
AUTOMATION ANYWHERE ENTERPRISE

11.2

Release Notes

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1 Document Purpose

This release note document for Automation Anywhere Enterprise (AAE) 11.2 describes new features, enhancements, and issues resolved in this major version release.

Refer the [Version Comparison Matrix](#) to get an enumerated list of new features for AAE 11 vis-à-vis 10.x.

2 Installation and Upgrade Notes

2.1 Installation Pre-requisites

- Refer to the *AAE 11.2 Client and Control Room Installation Guide* that is shipped with the product.
- Note that AAE 11.2 Client will ONLY work with AAE 11.2 Control Room. For Client-Control Room compatibility, please refer: [Control Room-Client compatibility matrix](#).

2.2 Installing AAE Client

Refer *AAE 11.2 Client Installation Guide* for steps to install AAE Client.

Follow the below mentioned steps to install AAE 11.2 Client, if installing on an earlier version:

- 1) Install the AAE 11.2 Client with the set-up file provided.
- 2) The installer will automatically uninstall the old version and install the new version.
- 3) The AAE 11.2 Client will point to the same repository path; thus, ensuring access to the Bots.

2.3 Installing AAE Control Room

Refer *AAE 11.2 Control Room Installation Guide* for steps to install Control Room.

Follow the below mentioned steps to install AAE 11.2 Control Room, if installing on an earlier version:

- 1) Uninstall the existing version of Control Room.
- 2) Install the AAE 11.2 Control Room with the set-up file provided.

2.4 Upgrading from earlier versions of AAE

AAE 11.2 Control Room provides a built-in migration tool that allows existing customers to migrate their data from earlier versions of AAE (viz. 10 SP2, 10 LTS) to AAE 11.2. For versions prior to 10 LTS (10.3), customers will have to undergo a two-step migration process – first upgrading to 10 LTS and then to 11.2. For more details, refer article on [Migration](#)

2.5 Version Compatibility

- TaskBot(s) created in earlier releases are compatible with this release.
- TaskBot(s) and MetaBots created/saved in this release shall not work if the product is downgraded to earlier versions.

For Example: TaskBot(s) created in the current version of AAE 11.2 shall not work in AAE 10 LTS. This is because of change in the bot obfuscation algorithm.

- MetaBot(s) created in earlier versions are compatible with this version; please check the [Control Room-Client compatibility matrix](#) for more details.

2.5.1 Control Room – Client Compatibility Matrix

Client Version ↓	Control Room Version →										
	10.0	10.0.1	10.0.2	10.1.0	10.2.0	10.2.1	10.3.x	10 SP2	11.0	11.1	11.2
10.0.0	√	√	√	√	√	√	√*	√*	X	X	X
10.0.1	√	√	√	√	√	√	√*	√*	X	X	X
10.0.2	√	√	√	√	√	√	√*	√*	X	X	X
10.1.0	X	X	X	√	√	√	√*	√*	X	X	X
10.2.0	X	X	X	X	√	√	√*	√*	X	X	X
10.2.1	X	X	X	X	√	√	√*	√*	X	X	X
10.3.x	X	X	X	X	X	X	√**	√	X	X	X
10 SP2	X	X	X	X	X	X	X	√	X	X	X
11.0	X	X	X	X	X	X	X	X	√	√	√
11.1	X	X	X	X	X	X	X	X	X	√	√
11.2	X	X	X	X	X	X	X	X	X	X	√

√* - From version **10.3 (i.e. 10 LTS)** onwards, MetaBots are stored as **Single File Format**, as opposed to the old folder based structure. Therefore, **MetaBots** created in **earlier versions cannot be directly used** with the 10.3.0 Control Room. They must be converted to Single File Format first and then used in 10.3.0 version.

√** - The Control Room version must be **equal or higher** than the Client version.

2.5.2 Products Compatibility Matrix for Upgrade

Following matrix shows products compatibility of Control Room, Bot Insight, IQBot, and BotFarm versions for upgrading to Control Room 11.2:

Control Room Version	Upgrade to 11.2	Bot Insight Version	Upgrade to 11.2	IQBot Version	Upgrade to 11.2	BotFarm Version	Upgrade to 11.2
8.x, 9.x	×	-	-	-	-	-	-
10.0.x -10.2.x	×	-	-	-	-	1.2	-
10.3.x	√	1.5.2	√	-	-	1.3	-
10.5.x	√	2.1	√	5.x	-	1.4	-
11.0.0	×	11.0.0	×	-	-	2.0	-
11.1.x	√	-	-	-	-	-	-

NOTE: “-“ indicates not available, “x” indicates not supported, and “√” indicates supported version.

