

SCHEDULING

Feature definition

The scheduling defines the capability for the panel to launch automatic *actions* at predefined *appointments*.

Typical *actions* are OPEN or CLOSE

Each *appointment* has to be specified with a date, time, type of action and parameters.

The group of *appointments* determines the *calendar* of actions.

The *calendar* of actions can be *advanced* (it means that all actions can be scheduled at any time) or limited and *local* in the panel (OPEN/CLOSE appointments for the week).

The new firmware has the advance calendar ability built in, but it won't be possible to use until Frontel is updated. The Frontel update is not available at this moment (and therefore the advance calendar will be an active feature later on the year).

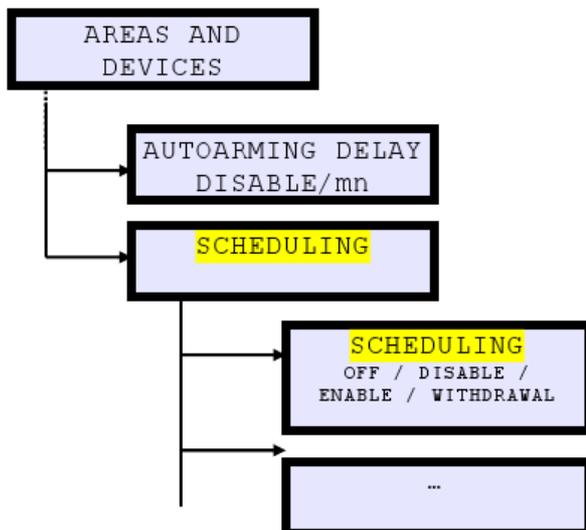
The *local calendar* is defined for each day (Monday, ... , Sunday) of the week.

- Local calendar can be set with the CMA only. *See appendix A to B for more details*
- The way to define the calendar with the CMA will be easy
- No need of connection with Frontel to get this feature.
- Only OPEN/CLOSE action can be scheduled

a. Activation of the scheduling

The scheduling mode can be selected with the CMA, where a new menu is located in AREAS AND DEVICES menu.

The access of the scheduling feature is limited to installers.



Please use only the OFF and ENABLE as the DISABLE and WITHDRAWAL functions are related to the Advance calendar.

b. Identification of panels where scheduling is running

It could be important to identify when the system gets scheduling running.

When the panel gets appointments, the standby display of CMA has to display a 'S' at the right of the clock.

Where 'S' at the bottom right of the LCD (stand by display only), means "Schedule running"



Fri 07/01 14:24
DISARMED LEV:4S

'S' shall not be displayed when:

- Scheduling mode is OFF
- Scheduling mode is different from OFF and there are no further appointments

c. Remark and limitation concerning the OPEN or CLOSE actions

- **Arming speed** = slow like on XL, XV and stand-alone XT.
- **Arming profile** = a scheduled arming will start a full arming.
- **How manage triggered sensors during the arming process?** Same process than on XL, XV and stand-alone XT, where arming process is restarted after 3mn timeout and sensor ejected if triggered after the second 3mn timeout.
- **How manage a re-arming action when the panel is already armed?** In this case, the action shall be ignored and the arming delay shall not start.
- **Compatibility with the auto-arming feature?** There are some limitations between AUTOARMING and SCHEDULING:
When AUTOARMING DELAY is enabled the SCHEDULING must be disabled (mode OFF).
When the SCHEDULE ARMING is enabled (different from OFF), the AUTOARMING DELAY must be disabled.
- **Authorized actions when scheduling is enabled:**
Arming/Disarming with automate/batching/scripting/GI/FrontelAlarmViewer still be possible.
Arming/Disarming with keypad, badge reader or keyfob still be possible.

d. Warning bip for automatic OPEN or CLOSE actions

When an automatic CLOSE (arming) will occur, the panel emit a warning bip few times before (based on Cingular product):

10 minutes before the end of the disarming temporization, the panel will send a warning "bip" signal for 10 seconds => this warning bip will not occur for appointment between 00:00 and 00:10

