

# **VoiceArtisan 2.1 Release Notes**

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## New Features in VoiceArtisan 2.1

### Signed jar Files

For this release, all new plugins added to the update site are provided as signed jar files.

 **Note:** To use version 2.1 of VoiceArtisan, you will need a new 2.1 license.

# System Requirements for the VoiceArtisan Bundle

## Operating Systems

- Windows 7 Professional 64-bit
- Windows 10 Professional 64-bit

## Hardware

To test a voice application on your computer, you will need a Vocollect wired headset.

We recommend you use a CMedia CM108 USB Virtual 7.1 Channel Sound Adapter for your headset. This adapter has been tested by Honeywell and is recommended for testing applications through VoiceCatalyst Emulator.

## Software

**Eclipse version 4.7.3a**

provided in zip file

**PyDev 6.2.0**

provided in zip file

**Java version 8 or higher**

not provided--you must supply

must be a 64-bit version to be compatible with Eclipse

# Installing the VoiceArtisan Plugin Independently

The bundle provided by Vocollect is the tested and supported version of VoiceArtisan. It is possible to install the VoiceArtisan and library plugins to an alternate Eclipse environment provided minimum criteria are met. Support and troubleshooting for environments other than the bundled zip will be limited.

- Eclipse minimum version 4.7.3a
- Java version required by the specific Eclipse version chosen
- PyDev exact version 6.2.0
  - This exact requirement is due to VoiceArtisan needing to tie into non-public PyDev API calls which are not guaranteed to be consistent in future versions.

## Installing the VoiceArtisan Plugin

1. Unzip or install Eclipse, currently at <https://www.eclipse.org/>
2. Install the Java version required by Eclipse.
3. Add the PyDev 6.2.0 update site under **Help > Install New Software > Add**.
  - a. Currently listed at <http://www.pydev.org/> as [http://www.pydev.org/update\\_sites/6.2.0](http://www.pydev.org/update_sites/6.2.0)
  - b. If the update site is available, the VoiceArtisan plugin will automatically install PyDev during the VoiceArtisan installation.
  - c. If the update site is taken down in the future, you may need to obtain the PyDev 6.2.0 drop-in files. See eclipse.org for information on how to deploy the drop-in.
  - d. If neither the update site nor the drop-in is available in the future, use the official bundle containing the prerequisite PyDev 6.2.0.
4. Add the VoiceArtisan Update site under **Help > Install New Software > Add**. This is located at Vocollect Voice Updates - <https://s3.amazonaws.com/update-site-2/>.
5. Working with the Vocollect Voice Updates site, install the Vocollect VoiceArtisan plugin.
  - a. This is currently unsigned content, click Install anyway to proceed with installation.
  - b. Restart.
6. Import a valid license under **Window > Preferences > VoiceArtisan > License**.
7. Install any examples, libraries, Voice Applications, and VoiceCatalyst Emulators\* from the Vocollect Voice Updates site

### Note:

The current VoiceCatalyst Emulators, versions 1.0.0 through 2.3.1, which include both the Python environment and an executable to run a project as a VoiceCatalyst Application, are only available for Windows environments. This prevents the ability to run anything that requires the voice API or mock\_catalyst module (which itself depends on the voice API in order to override it) on other operating systems.

It may be possible to run a MockCatalyst test file in the console, but not a project as a VoiceCatalyst Application, on other Operating Systems by:

1. Installing a general Python 3.1.2 and/or Python 3.6.6 installation, currently at <https://www.python.org/>
2. Configuring the Python installation for PyDev 6.2.0 in Eclipse under **Window > Preferences > PyDev > Interpreters > Python Interpreters > New.**
3. From a Windows installation of VoiceCatalyst Emulator, copy:
  - The stubbed contents of voice.py and its subpackages, under **VCE > vce/VocollectVoice/Lib**, when used by a VoiceArtisan VoiceApplication in the Project Explorer View.
  - mock\_catalyst.py from **VCE > System Libs.**
4. Create a new netadapters.py implementing a `get_adapters` function returning an empty dictionary.

This is a compiled extension created by Vocollect, used in the HTTP Library `udp-broadcast.py`.

