



AVS-ESMonitor USER'S MANUAL



Version 2.4 July 2005



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1. Welcome !

AVS-ESMonitor software provides control and monitor functions over EtherSound networks.

2. Limitation of Liability

In no case and in no way, the provider of this software (Auvitrان, the distributor or reseller, or any other party acting as provider) shall be liable and sued to court for damage, either direct or indirect, caused to the user of the software and which would result from an improper installation or misuse of the software. "Misuse" and "improper installation" mean installation and use not corresponding to the instructions of this manual.

Please note that graphics given in this manual (drawings and schemes) are only examples and shall not be taken for a real vision of your own equipment configuration.

Auvitrان is constantly working on the improvement of the products. For that purpose, the products functionalities are bound to change and be upgraded without notice. Please read carefully the User's manual as the new functionalities will be described therein.

3. Trademarks

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4. Copyright

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5. AVS-ESMonitor Functionalities

AVS-ESMonitor:

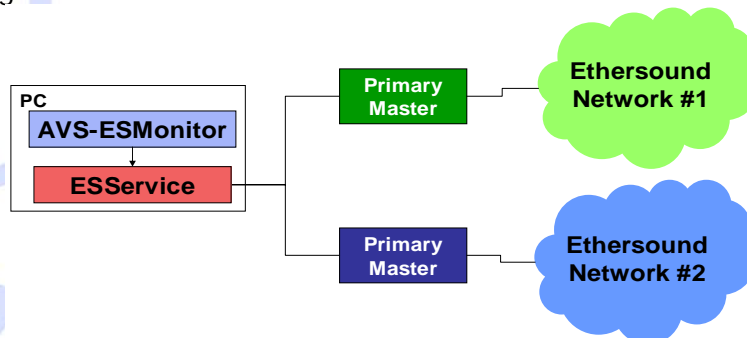
- Provides graphical user interface to EtherSound device and network
- Provides quick information on EtherSound networks and devices
- Provides hierarchical view of each EtherSound networks
- Provides full access to dedicated devices such as AVY16-ES board
- Enables user to build his own audio routing
- Provides group management of devices
- Manages bi-directional audio routing for compatible devices

AVS-ESMonitor is based upon a service managing one or more EtherSound networks. Therefore, AVS-ESMonitor can be used with a distant service (running on another computer), and several AVS-ESMonitor can use the same service. Service parameters can be set via its dedicated control panel.

Group functionality allows user to set together several devices that share same network and same type. Thanks to graphical interface, user will be able to interact with these groups and send several orders via one action only (muting all inputs for instance).

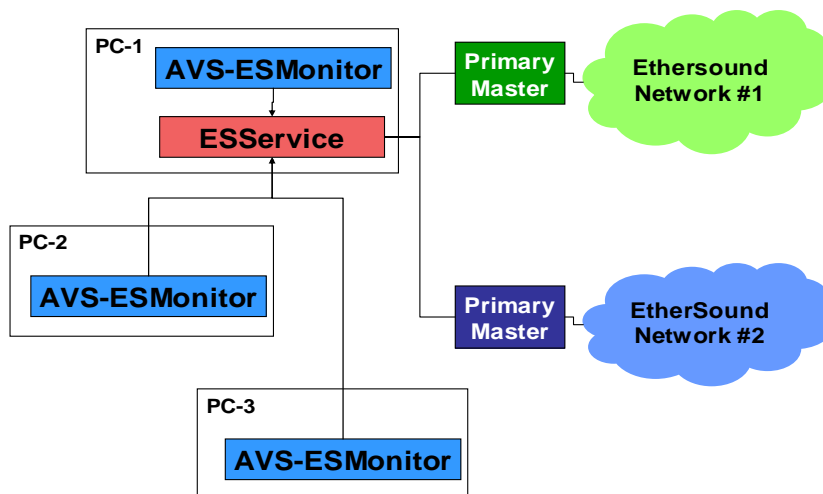
6. Typical Software Architecture Samples

Here is a sketch of typical use of AVS-ESMonitor running on the same computer as the service managing two EtherSound networks.



One computer manages two EtherSound networks

This sketch presents several AVS-ESMonitor on different PC using one service to control several EtherSound networks.



One computer manages two EtherSound networks

7. EtherSound Network Architecture Samples

Sample 1 *Mono Directional system.*

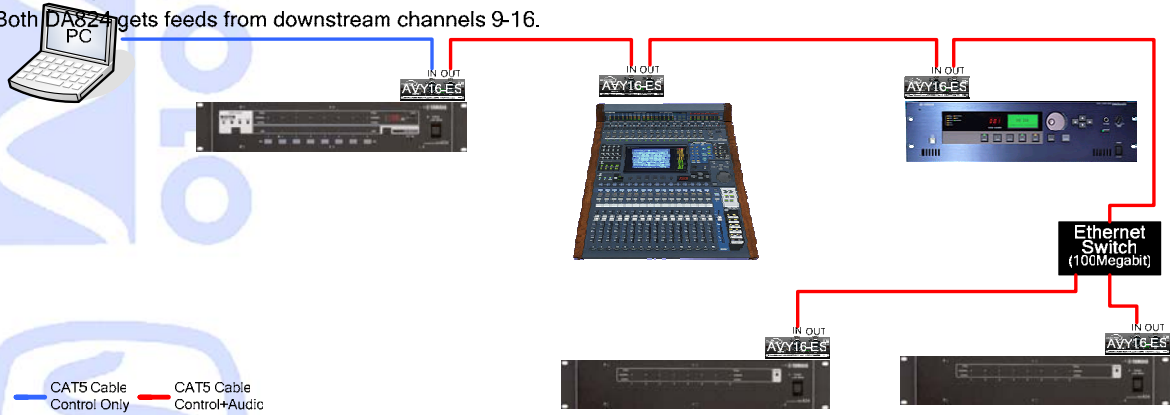
This sample describes a simple configuration using only downstream audio capabilities from EtherSound.

AD824 provides the clock for whole network, and 4 inputs into downstream channels 1 to 4.

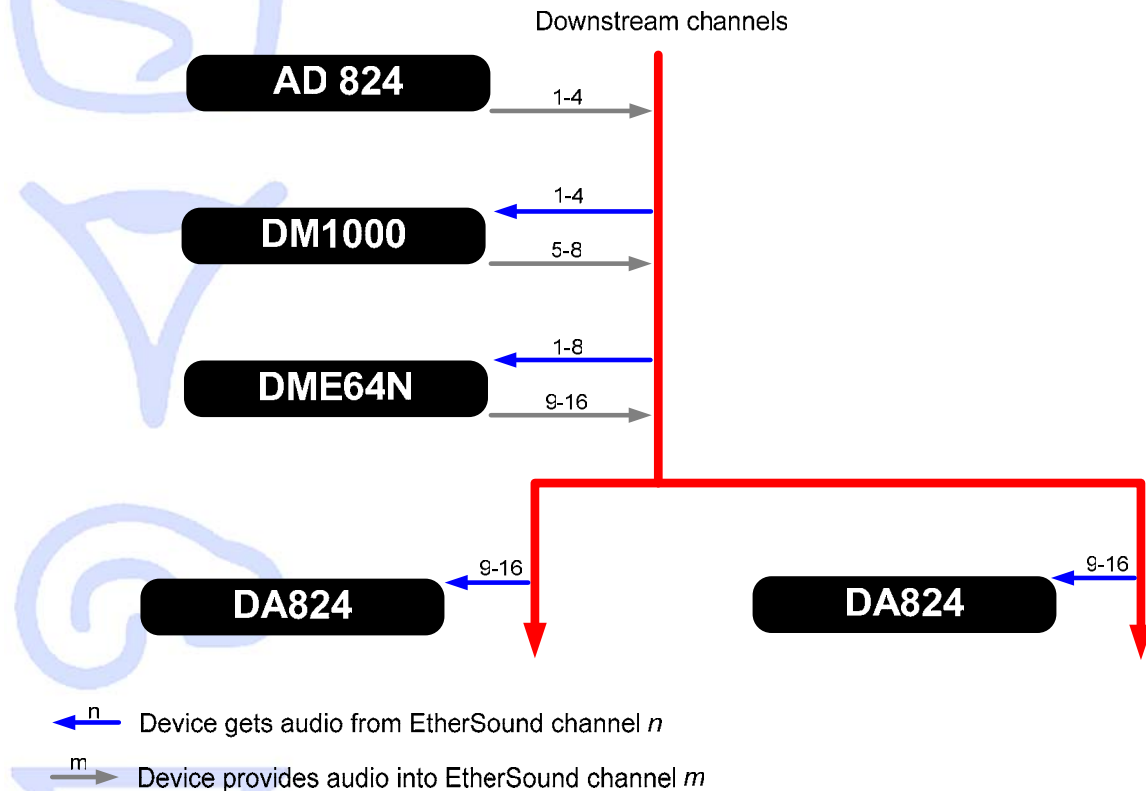
DM1000 get feeds from downstream channels 1-4, provides 2 inputs to downstream channels 5- 6, and adds 2 groups to downstream channels 7-8.

