



Orion-O User Manual



Orion-O Version 1.5.8.5
Document Version: 1.5.8.1
November 2014

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1. Overview

Optimized to be used with SURF's Orion-VX1000/VX2000 infrastructure video conferencing solution, Orion-O provides mobile connectivity solutions to the onsite video conferencing solution provided by the Orion-VX1000/VX2000.

Orion-O provides the following benefits:

- ◆ Simple to use connectivity for voice or video communication solution from any network for a true collaborative experience
- ◆ Open standard based (SIP, H.264) protocols allow connectivity to most enterprise gateways and systems through the Orion-VX1000/VX2000 video conferencing solution
- ◆ Simple and easy to use application
- ◆ Optimized for Apple iPhone, iPad, Android and Windows

This manual provides detailed guidance on the use of the Orion-O, SURF's video conferencing soft-client, on Windows machines. It includes a description of the product, its functionality, features, settings, and operation.

Feedback:

The SURF Technical Support Center is at your service. You may access Warranty Service through our Web Request Form by using the following link: www.orionmcu.com/support

We are committed to constant and perpetual improvement. Your input will greatly help us in our endeavor.

2. System requirements

- ◆ Windows XP
- ◆ Windows 7
- ◆ Windows 8

3. Installation

- Orion-O client application can be downloaded from our Web site (<http://www.orionmcu.com/partner-area/> (located in the Orion-O tab))
- In order to use Orion-O, the license (activation key) needs to be registered.

Notes:

Key registration is performed only once.

Each key is unique, designed for use with a specific operating system, and can be used only once on a single PC.

- For successful key registration, make sure to have Internet connectivity while running Orion-O for the first time.



Figure 1: License screen

4. Login Screen

Run the Orion-O video conferencing soft-client from your Windows. Login screen is opened Figure

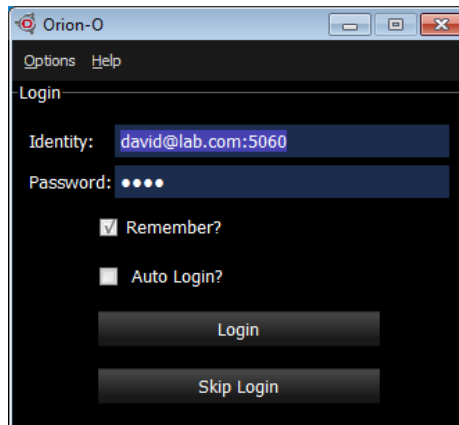


Figure 2: Login

→ To Login:

- ◆ Enter your user name and password in the “**Identity**” and “**Password**” fields, respectively. **Identity** needs to be input in one of the following formats:
 - <username>@<domain>:<port>
 - <username>@<IP address>:<port>username can be a number or a string
default port is 5060
- ◆ When the “Remember?” checkbox is checked, the application remembers your password for the future entries.
- ◆ When the “**Auto Login?**” box is checked, the application will not display the login screen and the user is logged-in automatically. If the “**Auto Login**” box is checked, the “**Remember**” box should be checked as well.
- ◆ Click on the “**Login**” button to enter the dialing screen.
If the Identity or Password values have incorrect syntax, the following message will appear:

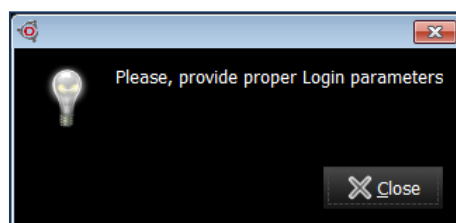


Figure 3: Incorrect login syntax

In order to change the Login parameters, the SIP user screen can be used as well (see section 7.2).

→ **To skip the registration: Press Skip Login**

In this case the Orion-O does not register to a registrar. The **Current Status** button at the top-left of the screen will appear grayed out.

See Table 6-3 for the dialing options of an unregistered SIP user.

