



Technical Support Guide

2023

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About LumenVox

LumenVox, a speech automation and security solutions company with over 20 years of experience, is a trusted global speech solutions provider with a comprehensive stack of speech, multifactor and multimodal biometric technology. Based on industry standards, LumenVox' core speech and authentication technologies are certified as among the most accurate, natural sounding, and secure solutions in the industry. The LumenVox technology provides tools for you to effectively deploy speech-enabled and speech-secured applications to improve the Call Center CX and ROI with LumenVox' flexible, cost-effective software suite. www.lumenvox.com.

Contact us to find out how you can offer a quick, secure, and seamless path to transaction and service levels that will set you apart from your competitors.

Each product has its own documentation for online viewing at the LumenVox Technical Support website – www.lumenvox.com/help (legacy product/containerized product) and/or www.developer.lumenvox.com/ for the containerized products.

A copy of the current LumenVox End User License Agreement and the current version of this LumenVox Technical Support Guide can be found at www.lumenvox.com/support.

Notice

Although reasonable effort is made to ensure that the information in this document is complete and accurate at the time of release, The LumenVox Corporation cannot assume responsibility for any existing errors. Changes and/or corrections to the information contained in this document may be incorporated in future versions.

Your Responsibility for Your System's Security

You are responsible for the security of your system. Product administration to prevent unauthorized use is your responsibility. Your system administrator should read all documents provided with this product to fully understand the features available that reduce your risk of incurring charges for unlicensed use of LumenVox products. Operating System Maintenance and patching for security issues are your responsibility.

Trademarks

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Technical Support from VARs

If you have purchased support from a reseller, please contact that reseller for technical support.

Table of Contents

About LumenVox	1
Notice.....	1
Your Responsibility for Your System’s Security	1
Trademarks	2
Technical Support from VARs.....	2
Introduction	5
When to Contact LumenVox Technical Support	5
LumenVox Technical Support Contact Information	5
LumenVox Technical Support Standard Hours of Availability	6
LumenVox Technical Support After Hours Phone Support Information	6
Other Contact Information	6
Customer Responsibilities.....	7
Before Logging a Support Request	8
How to Log a Support Request	10
Designated Contacts	10
LumenVox Technical Support Services.....	10
Software Downloads.....	11
Support Requests.....	11
Case Numbers.....	11
Case Severity Levels and Priority	11
Case Severity Levels and Priority – Response Times	13
Case Status.....	14
Submitting Support Request Updates	14
Closure of Support Requests	14
Reopening a Support Request	14
Software Releases.....	14
Major Releases.....	14
Minor Releases	14

Maintenance Releases	15
Software Patches	15
Software Versioning	15
Release Notes	15
Supported Versions.....	15
Feature Request Process.....	16
Submitting Feature Requests	16
Accepting Feature Requests	16
Feature Request Updates and Communications	16
Software Maintenance	17
Remote Access.....	17
On-Site Support	17
Escalating Your Issue.....	18
LumenVox Support Escalation Contacts	18

Introduction

LumenVox' Technical Support team is a component of LumenVox' Client Services Organization with offices located throughout Europe and the United States. Our goal is to provide prompt, effective technical support to customers and partners who might experience issues with their LumenVox products.

This Technical Support Guide provides information about the LumenVox guidelines for determining whom to contact, how to initiate a support request, and what customer information is required to resolve issues as quickly as possible.

When to Contact LumenVox Technical Support

Please thoroughly review all product information before contacting LumenVox Technical Support. Also, please be sure you have reviewed your responsibilities (see "Customer Responsibilities" in this document). LumenVox Technical Support looks forward to assisting you with the following issues:

- You have an issue with the operation of supported LumenVox products in a production or development (test) environment.
- You have an issue with licenses that requires immediate attention to ensure that a production environment remains operational or is restored to operation.
- You have post-sale technical questions about the operation of supported LumenVox products.
- You have product change or enhancement requests.
- You are notifying us of important project milestones (such as go-live dates for projects, major platform upgrades or LumenVox software upgrades) so that appropriate staff can be made aware of your plans.
- Scheduling training or other deliverables related to the purchase of any LumenVox software.
- Scheduling training, after purchase.