DME64N get feeds from downstream channels 1-8, process them and reinsert them in downstream channels 9 to 16.

Both DA824 gets feeds from downstream channels 9-16.



EtherSound downstream channels are used that way:



Below, you will find routing pages for each device in this network:

- AD824 Routing

Global functions: Mute All Refresh Show Alias Bi-Dir mode available Loopback Output Channel Assign: Mute 1 Set same Start

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	Mute																					
02	Mute																					
03	Mute																					
04	Mute																					
05	Mute																					
06	Mute																					
07	Mute																					
08	Mute																					

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	DN01																					
02	DN02																					
03	DN03																					
04	DN04																					
05	Mute																					
06	Mute																					
07	Mute																					
08	Mute																					

- DM1000 Routing

Global functions: Mute All Refresh Show Alias Bi-Dir mode available Loopback Output Channel Assign: Mute 1 Set same Start

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	DN01																					
02	DN02																					
03	DN03																					
04	DN04																					
05	Mute																					
06	Mute																					
07	Mute																					
08	Mute																					

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	Mute																					
02	Mute																					
03	Mute																					
04	Mute																					
05	DN05																					
06	DN06																					
07	DN07																					
08	DN08																					

Important note: AVY16-ES has to be switched to 8 channels mode in order to work in DA824 and AD824 devices. Please refer to AVY16-ES property page for 8/16 channels switching.

- DME64 Routing

Global functions: Mute All Refresh Show Alias Bi-Dir mode available Loopback Output Channel Assign: Mute 1 Set same Start

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	DN01																					
02	DN02																					
03	DN03																					
04	DN04																					
05	DN05																					
06	DN06																					
07	DN07																					
08	DN08																					

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	DN09																					
02	DN10																					
03	DN11																					
04	DN12																					
05	DN13																					
06	DN14																					
07	DN15																					
08	DN16																					

- Both DA824 Routing

Global functions: Mute All Refresh Show Alias Bi-Dir mode available Loopback Output Channel Assign: Mute 1 Set same Start

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	DN01																					
02	DN02																					
03	DN03																					
04	DN04																					
05	DN05																					
06	DN06																					
07	DN07																					
08	DN08																					

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
01	Mute																					
02	Mute																					
03	Mute																					
04	Mute																					
05	Mute																					
06	Mute																					
07	Mute																					
08	Mute																					

Sample 2

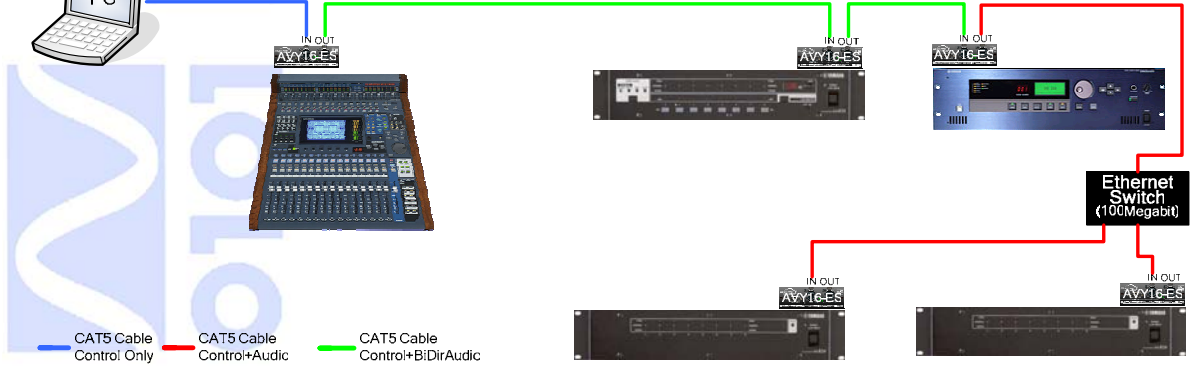
Bi Directional system.

This sample describes a simple configuration using both downstream and upstream audio capabilities from EtherSound. DM1000 provides the clock for whole network, get feeds from upstream channels 1-4 and reinserts them in downstream channels 1-4, provides 2 inputs to downstream channels 5- 6, and adds 2 groups to downstream channels 7-8. It can also get monitoring from upstream channels 9-16.

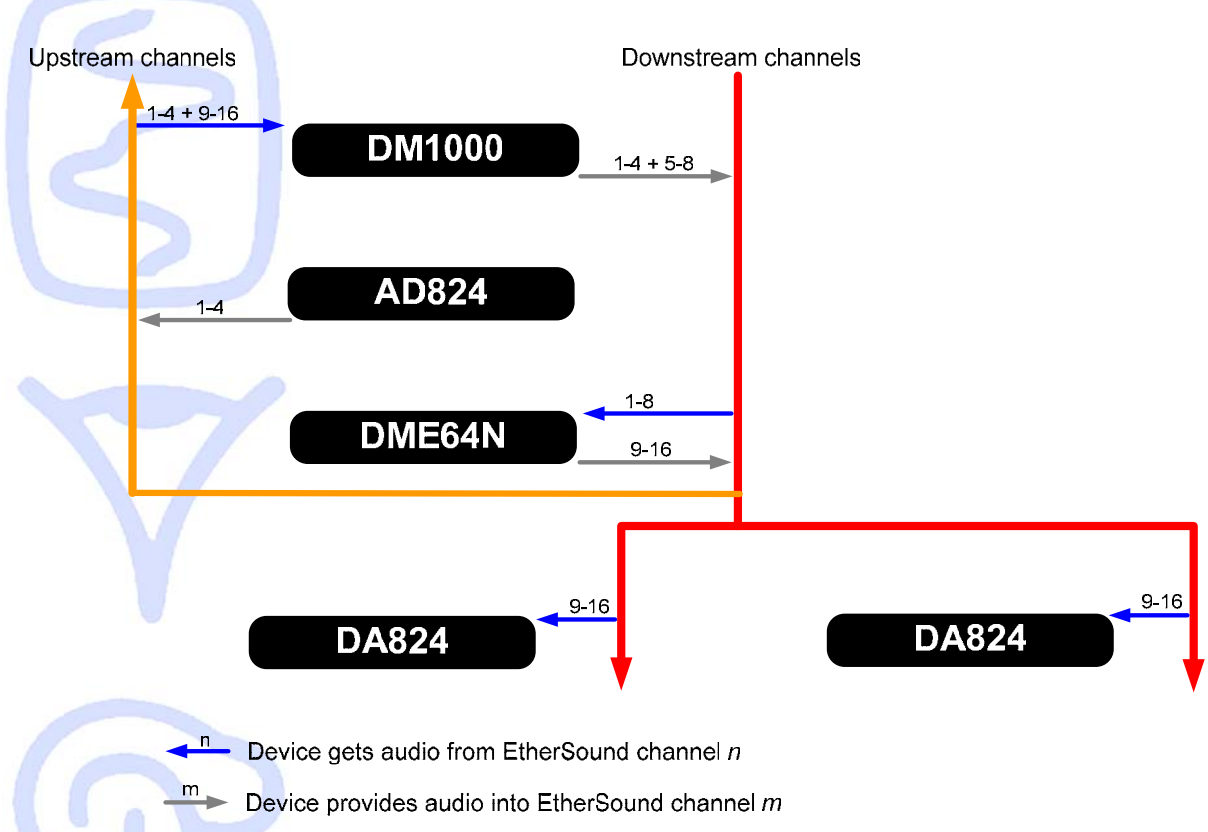
AD824 adds 4 inputs into upstream channels 1 to 4.

DME64N get feeds from downstream channels 1-8, process them and reinsert them in downstream channels 9 to 16.

Both DA824 gets feeds from downstream channels 9-16.



