VNNOX
One-Stop Cloud Platform

V7.44.0 NS170100683

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VNNOX Standard User Manual

Contents

Contents i

1 About This Document 1

2 Software Installation 3

2.1 Installing VPlayer 3

2.2 Installing ViPlex 3

2.2.1 Installing ViPlex Handy (Android and iOS) 3

2.2.2 Installing ViPlex Express (Windows) 4

3 System Login 5

4 Solution Publishing 7

4.1 Checking Player Authentication Information 7

4.2 Creating Players 7

4.2.1 Creating Players with VPlayer 8

4.2.2 Creating Players with ViPlex 8

4.3 Adding Media 10

4.4 Creating Solutions 11

4.5 Publishing Solutions 14

5 Other Functions 15

5.1 Player Transfer 15

5.2 Terminal Player Upgrade 15

5.3 Player Grouping 15

5.4 Remote Real-Time Control 16

5.5 Remote Scheduled Control 16

5.6 Time Synchronization 17

5.7 Playback Management 18

5.8 Remote Control Logs 18

5.9 Play Logs 19

5.10 System Switching 19

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1 About This Document

The cloud publishing service of VNNOX one-stop cloud platform includes VNNOX Standard and VNNOX AD, allowing for remote content management and terminal control. In the self-built system, VNNOX Standard is not supported.

This document introduces the functions of VNNOX Standard to help users to understand and use the product. Below is an introduction of related concepts.

Remote Publishing

Remote publishing enables users to publish solutions associated with players to remote terminal players via Internet. The solutions will be downloaded and played by terminal players as scheduled.

Remote Control

Remote control enables users to perform real-time or scheduled operations such as restarting players. Scheduled control can be implemented by sending remote control plans.

Players

Players include synchronous players and asynchronous players, which can be associated with solutions and remote control plans.

Terminal Players

Solutions can be downloaded and played by terminal players as scheduled.

VPlayer is an application which serves as a terminal player and can be used for devices installed with Windows.

Taurus series multimedia players are hardware products based on Android and can be used as the terminal players of the asynchronous system.

Player Binding

Player binding is also called terminal binding.

Binding terminal players to players enables users to publish solutions and control displays remotely. Only one player can be bound to a terminal player.

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- Synchronous players: Bound to VPlayer
- Asynchronous players: Bound to Taurus with ViPlex

ViPlex includes ViPlex Handy (Android and iOS) and ViPlex Express (Windows).

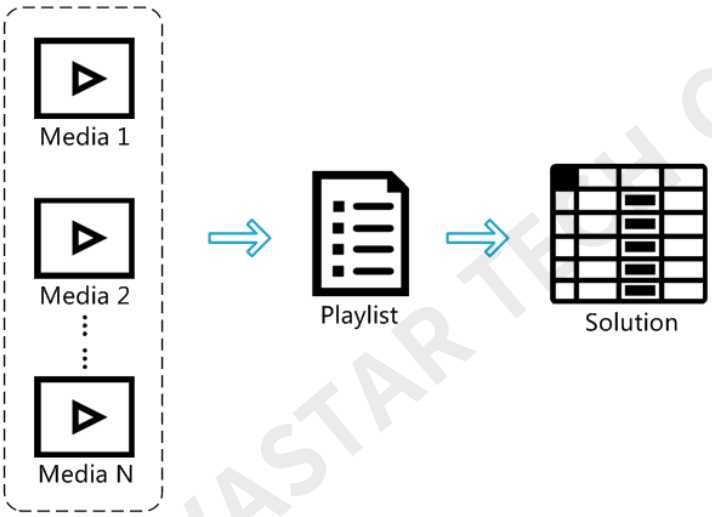
Solutions

In VNNOX Standard, after users add media and edit the solution page, a solution is created. In the self-built system, VNNOX Standard is not supported.

In VNNOX AD, after users add media, add media and sub-playlists to a playlist and schedule the playlist, a solution is created.

The relationship between the media, playlist and solution is shown in Figure 1-1.

Figure 1-1 Media management



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2 Software Installation

2.1 Installing VPlayer

Before You Begin

- Visit www.en.vnnox.com/#downloadSyn to download the VPlayer installation program.
- Make sure the antivirus software is stopped.
- Make sure the .NET Framework V4.0 or above is installed.

Installing Software

The installation of VPlayer is the same as other Windows applications.

