



# QAD YAB 1.12 Release Notes

## September 2020

These release notes include information about the latest YAB fixes and changes. These changes may affect the way you implement and use YAB.

QAD highly recommends that you implement the latest YAB release available. Check the QAD Web site to ensure you have the latest release notes, administration guide, and installation media:

<https://support.qad.com>

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# Release Notes for the Current Release

**YAB:** 1.12

**Date:** September 2020

**QAD Enterprise Applications Versions:** Enterprise Edition 2016 and later when installed with QAD Adaptive UX 2020.1.

## Upgrade Instructions

To install YAB 1.12, enter:

```
yab install yab-ee-image-[VERSION].zip
```

After installing yab-ee-image, ensure that your YAB client is updated by executing the script:

```
build/client/yab-client-update
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

### Improved Database Security Support

YAB 1.12 provides improved support for enabling Database Security on OpenEdge databases. This includes support for the creation and management of 4GL and SQL database users as well as the definition of table permissions.

Refer to the *QAD Configuration and Administration Guide* for YAB 1.12, the *QAD Security Administration Guide*, and yab help for additional details.

### Background Processing Support

YAB 1.12 provides support for the installation, upgrade, backup/restore, and maintenance of the new Background Processing functionality in Enterprise Platform. This includes supports for installing and managing the underlying technologies of Apache NiFi, Apache Kafka, and Apache ZooKeeper.

### Minor Enhancements

The following table contains additional, minor enhancements for this release of YAB.

**Table 1** Enhancements for YAB 1.12

QAD Issue	New Functionality	Prior Functionality
RFRD-3462	Data processing activities will temporarily disable triggers to update system data. The data processing activities often are scheduled before the trigger code is compiled.	Updates to tables with triggers would fail if triggers were not disabled and the trigger code could not be located.
RFRD-6832	The stock comment at the top of “build/config/configuration.properties” is retained if the first setting defined is merged out of the environment.	The stock comment at the top of “build/config/configuration.properties” was removed if the first setting defined was merged out of the environment.



**Table 1** Enhancements for YAB 1.12 (continued)

RFRD-8155	When restoring online backups, invalid daemon data is now purged after the restore has completed.	Previously, online backups included invalid daemon data from the source environment, which caused exceptions when attempting to restart daemon processes.
RFRD-8225	Added validation to ensure that all Tomcat configurations have at least one of the following options set to true:  # usehttp # usessl	There was no validation to ensure either usehttp or usessl was set to true.
RFRD-8278	centuryoffset used for QAD Configurator data is consistent with all other QAD products.	centuryoffset used for QAD Configurator was not consistent with all other QAD products.
RFRD-8375	When exporting Platform Extensions (app-export), if exporting to a directory that is reserved for use by YAB Extensions, an error is now displayed to the user.	Previously, Platform Extensions could be exported into the YAB Extensions directory, with the potential to cause errors.
RFRD-8403	The “env-info” command was reorganized to report additional information about the system and environment more clearly and the “info” command now displays the location and version of the YAB console (client).	n/a
RFRD-8415	A new option (-long) has been added to the “info” command to show the display name of packages rather than the package name when the display name is defined.	n/a
RFRD-8417	The Progress Java Open Client JAR files required for SSL connections to an application server are now deployed into the web applications that use the Progress Java Open Client and not into the Tomcat lib directory.  <ul style="list-style-type: none"> <li>• messages.jar</li> <li>• schema.jar</li> <li>• ext/sslj.jar</li> <li>• ext/cryptoj.jar</li> <li>• ext/certj.jar</li> </ul>	The Progress Java Open Client JAR files required for SSL connections to an application server were deployed into the Tomcat lib directory.
RFRD-8440	tomcat.default.sslport is now a well-known setting and will be set consistently throughout an environment.	tomcat.default.sslport was dynamically assigned and could change throughout an environment.
RFRD-8460	YAB automatically configures the CSS Help Path.	n/a
RFRD-8480	Added tomcat.INSTANCE.persistsession configuration setting to control whether Tomcat instance should persist session across restarts.  If set to false, session persistence is disabled.	YAB did not support the configuration of Tomcat persist session.
RFRD-8523	During a refresh, YAB now considers what changes (if any) have been made since the last refresh that might necessitate staging/re-staging. As part of this change, the location of the staging directory for some packages has changed from 'build/work/stage/' to 'build/work/stage-custom/' (example packages include alerts, eam & qadcss).	Previously, during a refresh, files were always staged/re-staged without considering what changes (if any) had been made since the last refresh. This added greatly to the refresh time.
RFRD-8545	The “environment-restore” process is divided into a “restore” and “sync” step to better support Progress “roll forward” recovery.  See: Environment Restore section of the <i>QAD Configuration and Administration Guide</i> .	It was difficult to use “environment-restore” and Progress “roll forward” recovery.



**Table 1** Enhancements for YAB 1.12 (*continued*)

RFRD-8548	Specifies a shutdown procedure for MFG and QRA Appserver when both of the following conditions are met.  # fincore-3.12.0.60 or higher # fin-bin64-qadfin-2020.1 or higher	MFG and QRA procedures did not have specified shutdown programs.
RFRD-8551	YAB now: <ul style="list-style-type: none"> <li>Automatically updates the records in AppServer Service Maintenance to support EAM/MSW-PSW Integration</li> <li>Supports the SSL option and direct appserver connection</li> </ul>	AppServer Service Maintenance records were not managed by YAB.
RFRD-8593	QAD TMS databases are created but never updated after creation. QAD TMS database processes are skipped after the initial database creation.	QAD TMS database was updated after creation.
RFRD-8598	Running dev-<instance>- dependency-update without any app specified now updates all package dependencies. You may also now update multiple apps in one command without updating all of them by using dev- <instance>-dependency-update <app> <app>	dev-<instance>-dependency-update <app> was the only option to update package dependencies, which had to be done one at a time.
RFRD-8610	Removed unnecessary wait time for Web Application status checks when an HTTP Error code is encountered.	Previously, when checking a Web Applications status (example command “webapp-webshell-started”), YAB would continue to interrogate the underlying application until it was started for the allotted timeout period. This introduced an unnecessary wait time for scenarios where an HTTP error code was returned, even though it did not make sense to try any further.
RFRD-8614	Updated code-locate command to support searching for files across all code instances.  See yab help code-locate	The code-locate command was only available at an instance level.
RFRD-8615	A new Control Process Execution option has been added. The request option (-debug-exit) can be useful when it is necessary to exit execution before or after a specific step.  See the Control Process Execution section in the <i>QAD Configuration and Administration Guide</i> .	Previously, it was possible to exit execution prior to a certain process step using (-debug-pause), however, it required user interaction after the initial command was run, which was impractical for some scenarios.
RFRD-8617	Additional Financial daemon properties are now configurable within YAB. Properties can be applied across all daemons or target specific daemons. Example: ‘fin.daemon.INSTANCE.user’.  See yab help fin.daemon. for available properties.	These properties could only be updated from within the QAD .NET UI client.
RFRD-8618	Managed Progress database users can be configured to only allow access from SQL clients (no ABL client access) by configuring “sqlonly=true” on the user.	n/a
RFRD-8660	The history output now includes the request identifier and some new useful options were added.  See: yab help history	n/a

**Table 1** Enhancements for YAB 1.12 (*continued*)

RFRD-8679	<p>A new Control Process Execution option has been added. The request option (-debug-start) can be useful when it is necessary to start execution before or after a specific step.</p> <p>See the Control Process Execution section in the <i>QAD Configuration and Administration Guide</i>.</p>	<p>Previously, it was possible to start execution prior to a certain process step using (-debug-pause); however, it required user interaction after the initial command was run, which was impractical for some scenarios.</p>
RFRD-8687	<p>No longer run idxcheck or idxfix against the archive database when performing audit archiving.</p>	<p>Previously ran idxcheck and sometimes idxfix against the archive database.</p>
RFRD-8697	<p>The administration of Progress database security has been restructured. The following per database processes secure databases in an update:</p> <ul style="list-style-type: none"> <li>• database-INSTANCE-users-update: Updates managed users and administrative permissions.</li> <li>• database-INSTANCE-permissions-update: Enables/Disables blank user login and applies table permissions.</li> </ul> <p>When the pre-existing setting “db.INSTANCE.security.user.managed” is enabled, YAB now manages users exclusively, creating, updating, and deleting users to match the configuration. This is the recommended approach to securing a database.</p> <p>See: yab config-help db</p>	<p>n/a</p>
RFRD-8715	<p>Moved Cassandra schema update implementation from using cqsh to using datastax Java drivers. Removes dependency on Python 2.7.</p>	<p>Previously, Cassandra schema update depended on Python 2.7.</p>
RFRD-8728	<p>There is a new installer option “install-conf-override” that can be configured as a request argument (-install-conf-override) or in the install.conf.</p> <p>When enabled, all configuration settings in the install.conf file are merged into the environment, even if the settings are already configured in the environment. The default behavior will merge all product settings and settings that are prompted for during an interactive install, but only merge other settings if they are not configured in the environment (that is, they are set to their factory default value).</p> <p>Enabling this setting restores the behavior of YAB prior to 1.11.</p>	<p>n/a</p>
RFRD-8731	<p>When a new version of a package is installed that no longer distributes a subcomponent package, the configuration for the subcomponent package is removed.</p>	<p>When a new version of a package is installed that no longer distributes a subcomponent package, the package would need to take special measures to remove the configuration for the subcomponent package.</p>
RFRD-8734	<p>Updated “environment-online-backup” to no longer stop MongoDB during the backup process.</p>	<p>Previously, MongoDB was stopped during an “environment-online-backup”.</p>

**Table 1** Enhancements for YAB 1.12 (continued)

RFRD-8742	<p>Measures were taken to avoid truncating the before image of connected databases during a compile and to reduce the impact of truncation when it must happen.</p> <ul style="list-style-type: none"> <li>The factory default values of 'db.qadcp1.bi' (compile database) and 'db.qadrcode.bi' (rcode database) were reduced to 512 (KB).</li> <li>A database will be connected with the read-only flag (-RO) and truncated only if the database is offline and does not have transparent data encryption enabled and the compile is multi-threaded (code.INSTANCE.threads &gt; 1).</li> </ul> <p>The 'code.INSTANCE.skipbeforeimagetruncation' setting is still available to disable BI truncation during the compile.</p>	<p>A database will be connected with the read-only flag (-RO) and truncated only if the database is offline and does not have transparent data encryption enabled, even if the compile is NOT multi-threaded (code.INSTANCE.threads &gt; 1).</p>
RFRD-8744	<p>Added support for the following properties event-service (profilePublisher.profileFetcher.concurrency, dataChangePublisher.messageGenerator.concurrency) via YAB configuration</p> <ul style="list-style-type: none"> <li>eventservice.publisher.profilefetcherconcurrency</li> <li>eventservice.publisher.messagegeneratorconcurrency</li> </ul>	<p>YAB did not support the following event-service properties</p> <ul style="list-style-type: none"> <li>profilePublisher.profileFetcher.concurrency</li> <li>dataChangePublisher.messageGenerator.concurrency</li> </ul>
RFRD-8746	<ul style="list-style-type: none"> <li>New 'db.INSTANCE.bipreallocate' setting to control whether the before image should automatically be reallocated after it is truncated. The default is true.</li> <li>The before image can be pre-allocated on demand with the command 'database-INSTANCE-bi-preallocate'.</li> <li>The 'database-INSTANCE-bi-preallocate' command is available even with the default cluster size of 4.</li> </ul>	n/a
RFRD-8750	<p>The process 'environment-offline-backup' no longer has a dependency on the QRA Application Server. Offline backups can now be executed when the environment is stopped.</p>	<p>Previously, the QRA Application Server had to be online prior to running an offline backup ('environment-offline-backup').</p>
RFRD-8780	<p>The following options are now included in the secondary database broker list:</p> <p>-cpinternal,-cpcase,-cpcoll.</p>	<p>These options were not available in the secondary database broker list:</p> <p>-cpinternal,-cpcase,-cpcoll</p>
RFRD-8784	<p>The QXtend startup parameters have been replaced with the Progress startup parameters.</p>	<p>QXtend owned its startup parameters.</p>
RFRD-8793	<p>Updated how the parameter 'Max Servers Per Broker' (-Mpb) is derived for the OpenEdge database startup script to avoid duplication.</p>	<p>Previously, when setting the OpenEdge 'proserve' parameters, duplicate 'Max Servers Per Broker' (-Mpb) values could be written to the database startup script. Note that this had no functional impact.</p>
RFRD-8800	<p>Added support for enabling SSL for QAD CSS.</p>	n/a
RFRD-8801	<p>QAD CSS database connections are correctly defined when database security is enabled.</p>	<p>QAD CSS database connections were not correctly defined when database security was enabled.</p>
RFRD-8806	<p>Support Tomcat SSL and AppServer SSL for QAD CSS deployment.</p>	n/a
RFRD-8835	<p>Provided support for searching archived YAB logs when using the history command.</p>	<p>Previously, only a single log file could be searched with the history command.</p>
RFRD-8842	<p>The before image of all databases is not truncated during an update, except under special conditions when compiling code.</p>	<p>The before image of all databases was truncated during an update.</p>

**Table 1** Enhancements for YAB 1.12 (continued)

RFRD-8845	The “configured” data snapshot has been enhanced to more closely match the behavior of the standard data snapshot to support more accurate comparisons.	The (-configured) option of the “dev-data-snapshot” command could be used to create a data snapshot consisting of the configured XML data and this could be compared with a data snapshot reflecting the data installed in the database to report on system data records that are configured but not installed yet as well as system data records that are installed but not configured. But this comparison was imperfect because the configured snapshot only included XML format data whereas the standard snapshots included data loaded from .d files as well as data loaded through alternative application interfaces.
RFRD-8887	The “metadata-export” command now supports a comma-delimited list of types to export with the (-type) option.	The “metadata-export” command only supported a single type to export with the (-type) option.
RFRD-8898	Provided a mechanism to allow webapp packages to distribute their own properties that integrate YAB's resource model to allow for referencing YAB properties.	Did not support this functionality.
RFRD-8912	The “metadata-validate” command now supports an (-appuri) option to validate a specific app when the “qad-enterprise-platform” version is greater than or equal to 3.14.0.43.	The “metadata-validate” command would always validate the QRA metadata of all apps.
RFRD-8932	Aliased ‘history-command’ to ‘history’ and added an option to ‘history’ (-init) that displays the initial environment creation commands.	‘history’ was an independent yab command.
RFRD-8944	We now detect when a database is removed outside of YAB.	Certain operations might not be reapplied if a database was removed outside of YAB.
RFRD-8971	A yab script validates that the Java version on the path meets the minimum prerequisites.	A yab script could be run with invalid Java versions, resulting in later errors.
RFRD-8990	The (-style) option was added to the “data-xml-diff” and “data-xml-patch” commands to provide support for diffing and patching XML data files where differences are represented in terms of complete entities (-style:entity). The default format (-style:compact) corresponds to the historical way that differences were represented in the product.	The diff and patch commands would represent differences in terms of individual field and record changes.
RFRD-9086	Webspeed servers support additional trim options like application servers. See: yab help webspeed-default-trim	Webspeed servers did not support the same trim options as application servers.
RFRD-9203	Factory default Java heap size provided for KMS.	No default heap size settings provided for KMS.

## Bug Fixes

The following table contains bug fixes for this release of YAB.

**Table 2** Defect Fixes in YAB 1.12

QAD Issue	New Functionality	Prior Functionality
RFRD-2556	Passwords with “!” can be entered during an installation.	Entering passwords that contain a “!” character during an install would put the installer in command mode.
RFRD-3845	@unique annotation correctly handles list values and ensures each entry is unique.	@unique annotation did not correctly handle list values when individual contributions consisted of multiple values.

**Table 2** Defect Fixes in YAB 1.12 (continued)

RFRD-7720	When extracting data using dev-data-snapshot / data-xml-dump, all records for a given standard entity are now extracted.	Previously the extracted data was filtered when being dumped. This limited the set of records that would be extracted during data extraction tasks.  The affected entities and the filters that were previously applied are: <ul style="list-style-type: none"> <li>• menus: not mnd_user1="devsrc"</li> <li>• generalized-codes: code_domain = "QAD"</li> <li>• service-support-crossrefs: cref_domain = "" and cref_ref_type = "mnpmfg" and cref_system=true</li> <li>• service-support-programs: mnp_domain = "" and mnp_prog_type = "mnpmfg" and mnp_system=true</li> <li>• transformation-functions: edtrf_qad_dsgn="true" or edtrf_qad_dsgn="yes"</li> <li>• program-information: not pgmi_origin="devsrc"</li> <li>• warehousing-algorithms: Domain="QAD"</li> <li>• master-comments: cd_domain="QADRSRV"</li> </ul>
RFRD-7768	It is not possible to clear the "Enterprise Edition" option when installing the Adaptive ERP.	It was possible to clear the "Enterprise Edition" option when installing the Adaptive ERP.
RFRD-7954	The Event Mover Batch size property has been renamed to 'eventservice.publisher.eventmoverbatchsize'. Backward compatibility has been taken into account.	Previously, the Event Mover Batch size property was eventservice.publisher.enventmoverbatchsize.
RFRD-8349	Improved documentation of process implementations.	n/a
RFRD-8575	Added additional verification steps for "report-update"; any underlying failures are flagged by YAB.	Previously, when running "report-update," if a Progress error was encountered, YAB did not highlight an issue with the build.
RFRD-8602	Installer validations are consistently applied in all scenarios.	Installer validations were inconsistently applied in some scenarios: <ul style="list-style-type: none"> <li>• Validations were not performed when the installer was run in headless mode (-install-ui:false).</li> <li>• Validations were not performed for questions with the "@optionstrict" annotation.</li> </ul>
RFRD-8634	The re-applied (configured) "connection user" is granted "Security Administrator" permission to remove the "connection user" restored from the database backup.	The command "database-security-apply" fails trying to remove the restored "connection user."
RFRD-8637	There is improved handling when kms.enabled is explicitly set to true.	Directly defining kms.enabled=true resulted in validation errors.
RFRD-8649	The "kms.server.port" can be changed by stopping KMS, reconfiguring KMS, and then running "yab kms-update".	The system may hang after reconfiguring the setting "kms.server.port", while validating an encrypted Tomcat keystore password.
RFRD-8652	Data processing activities temporarily disable triggers to update system data. The data processing activities often are scheduled before the trigger code is compiled	Updates to tables with triggers would fail if triggers were not disabled and the trigger code could not be located.
RFRD-8659	The 'history' command supports environments where 'appdir.logs' has been moved from the default location.	Relocating 'appdir.logs' caused the 'history' process to fail to find yab.log
RFRD-8661	NullPointerException no longer raised.	A NullPointerException may occur when the "database-INSTANCE-users-dba-update" command is executed when the database has a "sysprogress" user defined.

**Table 2** Defect Fixes in YAB 1.12 (continued)

RFRD-8684	Tomcat status now checks on SSL port first. tomcat._base.usehttp has now been set to true as default as opposed to per instance.	Tomcat status checked http port first and would not check SSL port if usehttp was set to true. Tomcat.INSTANCE.usehttp was set to true on a per instance level.
RFRD-8714	When 'bpm-qxtend-config-update' is run, the necessary application servers are trimmed.	When running 'bpm-qxtend-config-update', the necessary application servers were not automatically trimmed.
RFRD-8738	If the qxo-services-status fails, it will throw an error instead of reporting a status of stopped for the service.	The process would report a status of stopped, even if an error occurred and the actual state of the service was unknown.
RFRD-8755	Updated property 'filegen.qxtend-qgen.properties.propath' to use annotations in line with other properties of this type.	Previously, the property 'filegen.qxtend-qgen.properties.propath' was defined in a non-standard fashion.
RFRD-8808	Updated YAB to allow for non-standard data file names in packages.	Previously, installing the package 'i19es-app-2.4.0.1' failed when using the latest version of YAB due to a non-standard data file name.
RFRD-8866	ReplaceTokens.properties are now generated to a new location: build/work/system/processes/replace-token-file-update/ReplaceTokens.properties No longer gets removed when a refresh is run with the option "--clean-stages"	ReplaceTokens.properties was generated in the alerts-stage folder and was removed when a refresh was run with option -clean-stages.
RFRD-8869	Updated a number of factory default properties to use @append and @indexer annotations where deemed appropriate.	Previously, some properties were not easily updated as the factory defaults did not leverage @append and @indexer annotations.
RFRD-8876	Fixed the NPE error when qadcss.sso.enabled is set to true.	n/a
RFRD-8901	The algorithm responsible for locating packages has been optimized to favor local catalogs over remote catalogs with a preference for catalogs connected over the file protocol as opposed to the HTTP protocol. The net effect of this change is that packages that might have been downloaded previously will not be downloaded if they are available from a local catalog.	The algorithm responsible for locating packages would accept the first catalog with the package defined without evaluating the efficiency of the catalog with respect to other available options.
RFRD-8904	Added the qxevents database to the foundation bootstrap file. This guards against runtime errors when writing to the database from the Financials application server.	Previously, the qxevents database was not added to the foundation bootstrap file. Runtime errors would occur if the Financials application server tried to write to this database.
RFRD-8923	Added validation for WebSpeed Instances, if ws.INSTANCE.controllingnameserver is not specified, ws.INSTANCE.registernameserver must indicate that the broker does not need to register with a NameServer.	Previously, an empty value could be configured for ws.INSTANCE.controllingnameserver without explicitly indicating that the broker is not required to register with a NameServer.

**Table 2** Defect Fixes in YAB 1.12 (continued)

RFRD-8935	<p>New factory default values:</p> <p>kms.data.file=\${kms.base.dir}/kms-local.properties</p> <p>kms.init.file=\${kms.base.dir}/kms-init.properties</p>	<p>The factory default value of these configuration files has changed.</p> <p>From: kms.data.file=\${kms.backup.dir}/kms-local.properties</p> <p>kms.init.file=\${kms.backup.dir}/kms-init.properties</p> <p>To:</p> <p>kms.data.file=\${kms.base.dir}/kms-local.properties</p> <p>kms.init.file=\${kms.base.dir}/kms-init.properties</p> <p>The files will automatically be moved to the new location if they are found in the old location.</p>
RFRD-8975	<p>Added management of adminserver plugin property locations.</p>	<p>Previously, the adminserver plugin property locations had to be manually maintained outside of YAB.</p>
RFRD-8989	<p>Corrected the CSS webspeed startup parameter and let it use the qadcss bootstrap's parameter file (bootstrap.qadcss.parameterfile)</p>	<p>The CSS webspeed startup parameter was using the default bootstrap's parameter file incorrectly.</p>
RFRD-9010	<p>Corrected typo in dbserver.*.jdbc.encyptionmethod. Property defaults to the typo value for backward compatibility.</p>	<p>Property was incorrectly defined as dbserver.*.jdbc.encyptionmethod.</p>
RFRD-9024	<p>Updated netui-pro-update error logic to filter out OpenEdge warnings when parsing the response for errors.</p>	<p>Previously, when running netui-pro-update, warnings in the OpenEdge output could incorrectly prompt YAB to flag the build as failed.</p>
RFRD-9071	<p>Under rare conditions the Logi Platform Services component will temporarily return a 400 HTTP response code when its status is retrieved. If this occurs, another status check will be made instead of raising an error.</p>	<p>The "logi-platform-services-default-license-import" process may raise a "Bad Request (400) - Timeout Error: Data could not be loaded." error.</p>
RFRD-9072	<p>The Key Management Service (KMS) is not started when the environment is stopped.</p>	<p>In certain configurations, the Key Management Service (KMS) would be started when the environment was stopped.</p>
RFRD-9151	<p>daemon status is now included in yab status when either fin.daemons.manual is set to false or fin.daemons.status is set to true</p>	<p>daemon status was not reported in yab status.</p>
RFRD-9155	<p>YAB now generates Python scripts for controlling NiFi's process groups.</p> <p>The following properties have been added.</p> <ul style="list-style-type: none"> <li>nifi.default.script.processgroup.retries=5, which controls number of retry attempts when changing start/stop status of a process group.</li> <li>timeout.nifi.script=5000, which controls the amount of time to pause in between retry attempts.</li> </ul>	<p>Previously YAB did not generate Python scripts for controlling NiFi's process groups.</p>

# Release Notes for YAB 1.11

**YAB:** 1.11

**Date:** March 2020

**QAD Enterprise Applications Versions:** Enterprise Edition 2016, 2017, 2018, and 2019 when installed with QAD Adaptive UX 2020.

## Upgrade Instructions

To install YAB 1.11, enter:

```
yab install yab-ee-image-[VERSION].zip
```

After installing yab-ee-image, ensure that your YAB client is updated by executing the script:

```
build/client/yab-client-update
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

### KMS Tomcat Support

YAB 1.11 adds additional secure deployment features, including support for integrating Tomcat instances with the QAD Key Management Service. Sensitive data from the Tomcat `server.xml` file will be externalized and encrypted using the QAD KMS.

Refer to the *QAD Security Administration Guide* for additional details on secured configurations.

### Logi Platform Services License Management

YAB 1.11 adds support for the automatic generation and assignment of Logi Platform Services licenses. A Logi license is automatically generated and assigned when the following configuration is set to true:

```
logi-platform-services.INSTANCE.assignlicense=
```

### Logi Platform Services Upgrade Support

YAB 1.11 introduces support for Logi Platform Services service pack upgrades. The Logi Platform Services H2 database will be retained so no data is lost while the Logi Platform Services software is updated.

### Platform App Build

YAB 1.11 introduces new standards for the naming of Platform App development commands and package names. When a platform extension is packaged, the name of the package is the fully qualified name of the platform extension (namespace + app name). Commands to support developing the platform extension are derived from the platform extension app name. This change ensures consistency for platform development across environments.



## Enhancements

The following table contains additional, minor enhancements for this release of YAB.

