

NETWORK TRANSPONDER



TECHNICAL INFO

Diameter 47 mm, depth 22 mm. Weight: 34 g. Range: ≥ 6 m, $\pm 20^\circ$.

Signal power can be set from low to high, to avoid disturbances in environments with many transponders.

The NETWORK TRANSPONDER is used together with Dataton PICKUP audio guide. The word SYNC flashes on the transponder's display to indicate communication with a PICKUP audio guide.

Each NETWORK TRANSPONDER has a factory set ID number of 1000 and an IP number 192.168.0.200. These can be changed using the configuration program.

Download the configuration program under Software at:
www.dataton.com/pickup

INSTALLATION

The transponder is mounted either with the self-adhesive ring on the back or with a screw (included).

The transponder is powered by a power-over-Ethernet (POE) injector or switch which is plugged into the unit. To insert the POE cable and to mount the transponder with a screw, the transponder's cover must first be removed.

Notch for flat screwdriver



POWER

The NETWORK TRANSPONDER supports the IEEE 802.3af standard. It is powered from a power-over-Ethernet adapter or switch (purchased separately). An Ethernet cable (included) connects the transponder to the POE adapter.

To insert the Ethernet cable into the NETWORK TRANSPONDER, first remove the hotspot's cover. Carefully insert a flat screwdriver in one of the notches on the base. Do not push the screwdriver in too far as this may damage the circuit board inside the transponder. Twist the screwdriver to prise off the cover.

Plug in the Ethernet cable and replace the transponder cover by pressing it into place until it clicks.

Plug the other end of the Ethernet cable into the POE switch and power up. When the transponder is powered it will flash and display its ID number.

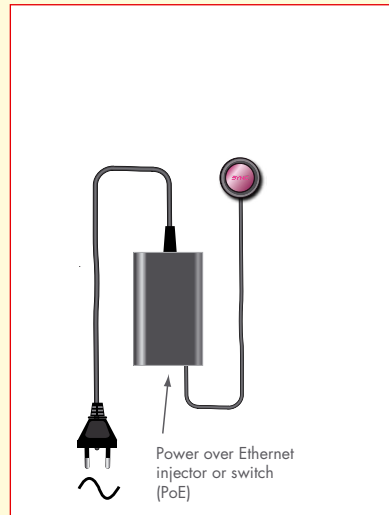
IMPORTANT: Always connect the Ethernet cable to the transponder first, before you connect the cable to the POE injector or switch. Plugging in a powered Ethernet cable will damage the transponder permanently.

USAGE

The NETWORK TRANSPONDER has several application areas. At the most basic level, it can be used as an externally powered alternative to the HOTSPOT TRANSPONDER in physically demanding environments.

For more advanced tours, the NETWORK TRANSPONDER can be used to synchronize sound to visuals produced with Dataton WATCHOUT. It offers an auto-trigger function or regular point-and-click trigger.

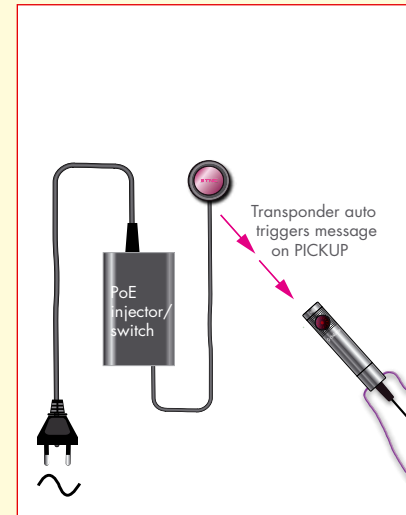
Last but not least, the NETWORK TRANSPONDER enables interactivity with external control systems or effects via an Ethernet network.



POWERED TRANSPONDER

Use the NETWORK TRANSPONDER as an alternative to the HOTSPOT TRANSPONDER.

