



# Galaxy Control Systems

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Date: 28 JAN 2015

Galaxy Control Systems supports AES Encrypted communications at the Galaxy Access Control Panels, System Galaxy software application and software services.

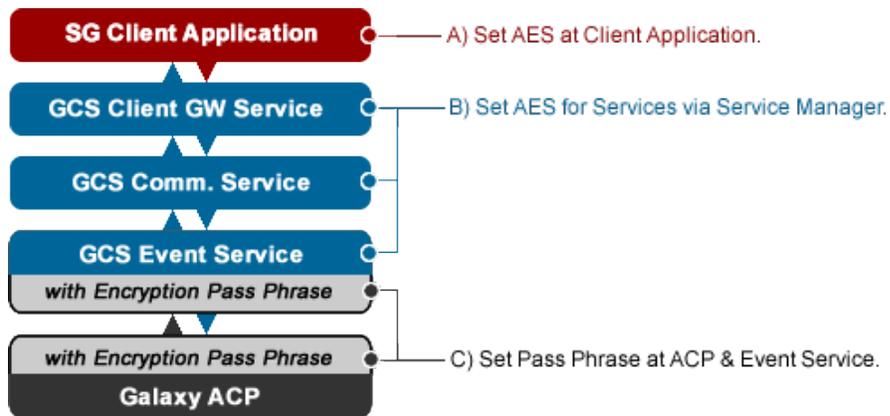
## Stipulations

- The Encryption Pass Phrase must be between 16 and 39 characters long.
- The Encryption Pass Phrase configured in the access control panel must exactly match the Encryption Pass Phrase configured in the GCS Event Service.

## Configuration Recommendations

- A. The Encryption Type should be set to “AES” in the System Galaxy client software.
- B. The Encryption Type should be set to “AES” for both incoming and outgoing communications within the GCS Service Manager Utility. The ‘Allow Client to Specify’ option should be enabled.
- C. Encryption Pass Phrase must be configured in the GCS Event Service.
- D. Encryption Pass Phrase must be configured in each access control panel.

## Setting AES Encryption Concept Diagram



Daniel Gramlich  
Technical Director  
Galaxy Control Systems

GALAXY CONTROL SYSTEMS  
3 North Main Street  
Walkersville, MD 21793  
301.845.6600 Phone  
301.898.3331 Fax

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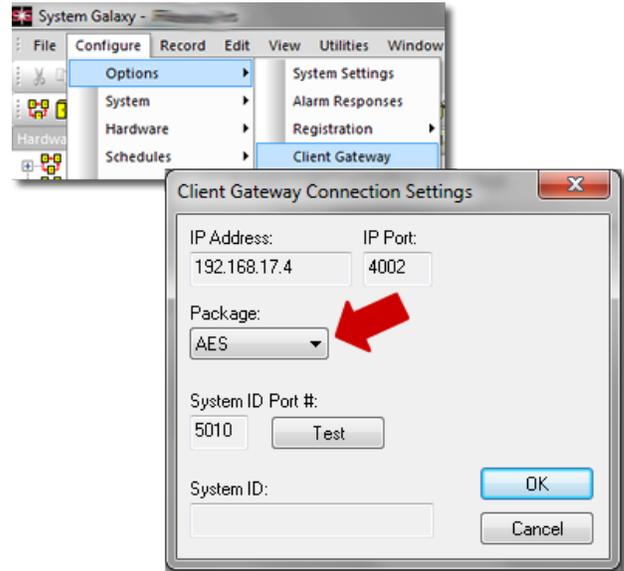
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## Configuration Instructions for AES Encryption

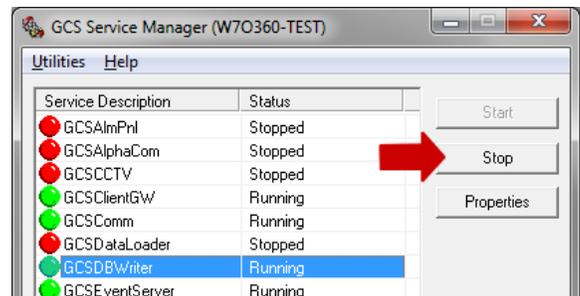
### A. Set AES Encryption in SG Client Application:

- Launch the System Galaxy client software and Sign In with a master-level password.
- Open the *Client Gateway Connections Settings* screen from the main menu: [ [Configure>Options>Client Gateway](#) ].
- Set the 'Package' field to "AES".
- Click the OK button to save setting.

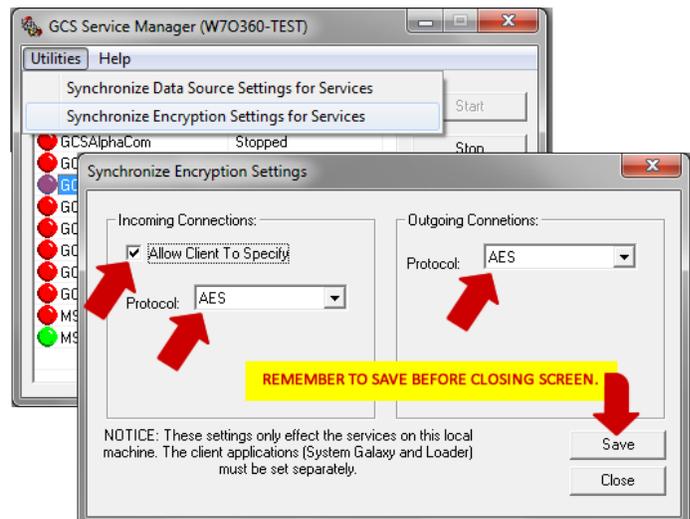


### B. Set AES Encryption in GCS Services:

- Launch the GCS Service Manager (.exe) from Galaxy Utility folder on Main Comm Server [ [C:\GCS\System Galaxy\ Utilities\](#) ].
- Stop all Galaxy GCS Services in the list. *Green indicates that the service is running.*
- Highlight the service and click Stop. *Dependent services should also stop.*



