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Introduction

To use the Wonderware Historian Client application, you must first connect to a Wonderware Historian Server using a valid user account that has permissions to retrieve data. You can use either your Windows user account (integrated security) or a valid SQL Server user account, depending on how the Wonderware Historian Server is configured.

Use a powerful login such as **sa** in the **Server List Configuration** for the initial Historian Client (Trend or Query) connection to a Historian Server. If the sa-level permission is not used, the Historian Client might not be able to connect to the Historian Server using a login such as **wwUser** or **aaUser** and will encounter an error (Figure 1 below).

Note: This issue does not occur if a powerful login such as sa is used the very first time a connection is made.

This Tech Note provides detailed procedures for solving this problem.

Application Versions

- Wonderware Historian Client v10.0 or later
- Wonderware Historian Server v10.0 or later
- · Microsoft SQL Server 2005 SP3 or later

Assumptions

This Tech Note assumes that you are familiar with the following products:

- Historian Server v10.0 or later
- Historian Client v10.0 or later
- Microsoft SQL Server v2005 or v2008

Procedure

When the sa-level permission is not used for the initial connection, you can see the following error:



FIGURE 1: ERROR WHEN USING 'WWUSER' OR 'AAUSER' (INITIAL) LOGIN

To check to see if you are using 'wwUser' login.

1. In the Historian Client, click Tools > Servers. The **Server List Configuration** dialog box appears (Figure 2 below). This example shows connecting the client to a Historian **BRIANN6** using the SQL Server **wwUser** login.

	Jon	Server list	
Server: BRI	ANN6	BRIANN5	
Authenticatio	n information		
🗆 Use Integ	rated security		
Login ID:	wwUser		
Password:	*****		
	Remember password		
Domain:			
Timeouts in se	conds		
Connection:	30 1 Query: 120		
Base URL:			
	ry:		
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FIGURE 2: SERVER LIST CONFIGURATION

2. Click the LogOn button. An error message similar to Figure 1 (above) will appear. Complete the following steps to change the logon.

Solution

To resolve the problem, you need to configure **View definition** properties in two Stored Procedures for both the wwUser and aaUser logins. You can complete the steps using the SQL Server Management Console (below) or programmatically.

Using the SQL Server Management Console

- 1. Open SQL Server Management Studio (Click Start > All Programs > Microsoft SQL Server 2008 or SQL Server 2005).
- 2. Expand Databases > Runtime > Programmability > Stored Procedures. Locate the dbo.aaManualTagInsert Stored Procedure (Figure 3 below).



FIGURE 3: DBO.AAMANUALTAGINSERT

- 3. Right-click dbo.aaManualTagInsert and click Properties. The Stored Procedure Properties aaManualTagInsert dialog box appears.
- 4. Click the **Permissions** page (Figure 4 below):

Permissions Extended Properties	Qviner.	dto			
	Stored procedure pame:	aaManualTagInset			
	Users or roles:				Sgarch
	Name		1	Туре	
	aaAdministrators			Database role	
	aaPowerUsers			Database role	
	🙍 vwaAdministrators			Database role	
				Database sole	
	Permissions for anAdministr	abree-		000000	
rection	Permissions for aaAdministr Explicit Ettective	alors:		00000	
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er. NN6	Permissions for aaAdministr Explicit Etfective	ators: Grantor dbo	Grant	With Grant	Deny
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er: WN6 hection: Phiniannu View connection properties	Permissions for aaAdministr Explicit Etfective Permission Alter Control Execute Take ownership	ators: Grantor dbo dbo dbo dbo dbo	Grant	With Grant	Deny
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FIGURE 4: STORED PROCEDURE PROPERTIES

The wwUsers and aaUsers database roles are missing from the name list and should be added.

5. To add these roles, click the Search button. The Select Users or Roles dialog box appears (Figure 5 below).

ers, Database roles, Application roles	Object Types
the object names to select (<u>examples</u>):	
	Check Names

FIGURE 5: SELECT USERS AND ROLES

- 6. Type wwUsers in the Enter the object names to select (examples): field.
- 7. Click Check Names. The object name changes to [wwUsers].

sers, Database roles, Application roles	Dbject Types
ter the object names to select (<u>examples</u>)	
wUsers]	Check Names

FIGURE 6: SELECT USERS OR ROLES [WWUSERS]

- 8. Click OK.
- 9. In the Stored Procedure Properties window, highlight wwUsers role.

