

QAD YAB 1.10 Release Notes

September 2019

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: 1.10

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 1 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 https://bugs.java.com/bugdatabase/view_bug.do?bug_id=JDK-8170157 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): http://www.oracle.com/technetwork/java/javase/downloads/jce-6-download-429243.html</p> <p>Java 7 (only required for versions before Java 7u171): http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html</p> <p>Java 8 (only required for versions before Java 8u161) : http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html</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 1 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"> • fin.daemon.INSTANCE.debuglevel • fin.daemon.INSTANCE.propath • fin.daemon.INSTANCE.extraparams 	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 1 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: https://documentation.progress.com/output/ua/OpenEdge_latest/index.html#page/dvref/compile-statement.html	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.INSTANACE.	Cassandra used its own properties to manage its timeout settings.	n/a

Table 1 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 1 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"> • eventservice.jms.page-max-cache-size • eventservice.jms.page-size-bytes • eventservice.jms.address-full-policy • eventservice.jms.global-max-size • eventservice.jms.max-size-bytes 	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 1 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> <p>kafka.default.env.heapopts.key=KAFKA_HEAP_OPTS</p> <p>kafka.default.env.heapopts.value=-Xmx512M -Xms256M</p> <p>zookeeper.default.heapopts.NAME.key=KAFKA_HEAP_OPTS</p> <p>zookeeper.default.heapopts.NAME.value=-Xmx128M -Xms128M</p>	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 2 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 2 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"> <code>dbserver.qaddb.sql.host</code> <code>dbserver.bpm.sql.host</code> <code>dbserver.qaddb.sql.port</code> <code>dbserver.bpm.sql.port</code> 	<code>bpm-infra-realm-deploy</code> did not re-execute when the following were changed: <ul style="list-style-type: none"> <code>dbserver.qaddb.sql.host</code> <code>dbserver.bpm.sql.host</code> <code>dbserver.qaddb.sql.port</code> <code>dbserver.bpm.sql.port</code> 	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 2 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 2 Defect Fixes for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
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 2 Defect Fixes for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
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 2 Defect Fixes for YAB 1.10 (continued)

QAD Issue	New Functionality	Prior Functionality	Customer Technical Impact
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 3 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-<dbname>- 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 3 Enhancements for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
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 3 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 3 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"> • CHUI Login • WEBUI Login • QRA Authenticate • JDBC Connect • NETUI Connection Manager Check 	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 3 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"> • Check to ensure that auditing is enabled on the source and destination database. • Ability to use alternative audit storage area names configured through the settings for 'db.INSTANCE.audit.area' and 'db.INSTANCE.audit.indexarea.' • New 'audit.keep.exported.files' setting to retain the exported (*.abd) files. • New 'audit.enddate' setting to use 'date math' to define the records to export. 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 3 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 3 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"> • qad-analytics-core.firstDayOfFiscalYear • qad-analytics-core.firstDayOfWeek 	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 3 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"> • alerts.database.admin.username= • alerts.database.admin.password= • alerts.database.username= • alerts.database.password= • db.tmsdb.sqluser.admin.username= • db.tmsdb.sqluser.admin.password= • db.tmsdb.sqluser.normal.username= • db.tmsdb.sqluser.normal.password= Or they can use new settings to configure them: <ul style="list-style-type: none"> • db.alerts.users.admin.user= • db.alerts.users.admin.password= • db.alerts.users.admin.dba=true • db.alerts.users.admin.managed=true • db.alerts.users.default.user= • db.alerts.users.default.password= • db.alerts.users.default.managed=true • db.tmsdb.users.admin.user= • db.tmsdb.users.admin.password= • db.tmsdb.users.admin.dba=true • db.tmsdb.users.admin.managed=true • db.tmsdb.users.normal.user= • db.tmsdb.users.normal.password= • db.tmsdb.users.normal.managed=true
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 "opendedge.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 3 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 4 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"> • dependency.redirects • dependency.excludes • dependency.excludesreferences • dependency.overrides • packages.INSTANCE.patches 	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 4 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 4 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"> • The configured 'openedge.dir' directory does not exist • The OpenEdge version in directory 'openedge.dir' cannot be determined. 	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 4 Bug Fixes for YAB 1.9

QAD Issue	Prior Functionality	New Functionality	Customer Technical Impact
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.	The incremental compile will recompile a program if any of the indexes associated with a referenced table change. The first time code is recompiled after this update, source code that references tables will be recompiled with messages like these in the log: Compiling [PROGRAM] because the CRC value of the referenced table [TABLE] has changed since the last compile.	NA

Table 4 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 <= x <= 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 4 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.movearchivedatafiles' 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 5 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 6 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>PROTERMCPAP</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"><code>netui.client.browse.notification.timeout.INSTANCE.browseid</code><code>netui.client.browse.notification.timeout.INSTANCE.warn</code><code>netui.client.browse.notification.timeout.INSTANCE.cancel</code> Additionally, global settings can be configured using YAB: <ul style="list-style-type: none"><code>netui.client.browse.notification.warn</code><code>netui.client.browse.notification.cancel</code>
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 6 Fixes for YAB 1.8 (2 of 2)

QAD Issue	Summary
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 7 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">• Dump audit records from source database• Load dumped records into audit database• Delete dumped records from source database 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 7 Enhancements for YAB 1.7 (2 of 2)

QAD Issue	Summary
RFRD-4616	Introduced additional backup options: <ul style="list-style-type: none"> • dbbackup.estimate • dbbackup.com • dbbackup.io • dbbackup.scan • dbbackup.bibackup • dbbackup.bf • -enableaiarchiver • -arcinterval • -aiarekdir • -aiarekdircreate
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"> • mfs.environment.name • mfs.software.update.location • mfs.fsr.template.location
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"> • netui.connmgr.maxuses • netui.desktop.maxuses • netui.uiapi.maxuses

Fixes

Table 8 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 8 Fixes for YAB 1.7 (2 of 2)

QAD Issue	Summary
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 9 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 10 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"> • <code>db.qadddb</code> • <code>db.qadadm</code> • <code>db.qadhlp</code> • <code>db.qadcss</code>
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 10 Fixes for YAB 1.6 (2 of 2)

QAD Issue	Summary
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.”

