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About this Document

This document provides installation instructions for the Cisco Virtualized Voice Browser <mark>ES 13, and a list</mark> of issues resolved by this ES. Please review all sections in this document about installation before installing the product. Failure to install this ES as described may result in inconsistent behaviour of VVB.

Supported VVB Version

ES 13 (ciscovb.1251.ES13.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)ES13	
Bug ID	**Description**
CSCvy26437	VVB maintains JSESSIONID in its cookie coming from an external App and sends it in every post request
CSCwa44809	VVB doesn't release TTS license properly TTS session ramp up over 3-5 days
CSCvu67695	VVB: SNMP Host Resources Agent service Core Dumps generated (hostagt)
CSCwa45141	MRCP stats do not show when proxy is configured
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 reinvite
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
CSCvv41659	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
CSCvv84242	DTMF not passed for by VVB with Bridge Transfer and VXML Server 11.6
CSCvv50011	Unable to change VVB browser cache value

Cisco VVB 12.5(1)ES03

Bug ID	Description

CSCvv74227	Bargein Enabled Prompts were stopped because of background noise
CSCvv74235	CVA Response Time is too long
Cisco VVB 12.5(1)ES02	
Bug ID	**Description**
CSCvv10864	DTMF support in Flow1
CSCvv10863	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*. The VVB Engine needs to be restarted to apply the changes.

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 <mark>enabled or disabled</mark>.

```
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 installation 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, the 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 command:

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

Post-Conditions

Reboot the Cisco VVB after the ES is applied.

After reboot, verify from the Cisco VVB Appadmin that all the 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 a ==similar process of installing== the ES, but install the specific rollback ES for the version. The ES ==must== be removed in the reverse order in which it was installed.