**Table 3** Enhancements for YAB 1.11

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7125	A new configuration setting, db.INSTANCE.freezeschema, was introduced. If set to true, all tables will be marked as frozen after load regardless of the setting in the source .df file.	N/A	N/A
RFRD-7177	The 'info' command properly displays packages that are grouped by multiple packages.	The 'info' command did not properly display packages that were grouped by multiple packages.	N/A
RFRD-7243	Support was added for new OpenEdge 11.7 database startup parameters for capturing diagnostic data: <ul style="list-style-type: none"> <li>• -diagDir</li> <li>• -diagEvent</li> <li>• -diagEvtLevel</li> <li>• -diagFS</li> <li>• -diagFormat</li> <li>• -diagPause</li> <li>• -diagPrefix</li> </ul> The diagnostic parameters may be configured on "dbserver" instances. See yab help dbserver.diag.	N/A	N/A
RFRD-7294	Added 'config-new' command to print sample configuration settings to quickly get started defining new configuration instances.	N/A	N/A
RFRD-7396	The OEBPS admin username cannot be changed after the initial install.	Changing the OEBPS admin username resulted in database schema errors.	N/A
RFRD-7606	We now provide a configuration property to manage the WebuiAuthentication option in client-session.xml. No default value is provided, so previous settings still apply by default.	Previously, we provided no support for controlling the WebuiAuthentication option in client-session.xml.	N/A

**Table 3** Enhancements for YAB 1.11 (*continued*)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7770	<p>XML schema documents (XSDs) that are used during the management of XML data are now explicitly configured per entity and support versioning. The full search path for a matching xsd file is now:</p> <ul style="list-style-type: none"> <li>• Check known / configured schemas. Configuration is <code>dev-data.schemas.&lt;entity&gt;=/path/to/XSDfile</code></li> <li>• Check for an xsd file with matching name in same folder as data</li> <li>• Check the <code>&lt;datainstance&gt;.schema.dir</code></li> <li>• Check the <code>&lt;datainstance&gt;.schema.default.dir</code></li> </ul> <p>A new command, <code>data-xsd-dump</code>, is available to extract XSD file(s).</p> <p>Review “<code>yab help data-xsd-dump</code>” for further details.</p>	<p>XML schema documents (XSDs) used during the management of XML data were sourced by searching in <code>&lt;datainstance&gt;.schema.dir</code> and <code>&lt;datainstance&gt;.schema.default.dir</code> for a matching document, and the documents did not support versioning.</p>	<p>The method used to source entity XSD files has been updated.</p> <p>If an environment explicitly defines <code>&lt;datainstance&gt;.schema.dir</code> or <code>&lt;datainstance&gt;.schema.default.dir</code> to support customization of known entities, then the contents of these directories should be reviewed and compared against the <code>dev-data.schemas.&lt;entity&gt;</code> files.</p>
RFRD-7871	<p>We now support database security administrator configuration using the new property “<code>db.INSTANCE.users.NAME.securityadmin</code>.” The database connection user always has the security administrator role.</p>	N/A	N/A
RFRD-8068	<p>The YAB backup process will wait for up to 60 seconds for the database to be in a suitable state (online or offline and unlocked) before interacting with the database.</p>	<p>Backing up a Progress database would occasionally fail because the database was locked, where the lock was from a preceding call in the YAB backup process.</p>	N/A
RFRD-8152	<p>The new property “<code>platform-extension.workdir</code>” configures a common root location for platform extension packages.</p>	<p>Previously, you could not configure a common root location for platform extension packages.</p>	N/A
RFRD-8157	<p>Added a new process “<code>environment-backup-list</code>” to list environment backups.</p>	N/A	N/A
RFRD-8159	<p>Added (<code>-skip-key</code>) option to the ‘<code>config</code>’ command to only print the value of matched settings.</p>	N/A	N/A
RFRD-8160	<p>The Process Map configuration file (<code>servers/tomcat/webapps/pronav/WEB-INF/conf/process-config.xml</code>) contains correct values when the environment is secured.</p>	<p>The Process Map configuration file (<code>servers/tomcat/webapps/pronav/WEB-INF/conf/process-config.xml</code>) contained incorrect values when the environment was secured.</p>	N/A

**Table 3** Enhancements for YAB 1.11 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-8163	Web applications that use the OpenEdge Java Open Client use the JAR files from the configured OpenEdge installation to ensure that Progress patches are uniformly applied.	Web applications that use the OpenEdge Java Open Client would distribute their own JAR files.	N/A
RFRD-8167	The Audit database connection maintained through the Audit DB Maintenance (36.12.13.11) program will be set up with the credentials of the user configured by the “audit.user” and “audit.password” settings.	The Audit database connection maintained through the Audit DB Maintenance (36.12.13.11) program was always configured with an anonymous connection.	N/A
RFRD-8169	Service Connection Maintenance records are created and maintained for Data Collection (as-data-collection) versions 3.2 or higher.	Service Connection Maintenance records were not created nor maintained for Data Collection (as-data-collection).	If Data Collection is installed, review Service Connection Maintenance records and ensure all settings are as expected.
RFRD-8171	Support was introduced for importing Cassandra schema.	Previously, importing Cassandra schema was not supported.	N/A
RFRD-8213	Log messages are associated with a four character request ID. For example, 2019-10-25 11:24:10,338 DEBUG [main:4ecc] TomcatStatusCommand - Tomcat [/dr01/qadapps/systest/servers/tomcat-webui] IS NOT started on port 22011.	It could be difficult to determine the request that a log message was associated with when multiple requests were being processed at the same time. For example, 2019-10-25 11:24:10,338 DEBUG [main] TomcatStatusCommand - Tomcat [/dr01/qadapps/systest/servers/tomcat-webui] IS NOT started on port 22011.	Force a refresh (-r) to update the logging configuration file ‘build/config/etc/log4j.xml’ to show request IDs. yab -r
RFRD-8230	The customization of AdditionalContext.xml and AdditionalProfileTable.xml are supported in the customizations/qxtend/qxoserver/conf directory.	Previously, you could not customize AdditionalContext.xml and AdditionalProfileTable.xml in the customizations/qxtend/qxoserver/conf directory	N/A
RFRD-8261	A new property, scp-poller.INSTANCE.mode, supports on-demand mode for the VMI and Kanban pollers.  A new command, scp-poller-INSTANCE-ondemand-data-load, was added to start on-demand poller data processing.	N/A	N/A

**Table 3** Enhancements for YAB 1.11 (continued)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-8262	Added a new property, “scp-poller.INSTANCE.server-ui” for the scp pollers. When the property is configured, the property is set in poller.properties.	N/A	N/A
RFRD-8275	Logi Platform Services no longer need to undergo a migration step that involves copying out the database, performing a reinstall, and copying back in the database, when doing Service Pack updates.	Previously, a migration step needed to be taken to preserve the database and reinstall the application when a Service Pack update was performed.	N/A
RFRD-8290	When installing products from a shared catalog, packages will not be downloaded if they are already available in the local catalog.	When installing products from a shared catalog, all packages would be downloaded even if they were already available in the local catalog.	N/A
RFRD-8346	The command “action-center-dashboard-repair” can be used to repair dashboard information.	N/A	N/A
RFRD-8347	The “status” command shows the status of some web applications.	The “status” command only showed the status of the Tomcat instance and not the webapps deployed in the instance.	N/A
RFRD-8394	Settings that are overridden in an environment will not be updated during an install, unless the install prompts for the new value or the setting is explicitly set up to replace an overridden value.  The (-overrides) option has been added to the “config” command to show overridden settings.	All settings in an install were merged into the environment during the install.	N/A
RFRD-8446	When a platform extension is packaged, the name of the package is the fully qualified name of the platform extension (namespace + app name). Commands to support developing the platform extension are derived from the platform extension app name.	The package and command names associated with a platform extension were based on the name of the directory that contained the extension or an explicitly configured value.	Review any updated platform extension commands that have changed and update appropriate documentation/processes.
RFRD-8483	The (-nocompile) option only shows what r-code would be removed.	Orphaned r-code was removed when “code.INSTANCE.removeorphanedrcode” was enabled, even if the (-nocompile) option was used.	N/A

**Table 3** Enhancements for YAB 1.11 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-8509	The “system-id-regenerate” command assigns a new, unique identifier to the environment. The command can be used when an environment is copied to ensure that each copied environment has a unique ID.	N/A	N/A
RFRD-8513	A new “history” command has been added to report on YAB command history from the YAB log.	N/A	N/A

## Bug Fixes

**Table 4** Defect Fixes for YAB 1.11

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7212	Use the new (-install-background) option to run an install in the background.	If an install were run in the background, it would hang.	N/A
RFRD-7741	The backup process list no longer displays Cassandra and Mongoddb backup/restore processes when no Cassandra and Mongoddb instances are configured.	Cassandra and Mongoddb backup/restore processes were always in the backup process list.	N/A
RFRD-7790	Package downloads are now more resilient with status and retry/resume capabilities.	A network timeout while downloading a package was fatal.	N/A
RFRD-7992	A user is now required to define a web-application context when creating a new instance of a web application.	Previously, a user could create a web-application with a null/empty context.	N/A
RFRD-7998	Hidden files in the build/config/system directory are ignored.	Hidden files in the build/config/system directory raised validation errors.	N/A
RFRD-8012	Upgrading YAB does not disable QRF burst mode if it is enabled but not configured.	Upgrading YAB disabled QRF burst mode if it was enabled but not configured.	N/A
RFRD-8064	The “database-backup-remove” command now only removes Progress databases instead of all databases. “database-all-backup-remove” behavior remains the same and removes all backups.	Previously “database-backup-remove” removed more than Progress database backups.	If you were using “database-backup-remove” to remove all database backups, use “database-all-backup-remove” instead.
RFRD-8174	The “dev-app-export-backup-remove” command removes empty app-export-bkup folder.	Previously, an empty app-export-bkup directory would not be removed by the “dev-app-export-backup-remove” command.	If a backup is removed using the “dev-app-export-backup-remove” command and the parent directory ‘app-export-bkup’ is now empty, this directory will also be removed.
RFRD-8182	The Configurator Control table is properly populated after Configurator is installed.	The Configurator Control table was empty after Configurator is installed.	N/A

**Table 4** Defect Fixes for YAB 1.11 (*continued*)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-8191	The “database-INSTANCE-structure-update” command applies all changes to the configured structure file to the database.	The “database-INSTANCE-structure-update” command applied changes to storage areas of type ‘d’ in the configured structure file to the database.	
RFRD-8204	Configured QRF Printers are now required to have a defined UNCPATH. This value cannot be blank/null. Printer Objects with UNCPATH set to blank/null are maintained but no longer duplicated in the client-session.xml file when the webapp-homeserver-client-session-update process is run.	Previously, QRF printers were not required to have a defined UNCPATH. Printer Objects with UNCPATH set to blank/null were duplicated in the client-session.xml file when webapp-homeserver-client-session-update process was run.	Configured QRF printers are now required to have a defined UNCPATH. This value cannot be blank/null.
RFRD-8207	YAB now offers support for additional index rebuilding parameters. See: yab help progress.index.rebuild	Some IDXBUILD parameters were not supported.	N/A
RFRD-8212	Logging configuration for the qracore “logging-config.xml” file is retained after a qracore upgrade.	Logging configuration for the qracore “logging-config.xml” file could be lost after a qracore upgrade.	N/A
RFRD-8224	There is now enhanced help for the “audit.user” setting.	N/A	N/A
RFRD-8297	When Progress binary data is loaded, the temp directory (-T) is set to the value of the YAB “tmp” setting.	When Progress binary data was loaded, the temp directory (-T) was not set.	N/A
RFRD-8300	Spark slave default ports are now configured from the ports settings.	Spark slave default ports were configured to use a port with the dynamic-ports setting.	If you upgrade YAB on a running system, you will see that after upgrading YAB but prior to running a yab update, the Spark default slave ports are inconsistent with YAB’s configuration.  After executing a yab update, the Spark slave processes will be running on the newly configured ports. If any external systems reference the Slave Default URL, update them to use the newly configured port.
RFRD-8303	Host validation failure and user validation failure now fail the build, and the process reports a non-zero exit code.	Host validation failure and user validation failure aborted the build, reported a warning validation failure message, and the process reported exit code = 0.	Failure in host or user validation at the start of process execution now returns a non-zero exit code.
RFRD-8404	The timing of the Configurator function deployment is correct.	The order of deployment of the Configurator functions was incorrect.	N/A

**Table 4** Defect Fixes for YAB 1.11 (continued)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-8410	Database authentication can be turned off successfully.	Database authentication could not be turned off.	N/A
RFRD-8418	Password is now set correctly when connecting to the database to export sequences.	The error “Return code : 14” was returned when the system tried to process a schema change for a secured database with “allowunrecognizedschema” enabled.	
RFRD-8428	Improved validations on URL properties.	URL validation was inconsistent.	If new validation errors are raised, review and correct invalid URL properties.
RFRD-8433	The “maxThreads,” “minSpareThreads,” and “maxSpareThreads” Tomcat settings are preserved if they are not configured in YAB.	After upgrading, the manually configured “maxThreads,” “minSpareThreads,” and “maxSpareThreads” Tomcat settings could be lost if they were not configured in YAB.	N/A
RFRD-8455	The process to stop the Logi Platform Services data service (logi-platform-services-default-data-stop) is correctly stopped under all conditions.	The process to stop the Logi Platform Services data service (logi-platform-services-default-data-stop) might not correctly stop the data service because it is unable to find the process to stop. When this happens, the log contains the text “The Data Service Application pid is ‘None.’”	N/A
RFRD-8466	When multiple environments are installed on the same host, stopping the EAM job controller in an environment stops the job controller associated with the environment.	When multiple environments are installed on the same host, stopping the EAM job controller in an environment did not always stop the correct job controller.	N/A
RFRD-8487	Detect if commonly overridden scripts are implemented in Python. If not then do not run the scripts through the Python interpreter.	All standard scripts were run through the Python interpreter when “python.enabled” was true.	N/A
RFRD-8521	The “database-auditing-archive” command does not include the auditing database.	The “database-auditing-archive” command was designed to move records from all auditing-enabled databases into the archive database, but it included the auditing database as well, resulting in auditing records being deleted from the auditing database.	N/A
RFRD-8533	The factory default value of the “dbserver._secondary.params.filter” was adjusted to allow additional SQL-related parameters.	The factory default value of the “dbserver._secondary.params.filter” did not allow some SQL-related parameters.	N/A
RFRD-8564	The encrypted release of a product will satisfy requirements for the non-encrypted release of a product.	Installing a product that distributed encrypted code could fail if other system components required the non-encrypted distribution of the product.	N/A
RFRD-8608	Installing a legacy image into an environment in which one or more of its members is already installed does not cause an error.	Installing a legacy image into an environment in which one or more of its members was already installed failed with the error “The image [NAME] contains compressed and expanded packages.”	N/A

# Release Notes for YAB 1.10

**YAB:** 1.10

**Date:** September 2019

**QAD Enterprise Applications Versions:** Enterprise Edition 2016, 2017, 2018, and 2019 when installed with QAD Adaptive ERP 2019.

