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About this Document

This document provides installation instructions for Cisco Virtualized Voice Browser ES09. 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 behavior.

Supported VVB Version

This ES (ciscovb.1261.ES09.cop.sgn) is to be installed on VVB Version 12.6 **using CLI** only. Installing the ES on previous ES's will not create any repercussions.

Resolved Caveats

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

Cisco VVB 12.6(1) ES09	
Bug ID	Description
CSCwe91408	CD upgrade to 12.6.2 version Note: Please check usage guidelines before applying this ES.
Cisco VVB 12.6(1) ES08	
Bug ID	Description
CSCwc52424	SpeechServer Stopping due to JDK Crashing
Cisco VVB 12.6(1) ES07	
Bug ID	Description
CSCwd50351	VVB streaming doesn't work after 30mins
CSCwd13541	JasperException on VVB 12.6.1 ES05 while access trace profile settings.
Cisco VVB 12.6(1) ES06	
Bug ID	Description
CSCwc93693	Impact of Chrome deprecating Private Network Access on VVB.

Cisco VVB 12.6(1) ES05	
Bug ID	Description
CSCvy26437	VVB maintains JSESSIONID in its cookie coming from external App and sends it in every post request
CSCwb70515	CLI command "set vvb http client submit_badfetch_error true" throws "No valid command entered"
CSCwb98370	MRCPSpeechChannelImpl validateSession NullPointerException seen with VVB 12.6
CSCwc04444	VVB Streaming Music is failing
CSCwb50048	VVB caching Nuance URL causing calls to fail
CSCwc02895	VVB vmcore seen due to IPVMS crash
CSCvy64825	VVB 12.5 max_file_size changed in ES08
CSCwa45141	MRCP stats do not show when proxy is configured
CSCwa21718	VVB 12.5 Engine is converting Dialogflow response to lowercase
CSCwc35791	Retain customer configured CloudConnect and Proxy Configurations across VVB upgrades
CSCwa76530	TTS server status
CSCwc59032	VVB Not Releasing Nuance TTS Sessions
CSCvz99738	ASR/TTS status flips between UNREACHABLE and REACHABLE when Nuance services are shutdown
CSCwa28828	MRCPv1 is not working in VVB 12.5
CSCwa30185	VVB is sending GET-PARAM with com.cisco.initialAudio to Nuance - proactive
CSCwa88816	VVB Speech Server not processing DTMF for First Interaction with Google
CSCvz27014	Unable to reset application administrator password after upgrade from 12.5
CSCwb06756	VVB is not updating media streams (Rx and Tx) correctly in the SRTP to RTP fallback scenario
CSCvz90779	Engine throws NO_RESOURCE error without sending request to Speechserver
Cisco VVB 12.6(1) ES03	
Bug ID	Description
CSCwa47397	Evaluation of voicebrowser for Log4j RCE (Log4Shell) Vulnerability
CSCvz37282	No Data trimming and send everything google as received.
CSCvz37287	Disable false-bargein and Enhance VAD to generate barge-in event.
CSCvz32641	503 Service unavailable needs to be handled in the VVB code

CSCvz64398	VVB Speech Server memory leak
Cisco VVB 12.6(1) ES02	
Bug ID	Description
CSCvy03369	VVB should have feature like IOS "no vxmlaudioerror"
CSCvz64566	VVB server crashing due to IPVMS
CSCvy73950	VVB hostname change fails if FQDN is used as hostname
CSCvz39792	When CUBE sending invite with a=inactive, CVP is responding with a=sendrecv or a=recvonly
CSCvz33035	VVB Error System Entries Cannot be deleted
CSCvz01258	CLI command to set the flag com.cisco.voicebrowser.http.404.submitError=false
CSCvz64398	VVB Speech Server memory leak
Cisco VVB 12.6(1) ES01	
Bug ID	Description
CSCvy39534	VVB doesn't release TTS license in one specific scenario
CSCvy12144	VVB switching to SRTP after 15 min sessionrefresh SIP re-INVITE
CSCvy25404	Does not include a separating blank line between each MIME part's headers and the body content
CSCvy30996	Same Call-ID on VVB with ASR leg
CSCvy80418	VVB not confirming to RFC standard when use POST method with multipart/form-data
CSCvy39529	Issue introduced by F5 load-balancer fix in 12.0 (CSCvu48063)
CSCvy30206	VVB engine stops processing all calls in rare cases when it receives malformed SIP message (caffeine-stack)

New Features

The following changes have been included in ES05:

- As part of fix for cdet, CSCvy26437, there is a behavioral change.
 1. VVB stores the JSessionID for the request that is sent to any VXML Server for validating the session.
 2. It sends only the JSessionIDs related to a particular server for the call to validate the session. Prior to the fix, it used to send all the JSessionIDs that were maintained for the call, to all the servers.

- Speech server log4j-2.x Migration and default logging changes server default logging changes.

Note: To enable the default logs for Speech Server, set the *Trace Filter* setting to *XDebugging2* and click **Save**.

- Speech server does not have non-proxy hosts config in proxy settings currently, so we have added a cli command to set non-proxy hosts. All hosts added via this the traffic will not go via proxy to these hosts.

Below are the commands added:

```
set speechserver httpsProxy nonProxyHosts {parameter}
```

The parameter must be a single host or multiple hosts separated by comma.

```
show speechserver httpsProxy nonProxyHosts
unset speechserver httpsProxy nonProxyHosts
```

Sample:

```
set speechserver httpsProxy nonProxyHosts dialogflow.googleapis.com, localhost
```

Usage Guidelines

CSCwe91408

ES09 must be installed only if you are migrating from CVP 12.6(1) to 12.6(2) version to ensure compatibility. If this is installed along with CVP 12.6(1), it will cause UI compatibility issues.

CSCwd50351

We have introduced a new vxml property to configure http streaming timeout from call studio. The vxml property name is "com.cisco.voicebrowser.streaming.timeout" and value is in seconds. The default value is set to 1800 seconds.

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
```

CSCwc93693

The Private Network Access (PNA) Filter handles chrome PNA preflight request. By default, it is enabled. Use following commands to view/enable/disable PNA filter.

Sample

```
admin: set vvb http pna-enable
Command Successful.
admin: set vvb http pna-disable
Command Successful.
admin: show vvb http pna-status
true
```

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 command:

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

Post-Conditions

Once the ES is applied, reboot the Cisco VVB. After reboot, verify from the Cisco VVB App Admin 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.

Note: An ES rollback uninstalls all the previously installed ESs and brings VVB to the base release.