LumenVox Technical Support Contact Information

To contact LumenVox Technical Support, please email us at support@lumenvox.com or call us at either +1 858-707-7700 and ask for "Technical Support" or +49(0) 89-127-16-333.

LumenVox Technical Support Standard Hours of Availability

LumenVox Technical Support self-help through our Knowledge Base System is available 24x7x365; <https://www.lumenvox.com/knowledgebase/>

Email questions or requests to LumenVox Technical Support is available 24x7x365 and will be responded to in the order in which they are received.

Standard Support is available during LumenVox corporate offices standard business hours.

Phone access requests to LumenVox Technical Support is available weekdays, between 8 a.m. and 1 a.m. Greenwich Mean Time (GMT). All phone calls to LumenVox Technical Support received after business hours will go to voice mail and our technical support team will respond to your request on the next business day during our regular hours; unless otherwise contracted in writing with a specialized Service Level Agreement (SLA) at an additional cost.

LumenVox Technical Support is closed in observation of the following Holidays:

New Year's Day – January 1st

Christmas Day - December 25th

LumenVox Technical Support After Hours Phone Support Information

After-hours phone support is available as a premium offering with an additional cost. Only **Severity 1 – Critical** issues are eligible for After-Hours Support. Our definition for **Severity 1 - Critical** status is “A production system is down or severely impaired to the point where it is unusable.”

Please consult with your Sales Representative for more information, regarding terms and conditions for after-hours support.

Customers who have subscribed to after-hours support will be given a special phone number to reach our after-hours support team.

Other Contact Information

LumenVox Technical Support will respond to, or assist in facilitating responses to, all questions or requests; however, questions like the below items are best addressed by the individuals/groups under the “Appropriate Contact” column.

Item or Issue	Appropriate Contact
LumenVox product pricing or quotations.	Please contact LumenVox Sales at +1 858-7077700 and ask for “Sales” or contact your specific Sales Representative.
Issues related to placing or completing online purchases at www.lumenvox.com	Please contact LumenVox Sales at +1 858-7077700 and ask for “Sales” or contact your specific Sales Representative.
Payment and billing questions or issues.	Please contact LumenVox Sales at +1 858-7077700 and ask for “Sales”; or contact your specific Sales Representative.
Issues with general software programming, not specific to LumenVox products.	Please contact your internal programming experts.
Issues with products or applications not produced by LumenVox, such as IVR or IVR applications.	Please contact the appropriate product vendor. If an issue crosses multiple vendors, LumenVox support can be available to work with the other vendors.
Issues with custom software developed by a third-party systems integrator.	Please contact the system integrator that developed the application.
Pre-sales design request and questions.	Please contact LumenVox Sales at +1 858-7077700 and ask for “Sales” or contact your specific Sales Representative. They can arrange for presales assistance from our Client Services team.
Contact center architecture and design questions.	Please contact LumenVox Sales at +1 858-7077700 and ask for “Sales” or contact your specific Sales Representative. They can arrange for assistance from our Client Services team.

Customer Responsibilities

To provide the highest levels of support and to ensure that your issue is resolved as quickly as possible, please review the following list and be sure that you have met these responsibilities before contacting LumenVox Technical Support.

- Technical Support Entitlement (time) available in your account before any support request will be considered “Opened.”
- A Designated Contact (as described in “Designated Contacts” on page 9) to report a new Support Request or to update an existing Support Request.

- A complete understanding of the technical infrastructure in which the LumenVox product is installed.
- The ability to specify the name of the LumenVox product you are using and the version number of that product.
- The ability to provide an accurate description of the issue and its business impact including the observed behavior and the expected behavior.
- Adequately trained to use LumenVox products.
- The ability to transfer information (for example, log files, configuration files, Linux core file, etc.) electronically to help us analyze your issue.
- If you have requested **Severity 1 - Critical** status for your production issue, a customer contact must always be available to work with LumenVox Technical Support in the resolution of your issue.
- **Severity 1 – Critical** issues should be opened over the phone to facilitate quickest resolution.