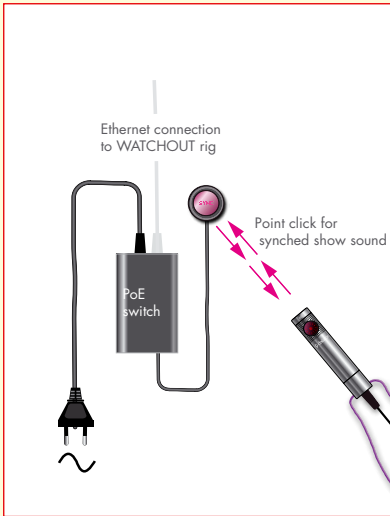
NETWORK TRANSPONDER receives its power externally through a power-over-Ethernet, POE, adaptor or switcher. The NETWORK TRANSPONDER is ideal for locations where it is difficult to access the transponder to change batteries.



TRIGGER AMBIENT AUDIO

Use the transponder as an automatic trigger for a sound message on your audio guide. The transponder emits a signal at regular intervals. This is received by the audio guide as the visitor approaches. The corresponding message starts to play automatically on the audio guide.

The auto trigger is an ideal way to transmit general information or set the mood for an area. The message can also be triggered by pointing and clicking at the transponder as usual.

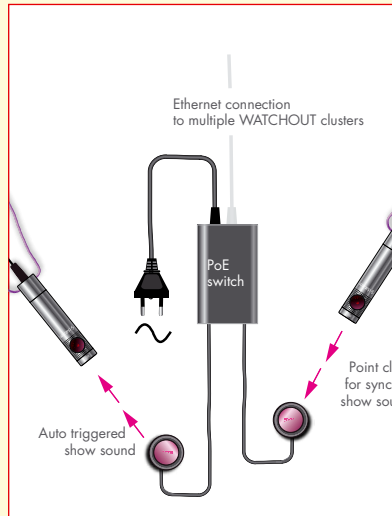


TRIGGER WATCHOUT

Use the transponder to trigger and sync WATCHOUT presentations, thus integrating visuals in your audio guide installation.

Simply point and click on the NETWORK TRANSPONDER to start a WATCHOUT show. The sound will start playing on your audio guide. If the show is already running, pointing and clicking at the transponder will sync you into the show audio at the correct point.

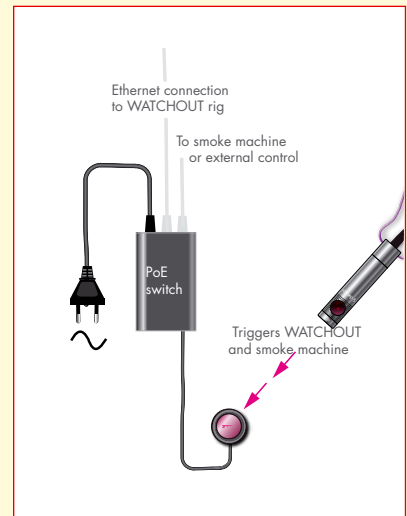
About WATCHOUT:
www.dataton.com/watchout



INTERACTION WITH WATCHOUT

The transponder can be used to automatically synchronize audio to a WATCHOUT show. This works in the same way as the ambient audio trigger: as a visitor enters an area covered by the NETWORK TRANSPONDER, the audio related to that transponder will start to play.

In the example, the visitor starts the show and sound of one WATCHOUT show by pointing and clicking at the NETWORK TRANSPONDER with the PICKUP. The sound for the second show starts playing automatically when the visitor approaches the related transponder. A single POE switcher provides power for both transponders.



TRIGGER EXTERNAL DEVICES

Use the transponder to trigger external devices, such as smoke devices or external control systems, from your PICKUP audio guide.

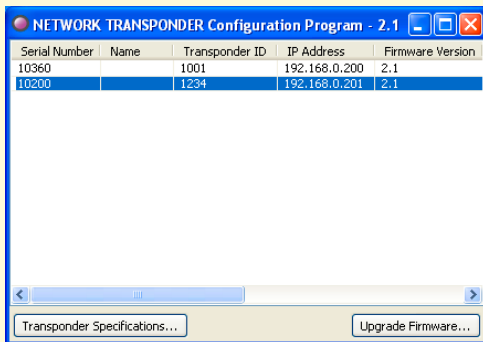
Point and click at the transponder to trigger the external device. In the example above, the NETWORK TRANSPONDER triggers both WATCHOUT visuals and a smoke machine.

