

AutoVue Integration SDK

Security and Authentication Guide

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Contents

1. Preface	4
1.1 Audience.....	4
1.2 Documentation Accessibility	4
1.3 Accessibility of Code Examples in Documentation.....	4
1.4 Accessibility of Links to Extern Web Sites in Documentation.....	4
1.5 Deaf/Hard of Hearing Access to Oracle Support Services	4
1.6 Related Documents	5
2. Introduction	6
3. Single Sign On (SSO) / Cookies	6
4. Basic or NTLM Authentication.....	7
5. Encryption of User Credentials	7
6. Logging and User Info.....	7
7. Feedback.....	8

1. PREFACE

The *AutoVue Integration SDK Security and Authentication Guide* is a high-level description about security and authentication mechanisms provided in this release of Integration SDK.

For the most up-to-date version of this document, go to the AutoVue Documentation Web site on the Oracle Technology Network at <http://www.oracle.com/technetwork/documentation/autovue-091442.html>.

1.1 Audience

This document is intended for Oracle partners and third-party developers (such as integrators) who want to implement their own integration with AutoVue.

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1.6 Related Documents

For more information, see the following documents in the AutoVue Integration SDK library:

- *Overview*
- *Installation Guide*
- *User Guide*
- *Acknowledgments*
- *Technical Guide*
- *Javadocs*

2. INTRODUCTION

AutoVue release 20.0 has security enhancements. All integrations with AutoVue will need to be updated to leverage these enhancements.

AutoVue 20.0 provides security enhancement by encrypting the content of the authorization block in its request and sending only once user credentials captured such as user name and password. But cookies will be sent in all requests.

AutoVue allows for backward compatibility for the 19.3-level encryption of the authorization block. That is, AutoVue will not encrypt the content of the authorization block in its request and but sends only once user credentials captured. You can enable this backward compatibility by setting options `dms.vuelink.version=19.3` in file `autovue.properties` on the AutoVue server. This backward compatibility option will be removed in the next release of AutoVue. If you are using a 19.3-compatible integration, we recommend that you upgrade your integration to be compatible with AutoVue 20.x as soon as possible.

AutoVue no longer supports backward compatibility for 19.2-level integration.

To facilitate the integration with the backend system, AutoVue Integration SDK (ISDK) provides two authentication mechanisms: Single Sign On (SSO) with Cookies and Basic/NTLM/Customized Authentication.

The following section is a high-level description about security and authentication mechanisms provided in this release of Integration SDK. Refer to **Tech Guide** for detailed information about how to implement the security and authentication mechanisms in your integration.

3. SINGLE SIGN ON (SSO) / COOKIES

The Integration SDK can retrieve cookies set by Web browser when AutoVue is launched in order to achieve SSO. Browser cookies are automatically captured by AutoVue and passed to the Integration SDK inside Authorization block of AutoVue request.

- It is recommended to set the AutoVue applet parameter `DMS_PRESERVE_COOKIES` to the list of cookies needed for your integration. Setting this parameter to `TRUE` will direct AutoVue to pass all cookies to the Integration. For security reasons, it is not recommended to set this parameter to `TRUE`.

- Cookie can be retrieved from Authorization block of AutoVue request and passed to the backend DMS

4. BASIC OR NTLM AUTHENTICATION

When Integration SDK fails to connect to backend DMS, it can instruct AutoVue to prompt user with Authorization dialog for basic or NTLM authentication or authentication with customized information fields.

Basic authentication includes two input fields – user name & password.

NTLM Authentication will include three input fields – user name, password & domain. Customized Authentication has customized fields.

Since user credentials captured by are only sent once by AutoVue 20.1 by default, it is important for the Integration SDK to cache authentication information and retrieve them in subsequent requests.

5. ENCRYPTION OF USER CREDENTIALS

AutoVue Release 20.0 contains enhanced encryption for the authorization block in its request. To support the Authorization encryption,

- ISDK will handle a get property request to return a value for public key.
- AutoVue server will use ISDK public key to encrypt entire Authorization block.
- AutoVue server will include its public key in the requests sending to ISDK. ISDK will then use AutoVue's public key to decrypt the content of Authorization block.
- All the above handling is done at the ISDK framework level and thus is transparent to your integrations based on ISDK 20. Existing interface for returning authorization elements remain unchanged.

In addition to the encryption of the authorization block, the password inside the authorization block has another level of encryption.

6. LOGGING AND USER INFO

For security reasons, the Integration SDK does not dump to the logs any sensitive user/password information.

7. FEEDBACK

Oracle Corp. products are designed according to your needs. We would appreciate your feedback, comments or suggestions. Contact us by e-mail or telephone. Let us know what you think.

General Inquiries:

Telephone: +1.514.905.8400 or +1.800.363.5805

E-mail: autovuesales_ww@oracle.com

Web Site: <http://www.oracle.com/us/products/applications/autovue/index.html>

Sales Inquiries:

Telephone: +1.514.905. 8400 or +1.800.363.5805

E-mail: autovuesales_ww@oracle.com

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