- Open the *Synchronize Encryption Settings* screen from the menu: [ [Utilities > Synchronize Encryption ...](#) ].
- Enable (check) the 'Allow Client to Specify' option.
- Set the 'Protocol' field to "AES" for both the Incoming and Outgoing Connections.
- Click the Save button before exiting screen.



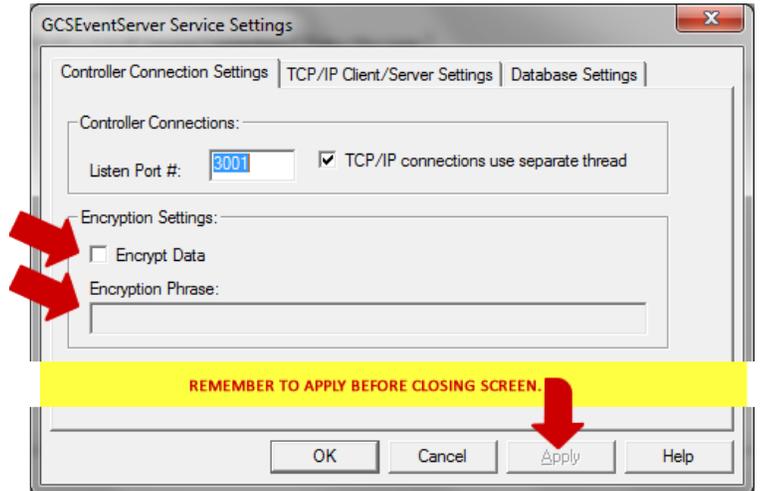
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### Configuration Instructions for AES Encryption - continued

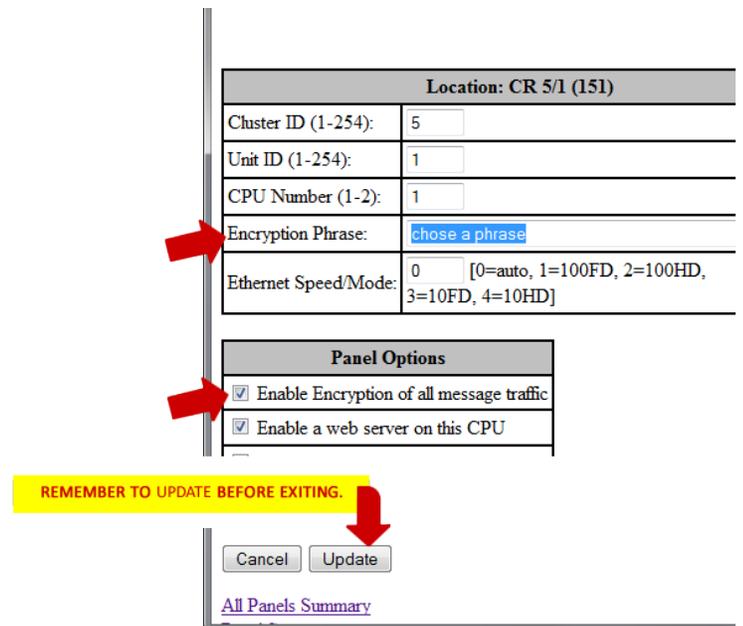
#### C. Set Pass Phrase in GCS Event Service:

- Launch the GCS Event Service (.exe) as a stand-alone app from the GCS folder: [ C:\GCS\System Galaxy\ ].
- Open the *Service Settings* screen from the Setup Menu.
- On the *Controller Settings* tab, enable (check) the 'Encrypt Data' option.
- Enter a Pass Phrase that is between 16 and 39 characters long. The *pass phrase must exactly match the phrase entered into ACP*.
- Click Apply and OK to save changes.
- Exit/Terminate Event Service program.



#### D. Enable Encryption & Set Pass Phrase in ACPs:

- Connect to each ACPs using the SG Web Server Configuration Tool. *The server page will open in the default web browser.*
- In the main screen, click on the [IP Address](#) link for desired panel.
- At the bottom left corner of the Web Page, click [Panel Configuration](#) link.
- Enable(check) the 'Enable Encryption of all Message Traffic' option.
- Enter a Pass Phrase that is between 16 and 39 characters long. *The pass phrase must exactly match the phrase entered into the GCS Event Service.*
- Click [Update] button to save changes.



- Restart all GCS Services. *Services can be restarted through the PC Services Manager, or by using the Galaxy GCS Service Manager Utility . Be sure to restart the GCS Client GW Service, the GCS Comm Service, GCS DBWriter Service, and GCS Event Service, as well as any other auxiliary GCS Service you were using.*

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