PROGRAMMING

Download the configuration program under *Software* at:
www.dataton.com/pickup

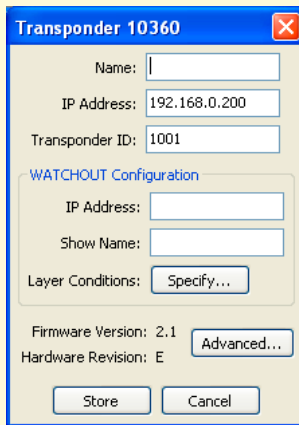
The configuration program is for Windows.

Connect and power the transponder. Open the configuration program. General info on the transponder is shown, see below.



UPGRADE FIRMWARE Check that the firmware version in the transponder corresponds to the firmware version you have downloaded. If not, select Upgrade Firmware to upgrade.

Note: If you have several transponders on the same POE switch network, you can upgrade the firmware for all of them at the same time.



POWERED TRANSPONDER

Select the transponder and then *Transponder Specifications*. The dialogue box is shown left.

Name You can choose to give a transponder a name, for administration purposes. For example, you may want to state where the transponder is located in an exhibition.

IP Address Assign a unique IP address for each NETWORK TRANSPONDER.

Note: To avoid confusion, make sure you only have one transponder connected when you assign a new IP address.

TRANSPONDER ID Assign an ID to match the content of your tour (see "File Names, Copying Audio" in the PICKUP user guide). The factory standard ID is 1000.

If you are using the NETWORK TRANSPONDER as an externally powered alternative to the HOTSPOT TRANSPONDER, click *Store* to save your changes.

TRIGGER SETTINGS

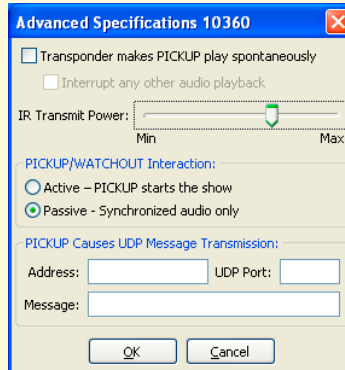
Click on the *Advanced* button in the Transponder Specifications dialogue to specify how the corresponding audio guide message will be triggered. The dialogue box is shown right.

Transponder makes PICKUP play spontaneously Select this if you want the NETWORK TRANSPONDER to automatically trigger the message when a visitor approaches with a PICKUP.

This auto trigger function is a good way to broadcast a general message as visitors enter a room or area. It is also an excellent way to provide ambient sound, for example, themed music in a certain area.

Interrupt any other audio playback If you select this option you also choose to override any audio already playing on the PICKUP. Basically, if a message is already playing on a visitor's audio guide, the auto trigger will interrupt and play the general message.

Note: Use this feature with care. Every time a visitor approaches the NETWORK TRANSPONDER the auto-triggered message will start playing, overriding any message already playing on the PICKUP. If visitors are likely to move back and forth near the transponder, this may prove irritating!



TRANSMISSION RANGE

If you have several transponders covering a relatively small area, the signals may overlap. This is indicated by a flashing red light on the transponder.

IR Transmit Power features a sliding scale that lets you set the power level. If you are experiencing disturbances between transponders, try decreasing the power level. The *Min* setting corresponds to approximately 1 m range. *Max* setting is approximately 10 m.

WATCHOUT INTERACTION

There are two ways to let the PICKUP interact with Dataton WATCHOUT. The PICKUP can trigger the entire WATCHOUT show. Alternatively, the PICKUP will sync into the sound of a show that is already running. In the latter case, the WATCHOUT show could be set to play in a loop or start at a certain time.

Choose *Active* if you want the visitor to be able to trigger the WATCHOUT show with the audio guide.

