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About this Document

This document provides installation instructions for Cisco Virtualized Voice Browser ES file. It also contains a list of issues resolved by this ES. Please review all sections in this document pertaining to installation before installing the product. Failure to install this ES as described may result in inconsistent behaviour.

Supported VVB Version

This ES (ciscovb.1251.ES12.cop.sgn) is to be installed on VVB Version 12.5 **using CLI** only. Installing the ES on previous ESs will not create any repercussions.

Resolved Caveats

The details of the defects that are fixed in this ES are mentioned below.

Cisco VVB 12.5(1)ES12	
Bug ID	Description
CSCwa21718	VVB 12.5 Engine is converting Dialogflow response to lowercase
CSCwa28828	MRCPV1 is not working in VVB 12.5
CSCwa30185	VVB is sending GET-PARAM with com.cisco.initialAudio to Nuance
CSCwa47397	Evaluation of voicebrowser for Log4j RCE (Log4Shell) Vulnerability
Cisco VVB 12.5(1)ES11	
Bug ID	Description
CSCvz39792	When CUBE sending invite with a=inactive, CVP is responding with a=sendrecv or a=recvonly
CSCvz64566	VVB server crashing due to IPVMS
CSCvz64398	VVB Speech Server memory leak
CSCvz99738	ASR/TTS status flips between UNREACHABLE and REACHABLE when Nuance services are shutdown
CSCvy24297	Voicebrowser: WXM IVR survey fails with the errors in VVB
CSCvy73950	VVB hostname change fails if FQDN is used as hostname
Cisco VVB 12.5(1)ES10	

Bug ID	Description
CSCvw95369	Rare race-condition in VVB local disconnect where ENG thread is stuck
CSCvz01258	CLI command to set the flag com.cisco.voicebrowser.http.404.submitError=false
CSCvy80418	VVB not confirming to RFC standard when use POST method with multipart/form-data
CSCvy64825	VVB 12.5 max_file_size changed in ES08
CSCvy39534	VVB doesn't release TTS license in one specific scenario.
CSCvy66688	Failed INVALID_INPUT for VVB Template Deployment
Cisco VVB 12.5(1)ES09	
Bug ID	Description
CSCvx56287	CVVB File descriptor getting exhausted
CSCvy39529	Minor issue introduced by F5 load-balancer
CSCvx70738	VVB changing codec for midcall reinvoke
CSCvy30996	Same Call-ID on VVB with ASR leg
CSCvy25404	Does not include a separating blank line between each MIME part's headers and the body content
CSCvy13573	VVB Fails a VXML application with Java Null Pointer Exception
CSCvy03369	VVB should have feature similar to IOS "no vxml audioerror"
CSCvy16699	VVB to pass blank parameters
CSCvx89188	Cisco Virtualized Voice Browser Cross-Site Scripting Vulnerability
Cisco VVB 12.5(1)ES08	
Bug ID	Description
CSCvx69289	CVA calls are not working
Cisco VVB 12.5(1)ES07	

Bug ID	Description
CSCvx55818	VVB to pass diversion header value to vxml application
Cisco VVB 12.5(1)ES06	
Bug ID	Description
CSCvw35790	%UC_CONTACT_MGR-3-CONTACT_INVALID_STATE_ERROR: alarm thrown
CSCvw41659	VVB admin page shows a license expiry or none license package message
CSCvw72891	VVB is not able handle Rejections from TTS server.
CSCvw94240	Deadlock messages for calls over 2 hours causing application manager to go to a partial down status
CSCvu48063	VVB MRCP2 F5 load-balancer Integration session establishment issue
Cisco VVB 12.5(1)ES04	
Bug ID	Description
CSCw84242	DTMF not passed for by VVB with Bridge Transfer and VXML Server 11.6
CSCw50011	Unable to change VVB browser cache value
Cisco VVB 12.5(1)ES03	
Bug ID	Description
CSCw74227	Bargein Enabled Prompts were stopped because of background noise
CSCw74235	CVA Response Time is too long
Cisco VVB 12.5(1)ES02	
Bug ID	Description
CSCw10864	DTMF support in Flow1
CSCw10863	ENHANCED mode variant support
CSCvu67590	VVB doesn't trigger the hotlink
CSCvs36021	MRCPv2: Logging-Tag

CSCvt80236	sip trigger doesn't allow period as wildcard
CSCvu44291	error.unsupported.format error in custom VVB app
CSCvu76340	VVB not detecting digits, asymmetric Payload Type mismatch with Delayed Offer call flow
CSCvu79257	Incorrect MRCP message count length

Usage Guidelines

Cisco VVB 12.5(1)ES11

1. Speechserver logs by default captures only error scenarios. Enable all log levels using VVB Serviceability UI for call flow.
2. VVB VAD is used only for bargein of prompts along with interim responses from Google by default. VVB VAD for bargein of prompt can be disabled or enabled by using vadProp.Prompt.Bargein=true/false if needed. This requires VVB Engine restart for changes to take effect.

CSCvu76340

We have introduced the following CLI command that allows the customer to set and view the default dtmf Payload Type with Delayed Offer call flow:

Sample:

```
admin: set vvb call app dtmf-payload 100
Command successful.
```

```
admin: show vvb call app dtmf-payload
      dtmf-payload:100
Command successful.
```

CSCvy64825

The maximum size of file that can be cached is 28MB. However, Cisco recommends setting this value to 2MB to avoid initial file download latency and filling up of disk-space.

Sample:

```
admin: set vvb cache max_file_size 4000
Command successful.
admin: show vvb cache max_file_size
4000 KB
Command successful.
```

CSCvz01258

We have introduced the following CLI command that allows the customer to set and view the Boolean value to indicate whether bad fetch (404) error to VXML server is enabled/disabled.

Sample

```
admin: set vvb http client submit_badfetch_error true
Command Successful.
```

```
admin: show vvb http client submit_badfetch_error
true
```

Google NBest Implementation

Google NBest is supported after installing the ES12.

Conditions for Installing ES

Pre-Conditions

Make sure there is no previous ES in progress. Else, cancel it by running:

utils system upgrade cancel

Installing this ES will reset all custom SIPSubsystem.properties and VoiceBrowser.properties like ccb_disconnect_timeout, ringtone_timeout, ccb_intercept_timeout, ccb_reconnect_timeout, whisper_timeout. Thus, previous custom settings will be set to the default values and the customer needs to set them again. Identify your customized values for SipSubSystem and VoiceBrowser, if set earlier, by using the CLI commands like:

```
show vvb call app ringtone-timeout
```

Post-Conditions

Once the ES is applied, reboot the Cisco VVB. After reboot, verify from the Cisco VVB Appadmin that all services come to In-Service.

To restore customized values of Voice Browser, execute the platform CLI "set" command to change the default values of SIP SubSystem and VoiceBrowser properties. (Applicable only where the SIP SubSystem default values are customized to match the requirements.)

Dependencies for this ES

NA

Installing ES

This ES must be installed using CLI only, by running:

utils system upgrade initiate

Follow the instructions and provide the path of the ES. Do not close the terminal until the installation of ES is successful. Restart the machine after installing the ES.

Uninstalling ES

Follow similar process for installing the ES, but install the specific rollback ES for the version. The ESs have to be removed in the reverse order in which they were installed.