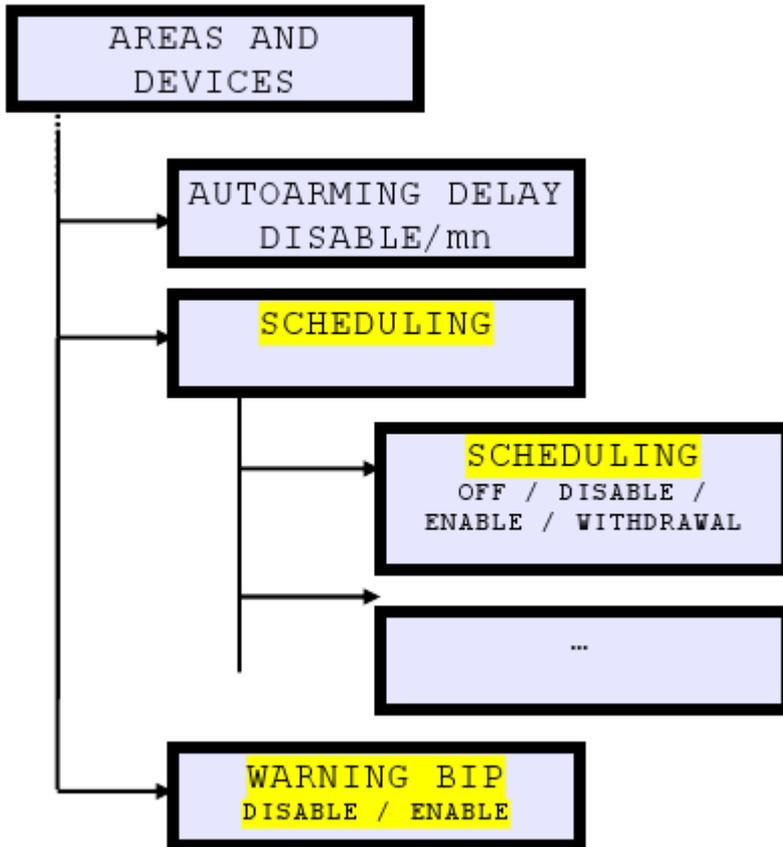
5 minutes before the end of the disarming temporization, the panel will send another warning "bip" signal for 10 seconds. => this warning bip will not occur for appointment between 00:00 and 00:05

1 minute before the end of the disarming temporization, the panel will send another warning “bip” signal for 10 seconds.

- This warning bip can be disabled or enabled through a new CMA menu.
- The warning bip concerns the AUTOARMING and the SCHEDULING features.

The default value is ENABLE.

- Warning bip doesn't sound when WITHOUT SIREN or SILENT alarm modes are selected



1. Local calendar feature

The local calendar is created and managed with the CMA.

The scheduling defines the capability for the panel to launch automatic *actions* at predefined *appointments*.

a. Appointments structure

The installer can defined appointments where parameters to be set are

- Time (24h format)
- Concerned days of the week
- Type of action (OPEN or CLOSE)

The following situation shall be possible:

- Arming/disarming time can be different each day of the week, of the year.
- There can be some days without arming/disarming actions.
- Multiple arming/disarming actions can be defined in the same day.

b. Creation of a local calendar

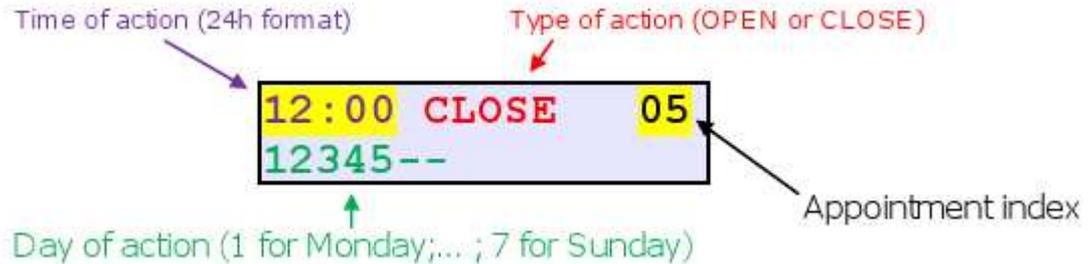
Calendar entries in the weekly calendar must be easy to create, modify and controlled with the CMA. For each calendar entry, the installer shall be able to indicate :

