ManageEngine
ADSelfService Plus

List of third-party components used by

ADSelfService Plus

manageengine.com/products/self-service-password/

Document overview

This document catalogs all third-party components—including the database, programming software, web server, JAR files, and JavaScript files—that come bundled with ADSelfService Plus. These components are necessary for ADSelfService Plus to function seamlessly.

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Based on ADSelfService Plus build: 7000

Database		
Database type	**Version**	**Purpose**
PostgreSQL database	15.12	Stores product configuration details, reports, AD domain and object details, and other product-related details.

Programming software		
Programming technology type	**Version**	**Purpose**
Java Runtime Environment (JRE)	Azul Zulu 11.86.19 (OpenJDK version 11.0.30)	ADSelfService Plus is built using Java programming language. JRE is necessary to run the solution on the installed machines.

Web server		
Web server type	**Version**	**Purpose**
Apache Tomcat Server	9.0.118	Enables access to the product through a web browser or other web-based mobile or desktop applications.

Applications		
Application type	**Version**	**Purpose**
7za.exe	25.01	Archives files for database backups and unpacking PPM patches for updates and deployments.
RemoteExecM1.exe	2.0.0.1	Remotely installs the ADSelfService Plus Windows login agent on end-user and server machines, enabling MFA enforcement.

RemoteExecM2.exe	1.26.0.0	Facilitates remote execution of commands, primarily on domain controllers, to support password changes through PowerShell. Additionally, it manages the ADSelfService Plus login agent on machines.
wrapper.exe	3.5.51.0	Enables the application to integrate with OS service management tools, allowing administrators to easily start, stop, and configure the application.

Java libraries		
JAR file	**Version**	**Purpose**
activation.jar	1.0.2	Manages MIME types and content types, primarily for processing email attachments using the javax.mail API.
annotations-23.0.0.jar	23.0.0	Supplies annotation definitions required by dependent libraries.
antisamy-1.7.7.jar	1.7.7	Cleanses HTML code coming from untrusted sources.
batik-all-1.16.jar	1.16	Enables display, generation, or manipulation of SVG images.
batik-util.jar	1.16	Provides utility classes for resource handling, logging, and XML processing in core Batik operations.
bcpkix-jdk18on-1.84.jar	1.84	Generates SSL certificates and handles encryption/ decryption for SAML and MDM, ensuring secure data transmission.
bcprov-jdk18on-1.84.jar	1.84	Supplies the core cryptographic algorithms behind SSL certificate generation and SAML/MDM encryption and decryption.
bcutil-jdk18on-1.84.jar	1.84	Supports encryption, decryption, and certificate generation.
caffeine-3.2.2.jar	3.2.2	Maintains a Java cache for database calls, implemented as JCACHE (JSR-107).
checker-qual-3.39.0.jar	3.39.0	Supports webauthn4j-core's FIDO authentication and detects issues during both compilation and runtime.
chronicle-queue-5.21ea5-all.jar	5.21ea5	Provides a memory-mapped enhanced sequence.
commons-beanutils-1.11.0.jar	1.11.0	Supports the Apache Struts framework as a required dependency.
commons-chain-1.2.jar	1.2	Organizes the execution of complex processing flows in Java.
commons-codec-1.19.0.jar	1.19.0	Encodes and decodes data.