2.2 Installing ViPlex

ViPlex includes ViPlex Handy and ViPlex Express.

2.2.1 Installing ViPlex Handy (Android and iOS)

Downloading Installation Package

Scan the QR code below to download the installation packages for Android and iOS.

Installing Software

The installation of the ViPlex Handy is the same as other applications.

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2.2.2 Installing ViPlex Express (Windows)

Downloading Installation Package

www.en.vnnox.com/#downloadT

Installing Software

The installation of the ViPlex Express is the same as other Windows applications.

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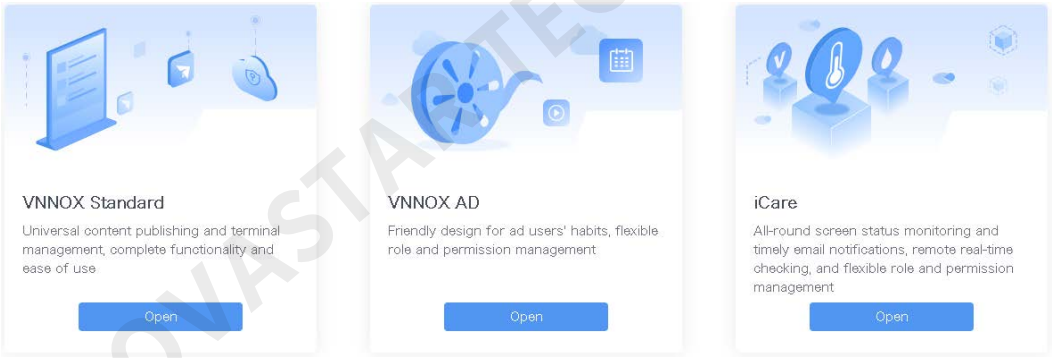
3 System Login

Step 1 Visit www.en.vnnox.com and click **Login** at the top right of the page.

Step 2 Select the server node and click **OK**.

Step 3 Enter the account name and password, then click **Log In**. The service login page is displayed.

Figure 3-1 Service login page



Step 4 Click any position of the image of VNNOX Standard to enter its homepage.

When you enter VNNOX Standard for the first time, the default system setting prompt is displayed. After you set VNNOX Standard as the default system, the homepage of VNNOX Standard will be displayed directly when you click **Log In**.

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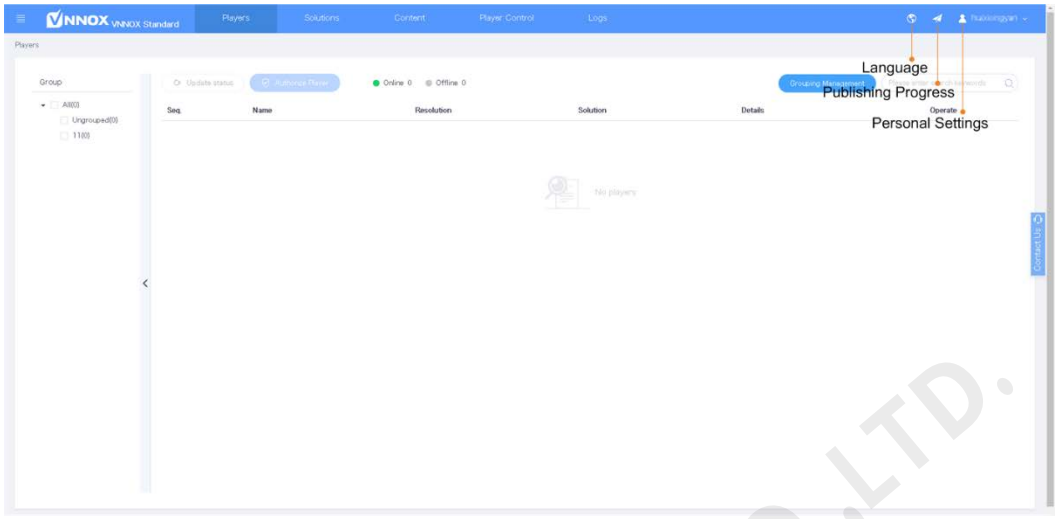
Figure 3-2 VNNOX Standard



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4 Solution Publishing

4.1 Checking Player Authentication Information

Related Information

After successful registration, VNNOX generates the default authentication information automatically.