## Upgrade Instructions

To install YAB 1.10, enter:

```
yab install yab-ee-image-[VERSION].zip
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

### Secure Deployment

YAB 1.10 introduces support for a number of secure deployment features. These include the installation and use of a key management service for the encryption of sensitive data. YAB 1.10 also provides support for enabling OpenEdge database authentication and the configuration of table-level permissions on an OpenEdge database.

Refer to the *QAD Security Administration Guide* or enter `yab config-help db` from the command line.

### OpenJDK Support

YAB 1.10 has been certified with OpenJDK 8 for YAB functionality. Refer to the release notes for other QAD products for their compatibility and technical prerequisites.

### Logi Platform Services

YAB 1.10 introduces support for the installation and management of Logi Platform Services in a QAD Adaptive ERP 2019 environment. This includes the installation of Logi Platform Services, and the installation and configuration of QAD artifacts required for QAD Analytics.

YAB 1.10 provides support for the backup and restore of Logi Platform Services artifacts. These new processes are included in the `environment-online-backup/environment-offline-backup` and `environment-restore` commands. Refer to the *QAD Configuration and Administration Guide YAB 1.10* for additional details.

Refer to `yab help` for details of the commands and configuration options available.

```
yab command-help logi-platform-services  
yab config-help logi-platform-services
```

### Enhancements

The following table contains additional, minor enhancements for this release of YAB.



**Table 5** Enhancements for YAB 1.10

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-2907	Restart processes are available for all relevant servers.	n/a	n/a
RFRD-3333	When creating a new environment using 'release' data, the non-sys*.xml files are not loaded. This ensures demo data is not loaded into the clean environment.	When creating a new environment using 'release' data, a number of unnecessary xml data files (non-sys*.xml) containing records related to demo data were loaded to the environment. These additional records were not required in a clean system.	Release data environments will no longer contain system data from the demo data.
RFRD-5103	Multiple break points can be defined when using the debug-pause with the option -break.	Only a single break point could be defined.	n/a
RFRD-5676	EAM telnet password is set and encrypted.	n/a	<p>To support the encryption of the EAM terminal password, the runtime JDK must be updated to a version greater than Java 8u161, Java7u171 or Java 6u181 or unlimited policy in JDK must be enabled.</p> <p>Refer to the release notes from your Java provider for details.</p> <p>Refer to <a href="https://bugs.java.com/bugdatabase/view_bug.do?bug_id=JDK-8170157">https://bugs.java.com/bugdatabase/view_bug.do?bug_id=JDK-8170157</a> for background information</p> <p>To enable unlimited policy in JDK refer to Java Cryptography Extension(JCE) Unlimited Strength Jurisdiction Policy Files:</p> <p>Java 6 (only required for versions before Java 6u181):  <a href="http://www.oracle.com/technetwork/java/javase/downloads/jce-6-download-429243.html">http://www.oracle.com/technetwork/java/javase/downloads/jce-6-download-429243.html</a></p> <p>Java 7 (only required for versions before Java 7u171):  <a href="http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html">http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html</a></p> <p>Java 8 (only required for versions before Java 8u161):  <a href="http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html">http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html</a></p> <p>Extract the jar files from the zip and replace the same file under  <code>\${java.home}/jre/lib/security/.</code></p>
RFRD-5910	The -install-command option for yab install process supports a list of commands.	The -install-command option for yab install process supported a single command.	n/a

**Table 5** Enhancements for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-5984	A new process level setting (always) supports configuring commands that should always be processed even when the request has failed.  See the “Error Handling” section in the <i>QAD Configuration and Administration Guide</i> .	n/a	n/a
RFRD-6421	Three new properties are available to configure Financial daemons <ul style="list-style-type: none"> <li>• fin.daemon.INSTANCE.debuglevel</li> <li>• fin.daemon.INSTANCE.propath</li> <li>• fin.daemon.INSTANCE.extraparams</li> </ul>	n/a	n/a
RFRD-6650	Database directory, host and server (port) settings in 36.12.13.11 (Audit DB Maintenance) are managed by YAB. Settings used are controlled by the database referenced with “audit.archive.database”.	n/a	n/a
RFRD-6844	UDF files deployed under customizations/fin/udf will be automatically detected and processed.	n/a	n/a
RFRD-7127	New configuration options are available to configure the bpm database user. See yab config db.bpm.users.* for details.	n/a	n/a
RFRD-7185	The env-info command includes the webui.proxy.url related information.	n/a	n/a
RFRD-7191	A new command, “system-context-processes” was added to list context-aware processes.	n/a	n/a
RFRD-7235	The dev-data-snapshot command has a new (-configured) option to create a snapshot consisting of the currently configured XML format data that can be compared with other snapshots that reflect data in the databases. Another option (-exclude-translations) was added to exclude translation data from a snapshot to avoid translation data distributed in “.d” format from clouding the comparison.	These options did not exist.	n/a

**Table 5** Enhancements for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7239	Added (-rec) and (-recfile) options to the data-xml-patch and data-xml-load commands to patch selected records from an XML data file and load selected records from an XML data file.	n/a	n/a
RFRD-7324	When a datastore is unconfigured it is removed from the system.	An unconfigured datastore was not removed.	n/a
RFRD-7360	Process cassandra-update is a part of yab reconfigure. After changes are applied, Cassandra must be restarted for them to take effect.	Process cassandra-update was not part of yab reconfigure.	n/a
RFRD-7374	All compile instances have a command “code-INSTANCE-md5” to print the MD5 value of sources associated with the r-code files.  See: <a href="https://documentation.progress.com/output/ua/OpenEdge_latest/index.html#page/dvref/compile-statement.html">https://documentation.progress.com/output/ua/OpenEdge_latest/index.html#page/dvref/compile-statement.html</a>	n/a	n/a
RFRD-7405	Added support to remove schema scheduled for deletion by the QAD Enterprise Platform.	n/a	n/a
RFRD-7420	YAB supports deployment of ‘sharedobjects’ and optionally configuration of the runpath on the deployed sharedobjects.  Execute yab config-help sharedobject for further details.	n/a	n/a
RFRD-7426	Deployment of Corticon rules in an SSL-enabled instance of BPM is supported.	n/a	n/a
RFRD-7443	QXtend calculated fields functionality can be enabled with the setting qxtend.calculatedfield.enabled.  See yab help qxtend.calculatedfield.appserver for additional details.	n/a	n/a
RFRD-7449	YAB will throw hard errors when Cassandra cannot be started within a certain time. The timeout is controlled by timeout.cassandra.start.INSTANCE.	Cassandra used its own properties to manage its timeout settings.	n/a

**Table 5** Enhancements for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7523	yab-i19 module is installed by default.	yab-i19 module was only installed if a certain set of i19 solutions (i19-th, i19-ko or i19-my) was installed.	When running yab info -all, yab-i19 will now be listed as a member of yab-ee-app.
RFRD-7562	Support installation of QXtend on AIX.	QXtend installation on AIX was not supported.	n/a
RFRD-7563	Enable QXtend webapps to support SSL-enabled OpenEdge appserver	n/a	n/a
RFRD-7582	For new installations of 2019EE, database connections will be made in a pf file at startup rather than at runtime using a bootstrap.xml. See option bootstrap._useparameterfile for additional details.	Database connections made at runtime were defined in bootstrap xml files	None if upgrading. For new 2019EE installs, database file permissions no longer need to be open for all users.
RFRD-7653	Environment variables specific to Tomcat instances can be defined.  For example: tomcat.INSTANCE.env.NAME.key=ENVVARIABLE tomcat.INSTANCE.env.NAME.value=envvarvalue  The defined variables are set as environment variables in the generated tomcat control scripts.  For example: os.environ['ENVVARIABLE'] = r"envvarvalue"  To unset an environment variable, define a key without a corresponding value.	n/a	n/a
RFRD-7687	Added an (-errors) option to the system-context-info command to focus on showing a detailed view of integrity violations.	n/a	n/a

**Table 5** Enhancements for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7692	If a qad-webshell update includes an updated version of WEB-INF/config/logback.xml, the updated version replaces the existing version.	If a qad-webshell update included an updated version of WEB-INF/config/logback.xml, the updated version did not replace the existing version.	WEB-INF/config/logback.xml defines logging configuration. After an update, any manual configuration to this file will be overridden.  The following configuration may be used to prevent this file from being overwritten:  webshell.logback.update=false  If using this setting the differences between \${packages.qad-webshell.dir}/qad.webshell/webapp/WEB-INF/config/logback.xml  and  \${webapp.webshell.dir}/WEB-INF/config/logback.xml  should be reviewed after update.
RFRD-7803	Configuration available for global-max-size and paging settings in Artemis broker.xml in Event Service. The new properties are: <ul style="list-style-type: none"> <li>• eventservice.jms.page-max-cache-size</li> <li>• eventservice.jms.page-size-bytes</li> <li>• eventservice.jms.address-full-policy</li> <li>• eventservice.jms.global-max-size</li> <li>• eventservice.jms.max-size-bytes</li> </ul>	n/a	n/a
RFRD-7819	The connection between the Web UI and .NET UI is automatically configured by generating a Client ID/Secret for communication from the Web UI to the .NET UI, populating the QRA settings qad-qracore.netui.jwt.clientId and qad-qracore.netui.jwt.clientSecret, when the settings are not already configured by the user.	Setting up the connection between the Web UI and .NET UI required manual configuration.	n/a
RFRD-7850	New property available for Event Service eventservice.publisher.forcefetc hselector	n/a	n/a

**Table 5** Enhancements for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7884	<p>Environment variables for Kafka and Zookeeper may be set through yab configuration.</p> <p>Execute the command yab help kafka.env or yab help zookeeper.env for detailed information.</p> <p>For example the following are the default key/value pairs to set KAFKA_HEAP_OPTS:</p> <pre>kafka.default.env.heapopts.key=KAFKA_HEAP_OPTS kafka.default.env.heapopts.value=-Xmx512M -Xms256M zookeeper.default.heapopts.NAME.key=KAFKA_HEAP_OPTS zookeeper.default.heapopts.NAME.value=-Xmx128M -Xms128M</pre>	n/a	n/a
RFRD-7999	YAB supports enabling SSL on the Tomcat server used for QAD Alerts.	YAB did not support enabling SSL on the Tomcat server used for QAD Alerts.	n/a
RFRD-8134	Default value of entityPublisher.entityFetcher.concurrency decreased to 2	Default value of entityPublisher.entityFetcher.concurrency was 5	Processing of large numbers of EventService records may be slower due to the reduction in threads used. If necessary, review and update the YAB configuration for the number of threads used eventservice.publisher.entityfetcherconcurrency.

## Bug Fixes

**Table 6** Defect Fixes for YAB 1.10

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-2496	The fhd-update process is forced to reload help field with -clean option.	The fhd-update process was skipped to reload help field with -clean option.	n/a
RFRD-2988	\$USER variable is set in client scripts if not defined in the session executing the script.	When \$USER variable was not set, incorrect parameters were used in client script.	n/a
RFRD-3062	-show-all option added to code-locate. code-locate prints out the first 5,000 results by default. If the total number of results exceeds 5,000. -show-all option prints all results.	code-locate printed out all the results by default.	n/a
RFRD-6846	Input parameters in 'bootstrap-update' process are validated.	An exception was raised by bootstrap update when the 4GL host was not configured.	n/a

**Table 6** Defect Fixes for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-6853	Management of <code>jmxremote.password</code> file enhanced when shared with multiple application in Cassandra.	Cassandra update would remove or reset the <code>jmxremote.password</code> .	n/a
RFRD-6933	Added a new property, <code>conv.errorcodes.excludes</code> to provide an option to ignore certain Progress error codes. The default contains a code of '512' that is the error code that is output when connecting with 'no-integrity' enabled. <code>conv.errorcodes.excludes=512</code>	When executing the conversion-pre-ee-upgrade with 'no-integrity' enabled, Progress would output the following line when connecting to source DBs <code>*** This session is being run with the no-integrity (-i) option. (512)</code> When determining if a conversion step had succeeded, YAB treated the output as an error.	n/a
RFRD-7141	<code>bpm-infra-realm-deploy</code> re-executes if any of the following are changed: <ul style="list-style-type: none"> <li><code>dbserver.qaddb.sql.host</code></li> <li><code>dbserver.bpm.sql.host</code></li> <li><code>dbserver.qaddb.sql.port</code></li> <li><code>dbserver.bpm.sql.port</code></li> </ul>	<code>bpm-infra-realm-deploy</code> did not re-execute when the following were changed: <ul style="list-style-type: none"> <li><code>dbserver.qaddb.sql.host</code></li> <li><code>dbserver.bpm.sql.host</code></li> <li><code>dbserver.qaddb.sql.port</code></li> <li><code>dbserver.bpm.sql.port</code></li> </ul>	n/a
RFRD-7149	<code>yab validate</code> correctly connects to all databases.	<code>yab validate</code> returned an error connecting to some of the databases.	n/a
RFRD-7158	<code>eam-jobcontroller-stop</code> trace messages are not shown in debug logging.	Logs were displaying <code>eam-jobcontroller-stop</code> trace messages instead of debug logging.	n/a
RFRD-7164	Exception raised when <code>wsa</code> connection fails.	<code>wsa</code> connection failure did not fail the build.	n/a
RFRD-7272	A previous backup is removed if an existing backup with the same tag exists.	Previous backup file/directory was not removed when creating a new backup with the same tag.	n/a
RFRD-7279	The exception "Failure during <code>regenerateOids</code> . Initial Value Segment has exceeded its limit of 4194304 bytes" is no longer thrown if the 'regenerateOids' option is used when loading large datasets.	The exception "Failure during <code>regenerateOids</code> . Initial Value Segment has exceeded its limit of 4194304 bytes" was thrown if the 'regenerateOids' option was used when loading large datasets.	n/a
RFRD-7290	<code>tomcat.default.lib.ssl.includes</code> is defined with <code>@append</code> annotation.	<code>tomcat.default.lib.ssl.includes</code> was not defined with <code>@append</code> annotation.	If <code>tomcat.default.lib.ssl.includes</code> has been set in configuration, review the value of this property after upgrade and adjust as needed.
RFRD-7304	Timeout configuration is provided for Cassandra startup and an exception is raised if Cassandra startup fails.	Failure to start Cassandra did not raise an exception.	n/a

**Table 6** Defect Fixes for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
RFRD-7378	When the BPM lang properties file (such as QAD_bpmportal_it.properties and psv_it.properties) does not have writable permission, the bpm-infra-configuration-update does not fail.	When the BPM lang properties file (such as QAD_bpmportal_it.properties and psv_it.properties) did not have writable permission, the bpm-infra-configuration-update would fail.	n/a
RFRD-7383	system-clean process will not raise an exception if the target directory does not exist.	system-clean process failed if target directory did not exist.	n/a
RFRD-7415	Default value defined for dbbackup.compress, mongoddbbackup.compress and cassandrbackup.compress	The mongoddbbackup.compress referred to a non-exist property.	n/a
RFRD-7421	CHUI login validation succeeds even if the CHUI header information is customized, as long as the login succeeds.	Validating a CHUI login failed if the CHUI header information was customized, even if the login succeeded.	n/a
RFRD-7429	An exception is raised when QXO services are not started successfully.	Some QXO services errors did not fail the build.	n/a
RFRD-7432	An exception is raised if the number of database connections is over the maximum when stopping the EAM job controller.	If the number of database connections exceeded the maximum, the EAM job controller did not raise an exception until exceeding the max waiting time.	n/a
RFRD-7438	“yab update” will not fail after changing the bpm connection password. No exception is raised when opening bpm in a .NET UI client.	“yab update” would fail after changing the bpm connection password before YAB 1.9. Exceptions were raised when opening bpm in a .NET UI client in YAB 1.9 and after.	n/a
RFRD-7445	netui-pro-compile no longer raises an exception if executed during a conversion of a TDE-enabled database.	netui-pro-compile raised an exception if executed during a conversion of a TDE-enabled database.	n/a
RFRD-7447	The configured (user/password) must have permission to call Web UI APIs but does not require login permission. Because of this the validation is no longer run automatically as part of the “validate” command.  The validation can be run explicitly:  yab -exec:user=com.qad.yab.ee.validations.WebuiLogin validate	Validating the Web UI login with the configured (user/password) credentials failed when the configured (user/password) was not granted permission to login to the Web UI.	n/a
RFRD-7458	YAB ensures the Progress Admin Server is started before any Progress databases in all configurations.	In certain configurations, the Progress Admin Server might be started after the Progress databases.	n/a

**Table 6** Defect Fixes for YAB 1.10 (continued)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-7507	kafka-update, zookeeper-update, and spark-update are a part of YAB reconfigure.	kafka-update, zookeeper-update, and spark-update were not a part of YAB reconfigure.	n/a
RFRD-7508	Upgrading through yab-ee-image will now quarantine yab-conv-pre-ee instead of disabling it.	Previously, yab-conv-pre-ee was disabled when upgrading via yab-ee-image-1.6+.	n/a
RFRD-7535	All requests in a prepared context use a refreshed context where prior package and configuration changes are retained.	A request in a prepared context that uses the last known configuration may lose prior package and configuration changes made in the context.	n/a
RFRD-7543	EAM telnet option configuration provided. Use “yab help qadeam.telnet” to see more detailed information.	YAB did not have an EAM telnet option configuration.	n/a
RFRD-7553	YAB surgically updates the ModuleInfo attribute values when doing an app-export, and leave the rest of the file as it was. YAB only generates the file if it does not exist at all.	Previously when doing an app-export, the generated module-config.xml was overwritten by subsequent app-exports. This led to lost changes when adding additional elements to the file.	n/a
RFRD-7607	The daemon config files are deleted when the corresponding YAB settings are removed.	Orphaned daemon config files were left over when the corresponding YAB settings were removed.	n/a
RFRD-7633	When enabled, a new setting (tomcat.INSTANCE.cleanworkonstartup) deletes the contents of the “work” directory in ‘tomcat.INSTANCE.base’ before the instance is started.	The setting did not previously exist.	n/a
RFRD-7635	The parameters “-ssl”, “-keyalias”, and “-keyaliaspasswd” are applied to a secondary login broker.	The parameters “-ssl”, “-keyalias”, and “-keyaliaspasswd” were not applied to a secondary login broker.	n/a
RFRD-7636	Renamed tables and sequences are handled correctly when a database has “allowunrecognizedschema” enabled. The old table/sequence name is renamed to the new table/sequence name.	Renamed tables and sequences were not handled correctly when a database had “allowunrecognizedschema” enabled. The old table/sequence was retained and a new empty/initialized table/sequence was created.	n/a
RFRD-7675	YAB will redeploy bpm-infra-processes-deploy after changes to the admin user and admin password of the QAD database server.	YAB did not run bpm-infra-processes-deploy when the admin user and admin password of the QAD database server changed.	n/a
RFRD-7676	Using client-qgen to generate docs no longer causes an error.	An error would occur when using client-qgen to generate docs due to a PROPATH related issue.	n/a

**Table 6** Defect Fixes for YAB 1.10 (continued)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-7704	dbserver.bpm.maxusers will inherit from the dbserver._base.maxusers when it is greater than or equal to 75. Otherwise the dbserver.bpm.maxusers will be set to 75.	The dbserver.bpm.maxusers was not inherited from dbserver._base.maxusers and was hard coded to 150.	n/a
RFRD-7732	The allocation of ports through Web UI configuration (i.e. qad-qracore.spark.ui.port) is recorded.	The allocation of ports through Web UI configuration (i.e., qad-qracore.spark.ui.port) was not recorded, with the result that these services could be assigned a different port in another session and the allocated port could be assigned to another service.	n/a
RFRD-7742	platform-extension.INSTANCE.description supported.  Tokens are no longer used to identify where to place certain 'ModuleInfo' attribute values, to improve custom modification of module-config file, and to allow multiple app-exports to keep the file up to date.	Previously YAB used tokens to determine where to place certain 'ModuleInfo' attribute values, which caused issues when attempting multiple app-exports or customizing the module-config file.  module-config description was not supported.	n/a
RFRD-7772	YAB supports installation of QAD Precision TMS versions 16.1.1.0 and later.	YAB installation of QAD Precision TMS versions 16.1.1.0 and later was not supported.	n/a
RFRD-7806	The CSS connection pool is updated when the related configuration is changed.	The CSS connection pool was not updated when the host was changed.	n/a
RFRD-7847	YAB prints out a warning message if there is no '-command' option provided when executing the cassandra-nodetool command.	YAB raised a runtime exception if no '-command' option was provided when executing the cassandra-nodetool command.	n/a
RFRD-7883	A new property is available to set up a configurable timeout setting for kafka start. The factory default value of this property is 3 minutes. (timeout.kafka.start.default=180000)	YAB did not have a property to set up a configurable timeout setting for kafka start.	n/a
RFRD-7932	Progress native data (.d) is guaranteed to be processed before XML format data.	Bulk loading Progress native data (.d) with records also distributed in XML format failed when the XML data was loaded first, because unique constraints are disabled during the bulkload, duplicate records were loaded, and then rebuilding the table indexes failed.	n/a
RFRD-7942	Factory default value for kafka heap option (KAFKA_HEAP_OPTS) is updated to '-Xmx256M -Xms256M.'	Factory default value for kafka heap option (KAFKA_HEAP_OPTS) were set to '-Xmx512M -Xms256M.'	n/a

**Table 6** Defect Fixes for YAB 1.10 (continued)

<b>QAD Issue</b>	<b>New Functionality</b>	<b>Prior Functionality</b>	<b>Customer Technical Impact</b>
RFRD-7951	Use IDXFIX or IDXBUILD as appropriate to rebuild indexes after loading binary data.	After loading binary data, indexes must be rebuilt and they were always rebuilt using IDXBUILD, which fails when after imaging is enabled.	n/a
RFRD-7955	Re-running a conversion from a snapshot now works as expected.	Re-running a conversion from a snapshot did not work as expected.	n/a
RFRD-8011	The 'system-context-info' command shows the current status of unapplied steps.	The 'system-context-info' command showed the status of unapplied steps at the time they were prepared.	n/a
RFRD-8039	The (-newinstance) option is used when creating a Progress database to ensure that it is assigned a unique database GUID.	The (-newinstance) option was not used when creating a Progress database and as a result all databases shared the same GUID.	n/a
RFRD-8042	Correctly update NameServer entries in ubroker.properties when the current file contains a partial record.	If the default NameServer instance was configured with the same name as the sample entry in ubroker.properties (NS1), the file was not correctly updated.	n/a
RFRD-8053	All code that is compiled in a prepared context is deployed into the environment.	Code compiled in a prepared context was not deployed into the environment if it only reflected changes to referenced tables or indexes. The compile in a prepared context was using the "RCODE-INFO:MD5-VALUE" attribute to determine if the r-code was different but this did not take into account table or index changes even though it is documented as doing so.	n/a
RFRD-8059	When the command "database-all-restore" restores from a backup, warnings are logged for components that do not exist in the backup.	The "database-all-restore" command should have restored all of the components in the selected backup, however, some components would raise an error if they were not included in the backup, whereas others would log a message.	n/a
RFRD-8078	The Java instance used for Tomat is correctly updated when changed.	Previously, a change in the Java instance that was configured did not result in a change in the Java version Tomcat used unless there were other updates to the Tomcat configuration.	n/a
RFRD-8090	dotd data loads processed correctly when all dotds are excluded and -clean is used.	A dotd data load using -clean and excluding all files resulted in an exception being thrown and the request failing.	n/a

# Release Notes for YAB 1.9

**YAB:** 1.9

**Date:** March 2019

**QAD Enterprise Applications Versions:** Enterprise Edition 2015 Cloud, 2016, 2017, and 2018 when installed with Channel Islands 2019.

## Upgrade Instructions

To install YAB 1.9, enter:

```
yab install yab-ee-image-[VERSION].zip
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

### Cassandra Basic Authentication

YAB 1.9 introduces support for basic Cassandra authentication using PasswordAuthenticator. Basic authentication is enabled by setting `cassandra.INSTANCE.node.main.authenticator=PasswordAuthenticator`. When basic authentication is enabled, YAB disables the native Cassandra user and creates and manages the Cassandra user defined by the following properties:

```
cassandra.INSTANCE.user=  
cassandra.INSTANCE.password=
```

### Support for Multiple QAD .NET UI Environments

YAB 1.9 supports multiple .NET UI environments without the need to manually modify the QAD Homeserver and the Progress application server. For detailed information, see the Knowledgebase article: [How to add custom .NET UI environment for EAM](#).



## Enhancements

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-2359	NA	<p>A new configuration type ‘filereduce’ has been introduced to reduce files by deleting, truncating, or archiving them. This might be used, for example, to manage the growth of log files.</p> <p>The factory default configuration defines a set of commands to archive as well as truncate/delete application log files.</p> <p>See:</p> <p>yab help filereduce</p> <p>yab help logs-clean</p> <p>NOTE: Other mechanisms that rename log files (such as OpenEdge log rotation) may not be compatible with this file management technique.</p>	NA
RFRD-2489	NA	Show associated validation rules by yab config -show-validation PROPERTY	NA
RFRD-3188	YAB did not support deployment of netui patches in the dist/pro directory.	netui patches can now be deployed in the dist/pro directory. Review the property patches.pro.dir to view the default location.	NA
RFRD-5349	NA	Set the property code.eam.removeorphanedrcode= true as default to remove orphaned rcode.	NA
RFRD-5384	NA	<p>Created a database-&lt;dbname&gt;- describe process to display descriptive information about the ‘%s’ database and enabled features.</p> <p>Created a database-describe process to display descriptive information about the ‘%s’ database and enabled features of all databases.</p>	NA
RFRD-5574	The option (-failonerror:false) can be set to continue processing the request if ANY process fails.	In addition to the global (-failonerror:false) setting, individual processes can now be configured through (- process.[INSTANCE].failonerror: false) options.	NA
RFRD-5757	NA	Provides a way to list all the connection manager session statuses of .NET UI applications for load balancing monitoring.	If you are using the .NET UI load balancing feature, add all of your load balancing Tomcat instances to the netui.webserver.list.

**Table 7** Enhancements for YAB 1.9

<b>QAD Issue</b>	<b>Prior Functionality</b>	<b>New Functionality</b>	<b>Customer Technical Impact</b>
RFRD-6141	NA	<p>New commands have been added to support integrating a QAD-supplied operational source archive into an environment.</p> <p>‘yab customer-src-integrate’ takes a QAD-supplied source archive and installs it into the environment catalog.</p> <p>‘yab customer-src-copy’ copies sources from the archive that was installed to the customization area.</p> <p>See the “Integrate QAD source file archive into environment” section of the YAB Configuration and Administration Guide (YAB 1.9) for more details.</p>	Review new commands if you are using QAD-supplied source code archives.