3 Automation Anywhere Enterprise - Version Comparison Matrix

Control Room	Version 10	Version 11
Type	Web	Web
Hosting Technology	IIS	Java
Data Storage	SQL Database	SQL Database
User Interface	Standard Web UI	Rich and responsive UI Controls
Dashboard	Basic	Graphical, drilldown UI
Centralized Bot Deployment	√	√
Roles and permissions	√	√
Role based access control	√	√
Centralized licensing	√	√
Centralized Scheduling	Basic	Advanced with Repeat option
Credential Vault	Standard	Advanced with RBAC, Lockers
Operations Room	Standard	Detailed
Audit	Basic	Detailed with changes
Mode of Authentication	AD, non-AD	SSO, AD (with Kerberos), non-AD
Data Migration	Desktop Utility	Web-based tool
API based deployment	√	√
Load Balancing	√	√
High Availability mode	√	√
Version Control Integration	√	√
Multi Domain Support	√	√
Email notifications	√	√
Customizable help links	√	√
Bot Runner Session on Control room	√	√
Bot Deployment API	√	√
Workload Management		√
Bot Lifecycle Management		√
Bot Runner health check		√
Bot Login Credentials API		√
Configurable Password Policy		√
Support for SQL 2016		√
Create/Rename Folders in Control Room		√
Credential Vault API's		√
Data Migration API's		√
Bot Insight	Version 2.1	Version 11
Installer	Separate Installer	Integrated Installer
High Availability	√	√
Multi-Domain Support	√	√
Double byte data visualizations	√	√
Fluid Visualization Engine		√
Denser Dashboards		√
Better data caching		√
AAE Client (Bot Creator / Bot Runner)	Version 10	Version 11

Number of Commands	480+	480+
Ease of Use (drag and drop)	√	√
Recorders	Smart Recorder, Web Recorder, Screen Recorder	Smart Recorder, Web Recorder, Screen Recorder
MetaBot	√	√
IQBot	√ (Basic training)	√ (Centralized platform)
Online help	√	√
Packaging bot dependencies	√	√
Multi User support (Citrix/Terminal server)	√	√
Secure Recording	√	√
Integrated OCR engine	√	√
Bot Obfuscation	Basic 3DES	AES-256 algorithm
Dynamic Java Automation	√	√
AI Sense		√
Integrated Workbench		√
Quick command replication		√
Support for Windows 10		√
Support for Edge browser		√
Command-line Login to Client		√
Disaster Recovery of Bot		√
Runners		
Support for Windows Server 2016		√
Microsoft logo certification		√
Support for Japanese language		√
Folder support for MetaBots		√
Resolution independent IR		√
Auto mode in OCR		√

4 What's New in 11.2?

Automation Anywhere Enterprise 11.2 is a full production release with support for following new capabilities in addition to 11 LTS (11.1) features.

4.1 Control Room

1. Bot-wise migration support to migrate bots and schedules from 10.x to 11.x independent of roles and users
2. Rich set of API's published for Migration, Credential Vault and Bot Deployment features
3. Enhanced audit log for security and traceability
 - a. Audit of local bot run by Bot Creators and/or Bot Runners
 - b. Audit of bot deployment failure with specific reasons for failure
 - c. Audit of Control Room login failure with specific reasons for failure
 - d. Audit of RDP-based bot deployment
4. SVN+SSH protocol support for configuring Version Control System
5. Reset domain user credentials when it expires
6. Auto-login to Control Room with current Windows User credentials
7. Disable session time-out for continued access to Control Room
8. Export migration details to a CSV file
9. Role-based access to MetaBot Designer from AAE Client
10. Option to enable or disable passing of credential vault variables from TaskBot to MetaBot

4.2 Bot Insight

1. Support for secure PostgreSQL connection in the AAE Installer
2. Role-based access to all the Dashboards
3. Bot Insight API's to extract Operational and Business Analytics data