# General Considerations and Limitations

## General VoiceArtisan IDE Limitations

<p><b>Do Not Add Update Site to Earlier VoiceArtisan Instances</b></p> <p>Do not add the new update site to an existing VoiceArtisan 1.x Eclipse environment. Dependency issues will result and you may be unable to install plugins from the old update site.</p>	
<p><b>VoiceCatalyst on Device Not Supported with A700x</b></p> <p>Running VoiceCatalyst on Device is not supported with the A700x.</p>	
<p><b>Viewing Error Markers</b></p> <p>A new setting in Eclipse for PyDev causes error markers to not show when the file containing the error is closed. To have the error markers appear even when the file is closed:</p> <ol style="list-style-type: none"><li>1. From the Window menu, select Preferences.</li><li>2. Select PyDev.</li><li>3. Select Builders.</li><li>4. Deactivate the Remove errors when editor is closed check box.</li></ol>	
<p><b>Python Debugger Not Stopping at Break Points</b></p> <p>On occasion, the Python debugger will not stop at break points. If this occurs, right-click the project you are running and select <b>Pydev... &gt; Remove *.pyc, *.pyo and \$py.class files</b>. This will ensure that during the next run, .pyc files are recreated with the appropriate break points.</p>	
<p><b>License Warning Does Not Appear</b></p> <p>If your license is nearing expiration and you start Eclipse and a VoiceArtisan-specific view does not have focus, you will not receive a warning that the license is about to expire. The message will only appear when you open a VoiceArtisan view or VoiceArtisan preferences.</p>	RBIRD-220
<p><b>Cannot Edit File Added to Project</b></p> <p>If you are using a source control system and have your voice application projects under team management in Eclipse, if you add a file to the project, you cannot edit that file. To edit the file, you must either add it to source control or change the file properties to remove the read only status.</p>	RBIRD-178
<p><b>Prompt to Save When Switching Between Run Configurations</b></p> <p>If you open an existing run configuration and click on the Device Properties or Project Properties tab without changing anything in those tabs, then click on a different run configuration, you will be prompted to save due to unsaved changes. Dismiss the message dialog box by clicking one of the buttons.</p>	RBIRD-232
<p><b>Install Microsoft Language Packs</b></p>	

<p>Note that if you are using a TTS in an Asian, East Asian or any right-to-left language, you must install the appropriate Microsoft language pack in order to properly view the characters.</p>	
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# Security Considerations

Developers should be aware of the following known security vulnerabilities in Python version 3.1.2 distributed as part of the VoiceCatalyst Emulators 1.0.0 through 2.3.1 for VoiceArtisan.

## Known Python Vulnerabilities

Issue	Summary	Discussion
VARTSEC-38	<p>Component xmlsec-java version 1.4.0 was detected in com.-vocollect.voiceartisan_2.1.0.201908230755.jar has 1 vulnerability.</p> <p>CVE: <a href="#">CVE-2013-6440</a></p>	<p>The (1) BasicParserPool, (2) StaticBasicParserPool, (3) XML Decrypter, and (4) SAML Decrypter in Shibboleth OpenSAML-Java before 2.6.1 set the expandEntityReferences property to true, which allows remote attackers to conduct XML external entity (XXE) attacks via a crafted XML DOCTYPE declaration.</p>
VARTSEC-43	<p>Simultaneous login session for single user is allowed in an application.</p>	
VARTSEC-39	<p>It is observed that file upload functionality in the application is not validating for malware/virus being uploaded. It is recommended to perform virus/malware scan when a file is being uploaded or else the target system/environment could get infected with malware.</p>	
VARTSEC-40	<p>It is observed that application is not validating files in side the compressed folder. Intruder can compress any type of file format (php, exe, jar...) and upload.</p> <p>Upload functionality is also not verifying the</p>	<p>It is recommended to verify the file size and type of file within compressed folder.</p>

Issue	Summary	Discussion
	size of file before being uploaded. The file space of the Web server could be exhausted by the attacker uploading a huge file. Tested with 2GB file.	
VARTSEC-32	It has been observed that MD5 hashing algorithm is used in the libraries. PFA POC	
VARTSEC-36	Component opensaml-java version 1.1 was detected in com.-vocollect.voiceartisan_2.1.0.201908230755.jar has 1 vulnerability. CVE: <a href="#">CVE-2013-4517</a>	Apache Santuario XML Security for Java before 1.5.6, when applying Transforms, allows remote attackers to cause a denial of service (memory consumption) via crafted Document Type Definitions (DTDs), related to signatures.
VARTSEC-42	It is observed that there is no server-side validation implemented for verifying input to create rules. It is possible to bypass client-side validation using proxy and enter random characters of no length restrictions.  Application is not validating the length and special characters of the input.	
VARTSEC-44	It is observed that Secure Flag is missing in the cookie	When a cookie is set with the Secure flag, it instructs the browser that the cookie can only be accessed over secure SSL/TLS channels.  This is an important security protection for session cookies.
VARTSEC-26	It has been observed that VoiceArtisan libraries HTTP, LUT/ODR makes use of ports	