commons-collections-3.2.2.jar	3.2.2	Utility package for Java.
commons-collections4-4.4.jar	4.4	Manages expiring maps and lists.
commons-compress-1.28.0.jar	1.28.0	Compresses files.
commons-csv-1.14.1.jar	1.14.1	Reads and writes CSV files.
commons-digester.jar	1.8	Manipulates XML documents.
commons-fileupload-1.6.0.jar	1.6.0	Fetches the uploaded file in multipart and gets uploaded file details.
commons-imaging-1.0.0-alpha6.jar	1.0.0-alpha6	Reads and writes a variety of image formats.
commons-io-2.20.0.jar	2.20.0	Handles file operations.
commons-javaflow-20060411.jar	20060411	Enables JasperReports to execute the Export option.
commons-lang3-3.18.0.jar	3.18.0	Manipulates strings and numbers.
commons-logging-api.jar	1.1	Supports logging as a shared dependency.
commons-text-1.10.0.jar	1.10.0	Manipulates strings.
commons-validator-1.10.0.jar	1.10.0	Validates common user inputs like formats of IP addresses, email addresses, domain names, etc.
concurrent-trees-2.6.1.jar	2.6.1	Maintains tree-structured data.
converter-jackson-2.9.0.jar	2.9.0	Supports Duo Universal Prompt authentication.
cryptacular-1.2.6.jar	1.2.6	Cryptographic utility library built on Bouncy Castle (used by OpenSAML for encryption, hashing, and key handling).
cssparser-0.9.30.jar	0.9.30	Applies CSS filter.
cupv10k-runtime.jar	10	Validates XML documents against XSD schemas.
dd-plist.jar	1.20.0	Manipulates XML documents.
duo-universal-sdk-1.3.1.jar	1.3.1	Provides the Duo Universal SDK for Duo Universal Prompt MFA authentication.
duoweb.jar	2.0	Enables MFA using Duo Security.
esapi-2.7.0.0.jar	2.7.0.0	Encodes outputs.
encoder-1.3.1.jar	1.3.1	Encodes output to prevent cross-site scripting (XSS) attacks.

failureaccess-1.0.2.jar	1.0.2	Supports the Guava library as a required dependency.
fast-uuid-0.1.jar	0.1	Parses and writes UUIDs.
google-api-client-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account.
google-api-services-admin-directory_v1-rev53-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account.
google-auth-library-credentials-1.24.1.jar	1.24.1	Provides Google authentication credentials for secure access to Google services.
google-auth-library-oauth2-http-1.24.1.jar	1.24.1	Provides OAuth 2.0 authentication support for secure communication with Google services.
google-http-client-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account.
google-http-client-gson-1.44.2.jar	1.44.2	Provides HTTP client functionality with Gson-based JSON processing for Google service integration.
google-http-client-jackson2-1.20.0.jar	1.20.0	Syncs domain password with Google Workspace account.
google-oauth-client-1.33.3.jar	1.33.3	Syncs domain password with Google Workspace account.
gson-2.10.jar	2.10	Manipulates JSON files.
guava-33.4.8-jre.jar	33.4.8	Supports multiple Java components by providing common utility functions.
htmllexer.jar	2.0	Handles HTML files.
htmlparser.jar	2.0	Handles HTML files with advanced filter options.
httpclient5-5.5.jar	5.5	Establishes HTTP URL connections to the external clients from the server.
httpcore5-5.2.4.jar	5.2.4	Establishes HTTP URL connections to the external clients from the server.
jackson-annotations-2.21.jar	2.21	Manipulates JSON files.
jackson-core-2.21.1.jar	2.21.1	Manipulates JSON files.
jackson-databind-2.21.1.jar	2.21.1	Manipulates JSON files.
jackson-dataformat-cbor-2.21.2.jar	2.21.2	Supports FIDO authentication.
jackson-datatype-json-org-2.21.1.jar	2.21.1	Manipulates JSON files.