5. Joining a Conference

Following the login operation, the Orion-O dialing screen appears. Note that the **Current Status** is green denoting a successful login. If Current Status is red, logout, check the **Identity** and **Password** and login again. Figure 4 shows the dialing screen:

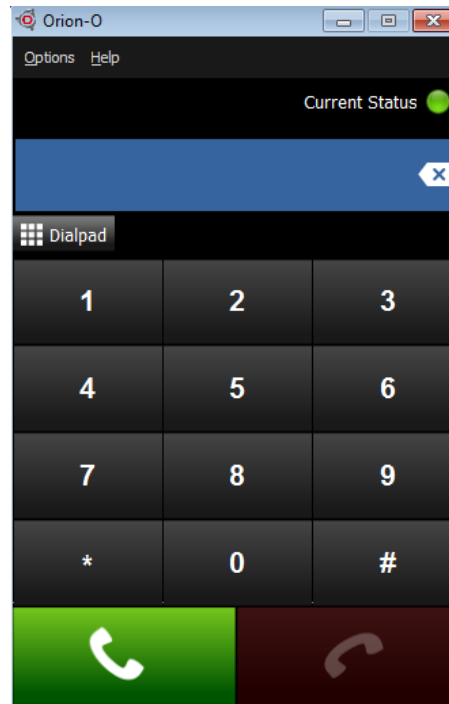


Figure 4: Dialing Screen

→ To join a conference:

- ◆ Edit or enter the pre-registered conference name or number. For dialing options see section 6.
- ◆ Press the green dialing button.

→ To share a content with the other participants:

- ◆ Check that your webcam is on.
- ◆ Check that the device recognizes your camera by checking the **Video input device** drop-down list (by selecting Options-> Preferences-> Multimedia).
- ◆ Press the **Start Screen Sharing** button, as shown in the figure below:
 - Note: Screen sharing is available in the Windows version only and is not supported in the Android and iOS Orion-O versions.

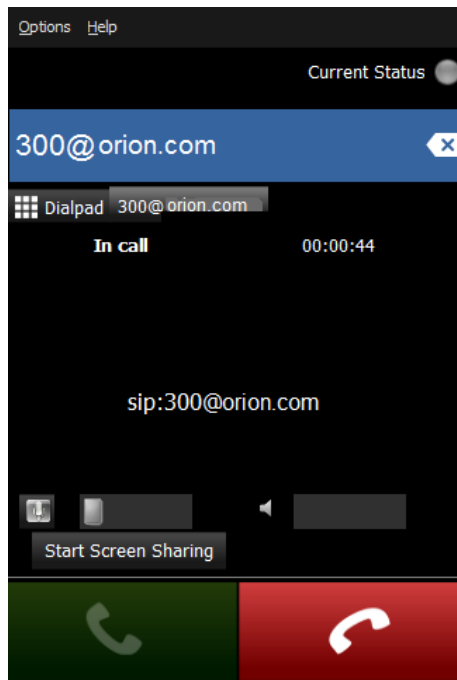


Figure 5: Screen Sharing

→ **To stop the screen sharing:**

- ◆ Press **Stop Screen Sharing** button.

→ **To terminate the call:**

- ◆ Press the red dialing button

6. Dialing Options

In order to join a conference, the user can use the access number or the conference number. The following tables show various dialing options per each choice, using the example below:

- ◆ Access Number – 500
- ◆ Conference Number – 100
- ◆ Participant PIN Code – 1
- ◆ Orion-VX1000/VX2000 Domain – Orion.com (Domain name or IP address)

Participant is registered on PBX:

Dialing Option	PIN Code	Operations and Prompts
Access Number	√	Dial 500 – Prompt: <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Prompt: <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference
Conference Number	√	Dial 100 – Prompt <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference
Access Number		Dial 500 – Prompt <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Connected to conference
Conference Number		Dial 100 – Connected to conference

Table 6-1: Dialing Information - Registered on PBX

Participant is registered on Orion-VX1000/VX2000 SIP Build-in Registrar:

Dialing Option	PIN Code	Operations and Prompts
Access Number	√	Dial 500 – Prompt <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Prompt <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference Alternative option (Connecting without prompts): Dial 500*100*1 – Connected to conference
Conference Number	√	Dial 100 – Prompt <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference
Access Number		Dial 500 – Prompt <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Connected to conference
Conference Number		Dial 100 – Connected to conference

