Orion VX1000/VX2000
v. 2.2.3 Release Notes

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1. Document Scope

Orion VX1000/VX2000 provides H.323 AND SIP-based video/audio conferencing services for SMBs (Small and Medium Businesses) and enterprises. The product is a ready-to-use, stand-alone network appliance. The Orion VX1000/VX2000's Web-based management system offers easy system configuration, conference creation, monitoring and conference control in real time.

This document contains information on new features and system modifications introduced in Orion VX1000/VX2000, release 2.2.3.1

For information on the introduction of new features and modification of previous releases, please refer to the relevant release notes documents.

This document includes the following sections:

Section 1: Document Scope – This section.

Section 2: New Capabilities and Changes – Overview of new capabilities and changes in Orion VX1000/VX2000 release 2.2.3

Section 3 Fixed in this Version – Bugs and other issues fixed in this release.

Section 4: Known Issues – Known issues and workarounds.

2. New Capabilities and Changes

2.1 TCP transport for SIP

CPE endpoints are now able to connect with Orion using the TCP SIP transport. Up till now, only UDP transport was supported for SIP. The support for TCP and UDP for SIP in Orion is system wide. SIP UDP and TCP signaling are utilizing the same listening port number for incoming calls.

The use of TCP protocol is preferable in case the client SDP message exceeds the MTU packet size (usually 1500 bytes).

2.2 SIP INVITE authentication

SIP INVITE authentication was added in order to prevent unauthorized direct calls without being registered within Orion's built-in registrar. The new feature can be configured through the Orion SIP configuration tab. If an intruder would attempt to perform a direct call (without registration) to Orion, while the SIP INVITE authentication option is set, the call will be rejected. See a detailed explanation how to set the feature in the Orion User Manual.

2.3 Media (RTP) and H.323 (RAS/Q.931) port range configuration

In this release, it is possible to configure the allocated port range used for the RTP media streams and H.323 signaling. The can be performed in the Orion network configuration tab. A detailed explanation is provided in the Orion user manual.

This feature enables flexibility of network management of the Orion in the existence of a firewall/NAT in conjunction with other network devices. The feature enables the prevention of port collisions between Orion and other network devices installed in the same local network.

2.4 Association of H.323 signaling port with a specific access number

In H.323, in case of the absence of a gate keeper (users are unregistered), when users can only implement direct calls, it is possible to associate an H.323 signaling port with a specific already configured access number.

This feature enables a direct access to a specific conference (utilizing the pre-configured access number) by dialing in H.323 to the designated port (the port that is associated with the relevant access number).

Prior to the implementation of this feature, in case of unregistered H.323 dialing, the user would always reach the IVVR, followed by entering the chosen conference, but always with up to VGA resolution. With the existence of this feature, even unregistered H.323 users can enter directly into a conference bridge at resolutions up to HD.

The association of H.323 port with a conference access number is configured in the conference access number edit window.

2.5 Access numbers configuration tab moved

The access number tab has moved from the SYSTEM CONFIGURATION page to the CONFERENCES page. The reason for this movement is because access number as well as conference settings are unrelated to the network and signaling configuration. The network and signaling configuration will in most cases be configured once, while access number and conferences will typically be configured more often and with a relationship of one to the other.

2.6 Resource reservation moved

The "resource reservation" moved from the bottom of the "edit conference" window, to right after the set of parameters that have an impact on the required resource reservation. All the rest of the configured parameters below the "resource reservation" notification have no impact on it.

2.7 Block unregistered calls checkbox was removed. Accepting/rejecting unregistered calls logic was changed

In previous versions, unregistered SIP calls were accepted unless the "block unregistered calls" checkbox was set.

In 2.2.3 version, accepting of unregistered calls is performed according to the following logic:

- If both internal and external registrars are disabled, all incoming calls are rejected.
- In case of an unregistered incoming call, if Internal registrar is enabled, and INVITE AUTHENTICATION is set, only authorized calls (successfully pass the invite authentication) are accepted.
- In case of an unregistered incoming call, if the internal registrar is enabled, and INVITE AUTHENTICAL is disabled, all incoming calls to existing access-numbers/conferences will be accepted.
- All calls which are registered to the internal or the external registrar, and are dialing to existing access-number/conferences will be accepted.