4.3 Client

1. Parallel installation of 2 versions of AAE Client on the same machine. Aids Migration
2. ABBYY OCR Integration
3. Object Cloning command is available for use in MetaBot Logics
4. Improvements in Settings file read/write to avoid corruption
5. Support to connect to multiple Control Rooms from a single Bot Creator/Runner machine
6. Support for Array Variables in Run-Task Command
7. Feature to Export Bot to an XML
8. Legacy Technology state retention in Object Cloning Command
9. Support for Ports in SOAP Web-Service Command
10. Support for Object Tag in Web Java Application Automation
11. Integrated SAP Plugin

5 Control Room

5.1 New Features and Enhancements

5.1.1 Bot-wise Migration

The web-based Migration tool in Control Room has been enhanced to provide bot-wise migration independent of roles and users migration.

- The 'Bots and Schedules' option in the migration wizard allows Control Room administrator to select specific Bots, MetaBots and files to be migrated from 10.x to 11.x.
- The user can choose to migrate MetaBots separately or can exclude the migration of MetaBots during bot migration.
- The user can choose to overwrite previously migrated bots in case the bots have been modified in 10.x post the last migration run.
- The dependencies of the selected bots and its schedules are migrated automatically.
- The user can choose to exclude 'Bots and Schedules' migration when migrating data role-wise and user-wise.

NOTE: The manual dependencies of the bots are also migrated automatically when migrating a bot from 10.x to 11.x.

5.1.2 Control Room API's

Following list of Control Room API's has been published for integration with other systems or scripting languages:

1. A set of API's required to deploy a bot and monitor its execution progress
2. A set of API's required to manage credentials and lockers in Credential Vault
3. A new permission 'View and edit ALL credentials attributes value' has been introduced which allows the user to retrieve and update credentials attributes value of other users via an API.
4. A set of API's required to migrate data from 10.x to 11.x Control Room
5. An API to migrate new or modified bots from 10.x to 11.x since the last migration
6. An API to retrieve list of all folders under 'My Docs' matching the bot name
7. An API to add or remove manual dependencies from a bot (Zendesk #92826)

Refer the 'AAE 11.2 Control Room API – User Guide' for more details on the API endpoints and usage.

5.1.3 Auditing of local bot run

A Control Room administrator can configure auditing of local bots run by Bot Creators and/or Bot Runners.

This means that whenever a Bot Creator or Bot Runner runs a bot locally from the AAE Client using any of the trigger, schedule, workflow or run action then an audit entry will be logged in Control Room.

This enables admin user to monitor if a bot is run locally by any of the Bot Creator or Bot Runner and to analyse if a bot deployed from Control Room has failed due to local bot run on these devices.

5.1.4 SVN+SSH support for VCS (Zendesk #61771,78876)

While configuring SVN for Version Control in Control Room, you can now connect to SVN using SVN+SSH protocol in addition to HTTP and HTTPS. Organizations requiring only SVN protocol for connection to their Version Control System can use this option for a faster and more secure processing of version control operations.

5.1.5 Reset Domain User Credentials (Zendesk #93155)

The Control Room administrator can now reset credentials of the domain user account which is used to configure Control Room with Active Directory authentication type. This feature enhances business continuity and avoids locking out of Control Room completely in the event when credentials of the domain user expires.

5.1.6 Auto-login to Control Room with current Windows credential

For Control Room configured with Active Directory (Kerberos) authentication type, the current Windows user can login to Control Room (via browser) directly without having the need to input the Active Directory

credentials. A Control Room administrator can enable or disable the auto-login settings to allow or disallow the Login dialog prompt for Active Directory users.

5.1.7 No Session time-out (Zendesk #82594)

The Control Room administrator can enable or disable the default 20 minutes session time-out of all the Control Room users. Disabling the session time-out will allow the Control Room users to continue using the same session even after long duration of an inactivity. This setting is applicable in all the three modes of authentication type viz. AD, SSO and Non-AD.

5.1.8 Export Migration details to a CSV file

The Control Room administrator can now export complete details of each migration run to CSV in addition to the statistics of the migration. The migration details will help the user to analyse, identify and reconcile the entities which are migrated, and which have failed.