Issue	Summary	Discussion
	<p>80,9001,15008,15009 . When the voice application runs on the Talkman device , it will open the respective ports for communication. Communication over these ports is not on secure channel.</p>	
VARTSEC-25	<p>It has been observed that web url used to pull the plugins from the cloud server is running over HTTP. PFA. POC</p>	
VARTSEC-22	<p>Validate URI inputs for injected URLs or attempt to use the URL to directly affect assets. Error output should not contain information useful to attackers.</p>	<p>An http parameter over {VoiceArtisan&lt;=&gt;WarehouseManagementSys:HTTP} may contain a URL value and could cause the [VoiceArtisan] to redirect the request to the specified URL. By modifying the URL value to a malicious site, an attacker may successfully launch a phishing scam and steal user credentials. Because the server name in the modified link is identical to the original site, phishing attempts have a more trustworthy appearance.</p>
VARTSEC-9	<p>Use strong password policy, secure channels used in authentication. Password/Authentication Policy and Management. Limit number of sessions a single user is allowed.</p>	<p>Store Salted Hashed credential (PBKDF2, bcrypt) or encrypt private keys. If possible use LDAP like technologies for storage. Have an account per user and associated process. Assure that authentication channel is secure, i.e.: local connection, SSH, VPN, or TLS. Implement a credential update policy i.e, change default PW, minimal length and mix of chars, change often, don't save PW in the clear. Document the password management configuration for the (preferably automatic) installation and the recommended settings in the Security Manual.</p>
VARTSEC-21	<p>Protect network connections from DoS; prevent resources from being consumed; a plan</p>	<p>Rate limit connections and data transfers to {VoiceArtisan&lt;=&gt;WarehouseManagementSys:HTTP}</p>

Issue	Summary	Discussion
	to recover from crashed systems as quickly as possible; system failures fail safe.	(if possible). Prevent the users of the [VoiceArtisan] from exhausting storage space, memory, network ports, processes or other resources. The Security Manual must specify backup, recovery, etc. policies and planning. Any DOS failure, especially a 'hung' system should fail safe and not allow damage to people or equipment.
VARTSEC-20	Protection of audit information, time stamps, non-repudiation in logs.	Log access to {VoiceArtisan} and other requests to assets, especially failed attempts to access any asset. Assure sufficient storage, indicate when near full or wrapped, programmatic access and centrally manage if possible
<p><b>Issue #11662: Redirect vulnerability in urllib/ urllib2. Bug report <a href="http://bugs.python.org/issue11662">http://bugs.python.org/issue11662</a></b></p>	<p>The urllib and urllib2 modules in Python 2.x before 2.7.2 and 3.x before 3.2.1 process Location headers that specify redirection to file: URLs, which makes it easier for remote attackers to obtain sensitive information or cause a denial of service (resource consumption) via a crafted URL, as demonstrated by the file:///etc/passwd and file:///dev/zero URLs.</p>	<ul style="list-style-type: none"> <li>• The bug could disclose sensitive information in the following scenario: In your Python program, suppose you are using the urllib module to retrieve a web page from a remote server and display it to the user of your program. Suppose that the remote server, instead of returning a web page to you, sends a redirect 302 HTTP response, and it redirects you to a local file in your environment. If that file contains sensitive information and you display it, the user of your program could see the sensitive information.</li> <li>• Notice, however, that nobody at the remote site (potentially outside the trust zone) can see the information, just the user of your program. For VoiceCatalyst, that would be the user of the mobile device with an attached display of some kind. For VoiceArtisan, it would only be the application developer.</li> <li>• In either case, the "attacker" or the recipient of the sensitive information would be an insider (either the developer of the app or a</li> </ul>