EtherSound downstream and upstream channels are used that way:



Below, you will find routing pages for each device in this network:

- DM1000 Routing

Global functions: Mute All Refresh Show Alias Bi-Directional mode ON Loopback

Output Channel Assignment: Mute 1 Set same Start from

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES>OUT
01	UP01	▲																UP01	01
02	UP02	▲	▲															UP02	02
03	UP03	▲	▲	▲														UP03	03
04	UP04	▲	▲	▲	▲													UP04	04
05	UP09																	UP09	05
06	UP10																	UP10	06
07	UP11																	UP11	07
08	UP12																	UP12	08
09	UP13																	UP13	09
10	UP14																	UP14	10
11	UP15																	UP15	11
12	UP16																	UP16	12

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES<IN
01	DN01	▼																DN01	01
02	DN02	▼	▼															DN02	02
03	DN03	▼	▼	▼														DN03	03
04	DN04	▼	▼	▼	▼													DN04	04
05	DN05																	DN05	05
06	DN06																	DN06	06
07	DN07																	DN07	07
08	DN08																	DN08	08
09	Mute																	Mute	09
10	Mute																	Mute	10
11	Mute																	Mute	11
12	Mute																	Mute	12

- AD824 Routing

Global functions: Mute All Refresh Show Alias Bi-Directional mode ON Loopback

Output Channel Assignment: Mute 1 Set same Start from

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES>OUT
01	Mute																	Mute	01
02	Mute																	Mute	02
03	Mute																	Mute	03
04	Mute																	Mute	04
05	Mute																	Mute	05
06	Mute																	Mute	06
07	Mute																	Mute	07
08	Mute																	Mute	08

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES<IN
01	UP01	▲																UP01	01
02	UP02	▲	▲															UP02	02
03	UP03	▲	▲	▲														UP03	03
04	UP04	▲	▲	▲	▲													UP04	04
05	Mute																	Mute	05
06	Mute																	Mute	06
07	Mute																	Mute	07
08	Mute																	Mute	08

- DME64 Routing

DME64 is set as loopback device

Global functions: Mute All Refresh Show Alias Bi-Directional mode ON Loopback

Output Channel Assignment: Mute 1 Set same Start from

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES>OUT
01	DN01	▼																DN01	01
02	DN02	▼	▼															DN02	02
03	DN03	▼	▼	▼														DN03	03
04	DN04	▼	▼	▼	▼													DN04	04
05	DN05																	DN05	05
06	DN06																	DN06	06
07	DN07																	DN07	07
08	DN08																	DN08	08

DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	UP	ES<IN
01	DN01	▼																DN01	01
02	DN02	▼	▼															DN02	02
03	DN03	▼	▼	▼														DN03	03
04	DN04	▼	▼	▼	▼													DN04	04
05	DN05																	DN05	05
06	DN06																	DN06	06
07	DN07																	DN07	07
08	DN08																	DN08	08

- Both DA824 Routing

Global functions: Mute All Refresh Show Alias Bi-Dir mode available Loopback

Output Channel Assignment: Mute 1 Set same Start from

Routing

DOWN	OUT<ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	
01	DN01																						
02	DN02																						
03	DN03																						
04	DN04																						
05	DN05																						
06	DN06																						
07	DN07																						
08	DN08																						

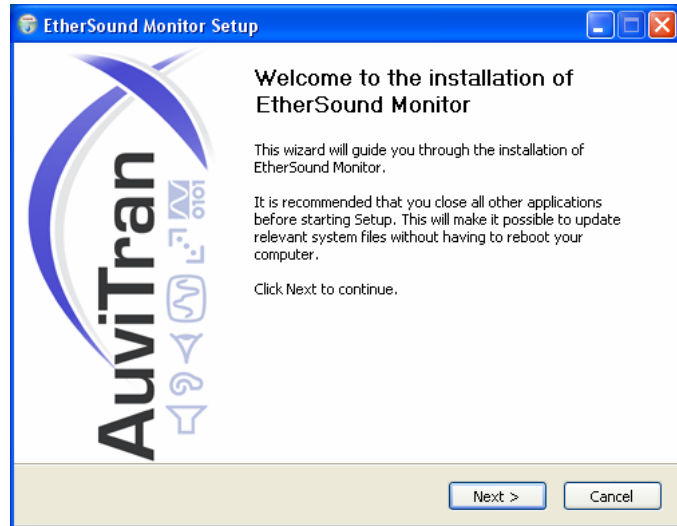
DOWN	IN>ES	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	
01	Mute																						
02	Mute																						
03	Mute																						
04	Mute																						
05	Mute																						
06	Mute																						
07	Mute																						
08	Mute																						

8. AVS-ESMonitor Installation

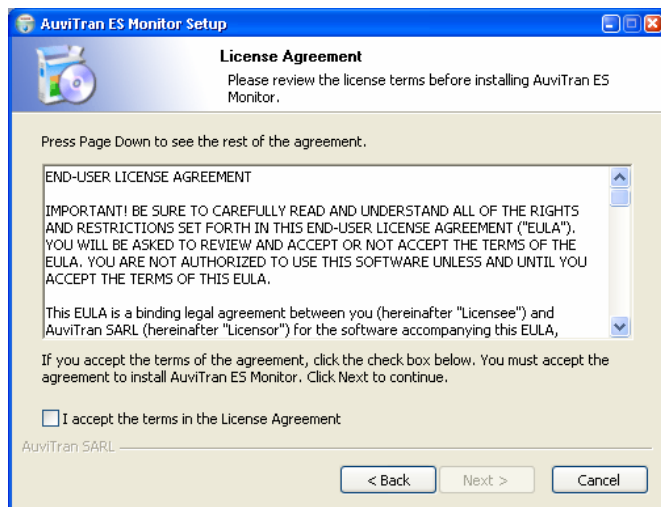
The software will be installed on the PC connected to the EtherSound network through a crossed cable or via a switch.

Please visit our website to download the latest version of EtherSound Monitor Software (<http://www.auvitran.com/>) and save installation program on your hard disk. EtherSound Monitor requires Windows 2000 or XP to function.

You are now ready for installation. When clicking on the EtherSound Monitor icon, a welcome screen will appear:



Click on the « Next » button to start the installation.



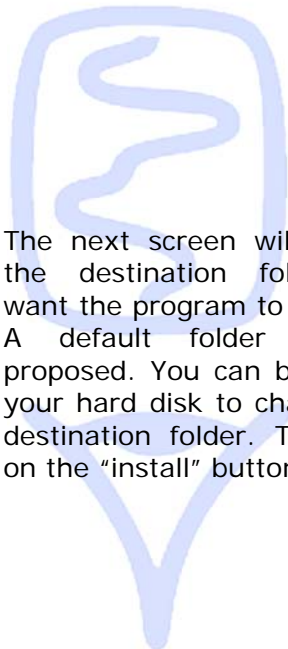
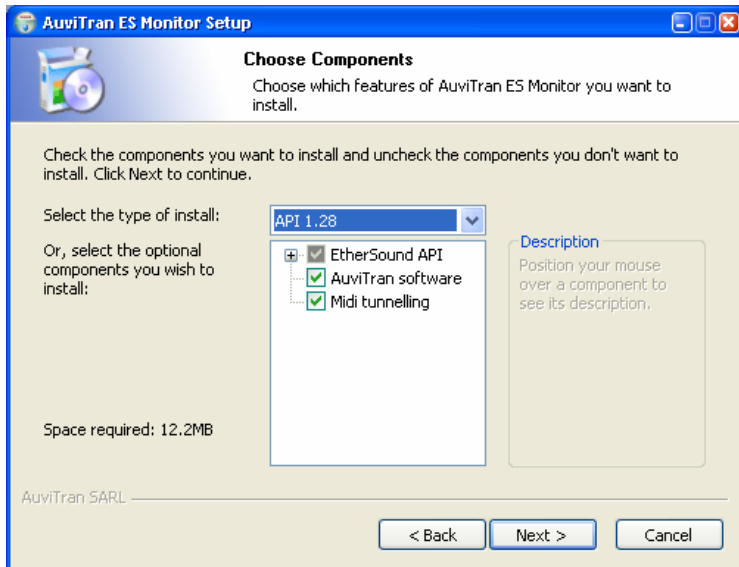
Accept license agreement to carry on with installation.

The screen presents the components available for installation. By default, they are both ticked and will be installed.

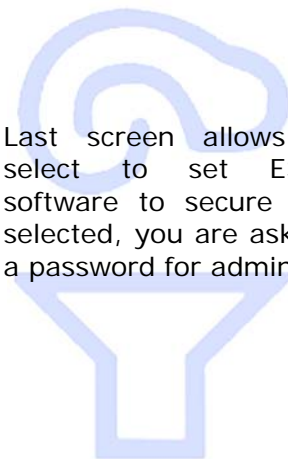
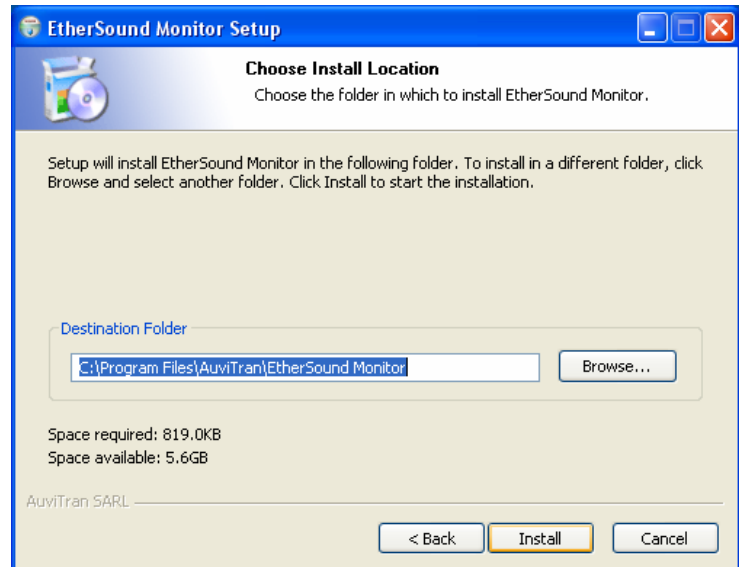
Select MIDI Tunnelling to copy MIDI drivers on your hard drive. Refer to documentation to install these drivers after.