jackson-dataformat-xml-2.21.1.jar	2.21.1	XML data processing and parsing.
jasperreports-7.0.6.jar	7.0.6	Dynamic report generation.
jasperreports-data-adapters-7.0.6.jar	7.0.6	Connects reports to data sources.
jasperreports-excel-poi-7.0.6.jar	7.0.6	Excel (XLS/XLSX) report export.
jasperreports-jdt-7.0.6.jar	7.0.6	Report compilation support.
jasperreports-pdf-7.0.6.jar	7.0.6	PDF report export.
java-jwt-4.2.1.jar	4.2.1	Supports Duo Universal Prompt authentication.
javassist.jar	3.29.0	Manipulates Java bytecode.
javax.mail-1.6.1.jar	1.6.1	Implements the SMTP protocol dependency for email handling.
jaxb-api-2.3.1.jar	2.3.1	Binds Java objects to/from XML (marshalling and unmarshalling).
jbcrypt-0.4.jar	0.4	Implements bcrypt mechanism.
jcifs-1.3.18.3.jar	1.3.18.3	Implements NTLM authentication.
jcommon-1.0.24.jar	1.0.24	Generates the dashboard image—jfree dependency.
jdom2-2.0.6.1.jar	2.0.6.1	Builds SAML responses or requests.
jfreechart-1.5.6.jar	1.5.6	Generates the dashboard image.
jgroups-3.6.16.Final.jar	3.6.16.Final	Enables group communication and clustering support for distributed applications.
jjwt-0.9.0.jar	0.9.0	Creates and verifies JSON web tokens.
joda-time-2.2.jar	2.2	Manipulates time settings used for SAML authentication and schedulers.
jsch-0.1.55.jar	0.1.55	Enables SSH communication and file transfer in Java applications.
json.jar	20231013.0.0	Handles data in JSON format.
jstl-1.2.jar	1.2	Supports the Apache Struts framework.
jt400.jar	7.1.0.8	Syncs domain passwords with IBM accounts.
jta-1.1.jar	1.1	Supports the database transaction manager.
jtds-1.3.1.jar	1.3.1	JDBC driver for Microsoft SQL Server and Sybase database connectivity.

kerby-asn1-2.0.3.jar	2.0.3	Supports FIDO authentication.
kotlin-stdlib-1.7.21.jar	1.7.21	Supports Duo Universal Prompt authentication.
kotlin-stdlib-common-1.7.21.jar	1.7.21	Supports Duo Universal Prompt authentication.
kryo-4.0.1.jar	4.0.1	Serializes Java objects.
LGoodDatePicker-11.2.1.jar	11.2.1	Provides Date Picker calculation for the back end.
log4j-api-2.25.4.jar	2.25.4	Supports logging for POI.
maverick-legacy-client-all.jar	1.7.56	Provides SSH/SFTP client functionality used for secure remote communication.
metrics-core-4.2.30.jar	4.2.30	Dropwizard Metrics, which collects application performance metrics.
minlog-1.3.0.jar	1.3.0	Supports logging as a shared dependency.
micrometer-commons-1.15.2.jar	1.15.2	Collects and exposes application metrics for monitoring.
mssql-jdbc-8.4.1.jre8.jar	8.4.1	Microsoft JDBC driver for Microsoft SQL Server database connectivity.
mysql-connector.jar	9.4.0	Establishes MySQL database connections.
neko-htmlunit-4.17.0.jar	4.17.0	Escapes and filters HTML content.
netty-all-4.1.51.Final.jar	4.1.51.Final	Enables asynchronous network communication over TCP, UDP, and other protocols.
nimbus-jose-jwt-10.6.jar	10.6	Creates and verifies JSON web tokens.
objenesis-2.1.jar	2.1	Creates Java objects without invoking their constructors.
ojdbc8-19.15.0.0.1.jar	19.15.0.0.1	Oracle JDBC driver for Oracle database connectivity.
okhttp-4.10.0.jar	4.10.0	Establishes HTTP connections to Duo Security.
okio-jvm-3.16.1.jar	3.16.1	Supports Duo Universal Prompt authentication.
openpdf-1.3.36.jar	1.3.36	Edits and creates PDF files.
opensaml-core-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-core-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-messaging-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-messaging-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.

opensaml-profile-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-profile-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-saml-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-saml-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-security-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-security-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-soap-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-soap-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xacml-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xacml-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xacml-saml-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xacml-saml-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xmlsec-api-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
opensaml-xmlsec-impl-5.1.4.jar	5.1.4	Builds SAMLRequest and SAMLResponse for SSO.
org.eclipse.wst.xml.xpath2.processor_1.2.1.jar	1.2.1	Manipulates XML documents.
oro-2.0.8.jar	2.0.8	Supports the Apache Struts framework.
poi-5.5.1.jar	5.5.1	Manipulates various file formats.
postgresql-42.5.6.jar	42.5.6	Syncs domain password with the PostgreSQL database account.
pushy-0.14.1.jar	0.14.1	Sends push notifications via Apple Push Notification service for iOS, macOS, and Safari.
radclient3.jar	3.43p	Implements the RADIUS client for MFA.
reflectasm-1.10.1-shaded.jar	1.10.1	Performs Java object reflection.
retrofit-2.9.0.jar	2.9.0	Supports Duo Universal Prompt authentication.
service-proxy-core-4.8.8.jar	4.8.8	Reverses HTTP proxy dependency.