10. In the **Permissions for wwUsers** panel, highlight **View definition** row and click **Grant**.

Permissions Extended Properties	Qwner.	dbo			
	Stored procedure pame:	aaManualT aginsert			
	Users or roles:				Sgarch
	Name			Туре	
	aaAdministrators			Database role	
	aaPowerUsers			Database role	
	👧 www.Administrators			Database role	
				Database role	
	wwPowerUsers				
	wwPowerUsers wwUsers			Database role	9
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FIGURE 7: GRANT VIEW DEFINITION FOR WWUSERS

11. Repeat steps 5-10 for the **aaUsers** Database role:

Select a page	Script - 🚺 Help				
General Permissions Extended Properties	Qwner:	dbo			
	Stored procedure name:	aaManualTagInsert			
	Harris and a	,			Search
	Users or roles:				- Jaion.
	Name			Туре	
	aaAdministrators			Database role	
	aaPowerUsers			Database role	
	aaUsers			Database role	2
	🧟 www.Administrators			Database role	
	MwPowerUsers			Database role	
					00
	wwUsers			Database role	2
Connection	Permissions for aaUsers:			Database role	
Connection Server: PDIANNC	Permissions for aaUsers: Explicit Effective	Grantor	Grant	Database role	Deny
Connection Server: BRIANN6	Permissions for aaUsers: Explicit Effective Permission Alter	Grantor dbo	Grant	Vith Grant	Deny
Connection Server: BRIANN6 Connection: COBP\brianou	Permissions for aaUsers: Explicit Effective Permission Alter Control	Grantor dbo dbo	Grant	With Grant	Deny
Connection Server: BRIANN6 Connection: CORP\briannu	Permissions for aaUsers: Explicit Effective Permission Alter Control Execute	Grantor dbo dbo dbo	Grant	Vith Grant	Deny
Connection Server: BRIANN6 Connection: CORP\briannu IV View connection properti	Permissions for aaUsers: Explicit Effective Permission Alter Control Execute Take ownership	Grantor dbo dbo dbo dbo	Grant	Vith Grant	Deny
Connection Server: BRIANN6 Connection: CORP\briannu Wiew connection properti Process	Permissions for aaUsers: Explicit Effective Permission Alter Control Execute Take ownership View definition	Grantor dbo dbo dbo dbo dbo dbo	Grant	Vith Grant	Deny
Connection Server: BRIANN6 Connection: CORP\briannu Wiew connection properti Progress	Permissions for aaUsers: Explicit Effective Permission Alter Control Execute Take ownership View definition	Grantor dbo dbo dbo dbo dbo dbo dbo	Grant	Vith Grant	Deny
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Connection Server: BRIANN6 Connection: CORP\briannu IView connection properti Progress Ready	Eermissions for aaUsers: Explicit Effective Permission Alter Control Execute Take ownership View definition	Grantor dbo dbo dbo dbo dbo	Grant	Vith Grant	Deny

FIGURE 8: GRANT VIEW DEFINITION FOR AAUSERS

12. Repeat steps 5-11 in order to configure Grant View definition for both wwUsers and aaUsers for the **dbo.aaManualTagSingleValueInsert** Stored Procedure.

lecta page	Script - Help					
^a General ^a Permissions ^a Extended Properties	Qwner.	dbo				
	Stored procedure name:	aaManualTagSingleValueInse	at			
	Users or roles:					Sgarch.
	Name				Туре	
	aaAdministrators				Database role	
	aaPowerUsers				Database role	
	aaUsers				Database role	
	🔬 wwwAdministrators				Database role	
	👧 wwPowerUsers				Database role	
	16.28					
	wwUsers				Database role	1
nection	Permissions for aaUsers: Explicit Effective				Database role	
nection ver: ANNG	Permissions for aaUsers: Explicit Effective		Grantor	Grant	Database role With Grant	Deny
nection Ver. ANNS	Permissions for aaUsers: Explicit Effective Permission Alter		Grantor dbo	Grant	Database role	Dery
nection ver: ANN6 nection: RP\briannu	Permissions for aaUsers: Explicit Effective Permission Alter Control		Grantor dbo dbo	Grant	Database role	Dery
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nection ver: IANN6 mection: RP\briannu View connection properties grees	wwWsers Permissions for aaUsers: Explicit Effective Permission Alter Control Execute Take ownership View definition		Grantor dbo dbo dbo dbo dbo	Grant	Vith Grant	Deny
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FIGURE 9: GRANT VIEW DEFINITION FOR AAUSERS FOR THE DBO.AAMANUALTAGSINGLEVALUEINSERT STORED PROCEDURE

13. Click **OK** then restart the MS SQL Server.



FIGURE 10: RESTART SQL SERVER

14. Click Yes when prompted to restart the SQL Server.



FIGURE 11: RESTART MSSQLSERVER SERVICE

You can now logon from a Historian Client using wwUser.



FIGURE 12: SUCCESSFUL CLIENT LOGON

Programmatically

Alternatively, you can run the following Transact-SQL script to grant the appropriate permissions to the stored procedures:

```
USE Runtime

GO

GRANT VIEW DEFINITION ON [dbo].[aaManualTagInsert] TO [wwUsers]

GO

GRANT VIEW DEFINITION ON [dbo].[aaManualTagInsert] TO [aaUsers]

GO

GRANT VIEW DEFINITION ON [dbo].[aaManualTagSingleValueInsert] TO [aaUsers]

GO

GO
```

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