System Galaxy Addendum

Legacy Active Directory User Import

Legacy systems – Importing Users from Active Directory

Newer Systems use AD Change Monitor App

(Retired) System Galaxy v10.5.6 | JAN 2018



System Galaxy Version 10.X

A How-To Guide

For Importing users from Active Directory

Information in this document is subject to change without notice. Therefore, no claims are made as to the accuracy or completeness of this document.

2nd edition JAN 2018 Copyright © 201 + Galaxy Control Systems + All rights reserved

No part of this document may be reproduced, copied, adapted, or transmitted, in any form or by any means, electronic or mechanical, for any purpose, without the express written consent of Galaxy Control Systems. Copyright protection claims include all forms and matters of copyrighted material and information, including but not limited to, material generated from the software programs, which are displayed on the screen such as icons, look and feel, etc.

Microsoft[®], Windows[®], Active Directory[®] and SQL Server[®] are registered trademarks of

Trademarks

Galaxy Control Systems

3 North Main Street Walkersville MD 21793 800.445.5560

Adobe[®], Acrobat[®] are registered trademarks of Adobe Systems Inc.

Microsoft Corporation in the U.S. and other countries.

www.galaxysys.com

This PDF is created with Adobe. Graphics and illustrations by Candace Roberts, SQA & Technical Writer.

TABLE OF CONTENTS

System Galaxy 10.x Active Directory Integration Notes	4
Requirements	4
Configuration	7
GCSActiveDirectoryChangeMonitor tool	7
GCSActiveDirectoryService	8
Encryption	9

Revision / Date	Changes
SG 10.3	AD Support introduced, using MS Server 2008 R2 operating system.
SG 10.5.1	2 ND Edition – changes include:
	1. Update cover 10.5.1,
	update OS support for 2008 R2 "(OR LATER)".
	3. Notice that changes in software provide greater scope of support for
	AD, transparent to user setup instruction document(this guide).

System Galaxy 10.x Active Directory Integration Notes

Summary: The integration allows user accounts in Active Directory to be pushed into the System Galaxy database manually or automatically. Along with textual data the user account can be assigned access profiles and badge templates. Any changes in Active Directory after that point can be pushed into the System Galaxy database automatically.

There are two new applications that provide the active directory integration capabilities:

GCSActiveDirectoryChangeMonitor

• Windows application for manually importing users as well as changes from active directory into the System Galaxy database. It also will set the parameters needed in the GCSActiveDirectoryService service.

GCSActiveDirectoryService

• Windows service that polls active directory for changes (new additions, updates and deleted users)

Requirements

This integration is only supported using Active Directory provided with Windows Server 2008 R2 (or later) and System Galaxy 10.x. Any attempts to use this feature with other versions of SG and AD may work but will not be supported by Galaxy Control Systems.

Contact Galaxy Control Systems Certified Dealer for Questions.

1) PC needs to be already joined to the domain.

2) Users signed into Windows domain must have "replication directory changes" permissions in AD to use the GCSActiveDirectoryChangeMonitor program.

3) A domain user account must be assigned to the GCSActiveDirectoryService service to run and must have "replication directory changes" permissions in AD. Go to root of domain and assign user account REPLICATING DIRECTORY CHANGES

laxysysdev.local Properties	?>
General Managed By Object Security Attribute Editor	
Group or user names:	
Administrators (GALAXYSYSDEV\Administrators)	3
Re-Windows 2000 Compatible Access (GALAXYSYSDEV\Pre	
Kincoming Forest Trust Builders (GALAXYSYSDEV\Incoming For	
ENTERPRISE DOMAIN CONTROLLERS	1
Tweedle dum (tdee@galaxysysdev.local)	-
· · · · · · · · · · · · · · · · · · ·	2
Add Remove	
Demissions for humanita dum	
Penhissions for weedle dam Allow Deny	П
	-
Replicating Directory Unanges	
Replicating Directory Unanges in Filtered Set	-
For special permissions or advanced settings, click	1
Advanced.	
Learn about access control and permissions	
OK Cancel Apply Help	

4) There is no registration feature for AD. It however needs to be enabled in SG Settings Editor. Set value to 1.