Issue	Summary	Discussion
		<p>mobile worker). Thus this is a highly unlikely and low-risk scenario, in addition to the fact that our device does not contain sensitive information files.</p>
<p><b>Issue #13703: Hash collision security issue. Bug report:</b>  <a href="http://bug-s.python.org/issue13703">http://bug-s.python.org/issue13703</a></p>	<p>Python before 2.6.8, 2.7.x before 2.7.3, 3.x before 3.1.5, and 3.2.x before 3.2.3 computes hash values without restricting the ability to trigger hash collisions predictably, which allows context-dependent attackers to cause a denial of service (CPU consumption) via crafted input to an application that maintains a hash table.</p>	<ul style="list-style-type: none"> <li>• Hash collisions can be exploited via denial of service attacks in web frameworks that automatically parse input forms into dictionaries.</li> <li>• As you can see in the discussion of the bug at the specified link, it is quite obscure and difficult to exploit.</li> <li>• It is unlikely that an attacker would bother to attack a Talkman device, but it is easily preventable by running devices on a security-enabled Wi-Fi network so the built in web server on the device is not accessible outside of your security realm.</li> </ul>
<p><b>Issue #14579: Vulnerability in the utf-16 decoder after error handling. Bug report:</b>  <a href="http://bug-s.python.org/issue14579">http://bug-s.python.org/issue14579</a></p>	<p>The utf-16 decoder in Python 3.1 through 3.3 does not update the <code>aligned_end</code> variable after calling the <code>unicode_decode_call_errorhandler</code> function, which allows remote attackers to obtain sensitive information (process memory) or cause a denial of service (memory corruption and crash) via unspecified vectors.</p>	<p>The bug is easily avoidable by using utf-8 encoding/ decoding in your application. It is the encoding we recommend and you can encode any localized text using utf-8.</p>
<p><b>Issue #20246: Buffer overflow in socket.recvfrom_into. Bug report:</b>  <a href="http://bug-s.python.org/">http://bug-s.python.org/</a></p>	<p>Buffer overflow in the <code>socket.recvfrom_into</code> function in <code>Modules/socketmodule.c</code> in Python 2.5 before 2.7.7, 3.x</p>	<p>In order to be attacked by the bug, an application running on the mobile device would have to be opening a raw listen socket and not an HTTP port. None of our library or example applications do this.</p> <p>If you need to create such an application, if</p>

Issue	Summary	Discussion
<a href="#">issue20246</a>	before 3.3.4, and 3.4.x before 3.4rc1 allows remote attackers to execute arbitrary code via a crafted string.	you run your devices in a secure Wi-Fi environment, no clients outside the security zone would be able to exploit the weakness.

## Known VoiceArtisan IDE Vulnerabilities

Issue	Summary	Discussion
VARTSEC-38	Component xmlsec-java version 1.4.0 was detected in com.-vocollect.voiceartisan_2.1.0.201908230755.jar has 1 vulnerability. CVE: <a href="#">CVE-2013-6440</a>	The (1) BasicParserPool, (2) StaticBasicParserPool, (3) XML Decrypter, and (4) SAML Decrypter in Shibboleth OpenSAML-Java before 2.6.1 set the expandEntityReferences property to true, which allows remote attackers to conduct XML external entity (XXE) attacks via a crafted XML DOCTYPE declaration.
VARTSEC-36	Component opensaml-java version 1.1 was detected in com.-vocollect.voiceartisan_2.1.0.201908230755.jar has 1 vulnerability. CVE: <a href="#">CVE-2013-4517</a>	Apache Santuario XML Security for Java before 1.5.6, when applying Transforms, allows remote attackers to cause a denial of service (memory consumption) via crafted Document Type Definitions (DTDs), related to signatures.
VARTSEC-20	Protection of audit information, time stamps, non-repudiation in logs Detail  Log access to {VoiceArtisan} and other requests to assets, especially failed attempts to access any asset. Assure sufficient storage, indicate when near full or wrapped, programmatic access and centrally manage if possible.	

# Previous Release Notes

## New Features in VoiceArtisan 2.0

### Data Collection Support

This release of VoiceArtisan includes support for data collection. This allows you to create tasks that send data that you choose to Honeywell, where it can be used to generate reports and insights.

### Support for A700x Devices

This release of VoiceArtisan includes support for the latest Vocollect devices, the A700x series.

 **Note:** To use version 2.0 of VoiceArtisan, you will need a new 2.0 license.

## New Features in VoiceArtisan 1.3.2

### Response Expressions Enhancements

This release includes enhancements that update the response expressions:

- when the recognizer is still waiting for the operator response
- when the operator speaks through a phrase without pausing
- when the operator speaks part of a phrase and pauses before finishing

Updating response expressions during these times allows for the recognizer to better adapt to an operators speech patterns and reduce insertions. See [About Response Expressions](#) for more information.