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6420	Previously there were a number of hard-coded timeout values for various API calls, waits on application servers to start, etc. These could not be configured and so could not be adjusted to different environment scenarios.	<p>There is now a new ‘timeout’ configuration property.</p> <p>The default timeout for all YAB configuration settings starting with timeout, without an explicit value, expressed in milliseconds.</p> <p>Timeout settings are resolved using an inheritance algorithm. For example, the value of the ‘timeout.foo.bar’ setting is the first of (‘timeout.foo.bar,’ ‘timeout.foo,’ and ‘timeout’) that is configured.</p> <p>Default 600000 (10 minutes).</p> <p>0 means an indefinite wait.</p> <p>A number of hardcoded timeouts in the code base have been updated to respect the above configuration. The new timeout default configuration is as follows:</p> <pre> timeout.adminserver.opened-geupgrade=300000 timeout.adminserver.stop=600000 timeout.api.fin=3600000 timeout.appserver.start.qxtend=600000 timeout.batch=0 timeout.elasticsearch.configureindex.default=300000 timeout.kafka.zookeeper.start.default=30000 timeout.mongodb.start.qad-collaboration=180000 timeout.tomcat.start.qxtend=600000 timeout.webapp.webshell.api=600000 timeout.webapp.webshell.api.cacherefresh=600000 timeout.webapp.webshell.api.entityhistory=600000 timeout.webapp.webshell.api.mongoschema=600000 timeout.bpm.server.start=3000000 timeout.bpm.server.stop=3000000                     </pre>	NA
RFRD-6448	Updating the host name of an environment required a full update.	<p>Added a ‘host-update’ process to update host references to the configured host.</p> <p>Review the YAB Configuration and Administration Guide (YAB 1.9) for additional details</p>	Use the host-update command when necessary to update the host of an environment.

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6589	NA	Simplifies the effort to set the scripts for loading the additional environment variables in python scripts through two properties: filegen.[instance].properties.env.files or clientscript.[instance].properties.env.files	NA
RFRD-6603	NA	Added support to update a portion of a configuration setting without overriding the entire value. For example, to increase the (-Bt) value of an application server while retaining the other factory default startup parameters for the application server.  See the “Indexers” section of the YAB Configuration and Administration Guide (YAB 1.9) for more details.	Review overridden settings for opportunities to use this functionality.
RFRD-6604	The ‘validate’ command was limited to validating YAB configuration.	Adjusted the ‘validate’ command to provide more feedback while evaluating validations and added several new validations: <ul style="list-style-type: none"> <li>• CHUI Login</li> <li>• WEBUI Login</li> <li>• QRA Authenticate</li> <li>• JDBC Connect</li> <li>• NETUI Connection Manager Check</li> </ul>	Review the validate command and any output. Consider including in standard operations.
RFRD-6624	NA	Added the ‘system-context-info’ command to report on the processes and operations in a prepared context that have been applied to the environment.	NA
RFRD-6651	Previously, the ‘proutil epolicy info’ command was used to check whether TDE was enabled. This command was not efficient.	YAB now uses the more efficient ‘proutil describe’ command to check whether TDE is enabled.	NA
RFRD-6722	NA	Use the new property ‘fin.cbserverxml.debug-login’ to configure the DebugLogin in cbserver.xml.	NA
RFRD-6791	The TMS database did not set the logical name, max users, and lock table entries to ideal values.	The logical name, max users, and lock table default entries have been updated to better values. The default values are:  db.tmsdb.logicalname=xttraxmu dbserver.tmsdb.maxusers=200 dbserver.tmsdb.locktableentries=1000000	NA

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6814	NA	Added support for configuring the logback.xml file for the tomcat-webui server.  See 'yab help logback' for available settings.	Review and update default values as needed.
RFRD-6815	NA	Added support for configuring the log4j.properties file for the qad-dashboards webapp  See 'yab help log4j.analytics-logi' for available configurations.	Review and adjust default settings as needed.
RFRD-6843	NA	YAB supports the EAM job controller start/stop/status processes.	NA
RFRD-6859	NA	Audit Archive Enhancements <ul style="list-style-type: none"> <li>• Check to ensure that auditing is enabled on the source and destination database.</li> <li>• Ability to use alternative audit storage area names configured through the settings for 'db.INSTANCE.audit.area' and 'db.INSTANCE.audit.indexarea.'</li> <li>• New 'audit.keep.exported.files' setting to retain the exported (*.abd) files.</li> <li>• New 'audit.enddate' setting to use 'date math' to define the records to export.</li> </ul> See: yab help database-INSTANCE-auditing-archive	NA
RFRD-6861	NA	Configuration for Progress database accounts now has a 'managed' setting (default: false). When true, the system creates/updates the user account. A new 'dba' setting may be used to grant DBA authority to the account when 'managed' is true. See 'yab help db.users' for more details.	NA
RFRD-6862	Previously, the system did not have much logging and visibility around the algorithm used to decide whether to use IDXFIX or IDXBUILD when rebuilding indexes.	Increased the amount of logging around the algorithm used to decide whether to use IDXFIX or IDXBUILD when rebuilding indexes.	NA

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6863	All QXtend connection pools used the same application authentication pair (username/password).	YAB supports distinct authentication pair (username/password) for different QXtend connection pools.  The relevant properties are: qxtend.connpool.finapi-qad-erp.password qxtend.connpool.finapi-qad-erp.user qxtend.connpool.siapi-qad-erp.password qxtend.connpool.siapi-qad-erp.user qxtend.connpool.uiapi-qad-erp.password qxtend.connpool.uiapi-qad-erp.user	NA
RFRD-6872	The Spark REST API and the ability to kill Spark applications from the Spark web UI were not disabled by default.	YAB can now disable the Spark REST API as well as kill Spark applications from the Spark web UI by default.	NA
RFRD-6878	Users had to change multiple properties in order to change the Spark deploy directories.	There is now a more convenient way to change the Spark deploy directories by changing spark.INSTANCE.env.spark.dir.	NA
RFRD-6897	Tomcat startupopts were quoted, which meant the entire value needed to be changed.	Removed quotes from Tomcat tuning parameters to allow update by new configuration indexers. This allows the update of a single value in the startupopts without changing the entire value.  See Configuration Files section of the YAB Configuration and Administration Guide (YAB 1.9) for more details.	Review Tomcat startupopts settings and consider redefining without quotes or applying updates using configuration indexers.
RFRD-6898	NA	New Global Cache variables can be configured in environment.xml file.  See 'yab help qra.config.environment.cache' for more details on each of the global cache configuration settings.	Review and update cache variables as required.
RFRD-6900	NA	The log level for qxtend outbound is supported.	NA
RFRD-6913	Previously, a case change in the table's name (uppercase/lowercase) would result in the table being added to the database again, resulting in an error saying that the table already exists.	We now compare table names in a case-insensitive manner, as Progress does, so we will not attempt to reload tables when their letter casing (uppercase/lowercase) changes.	NA
RFRD-6919	NA	Support to remove the lock files for Atomikos, Cassandra and Spark via clean-locks process.	NA

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6931	Starting an application server would fail with Progress error 8297. An immediate retry would succeed.	If an attempt to start an application server fails, another attempt will be made in five seconds.	NA
RFRD-6939	Scripts to start a secondary login broker (-m3) may define startup parameters that are not applicable for a secondary login broker, but do not cause any harm.	Scripts to start a secondary login broker will only define the startup parameters configured by the 'dbserver._secondary.params.filter' setting, which has the following factory default setting:  dbserver._secondary.params.filter=-N,-S,-ServerType,-Mi,-Ma,-Mpb,-minport,-maxport	NA
RFRD-6954	NA	A new option (-skip-packages) is available on the 'code-INSTANCE-locate' command in conjunction with (-overrides) to only report where unpackaged sources (i.e. customizations, patches) override packaged sources (standard). When (-skip-packages) is omitted, (-overrides) will continue to report all overrides including overrides distributed in packages.	NA
RFRD-6999	NA	Added support for setting Analytics fiscal start date. See these two configuration settings: <ul style="list-style-type: none"> <li>• qad-analytics-core.firstDayOfFiscalYear</li> <li>• qad-analytics-core.firstDayOfWeek</li> </ul>	Review and adjust default values.
RFRD-7001	NA	The Web UI HTTP session timeout can be configured with the 'timeout.webapp.webshell.session' setting. The default timeout is 30 minutes.	NA
RFRD-7010	-noduptiderror was not included	The factory default svrstartparams now includes -noduptiderror when the OE version is 11.7.4 or greater and less than OE12	If appserver svrstartparams is set specifically and OE11.7.4 or later is used, -noduptiderror should be added to these parameters.
RFRD-7032	Packages with branches are not deployed correctly when installed in a prepared context. The log contains messages similar to: The path [/\qond/apps/mfgpro/build/work/stage/mfgcoreplus/qad.mfgcoreplus/config] configured by the setting [qra-config-module.mfgcoreplus.dir] does not exist and will be ignored.	This issue has been resolved.	NA

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-7078	When running app-export against a platform extension, new dependencies were added but existing dependencies were not updated.	When running app-export against a platform extension, all dependencies are updated to the current version in the environment.  Record the export version in the platform extension's app.xml.	NA
RFRD-7083	NA	Users can use the original settings or a new set of configuration settings to configure the alerts and TMS database.	For backward compatibility, users can use the original settings to configure the alerts and tmsdb user account as below: <ul style="list-style-type: none"> <li>• alerts.database.admin.username=</li> <li>• alerts.database.admin.password=</li> <li>• alerts.database.username=</li> <li>• alerts.database.password=</li> <li>• db.tmsdb.sqluser.admin.username=</li> <li>• db.tmsdb.sqluser.admin.password=</li> <li>• db.tmsdb.sqluser.normal.username=</li> <li>• db.tmsdb.sqluser.normal.password=</li> </ul> Or they can use new settings to configure them: <ul style="list-style-type: none"> <li>• db.alerts.users.admin.user=</li> <li>• db.alerts.users.admin.password=</li> <li>• db.alerts.users.admin.dba=true</li> <li>• db.alerts.users.admin.managed=true</li> <li>• db.alerts.users.default.user=</li> <li>• db.alerts.users.default.password=</li> <li>• db.alerts.users.default.managed=true</li> <li>• db.tmsdb.users.admin.user=</li> <li>• db.tmsdb.users.admin.password=</li> <li>• db.tmsdb.users.admin.dba=true</li> <li>• db.tmsdb.users.admin.managed=true</li> <li>• db.tmsdb.users.normal.user=</li> <li>• db.tmsdb.users.normal.password=</li> <li>• db.tmsdb.users.normal.managed=true</li> </ul>
RFRD-7109	A runtime exception was thrown when the EAM package did not have any files in the xrc/fin/<EE Version> folder.	Now yab-eam conditionally deploys artifacts from the EAM package's xrc/fin/<EE Version> folder.	NA
RFRD-7293	YAB could not define "global" environment variables for Progress sessions and the memory management hotfix was disabled.	There is a new capability to define environment variables for Progress sessions. This is being used to enable an OpenEdge 11.7.4 memory management hotfix (when applicable).  See: yab help openedge.env yab config "openege.env.*"	NA
RFRD-7372	Default garbage collector was used. Default sizing was 500MB of heapsize.	Cassandra jvmargs uses G1 garbage collector and 1GB minimum heapsize by default.	Review any Cassandra jvmargs and adjust as needed.

**Table 7** Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-7375	Default database maxusers setting was set to 52.	Default database maxusers setting increased to 70.	Review database maxusers setting and adjust as needed.
RFRD-7386	Web UI Tomcat heapsize set to 1GB.	Web UI Tomcat default heapsize increased to 2GB.	Review Tomcat heapsize settings and adjust as needed.
RFRD-7427	Default mmax setting was 8192.	Default mmax setting updated to 10000.	Review and adjust your mmax settings if needed.

## Bug Fixes

**Table 8** Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-1473	BPM did not work with SSL-enabled QXtend Tomcat or Corticon Tomcat.	Fixed	NA
RFRD-2641	Five settings only support using a comma “,” as a delimiter, which prevents users from configuring some valid package ranges.	Five settings that historically used a comma “,” as a delimiter, which conflicted with some package range expressions that may have contained commas, now support using a colon “:” as a delimiter, while retaining support for “,” as a delimiter in values where there is no conflict. <ul style="list-style-type: none"> <li>• dependency.redirects</li> <li>• dependency.excludes</li> <li>• dependency.excludesreferences</li> <li>• dependency.overrides</li> <li>• packages.INSTANCE.patches</li> </ul>	NA
RFRD-3971	YAB threw an error if directory path was null.	YAB will not create a directory path that is null or contains environment variables “~”, “\${HOME}”, “\$HOME” in Linux platform and “%USERPROFILE%”, “%HOMEPATH%” in Windows.	NA
RFRD-4459	recid files were incorrectly processed when regenerateoids was set.	Updated the import / export statements used as part of regenerateoids to exclude recid fields.	NA
RFRD-5502	The ‘config.order’ property is used to define the precedence order of system configuration files. When the order is changed, the system should be refreshed to take this change into account. A change to ‘config.order’ would not automatically trigger a refresh.	A refresh (-r) will automatically be triggered if the ‘config.order’ property is edited.	NA
RFRD-6098	Changes to ‘dependency’ settings (e.g., dependency.excludes, dependency.overrides) would not trigger a reevaluation of packages.	Changes to ‘dependency’ settings (e.g., dependency.excludes, dependency.overrides) will trigger a reevaluation of packages.	NA