File View Help		
f C -		
□ 🗐 DEV2 (x2FG3F57X43TG6XNH)	Name	Value
🚊 💼 System Galaxy	Alarm Status Timer Value	250
Alarm Panels	Always Load On Apply	1
Alarm View	Automatic Load Timer Value	60
AlphaCom Ontions	Automatic Ping Enabled	1
Card Finder	Automatic Ping Timer Value	60000
	Brand New	0
Client Gateway	Connect To ClientGateway Timer	15000
Debug	Crypto Key	
Elevator	CSD Settings Enabled	0
Evacuate Facility	Error Log Path	C:\GCS\Sys
Filters	HKEY_CURRENT_USER	0
Generic DVR	Ignore Trouble Events	0
lockdown Facility	Ignore Unarmed Events	0
Bonun Granhic	Logfiles Path	C:\GCS\Sys
Perintration	Popup On Warnings	0
Registration	Programming Reader ID	0
Reports	Reclaim Resources Enabled	1
Sagem	Record DB Access Times	0
Sagem MorphoAccess	Run Loop Wizard If No Loops	1
🚞 Scheduled Output Trigger	Sanofi Data2 ID	0
	Store Settings In Registry	0
Startup	Temp Path	C:\GCS\Sys
Sybase Backup	Threads Share DB Connection	1
Sybase backup	Use MACI	0
	Using Active Directory	0
	Using Slow Network Connection	0
	Warn If X Logs Are Buffered	10

5) GCSDataloader service must be running for changes to take affect.

6) (Optional) Map fields between SG database and AD database. System Settings->cardholder options. The following fields are already mapped:

FirstName LastName HomePhone Phone State Zip Code Address 1 Address 2

Badging Options	CCTV Opt	ions Time	& Attendance Options	Guard Tour Optio	ons Card Data	Import \Export Options
General Options	Alarm Options	Report Options	Multi-Media Options	Audit Options	Database Options	Cardholder Option
Field Options:			Assign F	ecord ID Range:		
Title		Database Field	Minimum	Maxir	num	
Access	-	CARD.BQT_36B_I		0		
Access Profile		CARD.CARD_CLAS	SS_			
Action if Server	Does Not R	CARD.OVERRIDE	_NC			
Active Date		CARD.ACTIVE_DA	TE Allow F	ecord ID editing	`_t	
ADDED_DATE		CARDHOLDERS.A	DD Move t	Durrent Record Af	er Edit	
ADDED_DATE		CARD.ADDED_DA	TE Clear A	I Fields When Addin	a New Records	
Address 1		CARDHOLDERS.A	DD Enable	'Next Code' button	Barcode & Mag Stripe	cards only)
Address 2			Alert W	hen Similar Name A	dded	
Agency Radaa Design		CARD.FIV_AGENC	Resour	ce Pool Enabled		
Bace #		CARD MA 300 DE	Reso	urce Pool Field		
Card Code		CARD.FULL_CARD	Data	21 (CARDHOLDER	S.DATA_21)	-
•	III		Default Co	mmon ID Format: (1) characters max. comb	pined length)
Mandatory Fi	eld			+ Record ID	+	No Padding
Select List			Specify Ac	cess Profile Behavio	or:	
			Access P	ofile controls all four	access group lists	-
Active Directo	ry Settings				-	
Edit Card Tec	hnologies					

Note - use the GCSActiveDirectoryChangeMonitor tool to see the AD column header names.

Configuration

GCSActiveDirectoryChangeMonitor tool

Summary: Use the tool to initially push desired cardholder accounts from AD into the System Galaxy database. Afterward, the GCSActiveDirectoryService service will add/modify/disable cardholder records automatically.

1) Launch the GCSActiveDirectoryChangeMonitor tool - %system drive%\GCS\System Galaxy\OptionalServices\ActiveDirectory\ and logon using SG credentials.

2) Click on [Read All AD Users] to list all AD user accounts. It is possible to filter by column so only selected records will be pushed to the System Galaxy database. Click on on the filter icon next to the column header name and select desired records.



3) Verify settings for [Default Card Options:] section. There are three important settings to choose from in this section pertaining to access assignment.

a) [Use person's active directory primary group as their access profile]. This option will automatically create an access profile within System Galaxy with the same name as the primary group for the user account in Active Directory. The default primary group for all user accounts in AD is domain users.

b) [Always assign default access profile]. This option will assign all selected user accounts a default access profile that is created in System Galaxy. You must choose a default profile to assign from the [Select Default Access Profile] dropdown list. This list will only populate if access profiles were created in SG beforehand.

c) [Do not assign any access profile]. No profiles will be assigned to selected user accounts.

4) Click on [Edit Settings] for the GCSActiveDirectoryService service. Additional settings need to be configured before they can be saved the service itself.

a) The default location for the log and cookie will work in most cases. Change to desired path if necessary.

b) Fill in the username and password field and click [ok] to save settings.

5) Determine how frequently the GCSActiveDirectoryService service will look for changes and click on [Save Settings For Service] button to save all the configuration parameters for the service.

6) Verify the correct user accounts are shown in the list and click on [Push AD Users to System Galaxy DB] button. Check within the System Galaxy to verify user account have come across with the proper information.