Before Logging a Support Request

Before contacting LumenVox Support, please be sure that you have searched the [LumenVox Knowledge Base](#) for your issue. Many common issues can be resolved by reading through the comprehensive collection of articles in the Knowledge Base. If you still wish to open a new support request, please have the following ready:

- A clear description of the problem.
- If you can reproduce the issue, clear instructions on how to do so.
- A list of actions you have taken so far in attempting to solve the issue.

For our ASR, TTS and CPA Products please also provide the following:

- The set of LumenVox configurations on the active machine(s).
 - Use the [LumenVox Dashboard's](#) Diagnostics tab to collect this information and submit it to LumenVox Technical Support. **(This is the preferred method to submit information if using the legacy product).**

<https://www.lumenvox.com/knowledgebase/index.php?article/AA-02241>

If you have questions on how to submit the Diagnostics information, please contact LumenVox Technical Support. The following steps are for the legacy product only and do not pertain to the container technology.

- A set of LumenVox text logs covering the relevant time period.
- The steps below can be done manually as described below or using the [LumenVox Dashboard's](#) Diagnostics tab.
- If you do not already have logging verbosity set to 3 in your LumenVox configuration files using the Diagnostics Tab in the LumenVox Dashboard, please do so.
- If you can reproduce the issue you are reporting at will, please clear the LumenVox logs by deleting or moving the log files, restart all LumenVox services, and then replicate the problem so that it is clearly visible in a fresh set of logging.
- On Windows, log files will be stored in Program Files\LumenVox\Engine\Logs\ (or \TTS Server\Logs\).
- On Linux, logs are stored in /var/log/lumenvox/.
- Use the Diagnostics Tab in the LumenVox Dashboard to submit test results, logging and any other requested files.
- Please create a zip or tarfile containing all the logs.
- If your issue concerns speech recognition performance or TTS pronunciations, please [enable response file](#) (also known as ".callsre file") logging and have a set of response files available.
- If your issue involves communication between a voice platform and LumenVox over MRCP, please produce a packet capture file that can be correlated with the logs.
- On Windows, you can use the free, open-source tool Wireshark to generate packet captures.
 - On Linux, most distributions include the tcpdump utility:
 - /usr/sbin/tcpdump -s 0 -w /root/tcpdump1
- If you have questions on how to generate appropriate packet captures, please contact LumenVox Technical Support.

How to Log a Support Request

Support Requests (Cases) may be submitted via:

- E-mail at Support@LumenVox.com - (Preferred)
- Telephone - Please call us at +1 858-707-7700 and ask for "Technical Support"

Severity 1 – Critical Cases should be opened over the phone to facilitate quickest resolution.

Designated Contacts

LumenVox prefers to provide support only to designated contacts that are on record for your account. We will periodically ask you to review the information associated with your account, including approved support contacts and their contact information.

If you wish to add additional approved support contacts, please email us their contact info (must include name, email address and work phone number), or call us at +1 858-707-7700 and ask for "Technical Support." We can take the names and contact information for the additional contacts and note their access to technical support.

LumenVox Technical Support Services

LumenVox Technical Support provides remote assistance with the following:

- Questions related to the normal functioning, installation, and configuration of LumenVox software and license deployment.
- Troubleshooting issues related to the installation or configuration of LumenVox software and license deployment.
- Issues related to bugs or defects in the normal functioning of LumenVox software (includes supported versions only, which is generally two years from the date of GA).
- Help with general LumenVox product questions and reasonable guidance and general recommendations on high level development, voice user interface (VUI) design, and grammar troubleshooting.