Table 6-2: Dialing Information - Registered on Orion-VX1000/VX2000

Participant is not registered:

Dialing Option	PIN Code	Operations and Prompts
Access Number	√	Dial 500@Orion.com – Prompt <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Prompt <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference Alternative option (Connecting without prompts): Dial 500*100*1@Orion.com – Connected to conference
Conference Number	√	Dial 100@Orion.com – Prompt <i>“Please enter the conference PIN number followed by the # key”</i> Dial 1 – Connected to conference
Access Number		Dial 500@Orion.com – Prompt <i>“Please enter your conference number followed by the # key”</i> Dial 100 – Connected to conference
Conference Number		Dial 100@Orion.com – Connected to conference

Table 6-3: Dialing Information - Not Registered

7. Application Settings

→ To set the application's parameters: Press on Options. The Orion-O setting options appear, as shown below:

- ◆ **Preferences.** Sets the network, multimedia and bandwidth control parameters (see section 7.1).
- ◆ **SIP User.** Sets the user's identity and password, and the login characteristics (see section 2).
- ◆ **Logout.** Logs out from the system, enabling the user to login again. To login, enter the **SIP User** (see section 7.2).
- ◆ **Always start video.** When this check box is not checked, the conference starts without video and as a voice conference only.
- ◆ **Enable self-view.** When the enable self-view box is checked, an additional window opens, showing the image of the user. During active calls self-view will appear in the bottom righthand corner of the video screen.
- ◆ **Quit.** Quits the application

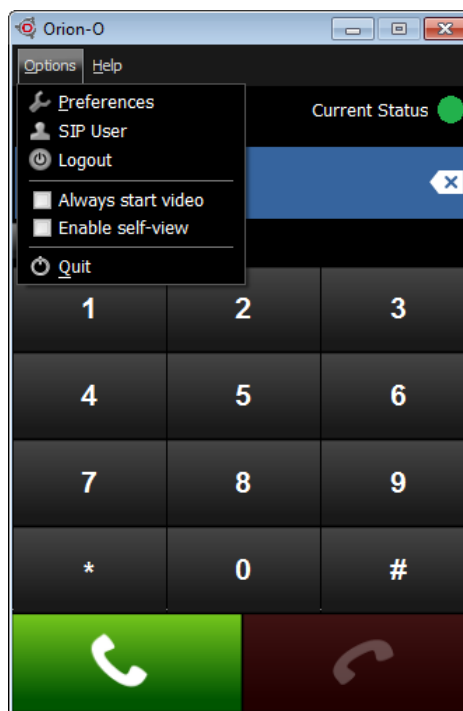


Figure 6: Options

7.1 Preferences

7.1.1 Network

→ For Network settings:

- ◆ Use the **SIP** drop-down menu to choose between:
 - SIP (UDP)
 - SIP (TCP)
 - SIP (TLS)
- ◆ Enter the **SIP** listening port
- ◆ Enter the **Audio RTP/UDP** port
- ◆ Enter the **Video RTP/UDP** port
- ◆ If you are not behind NAT/Firewall, check the **Direct connection to the Internet** box.
- ◆ If you are behind NAT/Firewall, check the **Behind NAT / Firewall** box.
- ◆ Enter your Public IP address.
- ◆ Press **Done** to save the changes and to exist the **Network** settings.

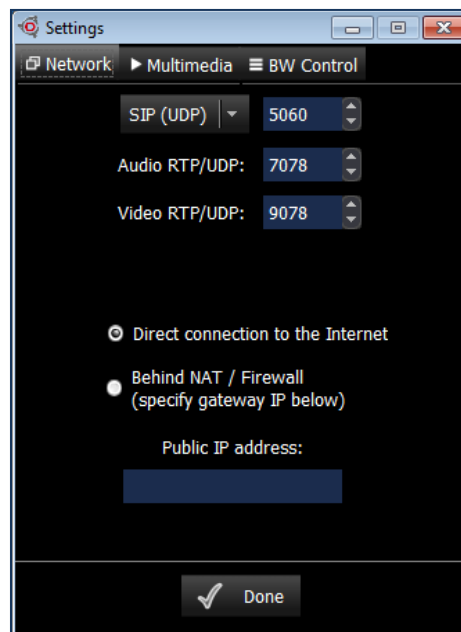


Figure 7: Network Settings

7.1.2 Multimedia

→ For the Multimedia settings:

The device options below depend on your device's available hardware.