To prevent terminal players from illegally accessing VNNOX, you are advised to change the default authentication information.

Operating Steps

Step 1 Choose > **Player Authentication** to jump to the **Player Authentication** page of cloud platform.

Step 2 Record **VNNOX Standard/AD Authentication Information.**

Step 3 (Optional) Click **Copy** on the right of **VNNOX Standard/AD Authentication Information** to copy the authentication information to the required place.

4.2 Creating Players

By using ViPlex Express (V1.8.0 or later) and VPlayer (V3.2.0 or later), terminals can be directly bound to VNNOX Standard/AD without the need to create players in VNNOX Standard/AD.

Players in VNNOX Standard are created automatically when bound to terminal players or are transferred from VNNOX AD.

After players are created successfully, information related to the players will be displayed on the **Players** page. Users can perform the following operations.

- Update player status
- Transfer players to VNNOX AD
- Rename players
- Upgrade terminal players
- Delete players
- Group players

See detailed introduction of transferring players, upgrading terminal players and grouping players in 5.1 Player Transfer, 5.2 Terminal Player Upgrade and 5.3 Player Grouping.

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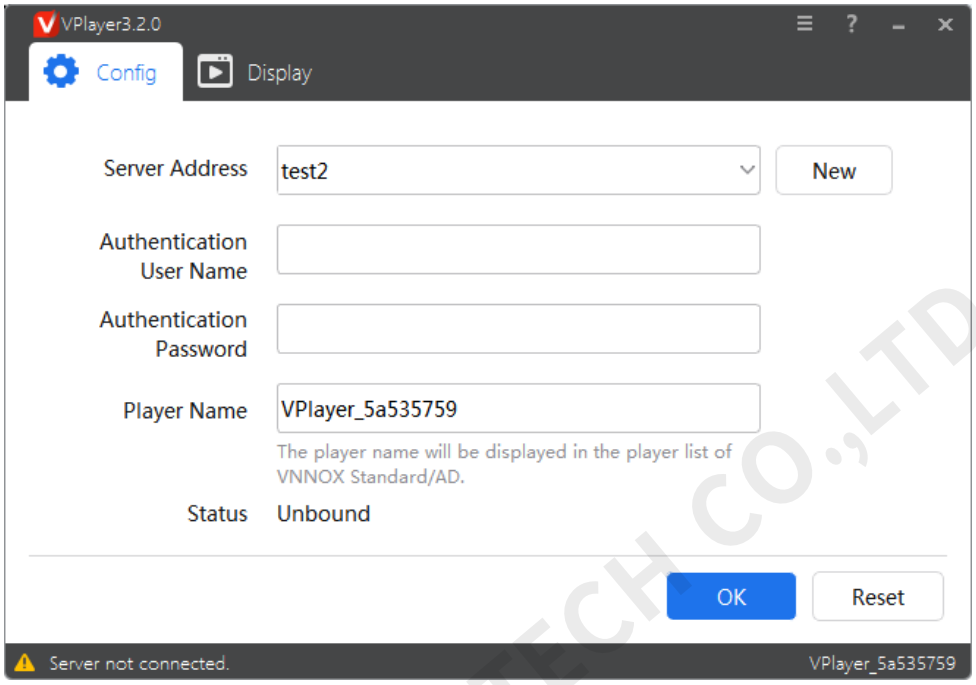
4.2.1 Creating Players with VPlayer

Step 1 Open VPlayer, as shown in Figure 4-1.

Figure 4-1 The **Config** tab



Step 2 Select a server address. Player name defaults to terminal name and can be edited by users.

Step 3 Enter the authentication user name and password which must be consistent with those in VNNOX.

Step 4 Click **Get** and then click **OK** to close the prompt box. **Bind and create player** will be displayed in the drop-down options.

Step 5 Click **OK**.

After the player is bound successfully,

is displayed at the bottom left of the page.

4.2.2 Creating Players with ViPlex

4.2.2.1 ViPlex Handy (Android and iOS)

Before You Begin

- Get the SSID and password of WiFi AP of the Taurus. The default SSID is "**AP*+the last 8 digits***". The default password is "**12345678**".
- Get the password of the user "**admin**". The default password of the user "**admin**" is "**123456**".
- Connect the Taurus to Internet.

Operating Steps

Step 1 Connect to the WiFi AP of the Taurus products.