Software Downloads

All LumenVox software may be downloaded from <http://www.lumenvox.com/packages/> (legacy) or <https://github.com/lumenvox/helm-charts> (Containerized version)

Legacy product

Linux users are encouraged to use YUM to manage download and installation. For more details, please see our Knowledge Base article at:

- <http://www.lumenvox.com/knowledgebase/index.php?/article/AA-00628/152/>

Windows users are required to download the LumenVox software files manually. For more details, please see our Knowledge Base articles at:

- <https://www.lumenvox.com/knowledgebase/index.php?/article/AA-00626/9/>
- <https://www.lumenvox.com/knowledgebase/index.php?/article/AA-00627/0/>

Support Requests

The following sections describe the types and lifecycle of support requests.

Case Numbers

When a Support Request is opened, it is tracked as a "case." Each specific question or problem will be tracked as a separate case and will be assigned a case number. You will be provided with this case number after a support request is logged in the LumenVox case tracking system. Please refer to this number in future correspondence with LumenVox Technical Support relating to this case.

Case Severity Levels and Priority

To prioritize the handling of Support Requests we use a short list of severity levels, as detailed in the table below. Each Support Request must be assigned a severity level between 1 and 4. The table below provides detailed descriptions and symptoms to aid in determining the correct severity level to assign.

Severity	Summary	Detailed Description	Symptoms
1 - Critical	A production system is down or severely impaired to the point where it is unusable.	<p>Errors which cause a production outage for the customer and cannot be resolved by a restart or workaround.</p> <p>This is a critical error or failure in the operation of LumenVox Software which results in a major or total failure of the software to perform substantially in accordance with its specification and results in a major or total interruption to the functioning of the business of a partner.</p>	<p>Supported product totally inoperative. Corruption or destruction of Data. Supported Product subject to catastrophic failures (50% or greater degradation of service)</p> <p>Degraded performance (throughput/ response) such that the Supported Product is not usable in production (50% or greater degradation of service).</p>
2 - Major	A production system is impaired but usable.	<p>High-impact error where the supported product is operating in a significantly impaired fashion or a major function is unusable.</p> <p>This error cannot be resolved by a restart or workaround, but customer is able to run in production.</p>	<p>The supported product is running, but with repeated interruptions. Degraded performance (throughput/ response) such that there is a severe impact on use, including intermittent errors. Time-sensitive error important to long-term productivity that is not causing an immediate stoppage of work</p>
3 - Minor	Any error in production that does not qualify for severity 1 or 2, or any error affecting a nonproduction system.	<p>Errors which do not have a significant impact on production. Errors that can be resolved by a restart or workaround.</p> <p>Any error which was originally reported as P1 or P2 but has been temporarily solved with a work-around will be reduced to P3 provided there is no remaining significant impact to production use.</p>	<p>Non-critical or non-major errors. Non-critical or non-major degradation in performance (throughput/ response). Intermittent Errors with low or no impact on customer operations. Errors in test, development, or other non-production systems.</p>
4 - Other	Any issue which does not meet the criteria for severity 1, 2, or 3 issues.	<p>Errors which do not affect the use of the Supported Product</p> <p>New feature requests</p> <p>Cosmetic issues</p>	<p>Errors in documentation. Development-related support that does not impact project schedule</p>

Case Severity Levels and Priority – Response Times

Customers will be entitled to response times based on their contractual service level agreement and the severity of the issue. The following table outlines the relationship between severity level, service level, and resolution.

Severity	Support Response	Resolution Goals Time	Resolution Method
1 - Critical	1 hours 8am – 1am GMT M-F	Resources dedicated: Continuously until Error is resolved Progress Update: every 4 hours Resolution target time: 24 hours	Error Correction
2 - Major	4 hours 8am – 1am GMT M-F	Resources dedicated: Continuously during LumenVox' normal business hours until Error is resolved Progress Update: Daily Resolution target time: 48 hours	Error Correction
3 - Minor	8 Hours (Within one business day) 8am – 1am GMT M-F	Resources dedicated: As needed during LumenVox' normal business hours. Progress Update: Upon determined path to resolution, and then upon actual resolution. Resolution target time: Next minor or major release	Update
4 - Other	24 Hours (Within three business days) 8am – 1am GMT M-F	Resources dedicated: As needed during LumenVox' normal business hours. Progress Update: Upon determined path to resolution, and then upon actual resolution. Resolution target time: To be determined based on development priorities and scheduling.	Update, at LumenVox' discretion

Case Status

Submitting Support Request Updates

Please provide updates to LumenVox Technical Support should the status of your case change. For example, if the severity changes, you find a workaround, or you learn new details about the nature of the underlying case, please notify LumenVox Technical Support so that we can update the information in your support request.

