SopaAir version 1.0
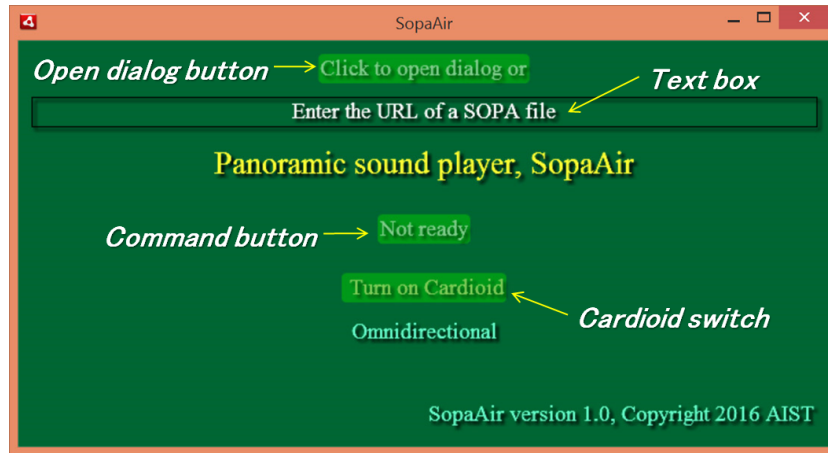# SopaAirWS version 1.0
User's manual

AIST

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Fig. 1: SopaAir startup screen

1 Introduction

SopaAir is a cross-platform panoramic sound player built using Adobe Air and Away3d. By using SopaAir, you can reproduce a SOPA (Stream Of Panoramic Audio) file on your desktop (Windows or Mac). SopaAirWS is the wide screen version of SopaAir.

SOPA files can be either in the local directory or Web server directory.

2 Install

To install SopaAir or SopaAirWS, Adobe Air is required on your PC. You can get Adobe Air from
https://get.adobe.com/air/ .

Run SopaAir.air or SopaAirWS.air and follow the instruction to install SopaAir or SopaAirWS to your PC. When SopaAir (or SopaAirWS) is installed successfully, there is an application 'SopaAir (or SopaAirWS)' in your PC so that you can launch SopaAir (or SopaAirWS) 1.0.
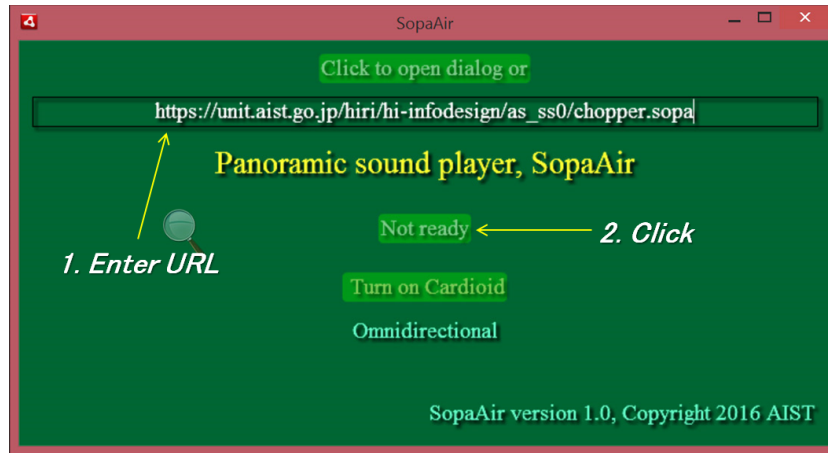
Fig. 2: Online reproduction of a SOPA file
Enter the URL of a SOPA file in the Text box and click the
Command button to open the URL connection.

3 Usage

3.1 Screen

The startup screen of SopaAir 1.0 looks like Fig. 1. The screen
size of SopaAir is 720 by 360 while that of SopaAirWS is 960 by
480. SopaAirWS requires higher computational performance.

On the screen, there are the Open dialog button, Text box,
Command button, and Cardioid switch.

3.2 Play sound from the local directory

When you click the Open dialog button, a dialog to open a SOPA
file will appear and you can select a SOPA file on your local PC.

Once the SOPA file is opened successfully, the title of the Com-
mand button switches to 'Play' from 'Not ready.' You can start
reproduction by clicking the Command button.

3.3 Play sound from the URL

If you want to play a SOPA file not from the local directory but
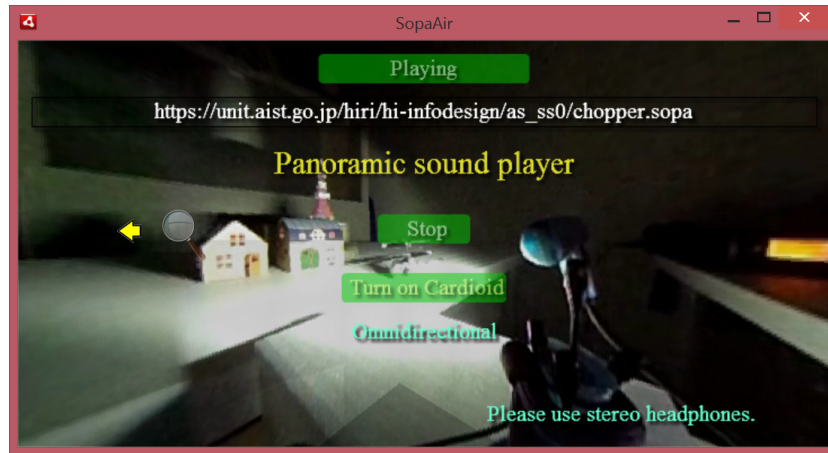from the Web server, enter the URL of the SOPA file in the Text

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Fig. 3: Reproduction
An example of the screen during reproduction is shown. The user can control panning by moving the mouse pointer.

box (Fig. 2) and click the Command button.

If the SOPA file is found at the URL, the title of the Command button switches to 'Play' from 'Not Ready.' You can start reproduction by clicking the Command button.

3.4 Panning and directionality

Figure 3 shows an example of the screen during the reproduction. You can control panning (yaw and pitch) of sounds by moving the mouse pointer. Yaw can be controlled by moving the mouse pointer to the left or right. Pitch can be controlled by the vertical movement of the mouse pointer.

You can switch directionality from 'Omnidirectional' to 'Cardioid' or vise varsa by toggling the cardioid switch. When 'Cardioid' is selected, sounds from the rear are suppressed.

You can stop reproduction by clicking the Command button.

4 Related URLs

The free installer of SopaAir (or SopaAirWS) is available at the following URL.

https://staff.aist.go.jp/ashihara-k/SopaAir.html

For farther information about the SOPA technology, see the following URLs.

https://staff.aist.go.jp/ashihara-k/pan_top.html
https://staff.aist.go.jp/ashihara-k/Sopa.html
https://staff.aist.go.jp/ashihara-k/vcm.html
https://staff.aist.go.jp/ashihara-k/note.html