Audio

- ◆ Choose your **Playback device** by using the drop-down menu
- ◆ Choose your **Ring device** by using the drop-down menu
- ◆ Choose your **Capture device** by using the drop-down menu

Video

- ◆ Use **Video input device** drop-down menu to choose between:
 - Directshow capture: CyberLink Web Camera Filter
 - Directshow capture; LG Webcam
 - StaticImage: Static picture
- ◆ Use **Preferred video resolution** drop-down menu to choose between:
 - HD720P (1280X720)
 - VGA (640x480)
 - CIF (352x288)
- ◆ Press **Done** to save the changes and to exist the **Multimedia** settings.

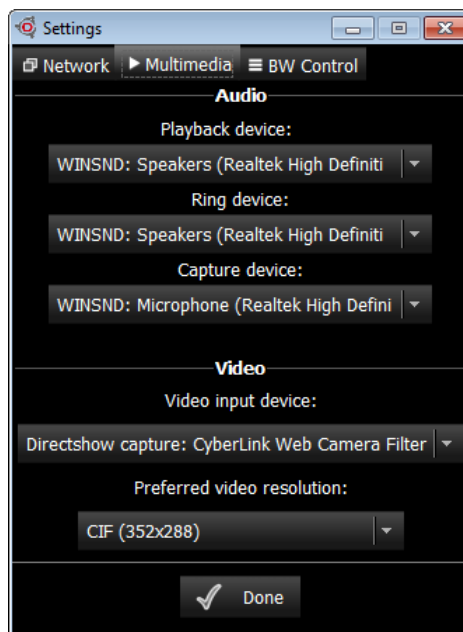


Figure 8: Multimedia

7.1.3 Bandwidth Control

→ To set the Bandwidth Control:

- ◆ Insert the Download speed limit in Kbit/sec.
Download speed limit is the maximum bit-rate from the network **to your device**.
- ◆ Insert the Upload speed limit in Kbit/sec
Upload speed limit is the maximum bit-rate **from your device** to the network.
Note that when the parameters above are set to zero, no limit has been set for the bit rate.
- ◆ To enable an **adaptive rate control**, check the box.
Adaptive rate control manages the bit rate and does not allow the stream to exceed the entered values.
- ◆ Press **Done** to save the changes and to exist the **Bandwidth Control** settings.

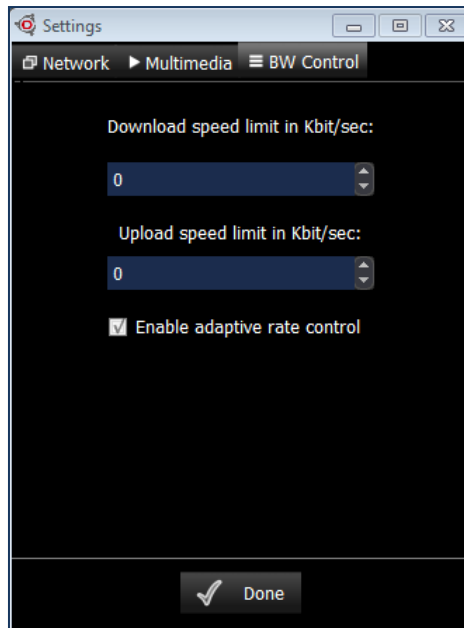


Figure 9: Bandwidth Control

7.2 SIP User

→ To edit the SIP User’s login parameters, choose SIP User:

- ◆ Press **Logout**, to make the fields editable:
- ◆ Edit the login parameters, as described in the opening screen (see section 2).
- ◆ Enter the Outbound SIP proxy domain or IP address (optional). The following shows the syntax:
 - <domain>:<port>
 - <IP address>:<port>

Note: Configure the Outbound SIP proxy with the same IP address of the Registrar, or leave this field blank (preferred).

- ◆ Press **Login**



Figure 10: SIP User