Before installing EtherSound Monitor, please check your hard disk has the necessary space for the operation. Then, click on the "next" button.

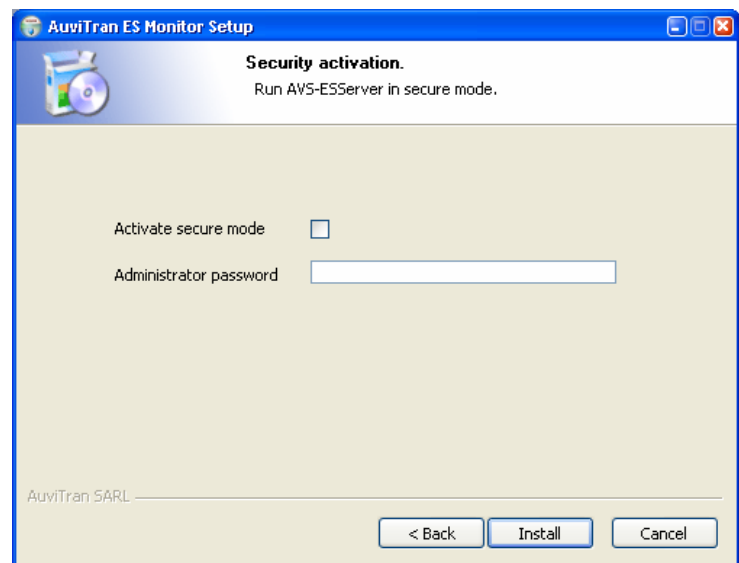
Note: At this point you can select EtherSound API version 1.24 or latest up to date version. **1.24 API is only required to update your AVY16-ES Board.**



The next screen will ask for the destination folder you want the program to install in. A default folder will be proposed. You can browse on your hard disk to change that destination folder. Then click on the "install" button.

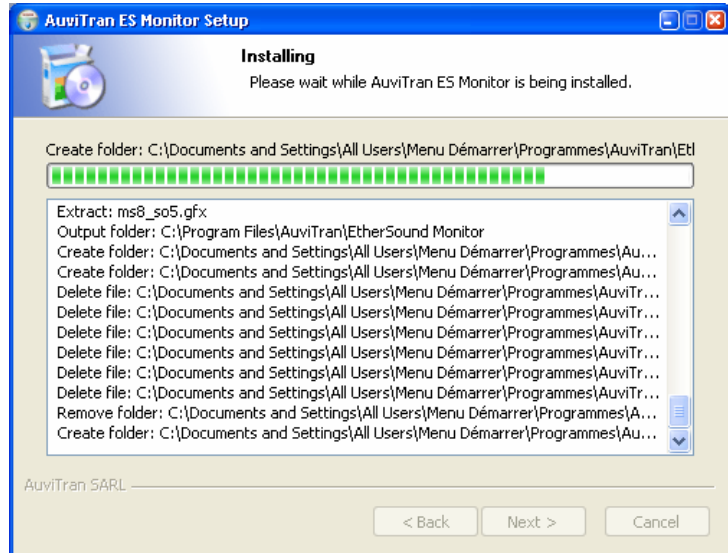


Last screen allows you to select to set ES-Monitor software to secure mode. If selected, you are asked to set a password for administration.



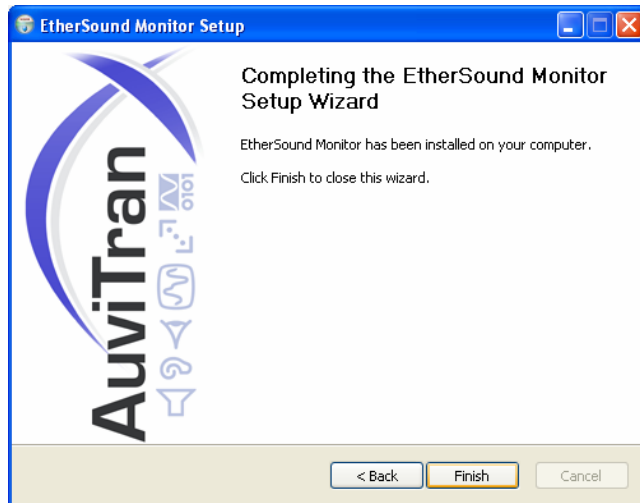
Install process will go on automatically.

If needed, install will prompt you for re-installation of EtherSound API.



Click on "Finish" to complete the installation.

Automatic reboot will be done if needed.

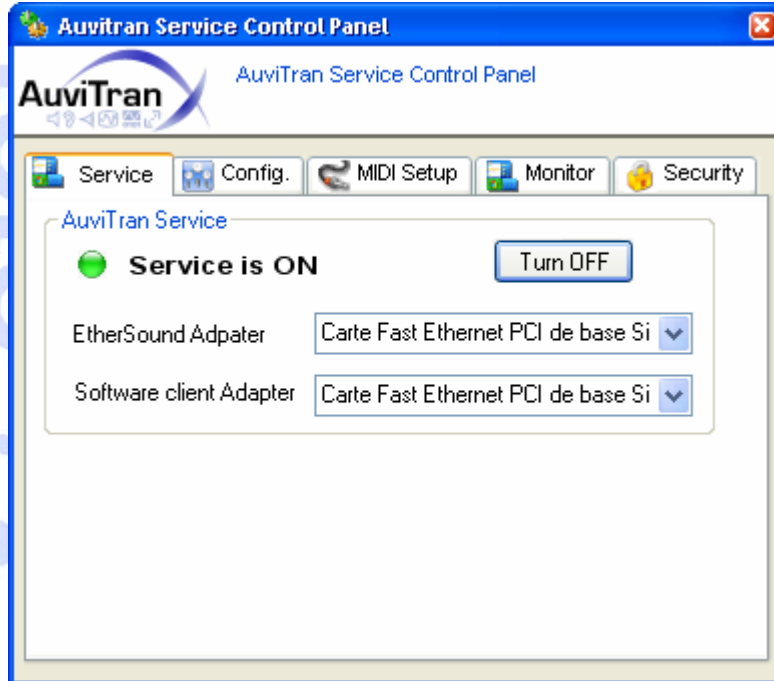


EtherSound Monitor is now installed and ready for use.

9. AuviTran Service Control Panel

Once installed, Service is automatically started. But user can modify parameters at any time via Service Control Panel accessible via its shortcut "AuviTran/EtherSound Monitor/Engine control Panel" in the Start Menu.

Service Panel



Service Control Panel

This panel shows current service status via a Red/Green bullet. It can also stop/start service using the Turn OFF/ON button.

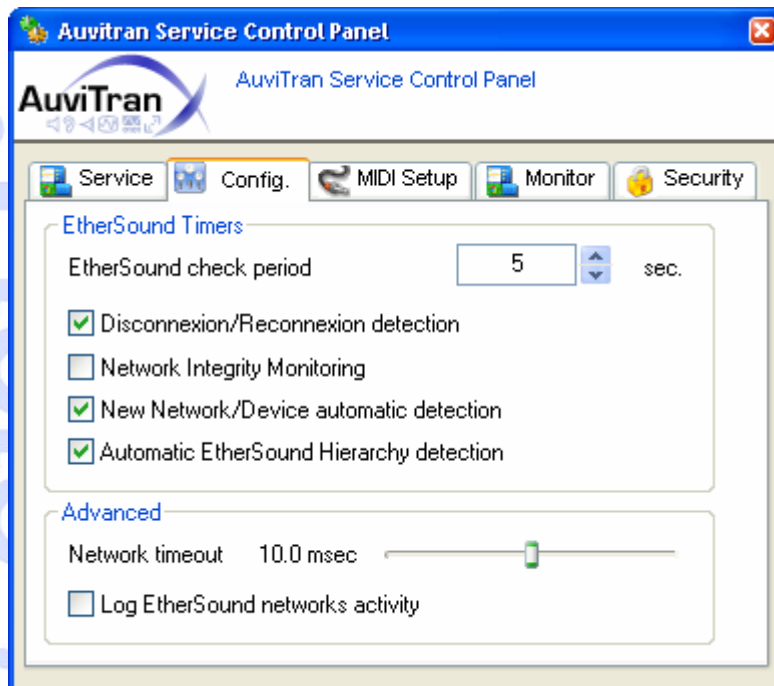
If Digigram service is installed, status is also displayed beneath the AuviTran Service information.

Thanks to this panel, user can also affect the different adapters present on the computer.

- EtherSound adapter: is the adapter connected to the EtherSound networks
- Software client Adapter: is the adapter used for external communication with AVS-ESMonitor applications

Note that EtherSound Adapter and Software client Adapter can be identical if only one adapter is present.