- The day and time of the action
- The type of action (OPEN (disarming) or CLOSE (arming))

Installer can create up to 99 appointments

⇒ It is not possible to define multiple appointments at the same day and time.

Suggestion for entries format:



Example:

```
07h30 OPEN  
12345--
```

System OPEN at 07h30 each Mon, Tue, Wed, Thu and Fri

```
09h00 OPEN  
-----67
```

System OPEN at 09h00 each Sat and Sun

```
12h00 CLOSE  
12345--
```

System CLOSE at 12h00 each Mon, Tue, Wed, Thu and Fri

```
14h00 OPEN  
12345--
```

System OPEN at 14h00 each Mon, Tue, Wed, Thu and Fri

```
19h00 CLOSE  
1234567
```

System CLOSE at 19h00 each day (from Mon to Sun)

c. Storage of local appointments in the panel

Local appointments are stored in the flash memory of the panel (=> no limitation)

Only the next appointment is stored in the RAM

2. Time and DST issues

The scheduling feature requests to know the correct time at any time.

In case of the time of the panel has been lost:

Whatever the selected scheduling mode, if the panel lost its clock after a missing power or any other reason, the scheduling must be disabled until the clock has been updated (by user, installer, Frontel or GPRS)

Scheduling and DST time changes:

DST change orders will be managed with the *advanced calendar* feature.

Specific actions will be available for that.

On panel using the scheduling with the *local calendar*, we recommend to activate the GPRS time feature and select a daily periodic test after 03:00 that is the standard time for the DST change. In this case the fact to send the periodic test will update the clock of the panel.

Scheduling and DST change periods:

It is recommended to not schedule any action in the change periods.

