



Command and Control (CAC)

Systems Associates Inc. (SAI) has integrated a series of features into CONTROLIQ (CIQ) that are referred to a 'CIQ-Dynamics'. CIQ Dynamics allows CIQ to interface with the outside world through our centralized CAC engine. This includes:

1. Watch-dog your system
2. Dusk and Dawn
3. Email Text Messaging for alarms and status
4. National Weather Forecast
5. Auto-Archiving the CONTROLIQ Database off site
6. Automatic Updates
7. Delphi meeting room scheduling
8. Control Green (Onity) interface
9. SynergyMMS interface
10. Scheduled reports
11. Mobile and Data Entry Access

All of CAC happens as a web service on the HTTPS port (Port 443). The primary CONTROLIQ workstation / server must be able to reach <https://rdaq.controliq.com> for this to work.

1. Watch-Dog

Your CONTROLIQ system checks-in with our servers once per hour. If your system has not checked-in for 2 hours, our CAC servers will send you an email / text message that says:

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Subject: [Your Site Name]
"This ControlIQ site has not checked in to Command and Control since "
"08:54AM Eastern Time "
"Notification # 1"
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The CAC system will notify you each hour for 3 hours that it continues to get a "no check-in" from your site. The 2nd and 3rd notification goes to our engineers as well.

The processing engine (CIQProc.EXE) on your system is responsible for checking in with CAC. If the processing engine is down, it obviously will not check in, but if the internet connection is not working, it can not check-in either. *This means that ControllIQ may be functioning properly at your site, but since it is not able to connect to our servers we are reporting it as a fault. This is done on-purpose so that the entire health of your system must be operational.*

2. Dusk and Dawn

CONTROLIQ can dynamically alter the start / stop scheduled times by knowing the date and the latitude / longitude of the site. This automatically adjusts for daylight savings time as well. In this way exterior lighting can be controlled based on varying sunrise and sunset times without the need for additional hardware (such as a photocell).

3. Email Text Messaging for Alarms

As part of the CAC process, CONTROLIQ can email alarms to your desktop or text enabled phones (anything that can handle an email message). This is the same process that the Watch Dog uses as described above. The alarm process is setup to escalate who it will notify based on specific conditions set by you. All email messages are sent to our servers where we log the event, and then use our servers to send the email. This avoids problems with local SMTP servers and firewalls.

4. National Weather Forecast

CONTROLIQ can link with the National Weather Service to read real-time and forecasted weather information. In its simplest form, this can eliminate the need for an Outside Air Temperature or Humidity Sensor, but the true power of this interface is the ability to forecast weather conditions for up to 3 days in advance. In this way you can intelligently anticipate the need for varying control strategies based on what is going to happen vs. present conditions alone.

5. Auto-Archiving the ControlIQ Database

CONTROLIQ can make offsite backups automatically. This eliminates the need for you or your IT people do this. All of this is stored on our servers and backed up onto the server, which in turn is then stored off-site weekly. CONTROLIQ automatically makes this backup between 3am and 4am on Sunday's and sends a copy of the backup in a zipped file format to our cloud servers.

6. Automatic Updates

When instructed by our support engineers, the next time that your CONTROLIQ system checks in to Command and Control (hourly), it will automatically update CIQProc.EXE (Processing Engine) and / or, CIQGUI (Graphical User Interface). This happens completely behind the scenes and takes no user intervention at your site. CIQProc.EXE automatically restarts itself after an update, and the upgraded CIQGUI will be available the next time you log in.

7. Delphi Meeting Room Scheduling

CONTROLIQ can contact the property's Delphi (New Market) server to accept a schedule feed from the BEO interface. This is used to schedule meeting rooms, ballrooms, convention space, hospitality suites, private dining room etc. The program automatically enables the HVAC and lighting at pre-defined times prior

to the actual function to allow for the space to be at optimum conditions during the functions time.

8. Control Green (Onity) Guest Room Interface

CONTROLIQ will connect to Control Green's Webs Services to gather dashboard information and send alarm conditions to SynergyMMS.

9. SynergyMMS Interface

CONTROLIQ will connect to the property's SynergyMMS system to generate alarms and work requests based on run hour of the equipment.

10. Scheduled Reports

CONTROLIQ process reports automatically and email the reports to the user.

11. Mobile and Data Entry

CONTROLIQ uses a web enabled interface for mobile users. This works with any browser enabled devices (Smart Phones, Tablets, Desktop Computers (PC or MAC). To access go to <https://Mobile.ControlIQ.Com>.