



VoiceGenie 7.2.1 Hot Fix 17 Speech Resource Manager Release Notes

April 2009

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Overview

This document contains the following:

- Product Version Identification for the updated hot fix
- Hot-Fix Installation Instructions
- Fixes

Please refer to the 7.2.1 GA version of the release notes for the following information which has not changed:

- Resources
- Where to Get Help
- Terminology
- Product Version Identification
- Features
- Known Limitations

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Speech Resource Manager Release Notes

Product Version Identification

Product Name	Speech Resource Manager Server
Version	7.2.1 HF17
Release Date	April 2009

Speech Resource Manager Information	
Package	srm-server-7.2.1-RHEL4 HF17.tar.gz
Operating System for Telephony Box	Red Hat Enterprise Linux 4.0 Update 6

Installing / Configuring the Hot Fix

Natural Voices 4.1.x MRCP Native

1. Install and deploy Media Platform via SMC by following VG7 Installation Guide
2. Install and deploy the SRM Server via SMC by following VG7 Installation Guide
3. Install the Natural Voices Client
 - The NaturalVoice client must be installed on the same machine as the SRM Server software.
 - Via SMC install and deploy naturalvoices-tts-client-base-3.0.0-8.tar.gz
4. Install the Natural Voices Server (RHEL4)

Package List

The original NaturalVoice 4.1 engine package includes:

server-common-linux-TTS4.1.tar: Standard support files for NV TTS 4.1
server-linux-gcc323-TTS4.1.tar: NV TTS 4.1 server and shared libraries (RedHat Linux 3.0)
server-linux-gcc346-TTS4.1.tar: NV TTS 4.1 server and shared libraries (RedHat Linux 4.0)
3rd-party/3rd-party-data.tar: Data files required for support of Spanish frontend
3rd-party/3rd-party-libs.tar: Libraries required for support of Spanish frontend (RedHat Linux 3.0)
3rd-party/3rd-party-libs-gcc346.tar: Libraries required for support of Spanish frontend (RedHat Linux 4.0)
voices/en_us: New voice files for Crystal, Mike, and Jan
cfg/: Sample configuration files for NV TTS 4.1 server
nv_tts_host_all: Sample start/stop scripts for NV TTS 4.1 server
nvmrcpd.tar: NV TTS 4.1 MRCP v1 daemon
NV411ReleaseNotes.doc: High-level release notes

Installation of Software Packages

Step 1: server-common-linux-TTS4.1.tar

under /usr/local/vg_install/ATT_TTS run as root:

```
tar xvf server-common-linux-TTS4.1.tar
```

It will generate the following path:

```
/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server
```

Change owner of ATT_TTS to pw.

Create /usr/local/ATT_TTS/ATTNaturalVoices and make sure ATT_TTS/ATTNaturalVoices is owned by pw. Make the following soft link:

```
ln -s /usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1 TTS
```

Step 2: server-linux-gcc346-TTS4.1.tar for RHEL4

under /usr/local/vg_install/ATT_TTS

```
tar xvf server-linux-gcc346-TTS4.1.tar
```

It will add bin, data, and lib to the following previously created folder:

```
/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server
```

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Step 3: Install Voices

Ensure that the voices (crystal, mike, jan) in voice/en_us must are included in

```
/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/data/en_us
```

Step 4: Install es-us frontend

Under /usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server

```
tar xvf 3rd-party-data.tar
```

Step 5: Install es-us lib

Under /usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/bin

```
tar xvf 3rd-party-libs-gcc346.tar
```

Step 6: Install startup script

Place nv_tts_host_all under /etc/init.d as root.

Add the start script to inittab. (Optional)

Step 7: Place voices configuration file

Place the nv.cfg (in confog/nv.cfg) into

```
/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/data
```

Step 8: Place es-us configuration file

Place the es.cfg (under config/es.cfg) into:

```
/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/data/es_us/FreeLing
```

Configure the Server

Step 1: /usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/data/nv.cfg

Edit the voices configuration file (data/nv.cfg) to set the path of the Spanish frontend configuration file. Under the "Language es_us" section, the variable LanguageAuxConfig should be set to the absolute path to the "es.cfg" file.

LanguageAuxConfig

```
/usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/data/es_us/FreeLing/es.cfg
```

Verify that the voices configuration file has option "TextAnalysisLoad static" for section "Language es_us" -- this setting is required for acceptable speed of the Spanish language.

```
TextAnalysisLoad      static
```

Edit the voices configuration file (data/nv.cfg) to point to the correct data file names for each voice.

Step 2:

/usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/data/es_us/FreeLing/es.cfg

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Edit the Spanish frontend configuration file (data/es_us/FreeLing/es.cfg) to set the absolute path to each data file. If necessary replace path
"/usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/data/es_us/FreeLing/"
with the correct absolute path to the installed data files. Note that this MUST be an absolute path, not a relative path.

Install NaturalVoice4.1.x MRCP Direct

1. Install and deploy the Media Platform via SMC by following VG7 Installation Guide
2. Install NaturalVoice4.1.x MRCP Direct Server Product File

The following NaturalVoice4.1.x MRCP-Direct server product files should be installed via the Product Manager in the SMC. This package creates the necessary provisioning so that the TTS engine and different voices can be used.

NaturalVoice4.1.1 (general)	naturalvoices-tts-mrcp-client-4.1.1-0.tar
NaturalVoice4.1.1-voice	naturalvoices-tts-mrcp-client-xxx-4.1.1-0.tar.gz xxx represents a NaturalVoice Voice, it can be: alberto craig jan mike crystal rosa

3. Install Natural Voices TTS MRCP-Direct Server Manually (RHEL4)

Install Python 2.3

Install Python 2.3 if it is not installed. The RHEL4 operating system should have had Python.

Install nvmrpcd

Step 1: Install nvmrpcd

Place nvmrpcd.tar under

/usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/mrcp

If the mrcp folder does not exist, create one as pw.

Untar by running :

tar xvf nvmrpcd.tar

Make sure /usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/mrcp/nvmrcpd.py is an executable

Copy sysconfig_nvmrcpd

copy /usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/mrcp/sysconfig_nvmrcpd to
/etc/sysconfig as nvmrpcd

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copy /usr/local/vg_install/ATT_TTS/ATTNaturalVoices/TTS4.1/Server/mrcp/init.d_nvmrpcd to /etc/init.d as nvmrpcd

Step 2: Configure nvmrpcd

Modify /etc/sysconfig/nvmrcpd for Server IP address

It should be modified to set the IP address of the TTS server at line NVSERVER, for example:

```
# hostname/ip of NV TTS Server to connect to
NVSERVER=138.120.84.22
```

Step 3: start nvmrpcd

Run

```
chkconfig --add nvmrpcd
```

As result S99nvmrpcd is generated in /etc/rc3.d

Notes:

- The nvmrpcd script currently assumes the MRCP daemon is installed at "/usr/local/ATT_TTS/ATTNaturalVoices/TTS/Server/mrcp/". If this installation path is modified, the nvmrpcd script must also be changed to point to the correct path.
- The nvmrpcd scripts assume there is a directory beneath "NVROOT" called "run" -- this is where all runtime files and logs will be stored.
- All the folders starting from ATT_TTS onwards should be owned by pw NOT root.

Fixes

The following issues have been addressed in this release:

ER #	Summary
219185896	"Out of memory" error thrown after reboot while installing Watson and NV TTS - native setup