

LumenVox 11.1 Release Webinar

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Agenda

- Introduction
- New Features & Changes
 - Web Dashboard
 - MRCPv2/SIP over TCP
 - Changes to Default Behaviors
 - New TTS voices
- Q&A
- Conclusion

Introduction

About This Webinar

- This is discussion about the changes in 11.1, intended for a technical audience.
- We also assume some familiarity with the existing LumenVox product suite.
- We will particularly focus on new features or changes to default behaviors between 11.1 and the previous release, version 11.0.

Who we are

- Dave Rich — CEO
- Jeff Hopper — Sr. Director of Client Services
- Nigel Quinnin — Chief Information Officer
- Stephen Keller — Solutions Architect

LumenVox Release Schedule

- LumenVox releases important upgrades 2-4 times per year.
- This release is a minor upgrade in the 11.x series, which started with 11.0 (released in December 2012).
- Full release notes are always available online at www.lumenvox.com/help/

Asking Questions

- As we talk, feel free to ask questions over the questions panel on the webinar.
- We will try and answer your questions as part of a Q&A session toward the end.
- Any question we can't answer over the course of this session will be answered offline.

New Features

Web Dashboard

The screenshot displays the LumenVox Dashboard in a web browser window. The browser's address bar shows the URL 10.22.0.9:8080. The dashboard header features the LumenVox logo and the tagline "Speech Understood". Below the header, there are three navigation tabs: SUMMARY, LICENSING, and HELP. The main content area is titled "Lumenvox Dashboard Summary" and is divided into two sections. The first section, "Machine Configuration Information", contains a table with the following data:

Parameter	Value
Manager Status	Online
System Name	TESTLAB-COMP10
Operating System	Windows Server 2003 R2 Service Pack 2 32-bit
Machine Type	4 CPUs, 2400 MHz, 3.00 GB memory
Software Version	11.0.312 (32-bit)

The second section, "Summary of LumenVox Services", contains a table with the following data:

Service	Status	Start	Stop	Restart	Configuration	Stats	Logs
Manager	Online	Start	Stop	Restart	Configuration	Stats	Logs
License Server	Online	Start	Stop	Restart	Configuration	Stats	Logs
Media Server	Online	Start	Stop	Restart	Configuration	Stats	Logs
ASR Server	Online	Start	Stop	Restart	Configuration	Stats	Logs
TTS Server	Online	Start	Stop	Restart	Configuration	Stats	Logs
Call Indexer	Offline	Start	Stop	Restart	Configuration	Stats	Logs

Dashboard Changes

- There was a previous Dashboard tool that was a Windows-only GUI.
- The new Dashboard is web-based and thus can be accessed from any operating system.
- Merges the existing LumenVox Manager functionality with the Dashboard, providing a single point of control.
- Offers the ability to:
 - License software
 - Start/stop/restart LumenVox services
 - Make configuration changes
 - View logs and statistics

Installing/Configuring Dashboard

- On Windows, included with the new **LumenVox Tools** installation package.
- On Linux, included as part of the **LumenVoxCore** package.
- The **manager.conf** file controls settings for Dashboard, including:
 - What port to listen on (default 8080)
 - Whether to use authentication
 - Enabling HTTPS/SSL certificates (optional; enabled by default)
 - Other configuration options
- For complete details, see
 - <http://www.lumenvox.com/knowledgebase/index.php?/article/AA-01720>