Step 2 Start ViPlex Handy.

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ViPlex Handy automatically detects the Taurus and refreshes the screen list. Users can also swipe down to manually refresh the screen list.

- : Denotes that the Taurus is online and you can log in to it. Go to Step 3.
- : Denotes that Taurus is offline and you cannot log into it.

Step 3 Tap **Connect** next to the screen name.

Step 4 Enter the password for the "admin" user and then tap **Login**.

After successful login, is displayed. ViPlex Handy saves the account information automatically.

Step 5 Tap a screen name to enter the **Screen management** page.

Step 6 Select **Remote Management** > **Player Binding**.

Step 7 Select a server. Enter the authentication user name and password of the player. The authentication information must be consistent with the authentication information in VNNOX.

Step 8 Tap **Obtain** and select **Bind and create player** from the drop-down box.

Step 9 Tap **OK**.

4.2.2.2 ViPlex Express (Windows)

Before You Begin

- Get the SSID and password of WiFi AP of the Taurus. The default SSID is "**AP+*the last 8 digits***". The default password is "**12345678**".
- Get the password of the user "**admin**". The default password of the user "**admin**" is "**123456**".
- Connect the Taurus to Internet.

Operating Steps

Step 1 Connect to the WiFi AP of the Taurus products.

Step 2 Start ViPlex Express.

Step 3 Click **Refresh** to refresh the screen list.

After detecting the Taurus, ViPlex Express will try to log in to the Taurus with the default account or the account used for last login.

- : Denotes that the Taurus is online and you can log in to it. Go to Step 4.
- : Denotes the Taurus is offline and you cannot log into it.
- : Denotes logging into the Taurus is successful.

Step 4 Click **Connect** on the right of the screen information.

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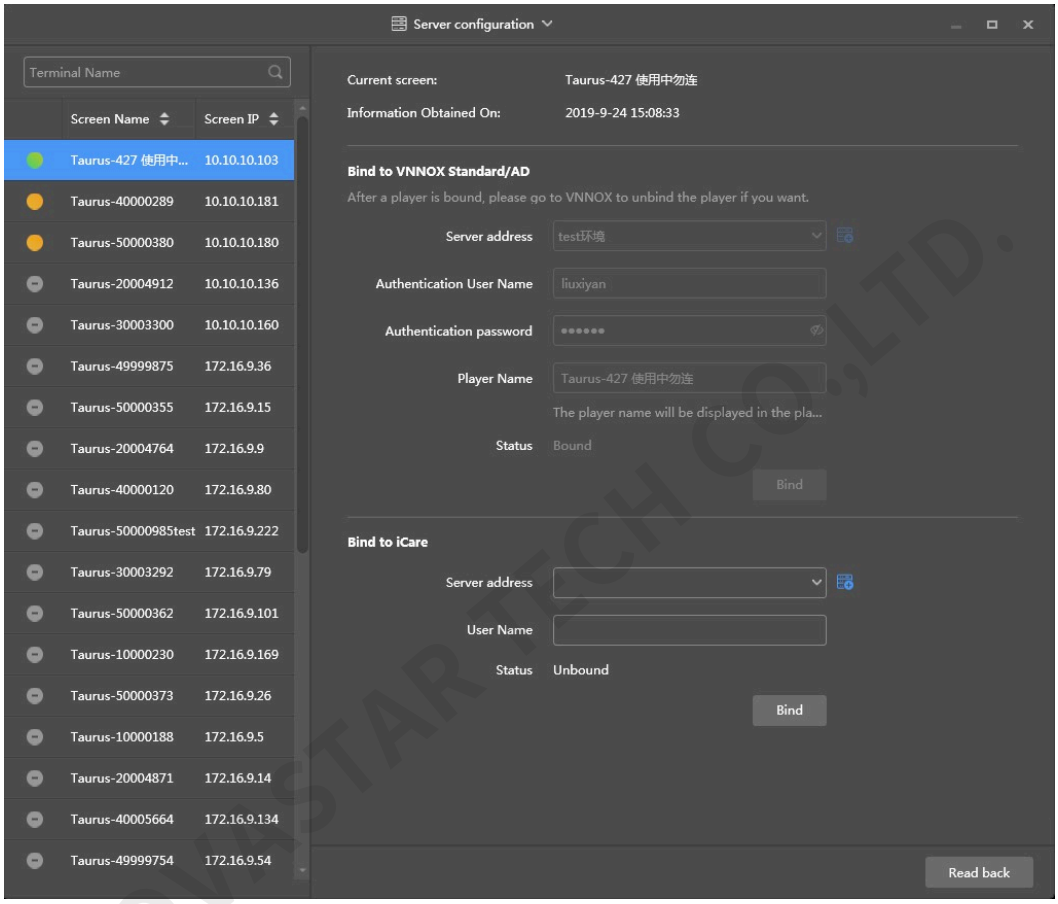
Step 5 Enter the password for the "admin" user and then click **OK**.