You can now use wildcard characters in response expressions to be used for adaptation, thereby eliminating the need to specify every combination of words that can be spoken. Now a developer can use an asterisk (\*) to match a single vocabulary item. Each asterisk must match exactly one recognized one vocabulary item to be considered a match. For example, if the user can say any alpha after a three digit check digit (for example, for a tote ID), the hint may be specified as "123\*". Wildcards can be specified in any position in the utterance, and there is no limit on the number allowed.

**Important:** Because of this feature, you can no longer use an asterisk as a vocabulary item.


For more information, see [Using Response Expressions](#) in the online help.

### Define Recognizer Sensitivity By Word

You now have the ability to adjust the sensitivity of specific vocabulary words by setting the parameter `BlueStreak_Decode_Sensitivity_<word>=<threshold>`. This enhancement is recommended for use to reduce insertions when operators speak infrequently used words, such as pass assignment, repick skips, and short product. However, it may also be used to increase the likelihood of acceptance for some words.


The default sensitivity threshold is 0. You can set this parameter to achieve the appropriate balance in recognizer sensitivity for specific words based on your application workflow:

- Increasing the sensitivity reduces insertions by requiring the recognizer to be more confident of what the user spoke. This makes the recognizer more likely to accept the correct word and ignore an incorrect word.
- Decreasing the sensitivity reduces repeating by enabling the recognizer to accept a word with less confidence thus reducing the likelihood the operator may need to repeat words. Decreasing sensitivity, however, may increase insertions and is typically not recommended.

 **Note:** When set, this parameter overrides the previously released `BlueStreak_Decode_Sensitivity` parameter, which sets a global threshold for sensitivity.

For example, to reduce insertions of the infrequently used vocabulary word "sign off," set the parameter `BlueStreak_Decode_Sensitivity_sign_off=2` to increase the sensitivity of "sign off." When an operator speaks "sign off," the recognizer will only accept the word and move on with the task if it has a higher level of confidence the operator actually spoke "sign off."

Voccollect recommends setting the threshold between 1.5 and 2 for infrequently used vocabulary words. This setting eliminates most insertions of the word while only having a minor impact to rejecting words that should have otherwise been accepted thus creating a balance of performance. A setting higher than 3 is likely to cause significant repeating and is not recommended. This parameter should be set within the default task package or added to the task package during implementation.

 **Note:** To further reduce insertions and repeating of specific words, the number of discrete repetitions during enrollment training can be increased to improve performance with a better voice template. The more times a word is trained, the more likely the recognizer will accept it when first spoken or ignore it due to other noises. To increase the number of iterations of a word during enrollment training, either modify the Embedded Training within the task package in VoiceConsole or update VoiceApplication settings within VoiceArtisan adding an additional row for each new iteration the operator should train of that word. In addition, for particularly problematic words, the operator may always retrain a word via the menu options to force a retrain with 10 iterations.

## Ability to Obtain Task Configuration

With this release, we added an API, `get_task_configuration()`, which returns the `config.xml` file in the task package in a DOM tree structure. See the VoiceCatalyst Emulator online help for more information.

## Rebuild the Last Prompt Spoken

When a user says "say again" or the application transitions from "sleep" to "on", the text that is spoken is the last TTS string that the application generated. The new APIs allow you to modify this remembered text or control whether a generated prompt will be remembered in the `lastPrompt` variable.

### `get_last_prompt()`

Returns the last prompt spoken string value

### `set_last_prompt(prompt_string)`

Set last prompt spoken string value

See the VoiceCatalyst Emulator online help for more information.

### **"Say Again" Processed by Voice Application**

With this release, if you add "say again" as a vocabulary item on a vocabulary link, it will be recognized and processed by the voice application.

### **Callback For Any Callable Object**

A new API, `set_event_callback(generic_callback, eventType)`, was added. You can now register a callback function for existing event types as well as the following new event types:

- Operator Load
- Device Sleep
- Device Wake up
- Locale Change

The voice API has also enumerated all supported event types. The enumerations begin with `EVT_`, for example, `voice.EVT_OPERATOR_LOAD_CB` for the operator load event.

## **Vocollect VoiceArtisan® Release Notes: Features in 1.3.1**

### **Updates to Support VoiceCatalyst 2.1**

This version of VoiceArtisan contains updates to support the development of applications on VoiceCatalyst 2.1. To support Croatian and Serbian TTSs, the Phonetics tab of the Voice Configuration Editor includes these two languages in the language drop down lists.