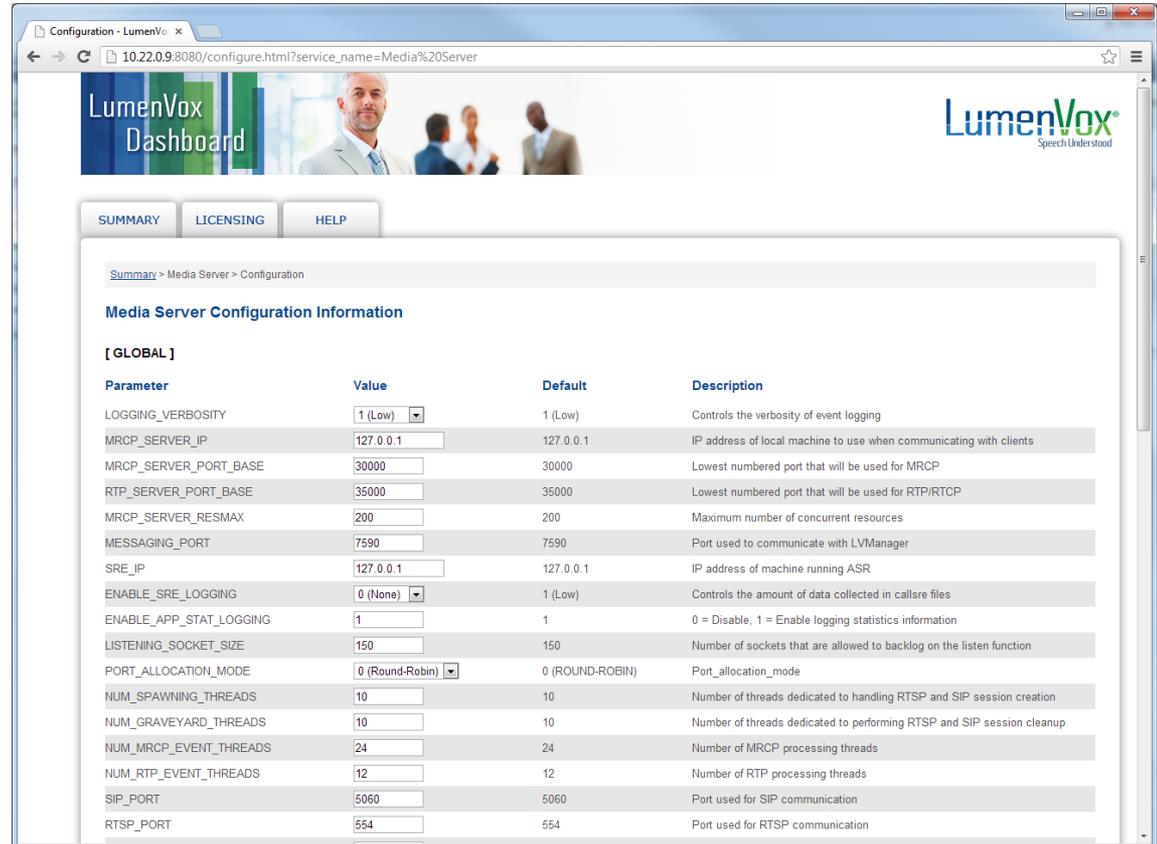
Licensing Via Dashboard

- Provides summary of installed licenses.
- Create server ID files, install licenses, renew, etc.
- Command line tools still exist for those that prefer that mechanism.



Editing Configurations Via Dashboard

- Settings exposed in most configuration files can be edited via the Dashboard.
 - The main exception is `client_property`, since multiple copies of it can exist.
- Config files still exist and can also be manually edited.