5.1.9 Other Enhancements

1. The migration wizard has been enhanced to provide an option to input the shared repository path of 10.x Control Room from where the bots can be read and migrated to 11.x repository path.
 2. The migration statistics now includes a Skipped status to clearly identify the entities which are already migrated from 10.x. Thus, the count of all Passed, Failed and Skipped status determines the total number of entities that were selected for migration.
 3. While exporting bots through BLM, the Export Summary page clearly distinguishes between bots that are explicitly selected by user and dependencies of the selected bot which are automatically selected. This helps the user to know which additional dependencies will also get exported along with the selected bots and hence can take an informed decision whether to keep or remove any of these before exporting.
 4. When creating or editing a credential, the credential owner can add a maximum of 50 attributes to the credential. For credentials exceeding 50 attributes which are migrated from previous 11 LTS, the user must move them to a separate credential.
 5. The audit log for bot deployment action has been enhanced to display specific reasons of deployment failure instead of generic. This gives clear visibility to the auditor of Control Room to know why a bot deployment failed as opposed to giving a generic reason leading to confusion. (Zendesk #41515, 42776)
 6. For RDP-based bot deployment, a new audit action 'Bot Runner Session' will be logged to denote whether Control Room is able to get RDP of the Bot Runners used in the deployment.
 7. The access to MetaBot Designer from AAE Client is now controlled via a new system-created role 'AAE_MetaBot Designer'. A Control Room administrator can assign this role to only those Bot Creators who are authorized to access the MetaBot Designer. (Zendesk #82596)
- NOTE: When migrating users from 10.x or 11.1 to 11.2, all users having Bot Creator license will be assigned this role for backward compatibility.

5.2 Security

1. Passing of credential variables from TaskBot to MetaBot is now configurable from Control Room Settings. Control Room administrator can disable this setting to prevent assignment of Credential Vault variable to variables of MetaBot Logics. Full backward compatibility ensures all the old bots will continue to work seamlessly. (Zendesk #52685)
2. The audit log for login to Control Room action has been enhanced to show the exact reason of login failure. This improvement helps the Control Room admin determine whether the login failure is due to a brute force attack or due to genuine mistake on user's part. (Zendesk # 59595)

5.3 Bug Fixes

ZENDESK TICKETS#	DESCRIPTION
91294, 92112, 95942	Control Room v11.1 delivers version control only if SVN repository path is not more than two folder level
92071	Auto-login is not working for user even though it is enabled in Control Room
91813	Migration of sub-folders is not working as user is not able to drill down in repository folder
90841	Unable to install Control Room because all the HTTP ports are busy
89098, 90329, 90879	Unable to install Control Room because installer fails to connect to Remote PostGreSQL server
87293	Unable to launch CR 11 LTS after successful installation when port 8080 is occupied by licensing service
90639,92452,93155	Unable to change the username or password of the AD account which is used for LDAP integration with CR
88986	Control Room Installer fails to connect to SQL server on any port other than 1433
86817	Unable to delete the role and no error message is shown when some users are linked to that role
86743	Unable to migrate from 10.5 to 11 LTS when multiple users are encountered with the same username
N/A	Liquibase logs show the name of the authors of the module

6 Client

6.1 New Features and Enhancements

6.1.1 Parallel Installation of 2 versions of AAE Client on the same machine (Zendesk #78736)

Automation Anywhere Enterprise Client 11.2 can be installed in parallel with AAE 10.x Client.

This greatly aids in migration where the bot has to be tested on both versions of the Client before the machine is fully upgraded to 11.2.

A Bot Creator / Runner can test almost all the features of AAE Client including creating/editing bot, local schedules and deploying bot from Control Room. And as the repository of both the AAE Client versions is separate, there is no risk of accidentally overwriting 10.x Bots.

6.1.2 ABBYY Integration in AAE Client (Zendesk #47467, 70556, 84293, 96714)

AAE Client 11.2 has an in-built ABBYY OCR plugin. User can use all the powerful features of the industry proven and leading OCR engine within AAE.

For the ABBYY plugin to work, user must provide the path of the ABBYY license key and engine in the application config file. Please refer the help documentation for more details.

6.1.3 Object Cloning command availability in MetaBots

The Object Cloning command is now available for use in MetaBot Logics also. All the technologies and actions supported by Object Cloning are available in Logic also, without having to capture the entire screen of the application. Moreover, it also helps MetaBot in automating applications accessed over Chrome browser.

6.1.4 Improvements in Settings read/write (Zendesk #65601)

Big improvements have been made as to how the AAE Client Settings files (e.g. AA.Settings.xml) are read and written. These enhancements ensure that the AAE Client use is not hindered by corrupted Settings file.

