Documentation for Control IQ

Relating to: **CIQProc.EXE**
Date: **January11, 2014**
Program Revision: **4.0**
Subject **API – Socket Messages**

CIQProc has a built in Application Programming Interface (API) that utilizes TCP socket communications on port 1724. CIQProc is the "server" or "listener" at the IP address of the computer it resides on, or in the case of multiple IPs on the same computer, CIQProc listens and responds on all IPs.

The socket communication is handled by a "message". Each message is comprised of a series of fields separated by a comma (,) and is usually a stream of printable ASCII characters.

CIQProc is "listening" for incoming message and will respond if the message fits the criteria defined below. Every valid message is responded to, even if there is not return data. CIQProc never initiates a message. Every message includes a header and message type. If the message is to include data, it will follow the message type as in: header, message type, Data1, Data2, Data3,…DataN

A "client" program is used to communicate to the server by sending the message and retrieving the response. The header initiated by the client must always be "CIQG".

Note that no part of the message, including the header or message type is case sensitive. I.E. CIQG = ciqg = CiqG and GTV = gtv = Gtv

A typical message sent is: **CIQG,GTV,OATemp**
A typical response is: **CIQP,AWD,75.6 deg F**

A word about aliases:
In most cases, the 'alias' is enough to use with the messages. Aliases are one portion of a fully qualified COP (Class / Object / Property). The alias is the "object" portion of the COP. Most message types require the alias only, but in some cases it is necessary to use to fully qualified COP. For example, one of the message types, GTV (Get The Value) when used with the alias alone will return the .txtValue property. If the alias were "OATemp" the response will be something similar to "73.4 deg F". In other words, unless specified, the program assumes that the alias is a 'point' as opposed to a 'schedule' or 'system' variable, and that the default property is 'txtValue'. Hence **CIQG,GTV,OATemp** is equivalent to **CIQG,GTV,AI.OATemp.txtValue**. However, any other property must be returned with the fully qualified COP. Some Examples:

CIQG,GTV,AI.OATemp.Value will return 73.421567
CIQG,GTV,AI.OATemp.txtReason will return Alarm

Also, for simplicity, “pnt” may be used generically for the class of any ‘point’ with regards to common properties for all points. Hence:

AI.OATemp.Value is equivalent to Pnt.OATemp.Value

However, if you want to retrieve something specific to a point type, then the actual class must be use. For example:

AI.OATemp.HighAlarm is NOT retrievable as Pnt.OATemp.HighAlarm

Note: As of Version 4 the “Class” portion of the COP is not needed. The Object portion of the COP (usually the Alias) will return the value pf the default Property (usually .txtValue) Please refer to “Control IQ v4 – Class Properties” for details of the COPs

Supported Message Types

Type	Description	Example
Afterhours and Tenant Message		
AHSubmit	AfterHours Submit	**CIQG,AHSubmit,TID,TCode,Hour,Cst**
AHTID	AfterHours Tenant ID	**CIQG,AHTID,TID,TCode**
Alarm Messages		
AA	Acknowledge Alarms	**CIQG,AA,alias[,alias,alias…]**
AAA	Acknowledge All Alarms	**CIQG,AAA**
AIA	Alias(s) in Alarm	**CIQG,AIA**
ASIC1 Specific Messages		
COA	Clear Override Asic1 Points	**CIQG,COAP**
GAD	Get Asic1 Details (see GPD)	**CIQG,GAD,Alias[,XML]**
SOA	Set Override Asic1 Points	**CIQG,SOA,value,expire,alias[,alias…]**
Groups and Lists Messages		
GGD	Get Group Details	**CIQG,GGD,groupname[,XML]**
GGDUID	Get Group Details y UID	**CIQG,GGDUID,groupUID[,XML]**
GRP	Get Groups	**CIQG,GRP[,viewmask]**
LIST	Get Groups	**CIQG,LIST,[matching string]**
LISTN	Get Groups	**CIQG,LISTN,[matching string]**
Point related Messages		
COAP	Clear Override All Points	**CIQG,COAP**
COP	Clear Override Points	**CIQG,COP,alias[,alias,alias…]**
GPD	Get Point Details	**CIQG,GPD,Alias[,XML]**
GTV	Get The Value	**CIQG,GTV,alias[,alias,alias…]**
PMS	Set PMS State	**CIQG,PMS,numericID,ON (or OFF)**
RLP	Reload Point(s)	**CIQG,RLP[,alias,alias,alias…]**
SOP	Set Override Points	**CIQG,SOP,value,expire,alias[,alias…]**
Scheduling Messages		
CNS	Clear Normal Schedule	**CIQG,CNS,alias[,alias,alias..]**
COAS	Clear Override All Schedules	**CIQG,COAS**
COS	Clear Override Schedules	CIQG,COS,alias[,alias,alias…]
GES	Get The Exception Schedule	**CIQG,GES,alias**
GNS	Get The Normal Schedule	**CIQG,GNS,alias**
RLS	Reload Schedules	**CIQ,RLS**
SES	Set Exception Schedule	**CIQG,SES,alias,onttime,offtime,date..**
SNS	Set Normal Schedule	**CIQG,SNS,alias,ontime,offtime,0,1,1**
SNSR	Set Normal Schedule Record	**CIQG,SNSR,alias,ont,offt…**
SNSRU	Set Normal Sched Rec Update	**CIQG,SNSRU,alias,ont,offt…**
SOS	Set Override Schedules	**CIQG,SOS,value,expire,alias[,alias…]**