Configuration Panel



Configuration Control Panel

This panel allows user to select EtherSound check options, and periodicity.

Several options are available:

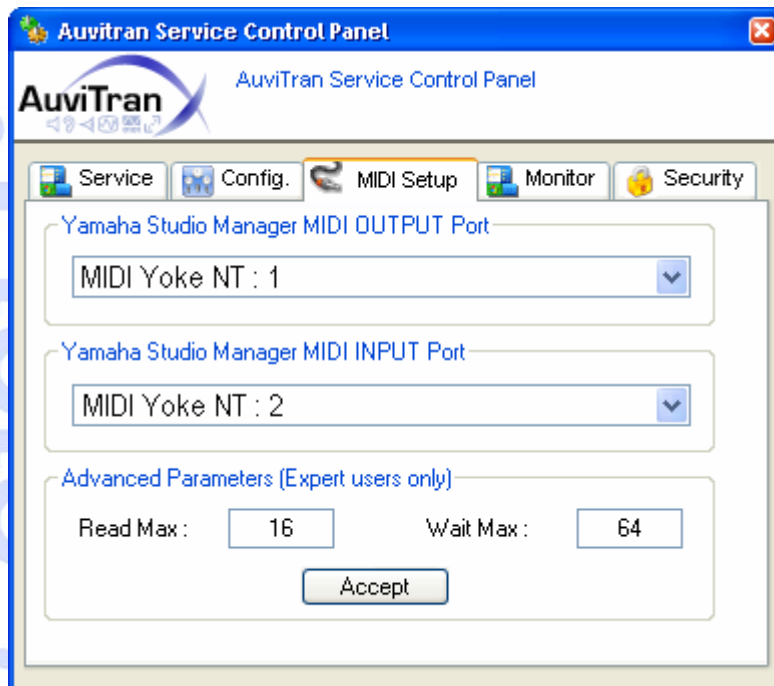
- Disconnection/Reconnection detection: AVS-ESMonitor will be prompted when device is disconnected or reconnected.
- Network Integrity Monitoring: Service will check device status to ensure EtherSound network is working properly.
- New Network/Device automatic detection: AVS-ESMonitor will be prompted when a new network is connected, or a new device is added to network.
- Automatic EtherSound Hierarchy detection: Service will build automatically device hierarchy.

Advanced options are to be used with care as it may result in unstable service and AVS-ESMonitor applications.

- Network timeout: default value should be 50msec.
- Log EtherSound networks activity: creates a log file with all EtherSound networks event.

Note that logging EtherSound activity over long period may create large files that can be harmful for your system.

MIDI Configuration Panel

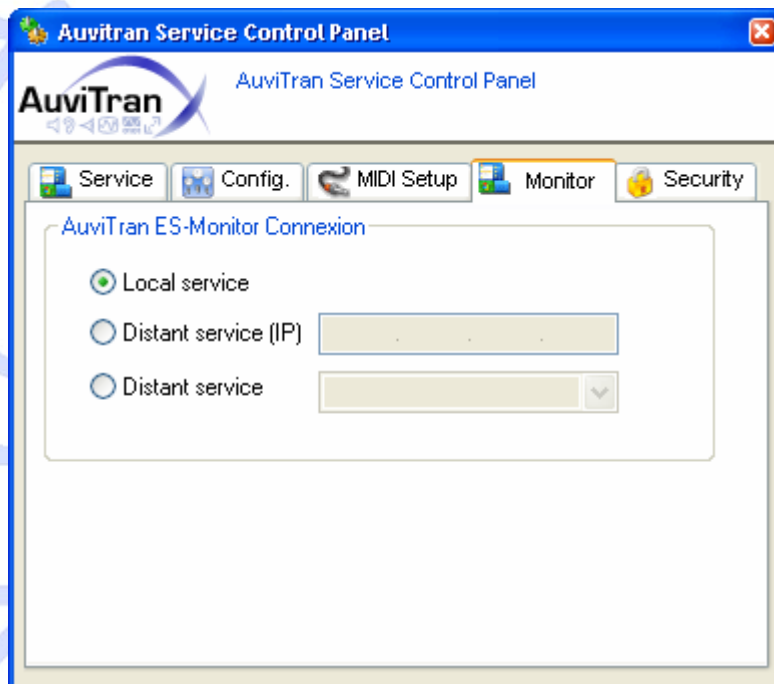


MIDI Configuration Control Panel

When MIDI drivers are installed (refer to dedicated documentation for installation procedure), this panel allows user to setup MIDI Port for MIDI tunnelling through AVY16-ES board. **Note that MIDI Yoke NT port selected must match the MIDI port selected in the Yamaha Studio Manager.**

Advanced parameters are reserved for expert users, as it may result in unstable MIDI tunnelling.

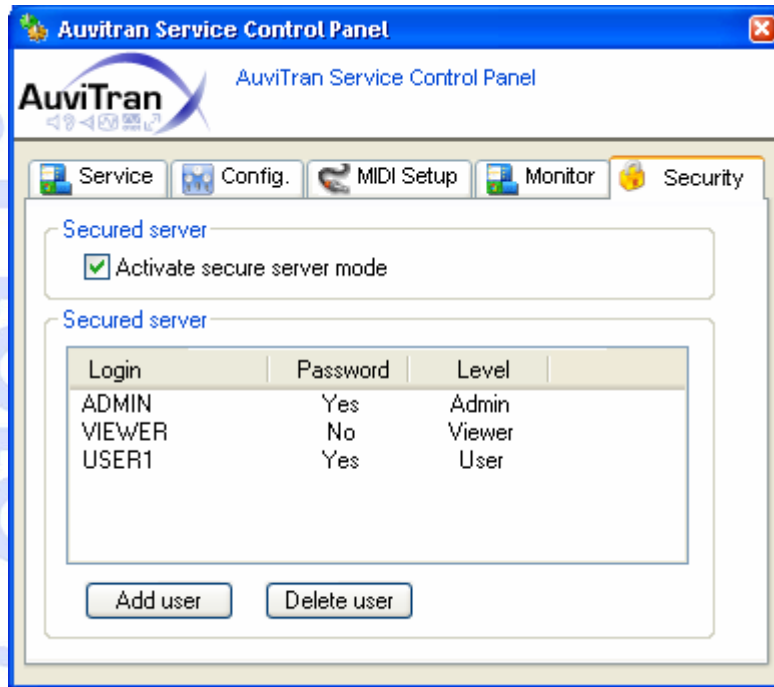
Monitor Panel



Monitor Control Panel

This panel is to be used to set AVS-ESMonitor connexion to local or distant service.

Security Panel



Monitor Control Panel

This panel is used to create/modify/delete user when AVS-ESMonitor is set to secure mode.

“Activate secure server mode” option allows to change between secure/normal mode.

List presents all users with their respective access level, and if password is set for this user.

Admin level: User has access to all controls within AVS-ESMonitor.

User level: User has access to control page of devices, but can't modify routing.

Viewer level: User can only view device control and routing tabs.

Double-clicking on a user allows modification of user's properties.

Button “Add user” allows creation of a new user.

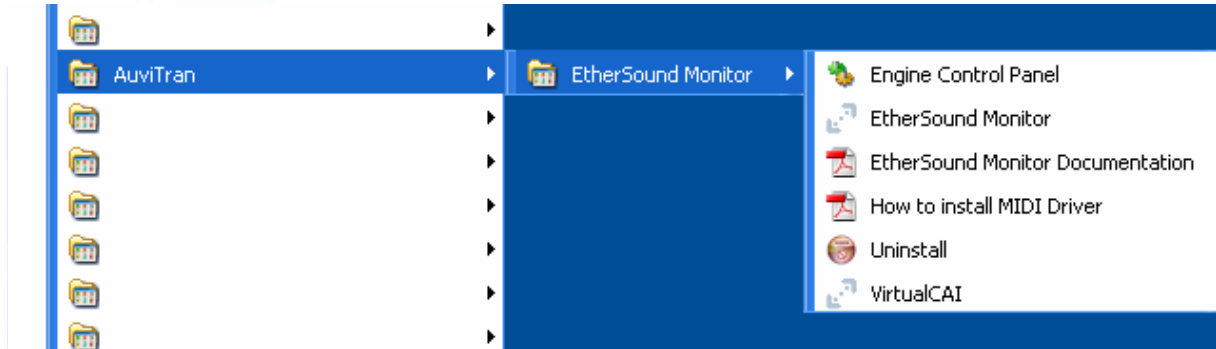
Button “Delete user” allows deletion of currently selected user.

Note: Security access can only be modified by administration user. Control panel will be only viewable for user without admin password.

10. AVS-ESMonitor Launch

AVS-ESMonitor shortcuts are located in “Program Files/AuviTran/EtherSound Monitor”.

