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About this Document

This document provides installation instructions for Cisco Virtualized Voice Browser ES05. 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.1262.ES05.cop.sgn) is to be installed on VVB Version 12.6.2 **using CLI** only. Installing the ES on previous ES's will not create any repercussions.

Resolved Caveats

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

Cisco VVB 12.6(2) ES05	
Bug ID	Description
CSCwj06971	VVB sends SRTP reply for ringback request on port 5060
CSCwf55306	Cisco VVB 12.6.1, call disconnect after 5 seconds
CSCwi69639	VVB 12.6.1-VVB unable to cache wav file during the transfer
CSCwi87134	SIP Headers not passed to DF-CX
CSCwj33374	VVB traceback and reload caused vmcore seen due to IPVMS
CSCwj36712	VVB Engine sends \"VBEventHandler::handleEvent event: error: UNKNOWN\" error to VXML application
CSCwj43058	VAV calls fail with Internal Error
CSCwj87296	Duplicate RTP Entries in 200 OK causing calls to fail
CSCwj72886	VVB Engine logs need to explicitly state if the 'No Resource' error is returned for MRCP or CCAI

Cisco VVB 12.6(2) ES04	
Bug ID	Description
CSCwi31734	HTTP request doesn't go out of VVB for 10s of seconds
CSCwi29713	VVB initialization got stuck post fresh install
CSCwi58513	VVB Speechserver heap goes OOM after continues hitting \"OUT_OF_RANGE\" error

CSCwh68998	VVB Stream not closing at set timeout value
CSCwe66429	VVB plays a silence stream after sending CUCM a REFER for the blind transfer
CSCwh63595	VVB Appadmin page became inaccessible due to Tomcat OOM
CSCwi61346	VVB 12.6.1 UNKNOWN_ALARM:Connection::close - Closing connection

Cisco VVB 12.6(2) ES03	
Bug ID	Description
CSCwh43295	VVB API Prompt Management is not working as expected
CSCwh62435	Transcribe/Dialogflow Intent element is unable to recognize all caller utterances.
CSCwh23974	Incorrect speechserver trace when DTMF is used
CSCwh21371	VVB Administrator and Serviceability are not up after upgrade to 12.6.2
CSCwh11185	Neural2/Studio voices don't work if only TTS functionality is used
CSCwh55406	Switches to Speech Server Mode instead MRCP
CSCwd52362	VVB Cookie handling needs to be enhanced to map domain to the request URL

Cisco VVB 12.6(2) ES02	
Bug ID	Description
CSCwf35130	CLI "show speechserver audioPacketSizeInBytes" not working
CSCwf83214	VVB 12.6 Remove Weak Cipher TLS_RSA_WITH_AES_128_CBC_SHA
CSCwf84081	VVB Not Responding to MRCP events properly received from Nuance ASR
CSCwf83531	VVB wrongly interprets fmt header from WAV file
CSCwf36954	VVB browser goes for fetch loop when caller presses digit during queuing
CSCwf92952	VVB Defaults to male voice when regardless of voice profile
CSCwf87601	VVB: HTTP Status 404 Not found message is displayed with the Tomcat version for port 9080.

CSCwh18670	The last prompt from DF CX does not play after installing 12.6(2) ES 01
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New Features

The following features have been included in ES05:

Feature	Description
Regionalized Media Support	Please refer to solution release notes and solution design guide of 12.6.2 for more details. This feature is supported from VVB 12.6.2 ES05 and CVP 12.6.2 ES15 onwards.

The following features have been included in ES04:

Feature	Description
AppD Upgrade	AppD version has been upgraded to 23.11.0.3839
VAV via Cloud-Based Connector	<p>VVB will use RTMS data centre. WXCC data centre will not be used.</p> <p>Please refer solution feature guide of 12.6.2 for URLs and port details.</p> <p>Note: There is no impact on feature and its functionalities</p>

The following features have been included in ES03:

Feature	VXML Properties
Recognize all caller utterances for Transcribe/DialogflowIntent element when spoken with pauses.	<p>Dialogflow.isFinalWaitTimeout(value in seconds)- This property considers caller utterances when spoken with pauses in specified duration. This is used as a wait timeout in a dialogue to allow processing if anything spoken and considered as an utterance by Google.</p> <p>“Final Silence” attribute for Transcribe or DFIntent Element value should be greater than or equal to the Dialogflow.isFinalWaitTimeout. If “final silence” triggers before isFinalWaitTimeout, then responses until then will</p>