After successful login, ViPlex Express saves the account information automatically.

Step 6 Select **Screen Control**.

Step 7 Click **Server configuration**.

Step 8 Select the target terminal in the terminal list.



Step 9 Select a server. Player name defaults to terminal name and can be edited by users. Hold down the **Shift** button and select multiple terminals to bind terminals in batches.

Step 10 Enter the authentication user name and password of the player. The authentication information must be consistent with the authentication information in VNNOX.

Step 11 Click **Bind**.

4.3 Adding Media

Related Information

Media types supported by VNNOX Standard are shown in Table 4-1. The total media storage space is 5 GB.

Table 4-1 Media types

Media Type	VPlayer	Taurus
Video	Video container formats: MP4, AVI, RMVB, FLV, MKV,	Video container formats: MP4, AVI, FLV, WMV, MOV

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Media Type	VPlayer	Taurus
	WMV, MOV	
Audio	Currently not supported.	MP3 Note: Audio files can be used as the background audio of text and images only
Image	JPG, PNG, ICO, BMP, GIF, JPEG	
Document	Word, Excel, PPT, PDF	
Webpage	N/A	
RSS	N/A	
Streaming Media	• HLS, RTMP: Can be previewed online and played. • RTSP: Can be played but cannot be previewed online.	
Widget	Text, digital clock, analog clock, environment monitoring, weather, calendar, window, colorful text	

When a video cannot meet the decoding specifications of some asynchronous players, a corresponding prompt is displayed in the media list. Users can view the details to handle the problem.

Operating Steps

Step 1 Choose **Content**.

Step 2 Click **Add media**.

Step 3 Select and open the media.

4.4 Creating Solutions

Step 1 Choose **Solutions**.

Step 2 Click **New**.

Step 3 Set the name and resolution of the solution and click **OK**. Solution editing page will displayed, as shown in Figure 4-2. The introduction of the editing page is detailed in Table 4-2.

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Figure 4-2 Solution editing page