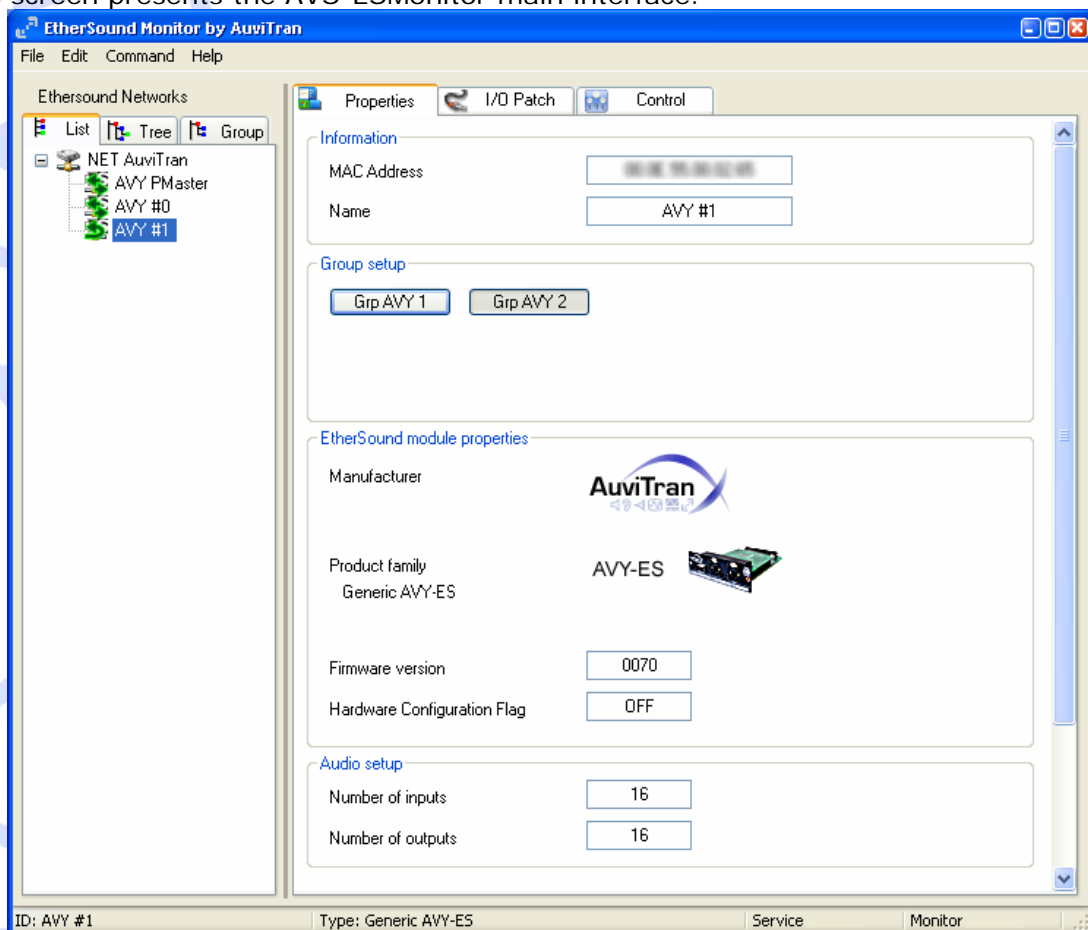
It allows user to launch “Control Panel” Application and “EtherSound Monitor” Software. But, it also provides direct access to software documentation, and uninstallation process.



AuviTran ESMonitor shortcuts

11. AVS-ESMonitor Main Interface

This screen presents the AVS-ESMonitor main interface:



Overview of main interface

Main interface is composed of:

- Menu: Configuration and network functions
- Status Bar: Information on current selection
- TreeViews: Selection of EtherSound network/device

- Tab pages: Information, Control and Routing of EtherSound device

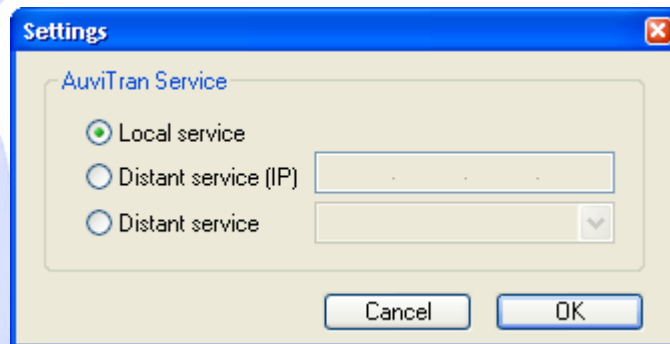
AVS-ESMonitor Menu

File menu from AVS-ESMonitor allows user to:

- From "Network configuration" sub-menu
 - Save, a complete configuration to a file
 - Restore a complete configuration from a file
- From "Device Memory" sub-menu
 - Save configuration to currently selected device memory or all devices of selected network
 - Restore configuration from currently selected device memory or all devices of selected network

Edit menu allows user to:

- Hide completely the two left side tree views
- Launch Control Panel if using AVS-ESMonitor on local service
- Change program configuration for:
 - Connection to AVS-ESService (Local service or distant service)



Preferences dialog

Command menu from AVS-ESMonitor allows user to:

- Disconnect from current ES-Server
- Connect to ES-Server
- Reset completely EtherSound networks and re-launch a full discovery process
- Reset completely current groups settings

AVS-ESMonitor Status Bar

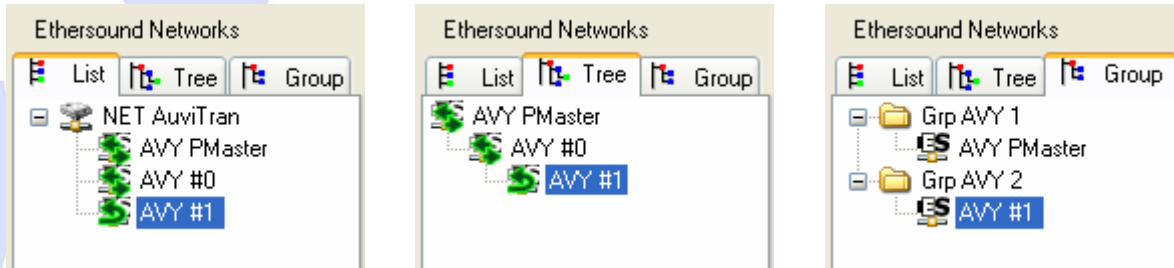
On bottom of window, status bar provides quick information on:

- Device/Group alias
- Device/Group type
- Current service version
- Current ESMonitor version

AVS-ESMonitor TreeViews

TreeViews tab selector allows user to select device from three different representation of EtherSound networks:

- List: Classic display of all EtherSound networks and devices
- Tree: Display devices in hierarchy view, only when hierarchy was found or built
- Group: Display devices in group view as defined by user



EtherSound network TreeViews available

List and Tree view uses icon representation for devices that allows user to quickly see current device status. Device status icons are:

- Network is connected
- Network is disconnected
- Device is connected
- Device is disconnected
- Device is hardware configured (Routing can't be changed via ESMonitor)
- Device is connected, set to Bi-Directional mode and within a loop
- Device is connected, set to Bi-Directional mode and is last in the loop
- Device is connected, but can't be found in the hierarchy (device firmware is too old or behind an old device)

From List and Tree, right clicking on network/device enables direct access to several functions:

- Network functions
 - Reset All: Reset all networks and relaunch a complete discovery
 - Build all hierarchy: force manual building of hierarchy
 - Force to MonoDir: revert all devices to MonoDir configuration
 - Rename: change network name
- Device functions
 - Rename: change device name
 - Write to Memory: write configuration into selected device memory
 - Read from Memory: restore configuration from selected device memory
- Group functions
 - Add/Remove device from group

When used on network, device function Write/Read applies to all devices from selected network.

From Group, right clicking on group/device enables direct access to group functions

- Remove all groups:
- Add group:
- Rename group:
- Remove group:

AVS-ESMonitor Tab pages

On right side of interface, user is able to select property page, routing page or control page if available. All pages are described in documentation herein after.

12. Property Page

Property page gives to the user a quick look over several device parameters. On network selection, only Information group is visible.

Among all device information, user will find:

- MAC address and alias
- Manufacturer and product family of device
- Current status of hardware configuration (audio routing lock)
- Number of inputs and outputs
- Group setup (check buttons to enable/disable device belonging to group)

The screenshot displays the 'Properties page overview' for an AVY device, organized into several sections:

- Information:** Contains fields for 'MAC Address' (with a blurred value) and 'Name' (set to 'AVY #1').
- Group setup:** Features two buttons labeled 'Grp AVY 1' and 'Grp AVY 2'.
- EtherSound module properties:** Includes:
 - 'Manufacturer' with the 'Auvitrans' logo.
 - 'Product family' showing 'AVY-ES' and 'Generic AVY-ES', accompanied by a small image of the device.
 - 'Firmware version' set to '0070'.
 - 'Hardware Configuration Flag' set to 'OFF'.
- Audio setup:** Shows 'Number of inputs' and 'Number of outputs', both set to '16'.