7)(Optional) Edit an Active Directory user account to make sure the changes are updating within the specified time set for the GCSActiveDirectoryService service.

GCSActiveDirectoryService

Summary: Service will automatically add/modify/disable user accounts from Active Directory to the System Galaxy database.

1) The GCS Active Directory Service will install automatically with Part 3 of the Galaxy Software install and will be set to startup **MANUALLY.**

2) Verify service has installed properly, in the Windows service manager screen. You must edit the service properties and configure it to run **AUTOMATICALLY.**

Services (Local)				
GCSActiveDirectoryService	Name	Description	Status	Startup Tyj
Stop the service Restart the service Description: This service monitors Active Directory for user changes and pushes data nto the System Galaxy database	 Distributed Transaction Co DNS Client Encrypting File System (EFS) ESET HTTP Server ESET Service Extensible Authentication P Fax Function Discovery Provide Function Discovery Resour 	Coordinates The DNS Cli Provides th ESET HTTP ESET Service The Extensi Enables you The FDPHO Publishes th	Started Started Started Started	Manual Automatic Manual Automatic Manual Manual Manual Manual
	GCSActiveDirectoryService GCSAImPnl GCSAIphaCom GCSCCTV GCSClientGW GCSComm	This service Provides co Provides co Provides au Provides Ga Provides co	Started Started Started	Automatic Manual Manual Manual Automatic Automatic

a) Assign a domain user to the service.

ieneral Log Or	Recov	ery Dependencies		
Log on as:				
Local System	n account			
Allow ser	vice to inte	eract with desktop		
This account	t:	administrator@gala	ysysdev	Browse
Password:		•••••	••	
Confirm pass	word:		••	1
Help me config	In Light Sc	count log on option		
Help me configu	ure user ac	count log on option	<u>s.</u>	
<u>Help me confiqu</u>	ure user ac	count log on option	<u>8.</u>	
<u>Help me confiqu</u>	ure user ac	count log on option	<u>s.</u>	
<u>Help me configu</u>	ure user ac	count log on option	<u>8.</u>	
Help me configu	ure user ac	count log on option	<u>s.</u>	
Help me configu	ure user ac	count log on option	<u>s.</u>	
Help me configu	ure user ac	count log on option	<u>s.</u>	

Encryption

Summary: You can encrypt and decrypt the data in a configuration file's configuration sections. A configuration section contains the configuration information for an application block.

The Microsoft Enterprise Library Configuration Tool, located on disk2, must be used to edit and encrypt the database connection string. The file location is %optical drive%:\Components\Microsoft Enterprise Library 5:

🔾 🗢 🖉 🖉 🖉 VD E)rive ((D:) SysGalV10_3_DVD2	osoft Enterprise Library	5	▼ 47	Search	
Organize ▼ Share with ▼							
🔆 Favorites	-	Name	Date modified	Туре	Size		
🧮 Desktop		🔤 EntLibConfig	4/16/2010 2:17 PM	Application	15	5 KB	
🗼 Downloads		📑 EntLibConfig.exe	4/16/2010 1:41 PM	XML Configuratio		1 KB	
🔚 Recent Places		🔜 EntLibConfig.NET4	4/16/2010 2:17 PM	Application	15	55 KB	
		🗈 EntLibConfig.NET4.exe	4/16/2010 1:41 PM	XML Configuratio		1 KB	
🥽 Libraries		🔜 EntLibConfig.NET4-32	4/16/2010 2:17 PM	Application	15	55 KB	
Documents		🚯 EntLibConfig.NET4-32.exe	4/16/2010 1:41 PM	XML Configuratio		1 KB	
👌 Music	-	🔜 EntLibConfig-32	4/16/2010 2:16 PM	Application	15	55 KB	
Pictures	=	🗈 EntLibConfig-32.exe	4/16/2010 1:41 PM	XML Configuratio		1 KB	
📑 Videos		MergeConfiguration	4/16/2010 2:17 PM	Application	2	27 KB	
		Microsoft.Practices.EnterpriseLibrary.Cac	4/16/2010 2:16 PM	Application extens	3	89 KB	

1) Execute the Enterprise Library configuration utility (EntLibConfig.NET4.exe or EntLibConfig.NET4-32.exe)

Open the application configuration file and select the desired AD configuration files:



2) Expand the desired section to be encrypted; in the example DATABASE SETTINGS is selected. Click on the double arrow icon highlighted below.



3) Choose the desired encryption method (refer to *Encrypting Configuration Data*)



4) Save the configuration file.

5) Open the configuration file with notepad and verify the appropriate sections are encrypted.