shib-velocity-9.1.6.jar	9.1.6	OpenSAML dependency.
shib-support-9.1.6.jar	9.1.6	OpenSAML dependency.
shib-security-9.1.6.jar	9.1.6	OpenSAML dependency.
shib-networking-9.1.6.jar	9.1.6	OpenSAML dependency.
simplecaptcha-1.2.1.jar	1.2.1	Enables advanced CAPTCHA with audio.
slf4j-api-2.0.17.jar	2.0.17	Supports logging as a shared dependency.
smslib-3.5.2.jar	3.5.2	Sends SMS notifications.
snakeyaml-2.4.jar	2.4	Parses YAML files.
sparsebitset-1.3.jar	1.3	Supports Apache POI as a shared dependency.
spring-shaded.jar	5.3.39	Provides load-balancing dependency support (modified version).
sqljdbc4.jar	4.0	Microsoft JDBC driver for Microsoft SQL Server database connectivity.
stax2-api-4.2.2.jar	4.2.2	Supports XML streaming.
struts-core-1.3.11.jar	1.3.11	Supports the Apache Struts framework.
struts-extras-1.3.11.jar	1.3.11	Supports the Apache Struts framework.
struts-taglib-1.3.11.jar	1.3.11	Supports the Apache Struts framework.
struts-tiles-1.3.11.jar	1.3.11	Supports the Apache Struts framework.
taglibs-standard-impl-1.2.5.jar	1.2.5	Implements standard JSP tag utilities.
tika-core.jar	3.2.2	Gets the MIME type of uploaded files.
trayicon.jar	1.0	Implements the Java Wrapper tray icon.
ua-parser.jar	1.6.1	Parses user agent.
unboundid-ldapsdk-7.0.4.jar	7.0.4	Communicates with LDAP directory servers.
webauthn4j-core-0.21.8.RELEASE.jar	0.21.8	Supports FIDO authentication.
webauthn4j-util-0.21.8.RELEASE.jar	0.21.8	Supports FIDO authentication.
wrapper.jar	3.5.51	Implements the Java Wrapper.
woodstox-core-7.1.0.jar	7.1.0	XML parsing and streaming engine.
xercesImpl.jar	2.12.2-xml-schema-1.1	Parses XML.

xml-apis-ext.jar	1.3.04	Provides extended XML DOM interfaces for XML processing.
xml-apis.jar	1.4.02	Supplies the DocumentBuilder API at runtime.
xmlbeans-5.1.1.jar	5.1.1	Compiles XML schemas and manipulates XML documents.
xmlbeautifier-1.2.2.jar	1.2.2	Manipulates XML documents.
xmlsec-3.0.4.jar	3.0.4	Manipulates XML documents.
xz-1.10.jar	1.10	Compresses data for Java applications.
yubico-validation-client2-3.0.5.jar	3.0.5	Enables YubiKey authenticator for MFA.
zero-allocation-hashing-0.27ea1.jar	0.27ea1	Provides high-speed, non-allocating hash functions used by Chronicle Queue.
zip4j-2.11.5.jar	2.11.5	Implements ZIP file format.
zxing-core-3.5.3.jar	3.5.3	Generates QR codes for MFA.

JavaScript		
JavaScript file	**Version**	**Purpose**
aes.min	4.1.1	Encrypts and decrypts data using the AES algorithm.
Bootstrap	3.4.1	Provides a CSS framework (modified version).
Bootstrap-colorpicker	2.5.2	Provides color selection UI (modified version).
Bootstrap-select	1.11.0	Adds a frame for drop-down lists (modified version).
bootstrap-toggle.js	2.2.0	Styles checkboxes as toggle switches (modified version).
bootstrap-tour.js	0.11.0	Creates guided product tours/walkthroughs.
bloodhound.min.js	0.11.1	Suggestion/data engine for typeahead.
Calendar	1.2.2.1	Incorporates calendars.
cipher-core.min	4.1.1	Provides the core cipher engine for encryption.
colour	1.1.4.3	Supports color selection in colourpicker.js.
colourpicker	1.1.8.3.2.1	Includes provisions to select color.
core.min	4.1.1	Core library for CryptoJS cryptographic functions.
Data	7.2.1	Supports the Highcharts data module dependency.