Please contact LumenVox Technical Support and reference the case number. The case will be updated with the new details you provide.

Closure of Support Requests

You may close a support request if you feel the problem is resolved, or for some reason you decide that it no longer requires the attention of LumenVox Technical Support.

Please contact LumenVox Technical Support to let them know that you would like the case closed.

LumenVox Technical Support will close a support request upon email confirmation of case resolution.

Reopening a Support Request

If you would like to re-open a closed support request, please contact LumenVox Technical Support and reference the case number.

Software Releases

LumenVox releases new versions of its software products on a periodic basis. There are three kinds of software releases: Major, Minor, and Maintenance.

Major Releases

A Major Release represents a version of LumenVox software that has changed in a very significant way, e.g. many new features have been added or some significant change has been made to the way that components function. LumenVox averages one major release every 12-18 months.

Minor Releases

A Minor Release represents a version of LumenVox software that has changed in a significant way, but not significantly enough to warrant a Major Release. The most common reason for Minor Releases is to add new functionality to the software. LumenVox averages about 3-4 Minor Releases per Major Release.

Maintenance Releases

A Maintenance Release is issued to fix a defect. Occasionally new functionality is included in a Maintenance Release. LumenVox averages 1 or 2 Maintenance Releases per Minor Releases.

Software Patches

LumenVox does not provide patches to software. If technical issues are identified that require a change to software, that fix will be made in the next released version of the LumenVox software. Issues with critical severity may cause LumenVox to expedite the release of the next software version, and customers are expected to upgrade to the latest software version to receive the fix.

Software Versioning

The version of any piece of LumenVox software is numbered in the X.Y.ZZZ format, where X is the Major Version, Y is the Minor Version, and ZZZ is the Maintenance Version. For example, the first public release of a new Major Version of LumenVox might be numbered 18.0.400 to indicate that its Major Version is 18, its Minor Version is 0, and its Maintenance Version is 400. A new Maintenance Release might be versioned 18.0.500, and the next Minor Release would be 18.1.100.

LumenVox keeps the versions of its products in synch, so any release will have the same version, e.g. the ASR and TTS would both be versioned 18.0.400. The one exception to this policy is that ASR acoustic models and TTS voices, which rarely change between Minor Releases, are generally not re-versioned for Maintenance Releases. Because these files are usually quite large, this policy saves users from having to download large files that have not changed. For example, the 18.0.400 ASR could be used with an 18.0.100 acoustic model.

**** All components of an individual LumenVox Installation must be from the same release. LumenVox does not support mixing components of a single individual installation from multiple releases.

Release Notes

Comprehensive Release Notes are available for each release of the software. They are in the LumenVox Knowledge Base online at:

<http://www.lumenvox.com/knowledgebase/index.php?/article/AA-01461/9/>

We strongly encourage you to subscribe to updates to this specific Knowledge Base article. You can do so from within the article.

Supported Versions

LumenVox offers technical support for versions of our software released within the last two years (i.e. the last 24 months) or 2 major releases, whichever is greater. Technical support includes help with installation,

configuration, licensing, etc. It also includes help working around technical issues, where possible. Currently supported releases are below, all other releases are deprecated and should be considered unsupported. Please reach out to LumenVox Technical Support or your Sales Representative to discuss upgrade options if you are currently using an unsupported version of LumenVox software.

