



ES Service Information

File In/With:	N/A	SI0130
		New 9-05
Equipment Affected:	UPG Millennium Packaged Units w/Simplicity & Intelli-Comfort Controls	
Flash Memory Protection		

General

The following information is important for 3rd party integration to the UPG Intelli-Comfort and Simplicity Elite controllers using either direct Modbus RTU communication or BACnet MS/TP through the ModLINC.

The current versions of Intelli-Comfort and Simplicity Elite write immediately to flash memory all data that is sent to the controller. Both controllers have a write-cycle rating of 5,000,000 total data writes, 1,000,000 writes to a single byte of data. If large amounts of data are sent continuously to these controllers, it is possible that the flash memory will be used up in a short period of time. This could result in loss of control by any 3rd party integrator and in the event of any power interruption; the controller will revert back to its default values. To prevent this, only values that need to be updated should be sent to the controllers, and the data should be sent no more frequently than every 15 minutes.

The next versions of both the Intelli-Comfort and Simplicity Elite controllers are due out later this year. The updated versions will compare all newly sent data with existing values and only flash those that have changed. This will help preserve the flash memory, however, it is still recommended that only values that need to be updated be sent, and no more frequently than every 15 minutes.

The ModLINC BACnet MS/TP to Modbus RTU translator is also being revised to help protect the flash memory in the Intelli-Comfort and Simplicity Elite controllers. This revised ModLINC will also be available later this year. In the revised ModLINC, any value written to a BACnet address will be stored for 15 minutes. When the 15-minute timer expires, the complete list of values will be transferred from the ModLINC to the UPG controller.

It is also important to understand that any value that is available as a write point on the ModLINC cannot be permanently changed using the Simplicity PC software. The ModLINC will re-write any value changed using Simplicity PC the first time there is a data transfer from the ModLINC. Values that are exposed as a write point on the ModLINC must be changed by using a BACnet command.