## **Vocollect VoiceArtisan® Release Notes: Features in 1.3.0**

### **Add Vocabulary from Python Code**

If you typed a new vocabulary item into Python code, you would also need to add it to the Vocabulary tab in the Voice Configuration Editor. You can now add vocabulary in a Python file directly to the project's vocabulary. For more information, see `../tasks/add_vocab_python.htm` in the online help.

### **Record and Playback for Creating Personal Voices**

Vocollect Personal Voices are high-definition human voices that are an alternative to the standard text-to-speech voices. Personal Voices can be created in VoiceArtisan through the record and playback functions.

The Voice Configuration Editor now has a Record/Playback tab that lets you enter any recorded audio files and the phrases they represent. You have the option to extract phrases from an existing properties file.

When the distributable file is created, these files will be transformed into the Vocollect Audio File format and compressed.

## Map Responses in Mock Catalyst

Mock Catalyst lets you type rather than speak responses to prompts. If you want to type different vocabulary items in response to prompts than those defined in the task, you can now map vocabulary items to words you would prefer.

## Library Dependencies

With this release, if you are extracting a VoiceArtisan application project to your workspace, you will be notified if libraries on which that application are dependent are not installed.

## User Interface Enhancements

The Phonetics tab of the Voice Configuration editor has been updated to let you remove a phrase from a single locale or from all locales by pressing buttons at the bottom of the tab.

The VoiceArtisan Libraries view can now be sorted by any of the visible columns by clicking the header of the column by which you want to sort.

## Fixes and Enhancements in 1.3.0

### VoiceArtisan Fixes

<b>UTF-8 Characters Read Properly</b> In the previous release, if your test file referenced a LUT response data file containing UTF-8 characters, it would not be read with the proper encoding. This has been fixed.	VSCVAIDE-25
<b>Correct "No Log Selected" Message Displays</b> Previously, if you attempted to create a script from the Voice Logs view, or if you tried to generate LUTs from that view, but no log file was selected, you would incorrectly receive a message prompting you to select a VCE instance. This message now correctly reads: No log file(s) selected.	VSCVAIDE-40
<b>Test Script Confirmation Now Correct</b> In the previous release, when you generated a script from a log file in the Voice Logs view, when the script was generated, the confirmation message would incorrectly read: Don't show this message again. This has been fixed; the message now reads: log_test.py generated successfully.	VSCVAIDE-32
<b>Project Name Mismatch No Longer Occurs</b> In the previous release, if the name of the project extracted into your workspace did not match the project name defined in the .project file and you ran Python unit tests, you would receive a key error. This has been fixed.	VSCVAIDE-33
<b>Progress Reported When Adding Library</b>	VSCVAIDE-34

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When you are adding a library to your VoiceArtisan workspace from the Libraries view, a progress bar is now displayed while the library is being added.	
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## Features in 1.2.0

### Support for Eclipse 3.7

You can now use Eclipse version 3.7 with the VoiceArtisan plug-in.

### Support for PyDev 2.6

With this release, support for PyDev 2.6 has been added.

**Important:** We have released new versions of VoiceCatalyst Emulator 1.0.0, 1.0.1, and 1.1.0 with the dependency on PyDev removed. If you want to upgrade to PyDev 2.6 and already have VoiceCatalyst Emulator installed, do one of the following:

- Install or upgrade the VoiceCatalyst Emulator versions before upgrading VoiceArtisan
- Uninstall the VoiceCatalyst Emulators, upgrade VoiceArtisan, then reinstall the VoiceCatalyst Emulator versions.

### Import .zip Files into Voice Logs View

With this release, you can import compressed (.zip) log files into the Voice Logs view in addition to clear text files.

### Full Method in Tooltip

Previously, when you hovered over a conditional link, a tooltip would appear, displaying the name of the method associated with the link. With this release, the tooltip also displays the method's code.

### Alternate Methods For Changing Plug-in to Project

Now you can do one of these in the VoiceArtisan Libraries view to extract a project from a downloaded plug-in library, voice application or example:

- Double-click on the plug-in
- Right-click on the plug-in and select Add as Project

These methods are in addition to the VoiceArtisan Libraries view's drop-down menu and the Add as Project toolbar button that existed in previous versions.

