - Login to the terminal server as `access`, then enter `set privilege`. The password for a privileged user is `system`.
 - If this is a first-time installation, set the IP address of the terminal server by entering `change ipaddress XXX.XXX.XXX.XXX`. Save the new address by entering `.`
 - If this is not a first-time installation, verify the IP address by entering `show server`. The terminal server will display its IP address.
2. *Configure the host computer to communicate through the Lantronix to the Javelin CCTV system. Add the IP address and alias name to the host computer's hosts file.*
 - Open a terminal window on the host computer. Login using the `root` password.
 - Change directories to `/etc`. (`cd /etc`).
 - Open the `hosts` file using the `vi` editor (`vi hosts`).
 - Add the IP address and the alias name you wish to use for the terminal server in the `hosts` file, using the same format used for other entries in that file.
 - Save your changes and exit `vi`.
3. *Add a service on the host computer for the Javelin CCTV system.*
 - Again while logged in as `root`, and in the `/etc` directory, open the `services` file using the `vi` editor (`vi services`).
 - Page down until you find the section entitled `ICS ADDED SERVICES`.
 - Find the line containing the AD entry. Change the `TCP/PORT#` to `3001`.

- Save your changes and exit vi.
 - Log out from the root terminal window (exit).
4. *Set the Lantronix configuration to match the terminal connection settings of the CCTV system and the hosts and services files of the host computer.*
- Telnet into the terminal server from the host using its alias name [telnet lantronix]. Log in as a privileged user (system).
 - Enter the following, pressing *Enter* after each command:
 - Set speed 1200
5. *Edit the host computer's amm_mon file to send commands to the American Dynamics.*
- Login to a terminal window using a standard user password.
 - At the prompt, enter pro to move to the process directory.
 - Open the amm_mon file using the vi editor (vi amm_mon).
 - Scroll to the cctv command lines and make the following changes¹:
 - cctv_dummy:off:cctv_dummy > cctv_dummy.out
 - cctv_if:respawn:cctv_if -t lantronix -s ad -v ad > cctv_if.out
6. *Define your monitors, cameras, and views in the DCS. After doing so, you should be able to control cameras and monitors from the Operator Command Station using the CCTV button.*

TROUBLESHOOTING

- Check the wire connection from the terminal server port to the CCTV system. Refer to the wiring diagrams from the Lantronix and American Dynamics manuals.
- Check if you can select a monitor-to-camera using the CCTV controller. If this cannot be done through the CTV system, it is unlikely to work from the Operator Command Station.
- Insert a data analyzer between the terminal server and Javelin. When monitor-to-camera views are selected at the OCS, verify that the message you see matches the protocol in the Javelin documentation.
- Connect a PC to the communications port of the Javelin controller, establish a communications session, and enter American Dynamic protocol. If functioning properly, you will be able to control the Javelin from the menu interface.

¹ -t precedes the host alias name in the hosts file of the terminal server; -s precedes the service name in the services file on the host computer; -v precedes the technology name of the CCTV system.