Properties page overview

13. Routing Page

Routing page allows user to select EtherSound channel for each input and output (when available) of selected device.

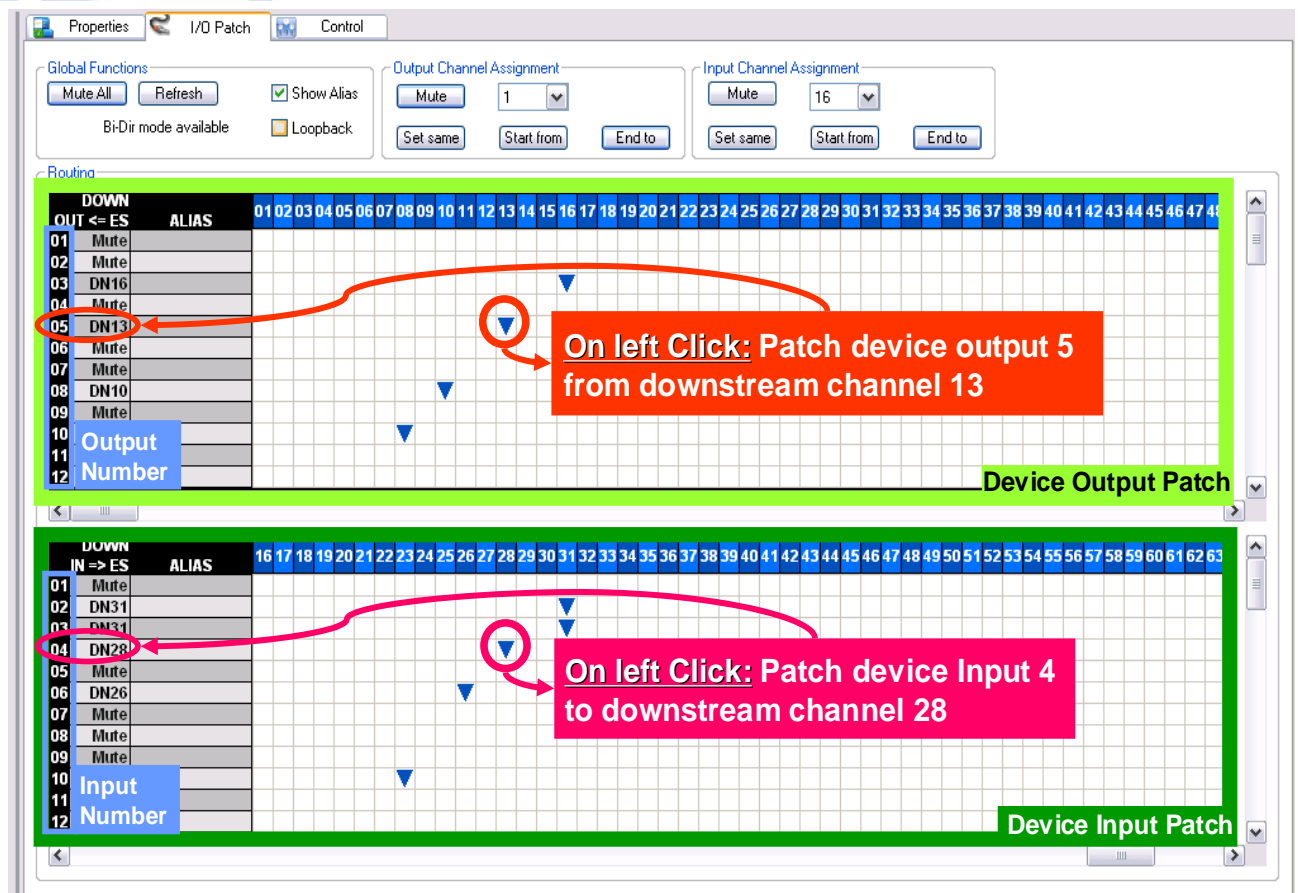
Channel assignment enables user to quickly set all inputs or outputs (depending on which channel is selected) to same EtherSound channel, starting from selected EtherSound channel or ending to a specific EtherSound channel. You can also mute all inputs or outputs of selected device using Mute buttons.

On left side of grid, you can set aliases for each outputs and inputs of device. Thanks to this feature, you will find easily and quickly what is connected to your different EtherSound devices.

Global functions allow you to mute all outputs and inputs of device via a single button. You can also refresh routing via a press on "Refresh" button. You are able to hide/show alias column to enlarge EtherSound channel display.



In addition, you can get information on Bi-Directional status of device (whether it is available, active or unavailable). Loop-back button lets you set the device as start of loop-back mode for Bi-Directional EtherSound.

Thanks to the grid, you can directly assign EtherSound channel to input or output of device by a simple click on the desired patch. Left click allows you to set for downstream, while right click allows you to set upstream EtherSound channel (only bidirectional device when available).

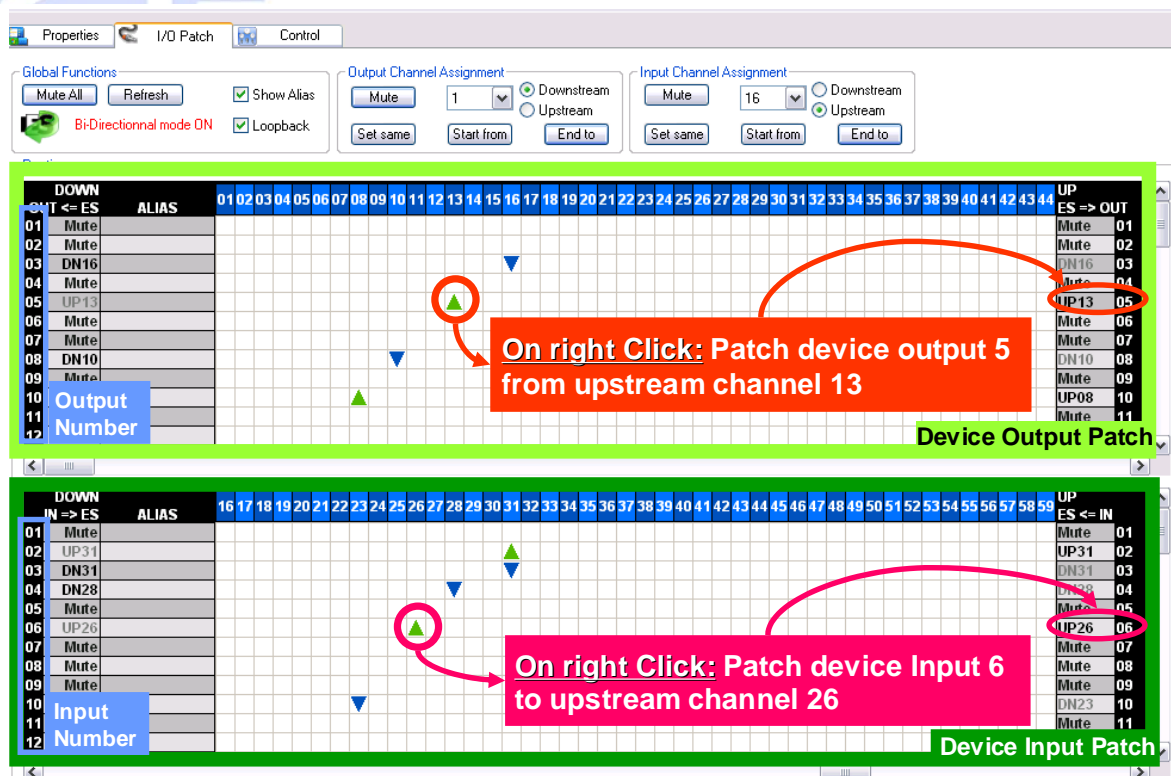


Routing page overview for Mono directional device

When Bi-Directional is available, global functions display:

- Bi-Directional status icon
 -  Device is within a bi-directional loop
 -  Device is last of bi-directional loop
- “Loop back” check box lets user enable/disable device to become bi-directional end of loop

Warning: Bi-directional loop may not contain any switches. Bi-directional is only usable within a daisy chained devices. As well as inserting a mono directional device (without bi-directional capability) within a bi-directional loop may result in unpredictable behaviour of device and software.



