

Concept Intelligent Four Door Access Module (IFDAM) V5.0 Firmware Release.

This IFDAM Firmware release introduces support for Integriti Controllers V2.0 or later, and is backwardly compatible with Concept 4000.

To enable Integriti mode.

Before power-up, set Switch 4 on the Options DIPswitch (S1) to ON.

i.e. S1 Switch 4 OFF = Concept 4000.

S1 Switch 4 ON = Integriti Security Controller.

All other switches on S1 are set to OFF, unless the alternate AC Fail Delay time is required via Switch 2.

This setting causes the IFDAM to act similar to an Integriti 2-Door Reader with an offline cache of 2000 Users.

Note that the mode must be selected to match the type of Control Module that the IFDAM is to be used with. If the mode does not match the Controller, the IFDAM Fault LEDs will indicate "Module Unknown" (L2 = OFF, L3 = ON).

Operation in an Integriti System.

GENERAL OPERATION:

- Battery testing is operational.
- The fast unlock time option via Switch 8 on DIPswitch S1 is not supported.

ACCESS CONTROL OPERATIONS WHEN ONLINE:

In online mode, operation should be identical to an Integriti Two-Door Reader or Four-Door Reader Module.

ACCESS CONTROL OPERATIONS WHEN OFFLINE:

In offline mode, the IFDAM can use cached User/Button operations to provide access as follows:

- The cache contains up to 2000 User credentials.
- The cache can be cleared by setting Switch 8 on the Options DIPswitch (S1) to ON (as well as Switch 4) and power cycling the IFDAM. If Switch 8 is left on, then every power cycle will clear the cache.
- When a User is granted access whilst online, the User will be cached for that Door. If the cache is full then the oldest User will be replaced by the new User.
- If a User is denied access, then that User will be removed from the cache for that Door. If they are not in the cache for any other Doors on that Module, then they will be removed from the cache completely on that Module. NOTE. Certain types of "access denied" events will not cause the User to be removed from the cache. E.g. Denied because the Door is interlocked, Denied because Area is On and User does not have permission to turn off that Area, etc.
- When a User is added to the cache, if the User programming has the "permanent cache" option set, then that User cannot be replaced by a newer User. The User will remain in the cache until removed by a power cycle with Switch 8 on, or if denied access at a Door and also not in the cache for any of the other Doors on that Module.
- In addition to Users being removed if a new User is added when the cache is full, Users can also be automatically removed if they have been in the cache for too long. This time is programmable between 1 hour and 4 months. Note that permanent Users are not removed by time.
- The caching of Users can also be disabled completely.

Note that Users are only added when online and access is granted.

Users are only removed from the Module cache:

- When access is denied for all the Doors on that Module on which the User had previously had an access granted event.

- Via time for non-permanent Users.
- Using a Switch 8 power cycle.

If Users are deleted from the Integrity Database whilst online, they are not removed from the cache. If Users are created whilst online they are not automatically added to the cache.

REX and REN button operations are also cached separately, per Door as follows:

- Whenever a REX/REN is allowed whilst online, the REX/REN for that Door is added to the cache.
- Whenever a REX/REN is denied whilst online, the REX/REN for that Door is removed from the cache.
- Cached buttons are also removed by time, programmable from 1 hour to 4 months (separate to User cache time) or can be disabled completely.

Whilst offline, whatever is in the cache determines access permissions.

Whatever REX/REN buttons are in the cache will remain operational until they time out.

Whatever Users are in the cache will remain operational until they timeout, unless they are permanent.

“Dual User” and “Card plus PIN” or “PIN only” is not supported in offline mode.

“PIN only” will not work. If a legal card was presented whilst online, even if a PIN was required but was incorrect, the card will still be added to the cache.

No record of User operations is kept whilst off line.

The Door unlock time is set to 5 seconds when offline.

Checking IFDAM Firmware Version.

The IFDAM Firmware Version can be confirmed via an LCD Terminal as follows:

CONCEPT 4000:

NOTE: Control Module Firmware must be V7.8 or later, and IFDAM Firmware must be V4.0 or later.

00000000: Means that the IFDAM Firmware version is prior to V4.0

- Logon to the LCD Terminal and select Intelligent 4-Door Controller programming. [MENU, 7, 2, 8]
- Press the Down Arrow (V) to select the IFDAM to view.
- Press the Left Arrow [<] key. The display will show the current firmware version of the selected IFDAM.
- e.g. 04001B00 The displayed version information is as follows:
 Digits 1 to 4: Firmware version. e.g. 0400 = V4.00
 Digits 5 & 6: Firmware Build in Hexadecimal format. e.g. 1B = Build 27
 Digits 7 & 8: Not currently used.

INTEGRITI:

NOTE: ISC Firmware must be V2.0 or later, and IFDAM Firmware must be V5.0 or later.

- Logon to the LCD Terminal and select Module Info. [MENU, 1, 8]
- Press the Down Arrow key (V) as often as required to locate the IFDAM to view. e.g. C3K-IRdr: 03
- Press the OK key. The display will show the current status of the selected IFDAM. e.g. Present and Secure.
- Press the OK key. The display will now show the current firmware version and build number of the selected IFDAM. e.g. 5.0.0_1