Setpoints Messages

COSP	Clear Override Setpoints	**CIQG,COSP,alias1[,alias2,alias3…,]**
SOSP	Set Override Setpoints	**CIQG,SOP,value,expiration,alias1..**
SSP	Set Setpoints	**CIQG,SSP,value,expire,alias[,alias…]**

System Related Messages

ACK	Acknowledge.	**CIQP,ACK**
AWD	ACK with Data	**CIQP,AWD,data[,data,data…]**
DF	Download File	**CIQG,DF,1724[,filename]**
EVENT	Process Events	**CIGQ,EVENT,[EventName]**
HOW	How Are You	**CIQ,HOW**
IAM	I Am	**CIQP,IAM,node,version**
RELOAD	Stop the processor and reload it	**CIQ,Reload,1724**
RSS	Reset System Status	**CIQ,RSS**
STS	Subsystem Sync Time	**CIQG,STS**
UF	Upload File	**CIQG,UF,1724,filename**
UPPREF	Update Preferences	**CIQG,UPPREF,key,value**
WDOG	Watch Dog (from SAI)	**CIQG,WDOG**
WHATSUP	Test for activity	**CIQG,WhatsUp**
WHO	Who Are You	**CIQG,WHO**

User Messages

GVID	Get Voice ID	**CIQG,GRP,voiceusername**
LOGIN	Get Login Credentials	**CIQG,LOGIN,Username,Password**

AA Acknowledge Alarm

Format: **CIQG,AA,alias1[,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

Acknowledge the alarm of the associated aliases. If the alias is in alarm, it sets the AlarmState to 3. If the alias is not in alarm, it takes no action.

See Also: AAA, AIA

AAA Acknowledge All Alarms

Format: **CIQG,AAA**

Response: **CIQP,ACK**

Acknowledge the alarm on all aliases that are in alarm. If the alias is in alarm, it sets the AlarmState to 3. If the alias is not in alarm, it takes no action.

See Also: ACK, AIA

ACK Acknowledge

Format: **CIQG,ACK**

Response: **CIQP,ACK**

The acknowledge command is not normally sent by the client, in that it is part of the response message for other message types. However, for completeness to the API, a received ACK message type will return an ACK response. An ACK response has no other data.

See Also: NAK

AIA Aliases In Alarm

Format: **CIQG,AIA**

Response: **CIQP,AWD,(alias1),(alias1.txtValue),(alias1.alarmstate),(alias2…**

This will respond with all aliases that are in alarm, their associated .txtvalue property, and the associated .alarmstate value. The message contains each of these three variable for each alias in alarm, separate by commas. An example would be:
CIQP,AWD,OATemp,92 deg F,1,OAHumidity,99 %,1

See Also: AA, AAA

AHSubmit AfterHours Submit

Format: **CIQG,AHSubmit,TenantUID,TenantCode,Hours,Cost**

Response: **CIQP,ACK**

This will update the tenantstransactions table with the AH transaction

See Also: AHTID

AHTID AfterHours Tenant Details

Format: **CIQG,AHTID,TenantID,TenantCode**

Response: **CIQP,ACK,TUID,TCUID,DurationLimit,HourlyCost,UserLevel**

See Also: AHSubmit

AWD Acknowledge With Data

This command is the message type for many of the response message. A NAL response has data that follows.