### Priority Prompts in Output

When you run MockCatalyst, the output in the Console view will now display <pp> at the end of priority prompts.

# System Requirements for the VoiceArtisan Bundle

## Operating Systems

- Windows 7 Professional 64-bit
- Windows 10 Professional 64-bit

## Hardware

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## Software

### Eclipse version 4.7.3a

provided in zip file

### PyDev 6.2.0

provided in zip file

### Java version 8 or higher

not provided--you must supply

must be a 64-bit version to be compatible with Eclipse

## Fixes and Enhancements in 1.2.0

### VoiceArtisan Fixes

In the previous release, you were unable to enter UTF-8 encoded characters into the Console view. This has been fixed. UTF-8 encoded characters are now accepted.	RBIRD-412
In the previous release, you were unable to import all of an operator's templates from VoiceConsole version 4.1. This has been fixed; you can now import templates from or export templates to VoiceConsole 4.0 or 4.1 (HTTP only) or 4.2 (HTTP or HTTPS).	VSCVAIDE-4

### Core Library Fixes

In the previous release, scanned data were not being cleared from the buffer, causing errors. This has been fixed.	RBIRD-407
The default timeout for digits has been changed from .600 ms to .700 ms. The default timeout for alphas and alphanumeric entries has been changed from .700 to .800 ms.	RBIRD-392
In the previous release, <code>prompt_digits_required</code> was prone to insertions. This has been fixed.	RBIRD408

## LUT/ODR Library Fixes

Fixed an issue that would cause the LED to be solid red and would cause the device to reboot.	
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## PyDev Fixes

In the previous release, setting a break point and running a voice application in debug mode would VSCVAIDE-9 cause an error when opening the file. This has been fixed in PyDev 2.6. For a full list of fixes in PyDev 2.6, see <a href="http://py-dev.org/">http://py-dev.org/</a>	
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# Features in 1.1.0

## VoiceLink Voice Application Now a Plugin

The VoiceLink application source can now be installed as an Eclipse plugin. Note that you must obtain a new license with the VoiceLink feature enabled to download this project. In addition, you must install VoiceArtisan 1.1.0 before attempting to download the VoiceLink voice application, or the download will fail.

## Project Selection in Export Wizard

If you didn't select a project before attempting to create a distributable file, the Export wizard will display a page containing a list of all VoiceArtisan projects in your workspace. You can select the project to export at this point.

## Wizard for Creating TaskBase Classes

The New wizard now has an option for creating an extension to the TaskBase class in the Core Library. The wizard lets you enter parameters and states that are then incorporated into the generated script. For more information, see the online help.

## Specify Version of VoiceCatalyst Emulator When Creating New Project

You can now select which installed version of VoiceCatalyst Emulator you want to use for a particular project in the New Project wizard.

Note that you can always change the version you are using for a given project in the project's properties or in the run configurations.

## Anchor Words for Digit Prompts

Currently, if the `max_length` parameter in a prompt is set to `None`, an anchor word (for example, "ready") is required. With this release, setting `min_length` or `max_length` to `None` causes an anchor word to be required. Setting `max_length` to `None` will also disable the timeout.

## Selected Filters Appear in Voice Device View

The filters you select to use for the Voice Device view will now appear in a pane to the right of the Voice Device view.

## Changes to the Project Properties Tab in the Voice Configuration Editor

Project properties are now inherited from referenced projects. We updated the Project Properties tab of the Voice Configuration Editor to indicate which properties came from your current project and which ones are inherited from referenced projects.

We also revised the user interface to make it easier to add properties and you can now search for a selected property in the source code.