The screenshot displays the software interface for configuring a bi-directional device. At the top, the 'Global Functions' section shows 'Bi-Directional mode ON' and 'Loopback' checked. Below this are two patching grids:

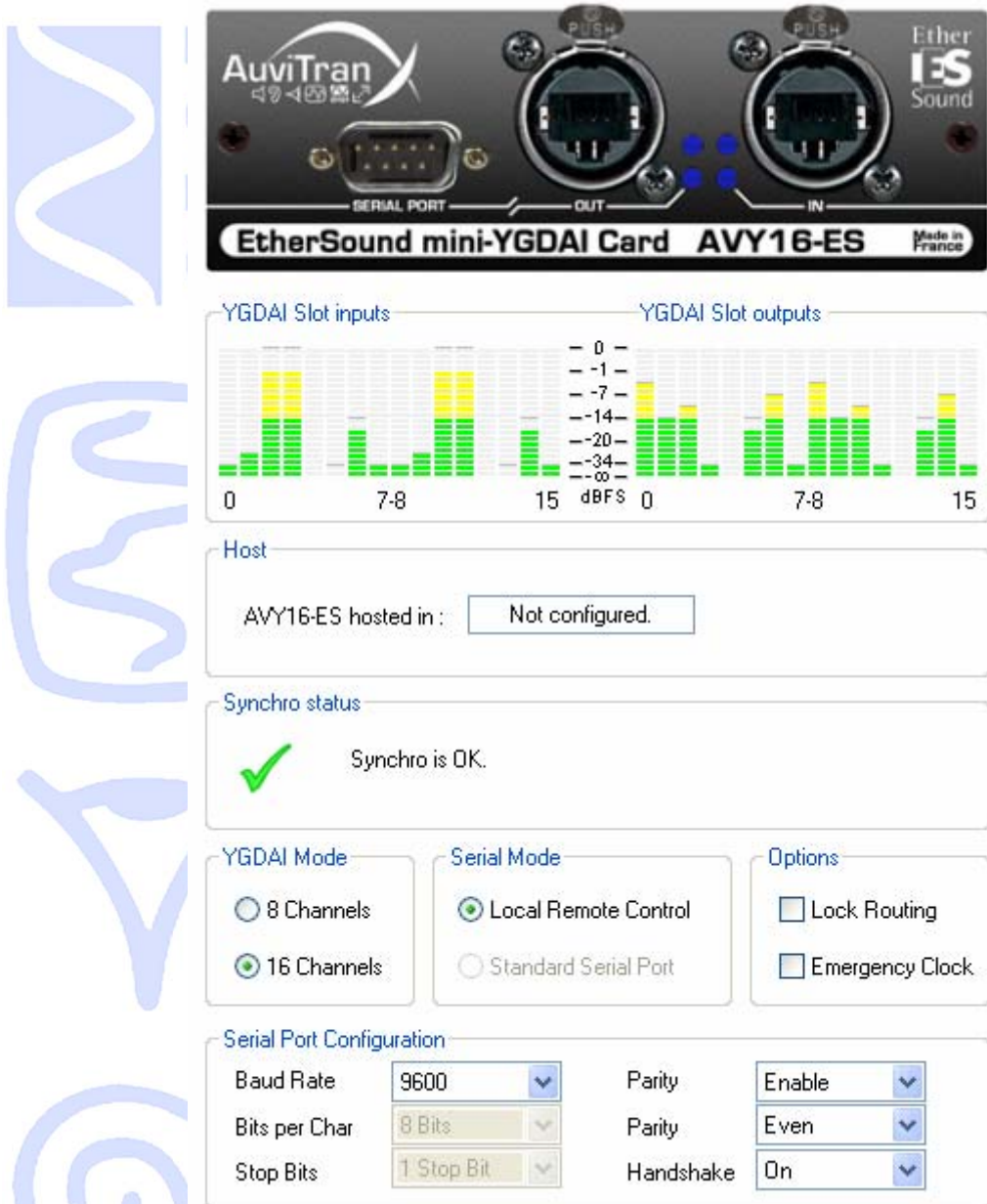
- Device Output Patch:** A grid with columns for 'DOWN' (01-44) and 'UP' (01-11). A red callout box points to a green triangle at the intersection of 'UP13' and '05', with the text: "On right Click: Patch device output 5 from upstream channel 13".
- Device Input Patch:** A grid with columns for 'DOWN' (16-59) and 'UP' (01-11). A pink callout box points to a green triangle at the intersection of '06' and 'UP26', with the text: "On right Click: Patch device Input 6 to upstream channel 26".

Routing page overview for Bi directional device

14. Control Page

Control page aspect depends on selected device. When available, user gets access to dedicated functionality of device. Refer to the specific user's manual device for more info about dedicated function features and behaviours. For instance, here is AVY16-ES Control page.

AVY16-ES Control Page



AuviTran AVY16-ES page overview

The AVY16-ES Control page provides:

- 32 Vu-meters for each of 16 outputs and 16 inputs
- Host device for AVY16-ES
- Synchronisation status with the host Console or Mixing-Engine.

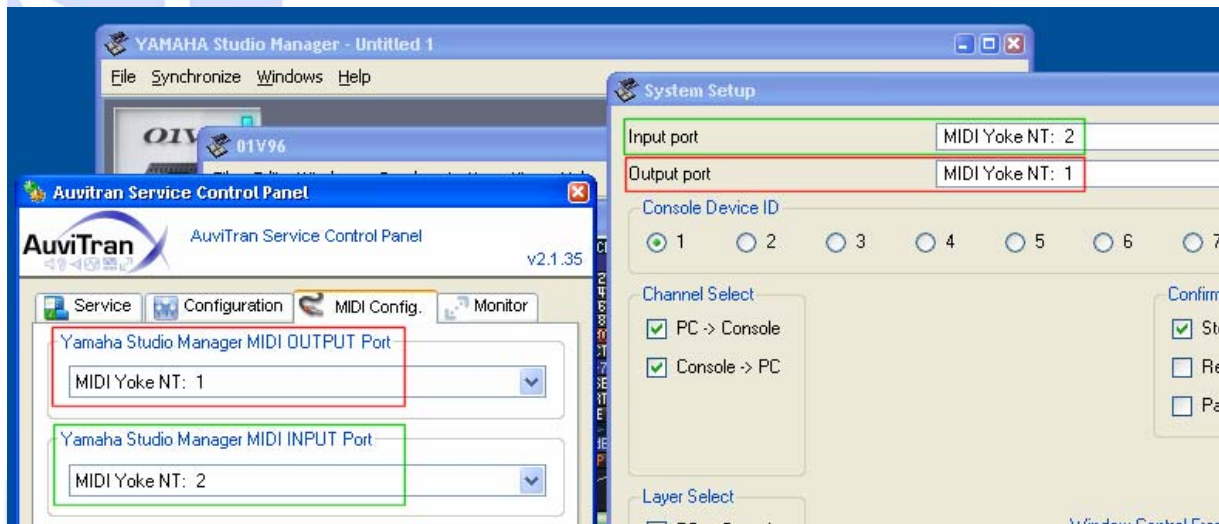
But it also allows user to select

- YGDAI Mode: Switch AVY16-ES in 8 or 16 channels bus mode for Yamaha compatibility.

- Serial Mode: Set UART parameters for the AVY16-ES serial port in Local remote.
- Lock routing: Use to lock current EtherSound audio routing.
- Emergency clock: When checked, host won't mute audio channels when cable will be unplugged.

Note that host device can only be found if MIDI is redirected to AVY16-ES slot. Once found, MIDI tunnelling can be activated via appropriate push button.

To benefit from full MIDI Tunnelling, configure your Yamaha Studio Manager properly as shown below for the 01V96 Studio Manager for instance:



MIDI Configuration for both control panel and Yamaha Studio Manager

Note that Input and Output port must use a different MIDI Yoke NT port.

15. Important Notes to use several ESMonitor

- To use multiple AVS-ESMonitor on more than one PC on same Ethernet LAN, the Auvitrans (EtherSound) service must run on only one of the machine and must be disabled on the other one.
 - On the machine where the Auvitrans service is running the Local service button must be selected.
 - On the distant machine, the distant service must be selected with The IP address of the machine where the service is running.
- Due to today limitation of the EtherSound API provided by Digigram, Only one service Auvitrans or Digigram could work at a time on a same Ethernet network (LAN).

16. Frequently Asked Questions

- New devices are not discovered by AVS-ESMonitor?
⇒ Ensure that automatic network/device detection is activated in the Control Panel.
- Why my hierarchy is modified after a manual selection from AVS-ESMonitor?
⇒ If automatic hierarchy option is activated for the service, and old device are present in the network, manual hierarchy detection will be overwritten at next hierarchy automatic check.
- MIDI Yoke driver does not appear in the MIDI configuration page in the Control Panel?
⇒ Be sure that MIDI Yoke driver were installed on your computer.
- AVY16-ES host device is not recognized?
⇒ Ensure that Host is redirected to the AVY16-ES slot in your Yamaha device.
- Why only one AVY16-ES recognized Yamaha host where I plugged two AVY16-ES?
⇒ Only one AVY16-ES card can be used for MIDI tunnelling and therefore only one card will know in what Yamaha host it is plugged.
- Why Yamaha Studio Manager works only in one direction?
⇒ Ensure that MIDI Yoke port selected for Input and Output are different.

17. Auvitrans Website / More Information

Please visit our website for any question of further inquiry concerning our product range. Updates will also be posted when available.

<http://www.auvitran.com>