CNS Clear Normal Schedule

Format: **CIQG,CNS,alias1 [,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

Delete the occurrences of schedules with the name “alias”

COA Clear Override ASIC/1

Format: **CIQG,COA,alias1 [,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

Sets the ASIC/1s in auto mode (if state overridden)

See Also: SOA

COAP Clear Override on All Points

Format: **CIQG,COAP**

Response: **CIQP,ACK**

Any ‘point’ that has been overridden will be set back to automatic mode. I.E. CIQProc will make the decision regarding the state or value of the point.

See Also: COP, SOP

COAS Clear Override on All Schedules

Format: **CIQG,COAS**

Response: **CIQP,ACK**

Similar to COAP, this will remove the override from any ‘schedule’ alias and set it back in automatic mode. I.E. CIQProc will make the decision regarding the state or value of the schedule.

See Also: COS, SOS

COP Clear Override Points

Format: **CIQG,COP,alias1 [,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

Similar to COAP, this will remove the override from any 'point' alias provided as part of the message and set it back in automatic mode. I.E. CIQProc will make the decision regarding the state or value of the point.

See Also: COAP, SOP

COS Clear Override Schedules

Format: **CIQG,COS,alias1 [,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is CIQP,NAK

Similar to COAS, this will remove the override from any 'schedule' alias provided as part of the message and set it back in automatic mode. I.E. CIQProc will make the decision regarding the state or value of the schedule.

See Also: COAS, SOS

COSP Clear Override Setpoint

Format: **CIQG,COSP,alias1 [,alias2,alias3…,alias-n]**

Response: **CIQP,ACK**
If any alias is not found the response is CIQP,NAK

Similar to COP, this will remove the override from any 'setpoint' provided as part of the message and set it back in automatic mode.

See Also: SOSP

DF Download File

Format: **CIQG,DF,xxxx [,filename]**
CIQG,DF,xxxx

Response: **CIQP,ACK**
If the file is not found the response is **CIQP,NAK**

This will transfer a file from SAI's servers and place it in the directory structure that is defined as part of the filename. For example of the file name were c:\myfile.txt, then the program would download myfile.txt from the ftp server and place it in the c:\ directory on the local machine. If the filename is left blank, it assumes the filename is CIQProc.EXE so it downloads the latest version. 1724 is the "authority" to allow a download to happen. If the authority is 2724, then the latest CIQProc.exe will be downloaded, CIQProc will be stopped and restarted.

See Also: UF, RELOAD

xxxx is provided by SAI as a password to access the data.

EVENT Process Events

Format: **CIQG,EVENT,[EventName]**

Response: **CIQP,ACK**
If the Event is not found the response is **CIQP,NAK**

This process an Event as defined in the Events table of the database. The event can be a series of SQL commands against the database, Socket API calls (as defined in this document) and Email addresses (to send the status of the Event process.

GAD Get ASIC/1 Details

This command is still supported for legacy systems, but has been replaced with GPD.

GES Get Exception Schedule

Format: **CIQG,GES,alias**

Response: **CIQP,AWD,startingdate,numberofdays,ontime,offtime**

See Also: GNS, CNS, SNS, SES

GGD Get Group Details by Name

Format: **CIQG,GGD,groupname[,XML]**

Response: **CIQP,AWD,p1.Name,P1.txtValue,P1.txtReason[,p2.name…**
Alternate response is XML Stream

See Also: GGDUID, GRP

GGDUID Get Group Details by Group UID

Format: **CIQG,GGDUID,groupUID[,XML]**

Response: **CIQP,AWD,p1.Name,P1.txtValue,P1.txtReason[,p2.name…**
Alternate response is XML Stream

See Also: GGD, GRP

GNS Get Normal Schedule

Format: **CIQG,GNS,alias**

Response: **CIQP,AWD,ontime,offtime,s,m,t,w,r,f,s,h**

See Also: GES, CNS, SNS, SES

GPD Get Point Details

Format: **CIQG,GPD,alias[,,XML]**

Response: **CIQP,AWD,…**
Alternate response is XML Stream

This returns a set of Key-Value pairs, comma separated for all of the pertinent details for the specific alias.

See Also: GAD

GRP Get Point Details

Format: **CIQG,GRP[,viewmask][,XML]**
Alternate response is XML Stream

Response: **CIQP,AWD,Grp1UID,GRP1Name,GRP2UID,GRP2Name..**
Alternate response is XML Stream

If the viewmask is omitted (or set to 0) all groups are returned. If viewmask > 0 only those groups that match the viewmask are returned.