## Fixes and Enhancements in 1.1.0

### VoiceArtisan Fixes

	<p>When you export a VoiceArtisan voice application, the process will no longer compile Python files. That is, the files in the voice application distributable will have a .py rather than .pyc extension. This will allow you to upgrade to a newer version of Python while maintaining compatibility with older versions.</p> <p>Note that if you use VoiceArtisan 1.1 and build the application for a 1.0 version of VoiceCatalyst and you select Unprotected, the Python files will be uncompiled.</p>
RBIRD-385	<p>In the previous release, special characters in XML data generated from log files were not being properly encoded, so the LUT/ODR Server was unable to properly parse the data. This has been fixed; special characters are now encoded properly.</p>
RBIRD-374	<p>In the Voice Logs view, Python script generated from log files included invalid vocabulary for responses. Invalid responses are now ignored.</p>
	<p>VoiceArtisan will now run on a 64-bit platform (Windows 7). To run the Eclipse version we provide, you will need to install a 32-bit version of the Java Runtime Environment.</p>
RBIRD-378	<p>Previously, the LUT Data File Generator in the Voice Logs view would misinterpret certain data in the log file, causing it to create incorrect LUT responses. This has been fixed.</p>
RBIRD-372	<p>Previously, the LUT Data File Generator in the Voice Logs view would create responses to ODRs. This has been fixed.</p>
RBIRD-364	<p>In the previous release, VoiceArtisan would terminate unexpectedly while debugging a voice application with multiple threads. This is an issue with the PyDev plugin that requires editing the PyDev code to work around the issue. This has now been fixed in the base VoiceArtisanEclipse.zip.</p>
	<p>In the previous release, the Voice Device view did not display the help message at the pick prompt even when the view was properly filtered to do so. This has been fixed.</p>
	<p>If a project references a library with an different version of VoiceCatalyst Emulator and the two versions of VoiceCatalyst Emulator are potentially incompatible, you will receive a warning.</p>
RBIRD-376	<p>With this release, if you delete templates from the Operator view in VoiceArtisan, the same template will be removed from its location in VoiceCatalyst Emulator so that you will be forced to retrain the template. In previous releases, you had to delete the template in both locations.</p>

	You will now receive a warning if a word you enter in the Embedded Training tab of the VoiceConfiguration Editor is not currently in the project's vocabulary items.
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### VoiceCatalyst Emulator Fixes

RBIRD-376	With this release, if you delete templates from the Operator view in VoiceArtisan, the same template will be removed from its location in VoiceCatalyst Emulator so that you will be forced to retrain the template. In previous releases, you had to delete the template in both locations.
RBIRD-391	In the previous release of MockCatalyst, if you returned from a global word to a node with a prompt, the prompt would not be spoken. This has been fixed; the prompt will now be spoken.
RBIRD-356	With this release of MockCatalyst, if you use the <code>open_vad_resources</code> function and the file is not found, an IOError will be thrown just as it is when running VoiceCatalyst on a device.

### General Library Fixes

RBIRD-386	With this release, each library has a uniquely named unit test package. This prevents conflicts caused when trying to import several packages with the same name.
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### Core Library Fixes

RBIRD-387	Previously, <code>dialogs.runner</code> did not work across multiple threads. This was fixed by moving the variable to the <code>TaskRunnerBase</code> class.
RBIRD-392	In the previous release, there could be recognition problems because the speech timeout would happen more quickly than it did with tasks developed in TaskBuilder. With this release, <code>BaseDialogs</code> defaults the timeout to 700ms, and the two alpha functions ( <code>prompt_alpha</code> and <code>prompt_alpha_numeric</code> ) are set to 800ms.
RBIRD-284	Previously, digit prompts would ignore scans after any digits were spoken or inserted. With this release, if scanning is done after digits are spoken, the digits are ignored and only the scan is accepted.

## Features in 1.0.1

### Localization

The VoiceArtisan and VoiceCatalyst Emulator user interfaces and the online help are available in Japanese.

### Copy Vocabulary into Voice Configuration Editor Phonetics Tab

With this release, you can copy all vocabulary added to a voice application into the Phonetics tab of the Voice Configuration Editor, so you don't have to enter each word into the phonetics user interface.

## **Enter Multiple Phonetic Substitutions for a Phrase**

The Phonetic Words tab in the Voice Configuration editor was redesigned. You can now add a phrase and enter phonetic substitutions for that phrase in all languages you want your voice application to support.

## **Headless Build**

You can now build VoiceArtisan voice applications using command line arguments or Ant. For more information, see the online help.

## **Export an Application Package for Testing**

With this release, you can export a project as a Mock Catalyst archive file that can be tested without a Talkman® device or the VoiceArtisan IDE. This may be helpful for testing a voice application against a WMS vendor's system.

## **New Device Support**

With this release A500 joins T5 and T5m in supporting the Vehicle Mount configuration. A500 devices can now be mounted to a vehicle, such as a forklift or pallet jack, and use the vehicle's battery to power the device.

See Vocollect's Hardware Documentation for more information.

## **Plugin Release Notes**

We have now included release notes for each of the plugins, so you can determine beforehand whether you want to download the update.

To access the release notes, in the Available Updates dialog box, select the plugin. In the Details section, click the More... link and select General Information.