6.1.5 Support to connect to Multiple Control Rooms

AAE Client 11.2 now supports connecting to multiple Control Rooms; one at a time. This hugely helps in scenarios such as -

- Uploading bots onto multiple instances of Control Room (e.g. uploading bot onto UAT Control Room once the Bot development is done) from the same Bot Creator
- Deploying bot from multiple Control Rooms onto the same Bot Runner for validation and testing purposes
- Switching to a different Control Room in case the primary Control Room is down for maintenance

6.1.6 Support for Array Variables in Run-Task Command (Zendesk #47869, 53935, 54396)

With AAE Client 11.2, it is now possible to pass the array variables from the Master Bot to the sub-bots using the Run Task command. This enables the Bot Creator to pass variables in bulk (instead of passing them individually) thus optimizing the bot and its performance.

6.1.7 Ability to Export Bot to an XML (Zendesk #54763, 60180, 82605)

AAE Client 11.2 now enables the user to export a bot to an xml format. This enables a bot creator to send an offline version of the bot for code (bot) review.

This feature is extremely important in BFSIs where bot review is part of Information and Security Compliance and the bot reviewers need to be absolutely sure that the bot does not have any secure information floating around.

6.1.8 Legacy Technology state maintained in Object Cloning Command (Zendesk #70534)

The 'Legacy Technology' check-box state is now stored with the Object Cloning Command. With this enhancement, the bot creator absolutely knows the technology with which the control has been captured.

6.1.9 Support for Ports in SOAP Web-Service (Zendesk #42748)

AAE Client 11.2 now supports automating a SOAP Web-Service via a particular port. The option for the same has been provided in the SOAP Web-Service command.

This enhancement enables the Bot Creator to test multiple ports of the same Web-Service where each port may cater to different environment; e.g. Development, UAT and Production.

6.1.10 Support for Object Tag in Web Java Application Automation (Zendesk #74849)

With the support for Object Tag in Web Java Application, AAE Client 11.2 can automate legacy applications such as Temenos Multifonds (specialist investment accounting and servicing software)

6.1.11 Integrated SAP Plugin

AAE Client 11.2 comes with a bundled SAP plugin. This means if you already have SAP enabled AAE license, you will be able to see the SAP BAPI Manager and the SAP Command within the tool out-of-box. By simply copying couple of dlls from the SAP Installation folder to the AAE Client installation folder, you are ready to automate your SAP Application. Please refer the help documentation for more details.

6.2 Bug Fixes

ZENDESK TICKETS#	DESCRIPTION
90927	Object Cloning is failing to capture table in Java Application
88959	Unable to install multiple JREs from command line, if AAE Client is not opened on users machine
80832	Object cloning command doesn't work as expected for web automation, after migration from AAE 9.x version
79497	Slow Response of Object Cloning in Playing back the actions Captured on JAVA Combo Box (10.3.6, 10.5.7)
84892	MetaBot- Add Screen function takes longer time to capture Oracle Application object
81329	MetaBot Performance is slow for Oracle Java based application
82332	Time taken to set text in Oracle ERP system increases as number of iterations increase
84183	"Each Row In An SQL QUERY Database" incorrectly runs the inner loop more than once
86515, 90464	API automation (RESTful calls) from BotRunner to Active Directory authentication gives a HTTP1.1/401 (authentication) error

ZENDESK TICKETS#	DESCRIPTION
73697, 76978, 83647	Auto login on Lock mode is not working in AWS environment
83901	Clipboard data is being shared between Bot Runners while using RDP based deployment from CR to different Bot Runners
87708	“Reactivation Threshold” value is not being honored when Work Queue gets triggered
92434	Not able to login to AAE Client through command line
90650	MetaBot Import dataset command doesn't set value of variables
87957	AI Sense is not working reliably while performing Get text on Internet Explorer window in XenApp environment
N/A	SSO Issue - 'OTP' error coming when user tries to login into AAE Client
87478,89758	User is sometimes not able to add data to Workload Management queue through Insert Workitem command
86761	Windows 10 system object cannot be captured from Calculator with Object Cloning
84892	MetaBot- Add Screen function takes longer time to capture Oracle Application object
85028	When using a DLL inside a MetaBot Logic, it doesn't finish the entire loop of running 1000 times
62236	MetaBot runs slower than Run script command of TaskBot