



## Wonderware Security Advisory LFSEC00000115

### Title

Historian Default Login Credentials

### Rating

High

### Published By

Wonderware|Schneider Electric Security Response Center

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### Overview

Wonderware Historian creates native SQL logins with default passwords, which can allow a malicious entity to compromise Historian databases. In some installation scenarios, SQL resources beyond those created by Wonderware Historian may be compromised as well.

### Background

Wonderware Historian creates the following SQL native logins for applications other than Historian to interact with Historian databases and data:

**aaUser, wwUser, aaPower, wwPower, aaDbo, wwDbo, aaAdmin, wwAdmin**

These logins are created with default credentials within SQL Server. The admin logins (aaAdmin and wwAdmin) further vary in that:

- If Wonderware Historian is installed by itself, the admin logins' privileges are limited to Historian database rights.
- If Wonderware Historian is installed with Wonderware Application Server GR Feature on the same node and Wonderware Application Server is using Legacy Security mode as opposed to Enhanced Security mode, the admin logins' privileges effectively become a sysAdmin.

### Affected Products and Components

The following table identifies the currently supported products affected.

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| Product and Component                            | Supported Operating System | Security Impact                              | Severity Rating |
|--|----------------------------|--|-----------------|
| Wonderware Historian 2014 R2 SP1 P01 and earlier | Multiple Windows OS        | Confidentiality, Integrity, and Availability | High            |

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## Vulnerability Characterization and CVSSv3 Rating

CWE-255: Credentials Management.

- Historian only install: **7.3** | [CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:L/I:L/A:L](#)
- Historian + Application Server install: **9.8** | [CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H](#)

## Mitigation

Wonderware Historian software does not make use of any of the created native SQL logins. These logins are only created for software other than Historian to interact with Historian data.

Schneider Electric **strongly recommends** that the following steps be taken to mitigate this vulnerability:

1. Identify where the logins are used. Some likely places for the logins to have been used are:
  - a. Wonderware Historian Client
  - b. Wonderware InTouch and Application Object scripts
  - c. Wonderware Information Server configuration
  - d. Custom applications not supplied by Schneider Electric that interact with Historian data
2. Logins that are not used should be disabled from the SQL Server Management Studio
3. For logins that are still in use, the passwords should be changed from the default

For an increased level of security, Schneider Electric and Microsoft further advise that connectivity to SQL Server be accomplished with Windows Integrated Security as opposed to using native SQL logins.

## Acknowledgements

Schneider Electric would like to thank:

- **Ruslan Habalov and Jan Bee of the Google ISA Assessments Team** for the discovery and responsible disclosure of this vulnerability
- **ICS-Cert** for coordination of advisories



## **Support**

For information on how to reach Schneider Electric support for your product, please refer to this link: [Schneider Electric Software Global Customer Support](#).

If you discover errors or omissions in this Security Notification, please report the finding to support.

## **Wonderware Security Central**

For the latest security information and security updates, please visit [Security Central](#).

## **Cyber Security Standards and Best Practices**

For information regarding how to secure Industrial Control Systems please reference [NIST SP800-82r2](#).

## **NVD Common Vulnerability Scoring System (CVSS v3)**

The U.S. Department of Homeland Security has adopted the common Vulnerability Scoring System (CVSS v3) that provides an open framework for communicating the characteristics and impacts of IT vulnerabilities. CVSS v3 produces a numerical score as well as a textual representation of that score reflecting the severity of a vulnerability. Scores range from 0.0 (no impact) to a maximum of 10.0 (critical impact with minimal effort to exploit). For additional information please refer to the [CVSSv3 specifications](#).

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