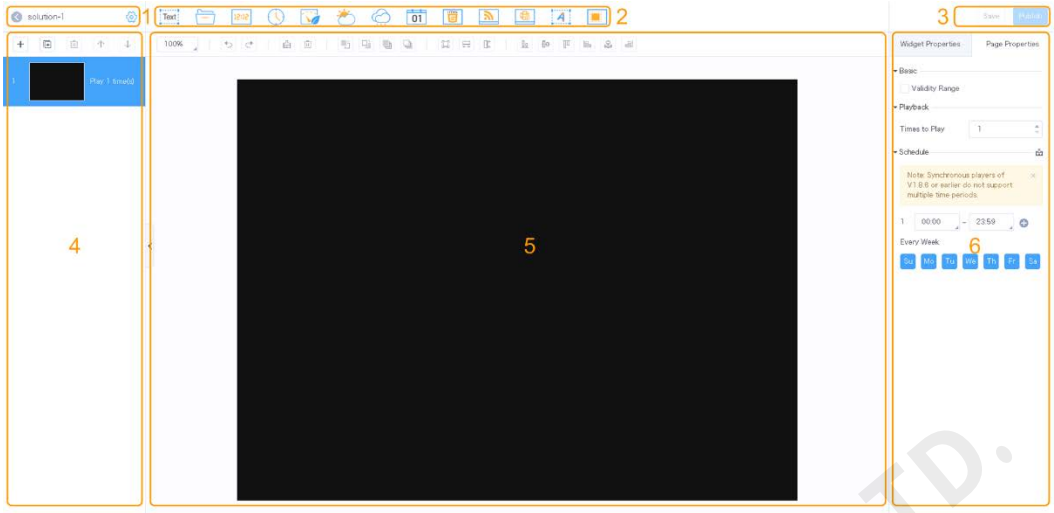

Table 4-2 Introduction of the solution editing page

No.	Function	Description
1	Basic information settings	View or change the solution name and set the resolution.
2	Adding media	Add media. ● : Text ● : File ● : Digital clock ● : Analog clock ● : Environment monitoring ● : Weather style 1 ● : Weather style 2 ● : Calendar ● : Web page ● : RSS ● : Streaming media ● : Colorful text ● : Window
3	Saving and publishing solutions	Save and publish solutions.
4	Editing solution pages	Add, copy and delete pages as well as adjust the order of pages. Pages are played according to the page order from top to bottom.

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No.	Function	Description
		● : Add ● : Copy ● : Delete ● : Move up ● : Move down
5	Editing page media	Zoom in or out pages, delete media, and adjust media layer and layout. Batch operations are supported. A text widget can be added by double clicking the blank. Users are allowed to copy media (including properties) from other pages and paste the media on the current page. ● : Customize zoom percentage ● : Undo your last action. You can undo at most 5 steps. ● : Redo your last action. You can redo at most 5 steps. ● : Clear ● : Delete ● : Bring forward ● : Send backward ● : Bring to front ● : Send to back ● : Auto fit ● : Fill horizontally ● : Fill vertically ● : Align bottom ● : Center vertically ● : Align top ● : Align left ● : Center horizontally ● : Align right
6	Editing properties	Edit the properties of widgets and pages. Widgets refer to the media on pages. Select a widget before you edit it.

Step 4 After the solution is edited, click **Save**.

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4.5 Publishing Solutions

After a solution is edited, click **Publish** to publish it. In other situations, you can perform the following operations to publish a solution.

If a solution contains videos that cannot meet the decoding specifications, there will be playback risks. For example, the videos will be automatically skipped or the playback effect will be unsatisfactory.

Step 1 Choose **Solutions**.

Step 2 Click of a corresponding solution.

Step 3 Select one or multiple players and click **OK**.

Step 4 Perform any of the following operations to view the publishing progress and result.

- Choose **Players** and view the **Solution** column.
- At the top right of the page, click .

  The number on denotes the number of players which are publishing solutions, for example, .

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5 Other Functions

5.1 Player Transfer

Players in VNNOX Standard can be transferred to VNNOX AD.

Step 1 Choose **Players**.

Step 2 Select one or more players and click **Transfer to VNNOX AD** to transfer the players to VNNOX AD.

5.2 Terminal Player Upgrade

Users can upgrade the software versions of terminal players.

Step 1 Choose **Players**.

Step 2 Click .

is displayed when the software is the latest or is being upgraded.

Step 3 Click **OK**.

Step 4 In the **Details** column, view the upgrade progress.

Step 5 View the software version after the upgrade is done.

- Synchronous player: The version of VPlayer is displayed.
- Asynchronous player: The software version of Taurus is displayed.
  - **Software**: Displays the versions of the Android application and FPGA program.
  - **System**: Displays the version of the Android OS.

5.3 Player Grouping

Users can implement grouping management for players.

Step 1 Choose **Players**.

Step 2 Click **Grouping Management**.

Step 3 Move your mouse to a group name, click and select **New Group**.

Step 4 Enter a new group name.

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Step 5 Find and select the players to be added to the new group.

Step 6 Click **Move to Group**, select the new group from the drop-down box and click **OK**.

5.4 Remote Real-Time Control

Users can remotely control screen brightness, volume, video source, screen status, power and synchronous playback in real time and can restart and monitor terminal players.

Step 1 Choose **Player Control**.

Step 2 Click an icon to enter the corresponding page.

Table 5-1 Description of real-time control

Function	Description
Brightness Control	Adjust screen brightness.
Volume Control	Adjust screen volume.
Video Source Switching	Switch between internal video source and HDMI video source.
Player Restart	Restart terminal players which takes about 20 seconds. The player is offline while being restarted.
Screen Status Control	Switch between normal display and black screen.
Monitor	View terminal player disk usage and data usage and clean up media.
Power Control	Turn on or off screen power. Allows for real-time control of screen power through board power and multifunction card power configuration.
Synchronous Playback	Turn on or off synchronous playback.

Step 3 On the left of the page, select the target online players.