2.8 GUI landing page changed

When entering the Orion GUI, after successfully entering the login and password, the user will enter directly into the "conference summary" page containing the list of active conferences.

2.9 Setting of default language

In the rebranding screen, the default language buttons were added to enable setting of a designated language as the default language that will be used with the regular GUI. This chosen language will also be used as a translation reference for new added languages in the "translation" screen.

Moreover, the factory default languages can be modified/customized.

2.10 H.323 dial-out timeout

The H.323 timeout for outgoing calls was increased to 180 seconds. This is to enable Orion to wait for the remote H.323 endpoint to exit out of sleep mode, be activated and answer the call.

3. Fixed in this Version

Errata #	Date Added	Errata Description
1998	21.11.2013	Occasional video freeze with Sony room system when it is configured to HD resolution and connected to HD room. This issue has been found to be caused by a faulty Sony room system.
1990	21.11.2013	With Aver endpoint configured to H.323 and video codec to H.263, a black screen is displayed at the endpoint. In release 2.2.3, this issue was resolved.
2004,2005	31.12.2013	Sometime when upgrading the version, upgrade process gets stuck. Some times after application restart not all modules are running. In release 2.2.3, this issue was resolved.
1782	18.07.2013	Lifesize windows client issue - when UDP and TCP signaling enabled, there is no video when called from MCU. In release 2.2.3, SIP over TCP is supported, therefore this issue was resolved.

4. Known issues

Errata #	Date Added	Errata Description
2218	1.3.2014	Number of concurrent conferences is limited to 6 in Orion VX2000 if max number of participants is maintained at the default of 29. Workaround: In case 8 concurrent conferences need to be supported (in VGA and CIF resolution), the max number of participants needs to be limited to 16.
2007	21.11.2013	In H.323 direct mode (no usage of a gatekeeper) and connecting through an access number, the resolution of the access number and the H.323 end-point must match. Otherwise the endpoint will suffer no video. Workaround: Configure the H.323 endpoint and access number to a matching resolution.
1939	21.11.2013	Recording a conference is limited to VGA resolution.
1942	21.11.2013	When playing a recorded conference, audio-video sync issues might occur.
1973	31.12.2013	In rare occasions, Orion sends Video with Much lower bitrate than expected causing significant video artifacts. Workaround: Disconnect all participants and re-establish the conference.
2022	31.12.2013	In rare occasions, Orion sends bitrate much higher than expected (i.e. 3Mbps instead of 1Mbps), causing significant packet loss in client side. Workaround: Disconnect all participants and re-establish the conference.
2034	31.12.2013	For board-level customer (customer who are installing Orion onto their own server) when setting Orion IP configuration through Linux setup command, it is impossible to re-configure the IP attributes through the GUI (such as DNS server IP). Workaround: Always use GUI to configure the IP attributes and avoid using the Linux setup command. If the problem is encountered, re-install Orion.
2120	1.3.2014	When using Orion O desktop sharing, it is required to exit from desktop sharing on one client in order for a different client to be able to perform desktop sharing.
2073	1.3.2014	In case of H.323, content sharing with H.239 will work only if max number of visible participants in the conference is configured to 4 or above.
2071	1.3.2014	The Linphone H.263 is not supported. Only the Linphone H.263-1998 is supported. Workaround: It is recommended to configure the Linphone to work with H.264 due to its superior video quality compared to H.263.

1900	1.3.2014	Working with H.323 gatekeeper is only supported when gatekeeper and Orion are located on the same network without NAT translation between them.
1805	1.3.2014	In rare cases, when performing the Orion upgrade, the GUI gets stuck. Workaround: • Exit the GUI and re-enter. • Perform a physical reset to Orion.
1671	1.3.2014	When performing H.323/H.239 content sharing, the "people" screen of the sharing endpoint will always contain 2 video participant, as follows: the presenter and voice activated dominant speaker. This is the normal behavior of the Orion MCU.
1551	1.3.2014	In VX1000 QCIF resolution is not supported.

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