Feature Request Process

Though they are both treated similarly, a Feature Request differs from a Support Request in that a Feature Request is not a question about existing functionality, nor a report of a defect in the LumenVox software. A Feature Request is related to functionality that is not included in any current release of the LumenVox software. Customers are encouraged to submit Feature Requests as they identify functionality they would like to see in the product, but LumenVox makes no guarantee of its ability to implement such requests.

Submitting Feature Requests

A Feature Request should be submitted in the same ways as Support Requests (see [How to Log a Support Request](#) on page 9). The following information should be provided:

- An indication that the request is for a new feature, and not a Support Request.
- A clear description of the feature. If it helps to illuminate the request, please provide LumenVox logs, configuration files, or packet captures.
- The importance of the request.

Accepting Feature Requests

At its discretion, LumenVox may accept a Feature Request for future development. At this point the request will be forwarded to LumenVox Product Management to be scheduled. There may be a significant length of time before requests can be implemented.

Feature Request Updates and Communications

When an accepted Feature Request is implemented in a released version of the LumenVox software, LumenVox Support will close the Feature Request and notify the requestor. If you have any questions or comments about a pending Feature Request, you may submit Request Updates following the same procedure as for a standard Support Request Update (see [Submitting Support Request Updates](#) on page 13).

Software Maintenance

Software Maintenance allows customers to use the latest version of the LumenVox software. As long as a customer's Software Maintenance contract is current, the customer is entitled to use the newest release of LumenVox software. This is represented in the License file as a Software Maintenance Expiration Date associated with a group of ports. After this date, the ports under license will no longer function with new releases of LumenVox software.

For example, if a License file contained a group of ports with a Software Maintenance Expiration Date of March 31, 2023 then the customer would not be able to use a version of the LumenVox software released in April 2023 (but all earlier releases would work). Attempting to use newer versions of the software than the Software Maintenance Expiration Date allows will result in runtime errors.

Subscription Licenses do not have Software Maintenance Expiration Dates.

Remote Access

As part of providing technical support, LumenVox Technical Support may ask for Remote Access to any relevant machines, as this is frequently the most expedient way to resolve problems.,

Our preferred method of accessing machines remotely is through direct Secure Shell (SSH) on Linux or Remote Desktop Protocol (RDP) on Windows. We recommend configuring firewalls to allow us to directly use SSH or RDP to access a machine.

If those are not options, LumenVox Technical Support may ask to schedule a Zoom or WebEx session in which you share control of your desktop and provide Remote Access that way.

At the discretion of LumenVox Technical Support, we may also choose to use a different method of Remote Access (e.g. VPN or other remote access software) of your preference. Please contact LumenVox Support with any questions about specific questions about Remote Access.

On-Site Support

On-site support is available upon request. If you request on-site support, you are responsible for associated travel costs and LumenVox employee travel time as part of the cost at our business day support rate.

Escalating Your Issue

Should you have any concerns about our response to your support request, the first point of escalation would be the Technical Support Representative who has been your point of contact for the issue. You can confirm the name of the Support Request owner by viewing the acknowledgement & status emails that you have received from LumenVox or by calling LumenVox Technical Support.

Please contact your support representative and explain your concern, he/she will endeavor to resolve your concern directly.

If your support representative is unable to successfully address your concern, the next step would be to escalate, as listed in the table below.

LumenVox Support Escalation Contacts

Escalation Level	Contact Person	Contact Information
First Contact	Technical Support Representative	Please call us at +1 858-707-7700 and ask for "Support"
Second Level Escalation Point	Paul Esquino Lead Sales Engineer	Office: +1 (858) 707-7700 and ask for "Paul Esquino" E-mail: paulesquino@lumenvox.com
Third Level Escalation Point	Dean D'Adamo Vice President, Sales	Office: +1 (858) 707-7700 and ask for "Dean D'Adamo" E-mail: DeanDAdamo@lumenvox.com
Final Contact	Nigel Quinnin CTO	Office: +1 (858) 707-7700 and ask for "Nigel Quinnin" E-mail: NigelQuinnin@lumenvox.com