See Also: GGD, GGDUID

GTV Get The Value

Format: **CIQG,GTV,alias1 [,alias2, alias3….,alias –n]**

Response: **CIQP,AWD,data1 [,data2,data3….,data-n]**
If one of the aliases is not found the response is **CIQP,NAK**

This is the primary message type in the socket communications API. It allows retrieving that value of any point, schedule, or system variable as well including most of the properties. If the "alias" is defined as the alias alone I.E. OATemp, the API will assume it to be a "point" class (COP) and will return the .txtValue property. From the discussions above, "Pnt" can be substituted for any point class for simplicity. Hence the following tree lines return the exact same data:

CIQG,GTV,OATemp
CIQG,GTV,AI.OATemp,txtValue
CIQG.GTV.Pnt.OATemp.txtValue

If the alias type, is not a 'point' or the property is not '.txtValue' then the fully qualified COP must be entered. Some examples of the fully qualified COPs with there simulated results would be:

Pnt.OATemp.txtValue	72.5 deg F
Pnt.OATemp.value	72.47843
Pnt.OATemp.Reason	16
Pnt.OaTemp.txtReason	Normal
Sched.Building.txtValue	On
Sched.Buidling.txtReason	TOD (Time of Day)
Sys.System.SiteName	New York Hilton
Sys.System.SocketAddress	198.123.75.45
Sys.System.Version	v2.0.1.3
Sys.System.UpSince	7/24/2004 15:31:21

A complete list of available properties is define in other documents.

See Also: SOP, SOS, COP, COAP, COS, COAS, AA, AAA

GVID Get Normal Schedule

Format: **CIQG,GRP,voiceusername**

Response: **CIQP,AWD,spokenname,accesslevel**

This returns the level of the voice user to CIQVoice.

HOW How Are You

Format: **CIQG,HOW**

Response: **CIQP,AWD,(scan time)**

This is a very simple message type that returns the amount of time that CIQProc is taking to make a complete scan of all process and all subsystems.

See Also: WHO, WDOG, RLS

IAM I Am

'Iam' is the response message for the WHO message type.

See: WHO

LIST List of Aliases

Format: **CIQG,LIST,[matching string] (like clause)**

Response: **CIQP,AWD,Alias1,Alias2,Alias3….**

This returns a list of all aliases in the points table that match the matching string criteria. If the matching string is omitted all aliases are returned.

See Also: LISTN

LISTN List of Aliases and Names

Format: **CIQG,LISTN,[matching string] (like clause)**

Response: **CIQP,AWD,Alias1,Name1,Alias2,Name2,Alias3,Name3….**

This returns a list of all aliases and the associated point names in the points table that match the matching string criteria. If the matching string is omitted all aliases are returned.

See Also: LIST

LOGIN Login a User

Format: **CIQG,LOGIN,Username,Password**

Response: **CIQP,AWD,Description,ViewMask,EditMask,Description**

This the user credentials to control what a user has access to do and see.

PMS Sets the state of a room based on the NumericID

Format: **CIQG,PMS,numericID,ON (or OFF)**

Response: **CIQP,AWD**

This comes from CIQ-SA Interface to trigger the room change.

RELOAD Stop the processor and reload it

Format: **CIQG,Reload,xxxx**

Response: **GIQP,ACK**

This tells the CIQProc program to reload itself, essentially stopping and starting the program. The ACK, may actually not be sent if the process reloads fast enough. This is the only exception that there may not be a response. The 1724 is the 'authorization' for it to proceed.

Reload is required under the following conditions.

Changes to the subsystem(s) regarding

Alias name

Port Settings
Changes to the point(s) regarding:
Subsystem Type
Point Type
Address
New Point Added
Exiting Point Deleted
Existing Point Activated
Existing Point Deactivated

See Also: DF, RLP, RLS

xxxx is provided by SAI as a password

RLP Reload Points

Format: **CIQG,RLP[,alias,alias,alias…]**

Response: **GIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

This reloads the points and classes tables from the database in to CIQProc. Once the database is altered (from a GUI program) for any parameter of a point(s), this message type needs to be sent to re-evaluate them.