**Table 8** Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6360	YAB controller-update failed when a user removed a package that distributes a controller update.	YAB controller-update can uninstall a controller distributed by a removed package.	NA
RFRD-6361	Previously, SQL errors occurred when executing database-tmsdb-start-copy -clean.	Now, SQL errors will not occur when executing database-tmsdb-start-copy -clean.	NA
RFRD-6493	The default port range property was 22000-22100.	Increased the default port range property (ports) to 22000-22200.	The default port range property has been increased to 200, from 22000 to 22100 to 22000 to 22200
RFRD-6640	The command 'mfs-qxtend-configuration' did not deploy modified/new qdoc files from the MFS package during an MFS upgrade.	The command 'mfs-qxtend-configuration' deploys all qdoc files from the MFS package during an MFS upgrade.	A YAB update executed after adding a YAB patch containing this fix will redeploy all qdoc files from the MFS package.
RFRD-6653	For a 2014EE to 2015EE conversion, an error was returned when loading schema into qaddb that resulted in the conversion failing.	Fixed	NA
RFRD-6680	The default storage location for webdav-based document attachments was changed from the standard default to a non-standard default.	We now use the standard default storage location for webdav-based document attachments, and have provided backward compatibility with environments that have the non-standard location.	NA
RFRD-6766	Using the help command to show the help for instanced settings (i.e. yab help 'db.qaddb.physicalname') did not show the help information.	Fixed	NA
RFRD-6833	The prostrict output was not handled properly thus it broke some functionality in after imaging (AI) and database structure related processes.	The prostrict output is now handled properly.	NA
RFRD-6865	Manual steps were required when upgrading from YAB 1.3 with yab-conv-pre-ee to YAB 1.6 or later.	Upgrading from YAB 1.3 with yab-conv-pre-ee to YAB 1.6 or later no longer requires manual steps. The install will automatically disable the yab-conv-pre-ee package and removes its package dependencies.	NA
RFRD-6916	"The process has not been prepared." error might occur when executing processes in parallel.	Fixed	NA

**Table 8** Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-6940	A Cassandra username allowed only numbers and letters in lower case.	Special characters can be used in a Cassandra username.	NA
RFRD-6943	The option '-c' of mongodb archive command (mongodb-qad-collaboration-archive) and system help process (help) were conflicting with the yab client parameter 'context.'	The option 'c' has been renamed to 'collection' and 'd' to 'date' for the mongodb-INSTANCE-archive command. The option 'c' has been renamed to 'command' and 's' to 'settings' for the help command.	NA
RFRD-6948	The previous compile ProPath order for code.fin.propath was incorrect.	Fixed	NA
RFRD-6993	A package resolution error "Please review the following constraints," could occur when installing a product distributed in channel-islands-app.	Fixed the ordering of packages in the configuration file 'build/config/system/product.properties.'	NA
RFRD-7002	Scripts to start databases did not support the use of service names.	Scripts to start databases now support the use of service names.	NA
RFRD-7012	The OpenEdge directory was not correctly validated if referencing a non-existing directory	A runtime error is now thrown if either <ul style="list-style-type: none"> <li>The configured 'openedge.dir' directory does not exist</li> <li>The OpenEdge version in directory 'openedge.dir' cannot be determined.</li> </ul>	NA
RFRD-7043	The dat files in the Enterprise Edition subfolders were deployed first, then the standard dat files, which would overwrite any previous versions of the files copied into the target directory.	The order in which the qxtadpt dat files were deployed into the dist/qxtadpt/tools/datFiles/standard/ directory was incorrect. This is now fixed to deploy the standard dat files first and to also deploy any additional dat files based on the Enterprise Edition version installed.	NA
RFRD-7060	The compile performs an initial scan for changes when enabled (code.INSTANCE.scan=true) and exits if no source code has changed, even if changes to the configuration of the compile should be evaluated.	The compile scan is skipped whenever the configuration of the compile has changed.	NA
RFRD-7088	Did not support the 'srvrExecFile' Progress startup parameter.	YAB now supports the 'srvrExecFile' Progress startup parameter.	NA

**Table 8** Bug Fixes for YAB 1.9

<b>QAD Issue</b>	<b>Prior Functionality</b>	<b>New Functionality</b>	<b>Customer Technical Impact</b>
RFRD-7102	The file 'contexts/prepared/NAME/plan.ser' would get corrupted when the system ran out of disk space while applying the plan.	Updates to the file 'contexts/prepared/NAME/plan.ser' are saved to a temporary file first to avoid the corruption problem.	NA
RFRD-7104	The SSL check box was not checked automatically on the UI when SSL for QXtend Tomcat server was enabled.	The SSL check box is selected automatically on the UI when SSL for QXtend Tomcat server is enabled.	NA
RFRD-7119	Financial backward compatible upgrades on 2016EE environments failed due to the db version not being identified.	Fixed	NA
RFRD-7120	Configuration settings that are lists (e.g. propaths) are influenced by the order in which the file system enumerates files in a directory. This order may vary across environments.	Configuration settings that are lists (e.g. propaths) are no longer influenced by the order in which the file system enumerates files in a directory.	NA
RFRD-7121	Previously, certain NFS server configurations could result in an NFS lock file persisting on the file system during the package deletion process. YAB would then consider the package deletion operation as non-successful and report an error, even though the package had effectively has been removed.	YAB is now more lenient with its package deletion, allowing NFS lock files to remain while still considering the operation successful.	NA
RFRD-7124	The incremental compile only monitored table CRC values, which do not reflect index changes. A change to an index would not trigger the recompile of programs referencing the table.	<p>The incremental compile will recompile a program if any of the indexes associated with a referenced table change.</p> <p>The first time code is recompiled after this update, source code that references tables will be recompiled with messages like these in the log:</p> <p>Compiling [PROGRAM] because the CRC value of the referenced table [TABLE] has changed since the last compile.</p>	NA

**Table 8** Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-7130	The pid file was deleted when YAB failed to stop the Cassandra instance and it did not throw an error.	YAB will try up to <code>cassandra.INSTANCE.shutdown.maxret</code> ries times to kill the Cassandra process and will throw an error if it cannot stop it. The pid file will be kept if YAB fails to stop the Cassandra instance. The retry interval is controlled by the <code>'cassandra.INSTANCE.shutdown.retryinterval'</code> property.	NA
RFRD-7133	A compile request fails if compiling any file results in error messages. However, there are (rare) cases where a file cannot be compiled but the compiler only produces warning messages.	A compile request fails if the <code>'compiler:error'</code> status is true after compiling any file.	NA
RFRD-7138	Integer validation allowed values larger than valid integers	Integer validation now enforces <code>Integer.MIN_VALUE &lt;= x &lt;= Integer.MAX_VALUE</code> .	Review and update any incorrectly defined integer values
RFRD-7144	The command <code>'system-config-backup-list'</code> only lists configuration backups that start with a digit.	The command <code>'system-config-backup-list'</code> lists all configuration backups except <code>'current'</code> and <code>'applied'</code> ordering non-timestamp directory names by the directory last modified date.	NA
RFRD-7154	Updates to browses may not be applied correctly resulting in the loss of data.	Fixed	NA
RFRD-7174	Servers configured as <code>'manual'</code> (e.g. <code>db.qadarc.manual=true</code> ) are not included in the <code>'start,' 'stop,'</code> or <code>'status'</code> commands.	A new <code>'status'</code> setting (e.g. <code>db.qadarc.status=true</code> ) allows servers configured as <code>'manual'</code> (e.g. <code>db.qadarc.manual=true</code> ) to be included in the <code>'status'</code> command while still not being included in the <code>'start'</code> and <code>'stop'</code> commands.	NA
RFRD-7180	Listing the files in a package using an index will attempt to create an index file in the catalog if it does not already exist.	Indexing is performed when a package is added to the catalog and listing files in a package will not write to the file system.	NA
RFRD-7190	Previously, app-exporting a platform app multiple times subsequently would duplicate the generated configuration for structure areas in the extension database.	Configuration generated for structure areas while developing a platform app will no longer be duplicated on subsequent app-exports.	NA

**Table 8** Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
RFRD-7210	When a platform extension is developed, a compile database is created with the physical name 'extension,' which is the same as the standard extension database, potentially causing issues when performing database backups and restores.	The compile database is configured with a new setting (db.INSTANCE.nobackup) to not participate in the system wide backup. Validations have been added to ensure that when databases share the same physical name, an error is raised if one backup would overwrite another and if a restore would be applied to the wrong database.	NA
RFRD-7226	Regenerating oids for data.ee-data-<INSTANCE> fails with the error 'Unknown Field or Variable name.'	Fixed	NA
RFRD-7227	Error: java.lang.NullPointerException at com.qad.build.progress.tasks.database.DatabaseSchemaOrderCommand\$1.processObject(DatabaseSchemaOrderCommand.java:51)	Fixed	NA
RFRD-7274	When 'dbbackup.movearchivedaifiles' is enabled by default and after imaging is enabled, the backup process will store a compressed backup of archived after imaging files with the database backup to which they apply. The compressed backup file was named 'ai-files.tar.gz,' so if two databases with archived after imaging files were backed up in the same directory (for example using 'database-backup') one archive would replace the other.	The compressed backups of after imaging files are now named to avoid collisions between databases:  [DATABASE PHYSICAL NAME].ai.tar.gz	NA
RFRD-7310	A new index that is added to the system will not have any index entries when the Progress IDXFIX utility is used to build the index.	When running the Progress IDXFIX, option 3, below, is chosen to create index entries when new indexes are added to the system.  Index Fix Utility  1. Scan records for missing index entries with index block validation.  2. Scan indexes for invalid index entries.  3. Both 1 and 2.	NA

# Release Notes for YAB 1.8

**YAB:** 1.8

**Date:** October 2018

**QAD Enterprise Applications Versions:** Enterprise Edition 2015, 2016, 2017, and 2018 when installed with Channel Islands 2018 — San Miguel 2.

## Special Consideration

YAB 1.8 is a limited release and only available for Channel Islands — San Miguel 2 and TAM 2.4 installations.

## Upgrade Instructions

To install YAB 1.8, enter:

```
yab install yab-ee-image-[VERSION].zip
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

### Separate Operational and Financial Upgrades

You can now independently upgrade the versions of QAD Enterprise Financials and QAD Enterprise Edition. This allows you to upgrade QAD Enterprise Edition after a backward compatible installation of QAD Enterprise Financials. Review the latest *QAD Enterprise Edition Conversion Guide* for additional details.

### Channel Islands Release Image

YAB supports the installation of the Channel Islands App release image.

### New Channel Islands Technology Changes

YAB supports new Channel Islands technologies, including Apache Spark and Cassandra. YAB's backup capabilities now include support for backing up Cassandra databases.

### Support for Resolving Schema Area Changes

A new YAB `database-storage-area-resolve` command supports the movement of database tables between schema areas. See the *QAD Configuration and Administration Guide YAB 1.8* for more information.

### Minimal TDE Support

YAB supports the execution of a yab update in an environment with OpenEdge TDE configured, and supports the backup of OpenEdge databases with OpenEdge TDE configured.



## Prepared Contexts

You can now prepare an update in a prepared context using the `-c` option, which uses system resources but has no other impact on the environment. See the *QAD Configuration and Administration Guide YAB 1.8* for additional details.

## QAD Platform Development Features

YAB supports the development of QAD Platform Apps in a YAB environment. See the *QAD Enterprise Platform Training Guide* for more information.

## Release Enhancements and Customer-Reported Issues Resolved

The following enhancements have been added and customer-reported issues have been resolved in this release.

### Enhancements

**Table 9** Enhancements for YAB 1.8

QAD Issue	Summary
RFRD-5121	New property <code>fin.api.timeout</code> added and defaulted to 60 minutes. If the default of 60 minutes is removed and the property is not defined, the timeout then defaults to 0 (wait forever). The property applies to daemon control, <code>fin-sync</code> , and <code>languages-mark-installed</code> processes.
RFRD-5960	Added <code>-config-restore</code> option to restore configuration files from a backup. See the “Restore Configuration” section in the <i>QAD Configuration and Administration Guide YAB 1.8</i> for additional details.
RFRD-6095	Improved documentation of options provided by YAB client.
RFRD-6294	Improved support for upgrading the OpenEdge patch version in an existing environment.
RFRD-6389	New configuration instance <code>directorybackup</code> introduced to support the configuration of directories to back up. These <code>directorybackups</code> are included in environment backups.
RFRD-6424	Ensure consistent <code>mfsubdirs.i</code> file is used in all compiles.
RFRD-6443	Introduced new <code>client-install</code> command to support upgrading the YAB client.

### Fixes

**Table 10** Fixes for YAB 1.8 (1 of 2)

QAD Issue	Summary
RFRD-2341	You can now use special characters in QXtend Tomcat user password.
RFRD-2930	You can use <code>Progress -v6colon</code> parameter when compiling code.
RFRD-3099	You can now update QXtend connection pool settings through YAB configuration.
RFRD-3961	Users can control the values of <code>PROTERMCAP</code> and <code>PROMSGS</code> as environment variables for use in client scripts.
RFRD-4637	Browse timeout settings in <code>client-session.xml</code> can be configured using YAB: <ul style="list-style-type: none"><li><code>netui.client.browse.notification.timeout.INSTANCE.browseid</code></li><li><code>netui.client.browse.notification.timeout.INSTANCE.warn</code></li><li><code>netui.client.browse.notification.timeout.INSTANCE.cancel</code></li></ul> Additionally, global settings can be configured using YAB: <ul style="list-style-type: none"><li><code>netui.client.browse.notification.warn</code></li><li><code>netui.client.browse.notification.cancel</code></li></ul>
RFRD-5142	Users can start database servers with non-UTF-8 codepages.
RFRD-5762	QXtend patch and customization directories are now created by default.



**Table 10** Fixes for YAB 1.8 (2 of 2)

<b>QAD Issue</b>	<b>Summary</b>
RFRD-5888	QXtend adapter code (qxtadpt) is now included in the MFG customization propath.
RFRD-6010	Fully support upgrade of QAD .NET UI version.
RFRD-6216	Support locking in client batch script.
RFRD-6223	The CSS version number is updated when upgrading YAB.
RFRD-6409	The interrupt signal (ctrl-c) in client-qxtend script is now supported.

# Release Notes for YAB 1.7

**YAB:** 1.7

**Date:** March 2018

**QAD Enterprise Applications Versions:** Enterprise Edition 2015, 2016, and 2017 when installed with Channel Islands — San Miguel 1.

## Special Consideration

YAB 1.7 is a limited release and only available for Channel Islands — San Miguel 1 and TAM 2.3 installations.

## Upgrade Instructions

To install YAB 1.7, enter:

```
yab install yab-ee-image-[VERSION].zip
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## Customer-Reported Issues Resolved and Release Enhancements

The following customer-reported issues have been resolved in this release.