Daterangepicker	2.1.17	Supports the datepicker dependency.
diff_match_patch	-	Compares text and computes the differences.
drilldown.js	7.2.1	Adds drill-down capability to Highcharts charts.
DOMPurify	2.5.8	Sanitizes strings for HTML rendering.
Duo-Web-v2-min.js	2.0	Renders the Duo login prompt.
Ember	2.18	Powers scalable, feature-rich single-page apps.
enc-base64.min.js	4.1.1	Encodes and decodes data in Base64.
FileSaver	1.0	Saves files at the client end.
fwdaterangepicker.js	3.0.0	Lets users select a date/time range (modified Daterangepicker).
gridstack.min.js	0.3.0	Provides a draggable, resizable dashboard grid layout.
Highcharts	7.2.1	Adds interactive JavaScript charts for webpages (modified version).
hmac.min.js	4.1.1	Generates HMAC for message authentication.
icheck	1.0.2	Customizes checkboxes and radio buttons.
jQuery	3.7.1	Provides core JavaScript utility functions used throughout the UI.
jquery.bxslider	4.2.12	Responsive jQuery content slider.
jquery.Jcrop	0.9.12	Plugin to enable image cropping.
jquery.mCustomScrollbar	3.0.6	Adds custom scroll bar.
jquery.mousewheel	3.1.13	Supports cross-browser mouse wheel.
jquery.navgoco	0.2.1	Turns a nested unordered list of links into a vertical multi-level sliding navigation.
jquery-migrate-1.4.1.min.js	1.4.1	Restores deprecated jQuery APIs for backward compatibility.
jquery-te-1.4.0.js	1.4.0	Provides a rich-text (WYSIWYG) editor for formatting text in the UI.
jquery-ui	1.14.0	Adds UI interactions, effects, widgets, and themes built on top of the jQuery JavaScript library.
jsencrypt.min	3.0.0	Provides RSA encryption for secure client-side data encryption.
jsTree	3.0.9	Provides interactive tree structure.
json.js	-	JSON parse/stringify polyfill.

less.min.js	2.2.0	Converts LESS files to CSS files at the client end.
lodash.min.js	3.5.0	Utility library providing helper functions (required as a dependency by gridstack.min.js).
Moment	2.29.4	Parses, validates, manipulates, and displays dates and times.
pbkdf2.min.js	4.1.1	Derives encryption keys from passwords (PBKDF2).
perfect-scrollbar.js	-	Custom scrollbar plugin.
sha256.min.js	4.1.1	Generates SHA-256 hash values.
simplebar.js	5.3.3	Custom styled scrollbars replacing native browser scrollbars.
simplebar.min.js	5.3.3	Minified production build of SimpleBar for custom scrollbar rendering.
tag-it.min.js	-	jQuery UI-based widget for tag input and management.
typeahead.bundle	0.10.5	Enables typeaheads.
typeahead.jquery	0.11.1	Enables typeaheads.

Our Products

AD360 | Log360 | ADManager Plus | ADAudit Plus
RecoveryManager Plus | M365 Manager Plus

ManageEngine
ADSelfService Plus

ADSelfService Plus is an identity security solution to ensure secure and seamless access to enterprise resources and establish a Zero Trust environment. With capabilities such as adaptive multi-factor authentication, single sign-on, self-service password management, a password policy enhancer, remote work enablement and workforce self-service, ADSelfService Plus provides your employees with secure, simple access to the resources they need. ADSelfService Plus helps keep identity-based threats out, fast-tracks application onboarding, improves password security, reduces help desk tickets and empowers remote workforces.

For more information about ADSelfService Plus, visit www.manageengine.com/products/self-service-password.

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