Choose *Passive* if you want the visitor to receive synchronized sound from a show in progress.

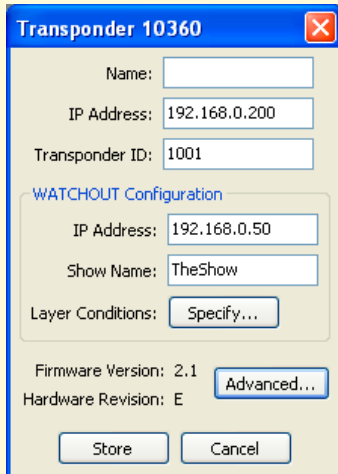
PICKUP Causes UDP Message Transmission Use these settings when you want the NETWORK TRANSPONDER to send a network message to an overall control system.

Note: If you are using NETWORK TRANSPONDER to sync to sound in a WATCHOUT show, make sure that the timing of the video file on the WATCHOUT timeline matches the MP3 file on your PICKUP.

If the WATCHOUT video and sound start at zero on the timeline, the sound file on the PICKUP should also start at zero. If the video starts at three seconds on the timeline, you should add three seconds of silence at the beginning of your MP3 file.

WATCHOUT APPLICATIONS

If your application involves triggering and synchronizing sound in a WATCHOUT show fill in the WATCHOUT CONFIGURATION info, in the *Transponder Specifications* dialogue, shown below.



The screenshot shows the 'Transponder 10360' configuration dialog box. It has a blue title bar with a close button. The main area is light gray and contains several input fields and buttons. At the top, there is a 'Name:' field. Below it are 'IP Address:' (192.168.0.200) and 'Transponder ID:' (1001) fields. A section titled 'WATCHOUT Configuration' contains 'IP Address:' (192.168.0.50), 'Show Name:' (TheShow), and 'Layer Conditions:' (Specify...) fields. At the bottom, there are 'Firmware Version:' (2.1) and 'Hardware Revision:' (E) fields, an 'Advanced...' button, and 'Store' and 'Cancel' buttons.

Note: To avoid conflicts, do not run the Dataton WATCHOUT production software on the same network as the NETWORK TRANSPONDER.

WATCHOUT CONFIGURATION

IP Address Enter the IP address of the primary computer in a WATCHOUT cluster.

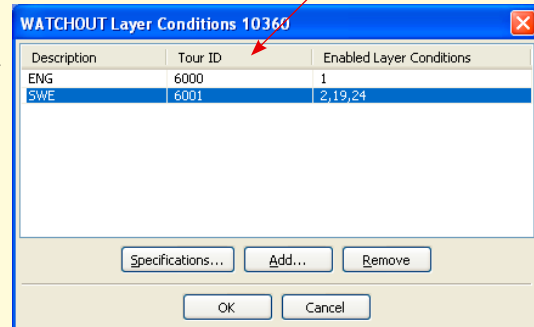
Show Name Enter the name of the relevant show.

Note: You can only start one show from a NETWORK TRANSPONDER.

Layer Conditions If you have different tour versions on the PICKUP audio guide (ie, you have selection transponders at the start of the tour), you can specify the relevant conditional layer in the WATCHOUT show.

For example, if the tour is in two languages, you may have a WATCHOUT show layer for Swedish subtitles, and another for English subtitles.

Tour ID refers to the relevant hotspot folder, as described in "Tour Versions, Copying Audio" in the PICKUP user guide.



The screenshot shows the 'WATCHOUT Layer Conditions 10360' dialog box. It has a blue title bar with a close button. The main area is light gray and contains a table with three columns: 'Description', 'Tour ID', and 'Enabled Layer Conditions'. Below the table are 'Specifications...', 'Add...', and 'Remove' buttons. At the bottom are 'OK' and 'Cancel' buttons. A red arrow points from the text above to the 'Tour ID' column in the table.

Description	Tour ID	Enabled Layer Conditions
ENG	6000	1
SWE	6001	2,19,24

Version 2.0 Specifications subject to change without prior notice.