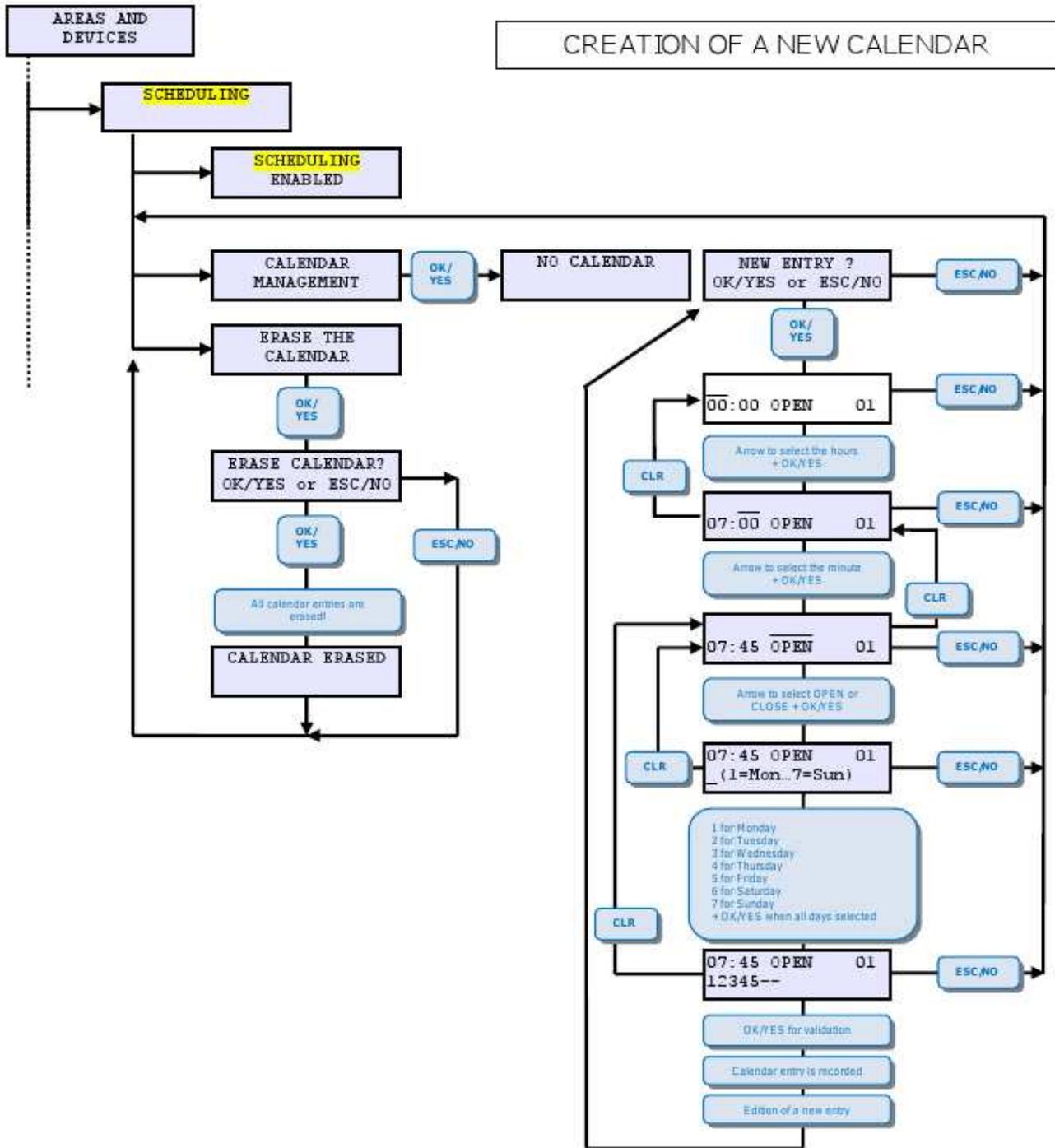
At DST beginning (+1h), a short time is lost.

⇒ All appointments scheduled in this period will be lost except the OPEN/CLOSE appointments