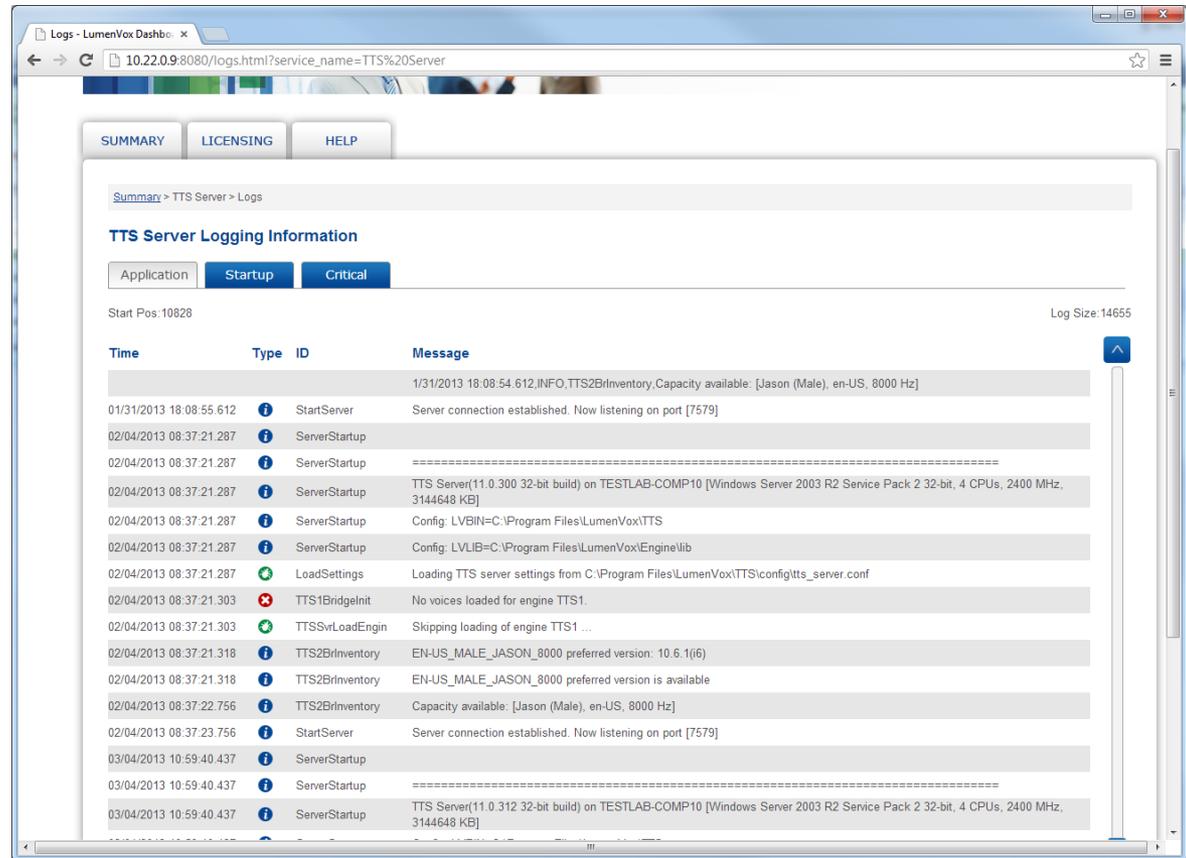


The screenshot shows a web browser window displaying the LumenVox Dashboard configuration page for a Media Server. The page title is "Configuration - LumenVo" and the URL is "10.22.0.9:8080/configure.html?service_name=Media%20Server". The dashboard features a navigation bar with "SUMMARY", "LICENSING", and "HELP" tabs. The main content area is titled "Media Server Configuration Information" and includes a breadcrumb trail: "Summary > Media Server > Configuration". Below this, there is a section labeled "[GLOBAL]" containing a table of configuration parameters.

Parameter	Value	Default	Description
LOGGING_VERBOSITY	1 (Low)	1 (Low)	Controls the verbosity of event logging
MRCP_SERVER_IP	127.0.0.1	127.0.0.1	IP address of local machine to use when communicating with clients
MRCP_SERVER_PORT_BASE	30000	30000	Lowest numbered port that will be used for MRCP
RTP_SERVER_PORT_BASE	35000	35000	Lowest numbered port that will be used for RTP/RTCP
MRCP_SERVER_RESMAX	200	200	Maximum number of concurrent resources
MESSAGING_PORT	7590	7590	Port used to communicate with LVManager
SRE_IP	127.0.0.1	127.0.0.1	IP address of machine running ASR
ENABLE_SRE_LOGGING	0 (None)	1 (Low)	Controls the amount of data collected in callere files
ENABLE_APP_STAT_LOGGING	1	1	0 = Disable, 1 = Enable logging statistics information
LISTENING_SOCKET_SIZE	150	150	Number of sockets that are allowed to backlog on the listen function
PORT_ALLOCATION_MODE	0 (Round-Robin)	0 (ROUND-ROBIN)	Port_allocation_mode
NUM_SPAWNING_THREADS	10	10	Number of threads dedicated to handling RTSP and SIP session creation
NUM_GRAVEYARD_THREADS	10	10	Number of threads dedicated to performing RTSP and SIP session cleanup
NUM_MRCP_EVENT_THREADS	24	24	Number of MRCP processing threads
NUM_RTP_EVENT_THREADS	12	12	Number of RTP processing threads
SIP_PORT	5060	5060	Port used for SIP communication
RTSP_PORT	554	554	Port used for RTSP communication

Viewing Logs via Dashboard

- Product log files are available for view via the Dashboard.
- Logs are indicate type of message (e.g. Info, Error).
- Provides convenient single point of management.



The screenshot shows a web browser window displaying the LumenVox Dashboard. The URL is `10.22.0.9:8080/logs.html?service_name=TTS%20Server`. The dashboard has tabs for SUMMARY, LICENSING, and HELP. The current view is 'Summary > TTS Server > Logs'. Below this, there is a section for 'TTS Server Logging Information' with sub-tabs for Application, Startup, and Critical. The 'Startup' tab is selected. The log entries are as follows:

Time	Type	ID	Message
01/31/2013 18:08:55.612	Info	StartServer	1/31/2013 18:08:54.612,INFO,TTS2BrlInventory,Capacity available: [Jason (Male), en-US, 8000 Hz]
02/04/2013 08:37:21.287	Info	ServerStartup	Server connection established. Now listening on port [7579]
02/04/2013 08:37:21.287	Info	ServerStartup	=====
02/04/2013 08:37:21.287	Info	ServerStartup	TTS Server(11.0.300 32-bit build) on TESTLAB-COMP10 [Windows Server 2003 R2 Service Pack 2 32-bit, 4 CPUs, 2400 MHz, 3144648 KB]
02/04/2013 08:37:21.287	Info	ServerStartup	Config: LVBIN=C:\Program Files\LumenVox\TTS
02/04/2013 08:37:21.287	Info	ServerStartup	Config: LVLIB=C:\Program Files\LumenVox\Engine\lib
02/04/2013 08:37:21.287	Info	LoadSettings	Loading TTS server settings from C:\Program Files\LumenVox\TTS\config\tts_server.conf
02/04/2013 08:37:21.303	Error	TTS1Bridgelnit	No voices loaded for engine TTS1.
02/04/2013 08:37:21.303	Info	TTSSvrLoadEngin	Skipping loading of engine TTS1 ...
02/04/2013 08:37:21.318	Info	TTS2BrlInventory	EN-US_MALE_JASON_8000 preferred version: 10.6.1(i6)
02/04/2013 08:37:21.318	Info	TTS2BrlInventory	EN-US_MALE_JASON_8000 preferred version is available
02/04/2013 08:37:22.756	Info	TTS2BrlInventory	Capacity available: [Jason (Male), en-US, 8000 Hz]
02/04/2013 08:37:23.756	Info	StartServer	Server connection established. Now listening on port [7579]
03/04/2013 10:59:40.437	Info	ServerStartup	=====
03/04/2013 10:59:40.437	Info	ServerStartup	TTS Server(11.0.312 32-bit build) on TESTLAB-COMP10 [Windows Server 2003 R2 Service Pack 2 32-bit, 4 CPUs, 2400 MHz, 3144648 KB]

Future Dashboard Updates

- We plan to add new enhancements to the Dashboard over time, and we would welcome your feedback.
- After you have had a chance to use it, please let us know what other features you would like to see in the Dashboard.

SIP over TCP

- SIP is used as the session protocol for MRCPv2 (RTSP serves this function in MRCPv1).
- Prior to 11.1, LumenVox supported SIP only over UDP.
- With 11.1, SIP is supported via TCP and UDP in the LumenVox Media Server. Both use the same default port (5060).
- Probably will not affect most existing users, but helps improve compatibility with all voice platforms, regardless of how they have implemented SIP.

Changes to Default Behaviors

- Two possibly important changes to default behaviors for MRCP users in 11.1:
 - LumenVox will no longer send TRYING responses to SIP INVITES (MRCPv2 only).
 - Input Timers now default as on (both MRCPv1 and MRCPv2).

Change to TRYING Response

- In a normal SIP call, the calling device sends an INVITE message to establish a session.
 - The far side then sends a SIP TRYING message, and then tries to reach the called party. Once it's able to establish a session, it sends a SIP OK message back.
 - Prior to 11.1, the LumenVox Media Server followed this pattern. But since there was no other party to contact, the OK message was sent *immediately* after the TRYING, making the TRYING message pointless.
- In order to improve performance under heavy loads, LumenVox no longer sends TRYING messages.
- This should not affect most users, but the old behavior can be re-enabled by changing **send_sip_trying** to 1 in the Media Server configuration.

Input Timers on By Default

- The Input Timer in MRCP (both versions) controls the amount of time a caller has to begin speech or DTMF input.
- To begin on the timer, the voice platform sends a Recognizer-Start-Timers (MRCPv1) or Start-Input-Timers message (v2) with a value of *true*.
- Prior to 11.1, LumenVox defaulted the value of this to *false*. In order to better comply with the MRCP specifications, this will now default to *true*.
- The default can be changed by adding a parameter called **recognizer_start_timers** in the Media Server configuration file (in the [MRCP] section) and setting it to either true or false.

New TTS Voices

- 11.1 includes two new Welsh TTS voices:
 - Gavin (male).
 - Gwendolyn (female)
- These voices can speak either the Welsh language (cy-GB) or British English (en-GB) with a Welsh accent.
- Because these voices can speak two languages, be sure and specify the desired language when using these voices.

Q&A

Conclusion

Follow-Up

- Still have questions? We would like to have some deeper technical discussions with anyone who is interested.
- We will be sending out a survey asking if you have more questions, so please fill it out.

Release Notes

- Full release notes are online:
<http://www.lumenvox.com/knowledgebase/index.php?/article/AA-01461/>

Upgrading

- In order to upgrade to 11.1, your software maintenance contract for your licenses must be valid.
- Feel free to contact support@lumenvox.com or call support at +1-858-707-7700 (just say “Support”) if you have questions or need assistance.