### Enhancements

**Table 11** Enhancements for YAB 1.7 (1 of 2)

QAD Issue	Summary
RFRD-900	The QXtend application ID can be configured with the <code>qxtend.qxo.config.source.app</code> setting.
RFRD-1990	Data is loaded while the database is running to allow the AI archiver the opportunity to manage AI extents.
RFRD-2157	CSS configures the <code>web-disp.p</code> and <code>web-util.p</code> files for QAD CSS version 5.4.4 and later.
RFRD-2346	The <code>database-auditing-archive</code> command archives audit records in three steps. <ul style="list-style-type: none"><li>• Dump audit records from source database</li><li>• Load dumped records into audit database</li><li>• Delete dumped records from source database</li></ul> There are also new options for archiving records.
RFRD-2464	Only files that end in <code>.properties</code> are read under <code>build/config/system</code> . No other files are allowed.
RFRD-2465	Added a new <code>qxtend-connection-manager-update</code> command to update QXtend connection pool settings.
RFRD-2499	IDXFIX is used instead of IDXBUILD to rebuild indexes when AI is enabled.
RFRD-3147	A snapshot of the schema is recorded within <code>build/work/dev-schema</code> each time it changes.
RFRD-3148	The <code>dev-schema-diff</code> command provides a way to show pending schema changes as well as schema changes that were manually applied.
RFRD-3669	A new <code>command-help</code> command shows help only for commands and a new <code>config-help</code> command shows help only for configuration settings.
RFRD-4116	Introduced new <code>database-INSTANCE-schema-locate</code> commands to locate the schema files that distribute schema for a table or sequence.
RFRD-4563	Added new <code>database-log-truncate</code> and <code>database-INSTANCE-log-truncate</code> commands to truncate database log files.



**Table 11** Enhancements for YAB 1.7 (2 of 2)

QAD Issue	Summary
RFRD-4616	Introduced additional backup options: <ul style="list-style-type: none"> <li>• dbbackup.estimate</li> <li>• dbbackup.com</li> <li>• dbbackup.io</li> <li>• dbbackup.scan</li> <li>• dbbackup.bibackup</li> <li>• dbbackup.bf</li> <li>• -enableaiarchiver</li> <li>• -arcinterval</li> <li>• -aiaredir</li> <li>• -aiaredircreate</li> </ul>
RFRD-4709	Incremental data files are now retained after a data change.
RFRD-4838	The QXtend queue directory can be configured with the <i>qxtend.queue.dir</i> setting.
RFRD-4871	The (-bi) and (-biblocksize) arguments are now set when truncating databases.
RFRD-5071	The Configurator Webspeed <i>qst</i> and <i>var</i> directories can be configured through the settings <i>configurator.qst.dir</i> and <i>configurator.var.dir</i> .
RFRD-5072	The location of the Configurator <i>AppServerConnection.xml</i> file may be configured through the <i>configurator.config.dir</i> setting.
RFRD-5073	A YAB install redistributes the YAB Supply Chain Portal module (yab-scp).
RFRD-5167	You can now manage the new Batch daemon introduced in Enterprise Financials 2016.1.
RFRD-5258	A new <i>qxtend.qxi.queuestab.enabled</i> setting enables the QXtend Inbound Queues tab.
RFRD-5376	A compressed backup of the <i>pronav</i> web application is saved under <i>WEB-INF/backups</i> each time the <i>process-maps</i> package is upgraded and before the upgrade is applied to the <i>pronav</i> web application. This feature can be disabled with the <i>webapp.pronav.backups=false</i> setting.
RFRD-5488	Introduced a <i>find</i> command to query files referenced from the configuration.
RFRD-5521	Introduced new Mobile Field Services settings: <ul style="list-style-type: none"> <li>• mfs.environment.name</li> <li>• mfs.software.update.location</li> <li>• mfs.fsr.template.location</li> </ul>
RFRD-5545	You can now configure Reporting Framework email bursting via YAB.
RFRD-5624	YAB now provides feedback when the system reevaluates packages and configuration settings.
RFRD-5782	You can now configure <UseLocalDateAndNumberFormats> in <i>client-session.xml</i> with the setting <i>netui.client.uselocaldateandnumberformats</i> .
RFRD-5783	You can now configure maxuses setting in <i>connectionManagerConfig.xml</i> with the following settings: <ul style="list-style-type: none"> <li>• netui.connmgr.maxuses</li> <li>• netui.desktop.maxuses</li> <li>• netui.uiapi.maxuses</li> </ul>

## Fixes

**Table 12** Fixes for YAB 1.7 (1 of 2)

QAD Issue	Summary
RFRD-2252	QXtend adapter r-code now has higher precedence than MFG r-code in the runtime PROPATH.
RFRD-2813	Browse dependent records are now deleted before a browse is updated.
RFRD-2814	The (-T) parameter is configured when truncating a database before-image file.
RFRD-3635	The <i>TerminalProtocol</i> setting in <i>client-session.xml</i> is now configured with <i>netui.connmgr.protocol</i> setting and not <i>netui.telnet.protocol</i> .

**Table 12** Fixes for YAB 1.7 (2 of 2)

<b>QAD Issue</b>	<b>Summary</b>
RFRD-3788	The QXtend compile PROPATH now includes proxy and MFG patches.
RFRD-4127	The <TerminalEncodingMap> element has been updated in <code>client-session.xml</code> to fix the display of non-English characters in QAD .NET terminal screens.
RFRD-4633	QXtend connection pools are now updated when the QXtend passwords change.
RFRD-4729	The logic that removed and recreated the Alerts tables has been removed. Previously, the QAD Alerts database was deleted and had to be rebuilt from scratch.
RFRD-5067	Retaining the CRRuntime .NET plugin when the Financials plugin is upgraded.
RFRD-5166	All factory default setting changes are reverted when an install fails. Previously, the factory default settings were updated.
RFRD-5204	Sequence values are read as 64-bit integers. Previously, database sequences were reset incorrectly when databases contained a sequence greater than the integer limit.
RFRD-5213	Tomcat thread settings are now configured on the SSL connector.
RFRD-5245	Scripts now validate that the host setting matches the output of the OS hostname command in client scripts when the <code>client.host.validate</code> setting is true.
RFRD-5256	Loading ICT data correctly in single domain environments.
RFRD-5338	Using the (-estimate) option on a backup does not have any side effects. Previously, the command created an invalid backup that failed if a user tried to use it for a restore.
RFRD-5389	You can now configure the hostname setting of a WebSpeed server.
RFRD-5399	Changes to <code>controllers.xml</code> are retained after an update. Previously, merged versions of <code>controllers.xml</code> were being overwritten with the original version of the file during updates.
RFRD-5451	Added ordering constraints to ensure ICT data is tailored after it is loaded.
RFRD-5453	The Event Destination Id in the Event Destination Modify menu is now updated with the correct environment variables when databases are restored.
RFRD-5518	A NullPointerException thrown by <code>system-updates-list</code> command is fixed.
RFRD-5556	YAB now retains customized <code>UserConfig.xml</code> when Mobile Field Services is upgraded.
RFRD-5612	YAB now can recover automatically from an aborted package integration.
RFRD-5768	The literal PATH setting is no longer recorded in scripts when they are generated.

# Release Notes for YAB 1.6

**YAB:** 1.6

**Date:** October 2017

**QAD Enterprise Applications Versions:** Enterprise Edition 2016 and 2017

## Upgrade Instructions

To upgrade to YAB 1.6, you must set the `python.executor` setting to locate a compatible Python runtime. Python 2.4 is the minimum required version; Python 2.7 is the recommended version.

To check the Python version, enter:

```
<path to python interpreter> -V
```

In the `configuration.properties` file, enter:

```
python.executor=<path to python interpreter>
```

The existing shell scripts are backed up into the `scripts/backup` directory.

To install YAB 1.6, enter:

```
yab install yab-ee-image-[VERSION].zip
```

For all other installation information, see the most recent edition of the *QAD Enterprise Edition Installation Guide*.

## New Feature Summary

This section describes the new features and enhancements that are available in YAB 1.6.

### Apps

Apps are used to organize packages along product lines. The `info` command has been enhanced to display the apps configured in an environment with options to show the sub-component package details. YAB for Enterprise Edition is now distributed as `yab-ee-app`.

### Data and Schema Management

A new set of commands has been introduced to export, compare, and patch XML data files and to export and compare schema files. YAB now provides options for preserving customizations of QAD system data across major upgrades. The following commands are described in the *YAB Configuration and Administration Guide*:

- `data-xml-*`
- `schema-*`
- `dev-data-*`
- `dev-schema-*`

### Python Control Scripts

The control scripts in the `scripts` directory have been rewritten as Python scripts to support more consistent behavior across different platforms.



## Customer-Reported Issues Resolved and Release Enhancements

The following customer-reported issues have been resolved in this release.

### Enhancements

**Table 13** Enhancements for YAB 1.6

QAD Issue	Summary
RFRD-2583	Ability to scan packages and directories for content to deploy.
RFRD-3427	Support for integrating the Supply Chain Portal poller in an environment with <code>yab-scp</code> module.
RFRD-3433	Standard location ( <code>patches/ict</code> ) for integrating ICT patches.
RFRD-3472	Option to deactivate all non-primary indexes on auditing tables when auditing is enabled and to default non-archive databases to deactivated.
RFRD-3568	Ability to manage <code>maxThreads</code> , <code>minSpareThreads</code> , and <code>maxSpareThreads</code> settings on Tomcat connectors.
RFRD-3569	Tomcat <code>usecompression</code> setting supports “on/off/force.”
RFRD-3860	Ability to manage SMTP configuration in <code>client-session.xml</code> with <code>smtp.*</code> settings.
RFRD-3904	The <code>(-i)</code> client option will add/replace a package in the local catalog without deleting other versions of the package from the local catalog.
RFRD-4214, RFRD-4672, RFRD-4735, RFRD-4765	New <code>system-updates-list</code> command displays available software updates in a connected catalog.
RFRD-4396	Data updates are minimized by comparing the current configuration with the previous configuration to apply a delta.
RFRD-4418	Additional options for the <code>database-INSTANCE-index-rebuild</code> command.
RFRD-4551, RFRD-4553, RFRD-4746, RFRD-4812	Enhanced the <code>system-diagnostics</code> command to include patches and optionally customizations.
RFRD-4563	New command, <code>database-INSTANCE-log-truncate</code> , to truncate database log files using the Progress prolog utility.
RFRD-4727	No need to re-install YAB after bringing in new add-ons. YAB modules are enabled and disabled automatically as the product configuration changes.

### Fixes

**Table 14** Fixes for YAB 1.6 (1 of 2)

QAD Issue	Summary
RFRD-112	The following message no longer displays after a system configuration change: “The package was previously deleted and may not be published again.”
RFRD-3181	The Enterprise Edition Installer now finds the most recent configuration backup directory from the target instance. Previously, installs would fail with the error “backup does not exist.”
RFRD-3554	Ensure that CHUI sessions in developer environments have access to the ICT include files.
RFRD-3637	The <code>qadcss.ini</code> now only connects to the following four databases: <ul style="list-style-type: none"> <li>• <code>db.qadddb</code></li> <li>• <code>db.qadadm</code></li> <li>• <code>db.qadhlp</code></li> <li>• <code>db.qadcss</code></li> </ul>
RFRD-3733	Default backup directory moved from <code>build/work</code> to <code>build/work/backups</code> to match documentation.
RFRD-4156	You can now have the character “P” in the <code>netui.telnet.password</code> . Previously, a “P” in the <code>netui.telnet.password</code> would cause an error.



**Table 14** Fixes for YAB 1.6 (2 of 2)

<b>QAD Issue</b>	<b>Summary</b>
RFRD-4251	The stop script now invokes “join” method instead of the misspelled “joint” method.
RFRD-4304	Status no longer reports a server as started even if the server reports an error (8287)
RFRD-4325	The <code>code-INSTANCE-locate</code> command now correctly reports on programs in the current working directory.
RFRD-4340	Progress session updating data now resolves triggers.
RFRD-4351	The setting <code>#{qxtend.stage.dir}</code> is now resolved.
RFRD-4365	Using <code>allowunrecognizedschema</code> no longer attempts to load a table more than once into a reference database.
RFRD-4598	The Progress metaschema in the reference database is updated before generating the incremental schema file to ensure that non-decimal fields have a null length and not a length of 0. Previously, if a non-decimal field had its decimals field set to null and the configured schema had the value set to 0, Progress generated the following error when processing schema changes: “MODIFY FIELD NAME caused a warning.”
RFRD-4612	The PROMSGS environment variable is now correctly configured during a Progress database restore. Previously, the variable was not correctly configured, resulting in the following error: “errno=0 reading promsgs file, it may have been deleted.” restoring a compressed backup.
RFRD-4627	Users now have the ability to configure the Configurator Webspeed URL with “ <code>qadcss.configurator.customized.url</code> .”
RFRD-4628	You can now configure the CSS System Control temp directory with “ <code>qadcss.tmp.dir</code> ” setting.
RFRD-4807	Corrected the spelling in a CSS YAB property to read “ <code>code.mfg.sources.qadcss-credit-card.dir</code> ” instead of the incorrect “ <code>code.mfg.sources.qadss-credit-card.dir</code> .”
RFRD-4937	Users no longer see: “The process cannot access the file because it is being used by another process” on Windows after installing Enterprise Edition.
RFRD-4940	Ensured that “ <code>dist/qxtadpt</code> ” is before “ <code>dist/qxoserver/runtime</code> ” in <code>qadcss.ini</code> .
RFRD-4970	Installing with the option <code>-install-validate:false</code> no longer results in the error “The image and environment packages have not been compared yet.”