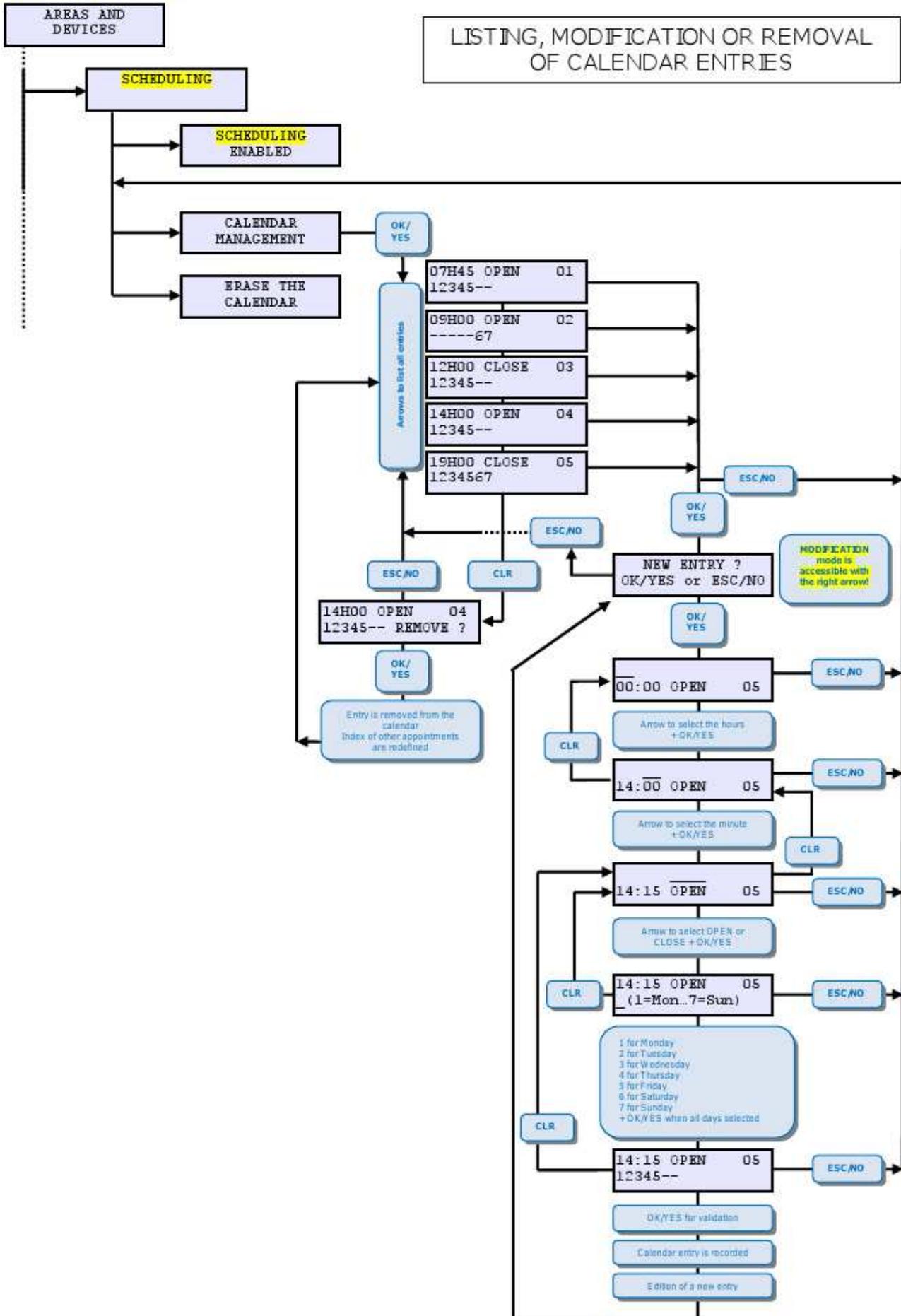
At DST end (-1h), short time is added to the day.

⇒ All advanced appointments scheduled in this period will already have been executed and will have disappeared from the calendar.

APPENDIX - A



APPENDIX - B



APPENDIX - D

LOCAL ENABLED ONLY

7 days LOCAL calendar (in the panel)						
	Mon	Tue	Wed	Thu	Fri	Sun
OPEN	07:30	07:30	07:30	07:30	07:30	00:00
CLOSE	12:00	12:00	12:00	12:00	12:00	
OPEN	14:00	14:00	14:00	14:00	14:00	
CLOSE	19:00	19:00	19:00	19:00	19:00	19:00

When LOCAL is enabled and there is no advanced calendar, local appointments for OPEN or CLOSE actions are the only scheduled actions.

Running calendar in Panel													
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	13 dec	14 dec	15 dec	16 dec	17 dec	18 dec	19 dec	20 dec	21 dec	22 dec	23 dec	24 dec	25 dec
OPEN	07:30	07:30	07:30	07:30	07:30	09:00	00:00	07:30	07:30	07:30	07:30	07:30	09:00
CLOSE	12:00	12:00	12:00	12:00	12:00			12:00	12:00	12:00	12:00	12:00	
OPEN	14:00	14:00	14:00	14:00	14:00			14:00	14:00	14:00	14:00	14:00	
CLOSE	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00	19:00
								26 dec	27 dec	28 dec	29 dec	30 dec	31 dec
								01 janv	02 janv	03 janv	04 janv	05 janv	06 janv
OPEN								00:00	00:00	07:30	07:30	07:30	09:00
CLOSE										12:00	12:00	12:00	12:00
OPEN										14:00	14:00	14:00	14:00
CLOSE										19:00	19:00	19:00	19:00