	<p>be considered and isFinalWaitTimeout will not be honoured.</p> <p>Please refer to cdet, CSCwh62435, for more details.</p>
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Feature	Description
“DialogflowCX” Via VVB is enhanced for gracefully call handling during gRPC Error Scenarios	<p>The impact of this feature is:</p> <p>Any existing applications using DialogflowCX Via VVB need to be redeployed for Error Handling by Partner/Customer. Existing applications for redeploying need to use Call Studio provided, as part of ES. Mandatory Error exit state need to have graceful handle defined using the Call Studio.</p> <p>UCCE/PCCE existing upgrade process should be followed during the maintenance window i.e., VVB should NOT be upgraded prior to CVP. VVB – CVP need to be on the same version to support DialogflowCX Via VVB, newly introduced gRPC Error Handling Exit State for graceful call handling.</p> <p>Note: There is no impact for VAV Element Via Harness or any other applications.</p> <p>Sample application for “DialogflowCX” Via VVB link: https://github.com/CiscoDevNet/cvp-sample-code/pull/16</p>

The following features have been included in ES02:

Feature	Description
Cookie Handling	<p>Cookies handling in VVB is enhanced to map the domain to the request URL. This feature is disabled by default. To use this feature, execute the below CLI commands.</p> <p>To view, use command, “show vvb domain_cookie_support”</p> <p>Sample</p> <pre>admin: show vvb domain_cookie_support false Command successful.</pre> <p>To enable, use command, “set vvb domain_cookie_support enable”.</p> <p>Sample</p> <pre>admin: set vvb domain_cookie_support enable Command successful.</pre>

	<p>To disable, use command, “set vvb domain_cookie_support disable”.</p> <p>Sample admin: set vvb domain_cookie_support disable Command successful. Please refer to cdet, CSCwd52362, for more details.</p>
Custom SIP Headers	<p>This feature allows end customers to process custom or all SIP headers in their VXML application. SIP headers can be retrieved using the session variable, “session.com.cisco.proto_headers” in the VXML application invoked via subdialog element from Call Studio.</p> <p>Syntax: session.com.cisco.proto_headers[keyname]</p> <p>The SIP headers which needs to be restricted from being passed to VXML server can be added as comma separated list at application root level using the variable name "com.cisco.protoHeadersRestricted". Note: This was a IOS VXML and VVB parity gap.</p>
Inclusive Language Support	<p>In the VVB AppAdmin and VVB Serviceability pages, the exclusionary terms like master/slave and blacklist/whitelist are replaced wherever possible with primary/secondary and blocklist/permitlist.</p> <p>Logs for VVB Service's i.e., Engine, Web Services and others, all the occurrences of "master ", have been replaced, irrespective of its case to "Primary".</p>
Speech Recognition Model Variant Support for Google Dialogflow ES	<p>In DF ES, we can set the model variant in Call Studio using the custom VXML property, Recognize.modelVariant. It supports 3 values- USE_STANDARD, USE_ENHANCED and USE_BEST_AVAILABLE (default). Note: Set value as recommended by Google</p>
AppD Upgrade	AppD version has been upgraded to 23.6.0.34839.

The following changes have been included in ES01:

Feature	Description
Partial Response for CX via VVB	Partial Response Feature has been added for CX via VVB. Please refer the link for more details on the feature.

Partial Response for CX via VAV	Partial Response Feature has been added for CX via VAV. Please refer the link for more details on the feature. Please refer link for Sample application and details on VAV element
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Note- The behavior is the partial prompt will be stopped playing once the final response is received from Google.

Usage Guidelines

CSCwj87296

VVB will not support change of DTMF payload in mid call reinvite.

CSCwh55406

We have introduced a VXML property `com.cisco.localTranscribe` (value in Boolean) to give preference to MRCP Server, If the property is set to true, then MRPC server is used. By default, Google Transcribe is used.

CSCwf55306

As part of the fix, Record element will capture noise as valid audio input.

For more details about Record and its call-end using termination characters behavior, please refer to Element Specifications for Cisco Unified CVP VXML Server and Call Studio documentation.

Conditions for Installing ES

Pre-Conditions

Make sure there is no previous ES in progress; else, cancel it by running:
`utils system upgrade cancel`

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.

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.