If alias is empty, then all points are re-read from the database. **Note that if any part if the subsystem type, point type, or address fields are altered in a point(s) definition, then a "ReLoad" message type must be sent. If a reload is sent then RLP is redundant.**

See Also: ReLoad

RLS Reload Schedules

Format: **CIQG,RLS**

Response: **GIQP,ACK**

This refreshes all of the schedules from the database into CIQProc. Once the database is altered (from a GUI program) for either standard or exception schedules, this message type needs to be sent to activate them

See Also: COS, COAS, SOS

RSS Reset System Status

Format: **CIQG,RSS**

Response: **CIQP,ACK**

This resets Sys.System.Status to ImOK and Sys.System.StatusTest= ‘’
Added in v2.0.1.11

See Also HOW

SES Set Exception Schedule

Format: **CIQG,SES,alias,ontime,offtime,date,days**

ontime is the time for the schedule to come on in military time
Note that no colons are used, just four digits
0600
offtime is the time for the schedule to turn off in military format
Note that no colons are used, just four digits
2300
date is the starting date for the exception to take affect
mm-dd-yyyy
days is the number of days for it to be affective
1-99

Response: **CIQP,ACK** if it everything is ok
CIQP,NAK if the data or alias is invalid

This sets the normal schedule relating to the alias. Note that a RLS must be sent once to refresh the schedule list after all of the schedules are updated.

See Also: SNS, RLS

SNS Set Normal Schedule – Depricated use SNSR

Format: **CIQG,SNS,alias,ontime,offtime,S,M,T,W,R,F,S,H**

ontime is the time for the schedule to come on in military time
Note that no colons are used, just four digits
0600
offtime is the time for the schedule to turn off in military format
Note that no colons are used, just four digits
2300
S,M,T,W,R,F,S,H is a 1 or 0 for assigning this schedule to what days of the week. Example would be 0,1,1,1,1,1,0,0 would assign the schedule to Monday through Friday, not Sundays and not Saturdays or Holidays.

Response: **CIQP,ACK** if it everything is ok
CIQP,NAK if the data or alias is invalid

This creates a Normal schedule relating to the alias. Note that a RLS must be sent once to refresh the schedule list after all of the schedules are updated. This creates a record per day of week

See Also: SES, RLS, SNSR

SNSR Insert a Normal Schedule Record

Format: **CIQG,SNSR,alias,ontime,offtime,S,M,T,W,R,F,S,H**

ontime is the time for the schedule to come on in military time
Note that no colons are used, just four digits
0600
offtime is the time for the schedule to turn off in military format
Note that no colons are used, just four digits
2300
S,M,T,W,R,F,S,H is a 1 or 0 for assigning this schedule to what days of the week. Example would be 0,1,1,1,1,1,0,0 would assign the schedule to Monday through Friday, not Sundays and not Saturdays or Holidays.

Response: **CIQP,ACK** if it everything is ok
CIQP,NAK if the data or alias is invalid

This creates a normal schedule relating to the alias. Note that a RLS must be sent once to refresh the schedule list after all of the schedules are updated. This creates a single record.

See Also: SES, RLS, SNS

SNSRU Update a Normal Schedule Record

Format: **CIQG,SNSRU,alias,ontime,offtime,S,M,T,W,R,F,S,H**

ontime is the time for the schedule to come on in military time
Note that no colons are used, just four digits
0600
offtime is the time for the schedule to turn off in military format
Note that no colons are used, just four digits
2300
S,M,T,W,R,F,S,H is a 1 or 0 for assigning this schedule to what days of the week. Example would be 0,1,1,1,1,1,0,0 would assign the schedule to Monday through Friday, not Sundays and not Saturdays or Holidays.

Response: **CIQP,ACK** if it everything is ok
CIQP,NAK if the data or alias is invalid

This updates a normal schedule relating to the alias. Note that a RLS must be sent once to refresh the schedule list after all of the schedules are updated. This creates a single record.

See Also: SES, RLS, SNS

SOA Set Override ASIC/1 Point

Format: **CIQG,SOA,value,experiation,username=name**

value – the value to override the alias(s) to.

expiration – three possible formats.
leave blank for no expiration
CIQG,50,,OADamper,EADamper
Date/Time for a specific time to expire in the future
Format is MM-DD-YYYY [hh:mm]
CIQG,1,7-31-2004 13:30,FanStart
Duration in Hours (from the time the command is issued)
Format xxx.xx hours
CIQG,100,1.25,VAV101
(override the valve for 1hour and 15 minutes)

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

See Also: COP, COAP, COA

SOP Set Override Points

Format: **CIQG,SOP,value,expiration,alias1 [,alias2,…..alias-n]**

value – the value to override the alias(s) to. If this is a digital point
use 1 for On, and 0 for Off.