Step 4 (Optional) On the right of the page, view real-time brightness, volume, video source, screen status or power status.

If multiple players are selected, only the real time status of the first player will be displayed.

Step 5 Perform the following operations based on the actual situation.

- To restart players, click **Restart Now**.
- For the monitoring function, click **Media Cleanup**. If users choose to clean up the media that is being played at the same time, the screen may go black.
- For other functions, set the parameters and click **Apply**.

5.5 Remote Scheduled Control

Users can add scheduled control plans to adjust brightness and volume, switch video sources, restart players, control screen status and control power supplies as scheduled.

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When a player is transferred to VNNOX AD, the scheduled control data of the player will be also transferred automatically.

Step 1 Choose **Player Control**.

Step 2 Click a function icon to enter the corresponding page.

Table 5-2 Scheduled control function description

Function	Description
Brightness Control	Adjusts screen brightness.
Volume Control	Adjusts screen volume.
Video Source Switching	Switches between the internal video source and HDMI video source.
Player Restart	Restarts the terminal player and requires about 20 seconds. During the restart, the player is offline.
Screen Status Control	Set the screen to normal display or blackout.
Power Control	Turns on or off screen power. Supports screen power configured by board power and multifunction card power.

Step 3 On the left of the page, select an online target player.

Step 4 Perform the following operations in **Scheduled Control** according to the actual conditions.

- Create a plan: Click to set command parameters and then click **OK**.
- Change a plan: Select a plan, click , change command parameters, and then click **OK**.
- Delete a plan: select one or multiple plans and click .
- Enable a plan: Set the toggle button to .

Step 5 Click **Apply**.

5.6 Time Synchronization

Users can sync the time of terminal players via the time synchronization function.

Step 1 Choose **Player Control**.

Step 2 Click **Time Synchronization**.

Step 3 On the left of the page, select the online players that require time synchronization.

Step 4 Select a time synchronization method as required and configure the relevant parameters.

Table 5-3 Description of time synchronization methods

Method	Applicable To	Time Reference	Description
Manual	Taurus	Time of the selected	After you select a time zone, the new time will be displayed.

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Method	Applicable To	Time Reference	Description
		time zone	
NTP	VPlayer Taurus	Time of NTP server	Click to add a custom server.
RF (Radio Frequency)	Taurus	Time of the reference device	You need to buy and install RF devices before time synchronization. ● **Group ID**: Set a same group ID for multiple Taurus units and these units belong to the same group. ● **Set as reference device**: Sync the time of other devices in a group with the time of the reference device. ● **NTP**: When NTP is turned on, the time of the reference device will be synchronized with the time of NTP server. When NTP is turned off, the time of the reference device will be synchronized with the time of the selected time zone.

Step 5 Click **Apply**.

5.7 Playback Management

Users can capture screenshots when terminal players are playing images to check whether the playback is normal.

Step 1 Choose **Player Control**.

Step 2 Click **Playback Management**.

Step 3 Select a player on the left.

Step 4 Click **Recapture**.

After a screenshot is captured, the screenshot, date and time when it is captured and solution source will be displayed.

5.8 Remote Control Logs

Users can view the logs of terminal players executing remote real-time and scheduled control commands including the commands sent by VNNOX and the brightness control, volume control and power control commands sent by ViPlex.

Step 1 Choose **Logs** > **Remote Control Logs**.

Step 2 Click **Please select** to select one or more players.

Step 3 Select a control command type.

Step 4 (Optional) Click **Advanced Search** to set more search criteria.

Step 5 Click **Search**.

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5.9 Play Logs

Users can view play logs, including overview and details.

Step 1 Choose **Logs** > **Play Logs**.

Step 2 Click **Player** and select one or more players.

To view the overviews of play logs, up to 50 players can be selected. To view the details of play logs, up to 25 players can be selected.

Step 3 Set search criteria and click **Search**.

- Log type: Choose to search for the overviews or details of play logs.
- Date range: You can search for the logs of the last three months. The start date and end date cannot be set to the current day and the range cannot be longer than 30 days.
- Keyword: Click **Advanced Search** to display this parameter. You can search for a play log by entering a media name.

5.10 System Switching

Users can switch between the VNNOX homepage, VNNOX Standard, VNNOX AD and iCare.

Step 1 Move your mouse to at the top left.

Step 2 Select an option from the drop-down box to switch to the corresponding service.

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