expiration – three possible formats.
leave blank for no expiration
CIQG,50,,OADamper,EADamper
Date/Time for a specific time to expire in the future
Format is MM-DD-YYYY [hh:mm]
CIQG,1,7-31-2004 13:30,FanStart
Duration in Hours (from the time the command is issued)
Format xxx.xx hours
CIQG,100,1.25,CHValve
(override the valve for 1hour and 15 minutes)

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

This will override or 'set' a point to a specific value until the program passes the expiration time (assuming there IS an expiration time). Multiple aliases may be specified, but each will share the same value and the same duration,

See Also: COP, COAP, COA, SOA

SOS Set Override Schedules

Format: **CIQG,SOS,value,expiration,alias1 [,alias2,…..alias-n]**

value – the value to override the alias(s) to. Use a 1 for On, and 0 for Off.

expiration – three possible formats.
leave blank for no expiration
CIQG,1,,AH1Sched,AH2Sched
Date/Time for a specific time to expire in the future
Format is MM-DD-YYYY [hh:mm]
CIQG,1,7-31-2004 13:30,FanSched
Duration in Hours (from the time the command is issued)

Format xxx.xx hours
CIQG,0,1.25,Lights
(override the valve for 1hour and 15 minutes)

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

This will override or 'set' a schedule on or off depending on the value until the program passes the expiration time (assuming there IS an expiration time). Multiple aliases may be specified, but each will share the same value and the same duration,

See Also: COS, COAS

SOSP Set Override Set Points

Format: **CIQG,SOP,value,expiration,alias1 [,alias2,…..alias-n]**

value – the value to override the setpoint value.

expiration – three possible formats.
leave blank for no expiration
CIQG,50,,OADamper,EADamper
Date/Time for a specific time to expire in the future
Format is MM-DD-YYYY [hh:mm]
CIQG,1,7-31-2004 13:30,FanStart
Duration in Hours (from the time the command is issued)
Format xxx.xx hours
CIQG,100,1.25,CHValve
(override the valve for 1hour and 15 minutes)

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

This will override or 'set' a setpoint to a specific value until the program passes the expiration time (assuming there IS an expiration time). Multiple aliases may be specified, but each will share the same value and the same duration,

See Also: COSP, SSP

SSP Set the Set Points (not overridden)

Format: **CIQG,SOP,value,alias1 [,alias2,…..alias-n]**

value – the value to set the setpoint value.

Response: **CIQP,ACK**
If any alias is not found the response is **CIQP,NAK**

This will adjuste a setpoint to a specific value. Multiple aliases may be specified, but each will share the same value and the same duration,

See Also: COSP

STS Subsystem Time Sync

Format: **CIQG,STS**

Response: **CIQP,ACK**

This forces all subsystem to sync their time immediately.

UF Upload File

Format: **CIQG,UF,xxxx,filename**

Response: **CIQP,ACK**
If the file is not found the response is **CIQP,NAK**

This will transfer a file from the local computer to SAI's servers and place in the directory structure that is defined by sys.system.sitename. For example if the file name were CIQPErr.txt, then the program would create a directory on SAI's server (if it doesn't exist) that is name after the site name of the local, then place the file in that directory. 1724 is the "authority" to allow a download to happen.

xxxx is provided by SAI as a password

See Also: DF

UPPREF Update Preferences Table

Format: **CIQG,UPPREF,key,value**

Response: **CIQP,ACK**
If the file is not found the response is **CIQP,NAK**

This will insert a new record in the preference table (our update if it exists now). Note: A RELOAD may need to be executed if this take immediate action from Proc.

WDOG Watch Dog (from SAI)

Format: **CIQG,WDOG**

Response **CIQG,ACK**

If the INI files is set for "ExpectWatchDog=True" then this message type needs to be sent to CIQProc on some frequency (once per hour). If CIQProc, does NOT receive this pulse within a 2 hour time frame, it will notify users based on variables in the alarm_processes table with an alias of "WatchDog"

See Also:

WhatsUp

Format: **CIQG,WhatsUp**

Response **CIQG,IAm**

This is just a simple response that indicates that the main processor (CIQProc) is alive. It is a good way to start out a socket communication since the response is always the same.

See Also:

WHO Who Are You

Format: **CIQG,WHO**

Response: **CIQG,IAM,node,version**

Node will contain the ‘name’ of the processing node (normally ‘ControlIQ’) and version will contain sys.system.version (similar to ‘v2.0.1.3’)

See Also: HOW