




# **Toshiba SMART Touch Controller**

## **Version History and New Features Guide**

### Version Information

- v1.02.02
  - initial release
- v1.03.01
  - setting the setpoint limits for a group now works correctly
  - added various digital input & output functions
- v1.03.02
  - setting the setpoint on a daily schedule now works correctly
  - fixed crashing caused by deleting all daily or weekly schedules
- v1.04.01 
  - enabled 'Security' in config menu
    - ↳ users can be defined with 1 of 3 different security levels
  - bug fix: zones can now be deleted
  - enabled 'General Settings' in config menu
    - ↳ controller can now be named (name is displayed on System Overview screen)
  - various screen layout updates
- v1.04.02 
  - enabled 'secondary scheduling' feature
  - added ability to hide 'ungrouped' units
    - ↳ this is useful when multiple SMART touch controllers are connected to the same TCC-Link, and each controller must only see a subset of the HVAC
  - added 'Controller Address' setting, if multiple controllers are present
  - added support for VN heat-exchangers
    - ↳ only available if Black Pear HVAC controller firmware is at least v2.23
    - ↳ not fully supported on web pages yet (mode states do not display correctly)
- v1.04.03
  - various minor screen layout changes
  - removed various unused bitmaps
- v1.04.04
  - schedule control points can now set temperature setpoint down to 10°C
  - Black Pear HVAC controller firmware can now be updated
- v1.05.01 
  - Annual scheduling is now working
  - German language can now be selected
  - Backup & Restore functions have been added
    - ↳ allows all configuration settings, HVAC setup and schedules to be backed up to a USB stick
- v1.05.02
  - minor bug fixes
- v1.05.03
  - bug fix: HVAC Group Configuration
    - attempting to add a unit to a group when no valid groups are available (ie the unit address is lower than any defined group number), caused a crash.
- v1.05.04
  - bug fix: setpoints changed via remote controllers did not adhere to group setpoint range
  - includes Black Pear HVAC controller firmware v2.28
- v1.05.05
  - displays a warning if an incompatible USB stick has been used and forces a restart of the controller
- v1.05.06
  - added icons for TXIO General Equipment to allow control of 3rd party equipment



## **v1.04.01 update details**

- 1) Security (can be globally enabled or disabled)
  - a) Added 3 levels of security.
  - b) Password protection of manual HVAC control (enable/disable)
    - a user (any level) must be logged in to make any changes.
  - c) Auto logout when the screen is dimmed (enable/disable)

See description on following pages.

- 2) General Settings
  - a) Allows controller to be named (displayed on System Overview screen).
  - b) The name will default to 'STC-xxxxxxxxxxxx'
    - where xxxxxxxxxxxx is the MAC address of the controller.
- 3) Zone updates
  - a) Zones can now be deleted.
  - b) Zone control has been fixed.
- 4) Various screen layout changes.




## **Security Features**

Security has been added to be able to limit the accessibility of certain features. Should these features not be required then security can be globally disabled.

### **Note:**

The security features currently do not apply when accessing the controller via a web browser.




There are 3 levels of security:

Icon	Security Level	Description
	Engineer	Unrestricted access: Access to all configuration features. Access to all manual HVAC controls. Add and delete users with any security level.
	Building Manager	Partially restricted access: Access to all configuration features apart from: Allocating units to groups. Allocating groups to zones. Access to all manual HVAC controls. Add and delete users up to 'Building Manager' level. No access to global security settings.
	User	Limited access: Access to 'Appearance' configuration only. Access to manual HVAC controls apart from: Remote controller inhibit. Unable to acknowledge alarms and delete logs. Unable to upgrade system.

A default 'engineer level' user is created, the first time the SMART Touch controller is started with security features available. The user name is 'engineer' and the password is '0000'.

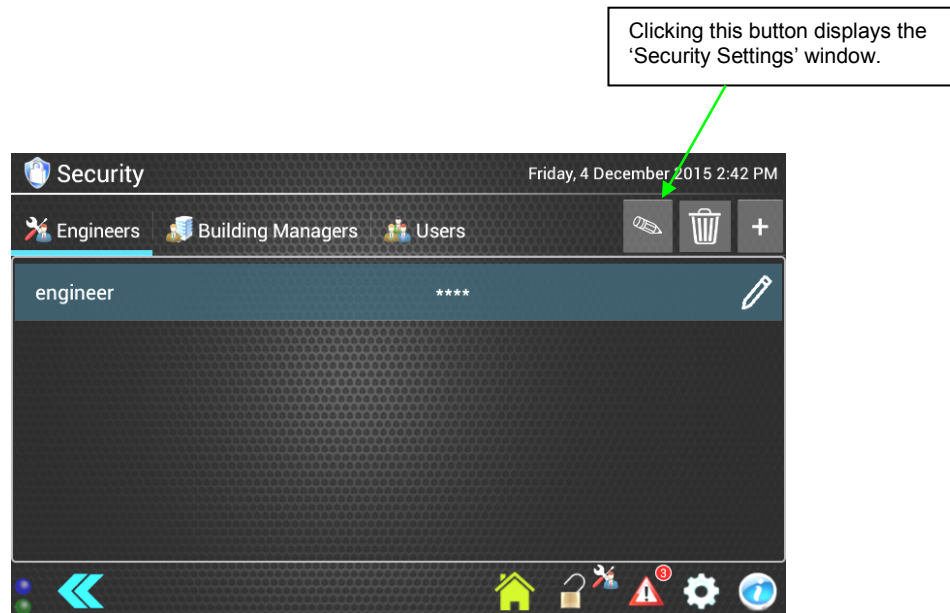
**Please ensure that there is at least 1 'engineer level' user defined when security is enabled.**

### **Security status indicators:**

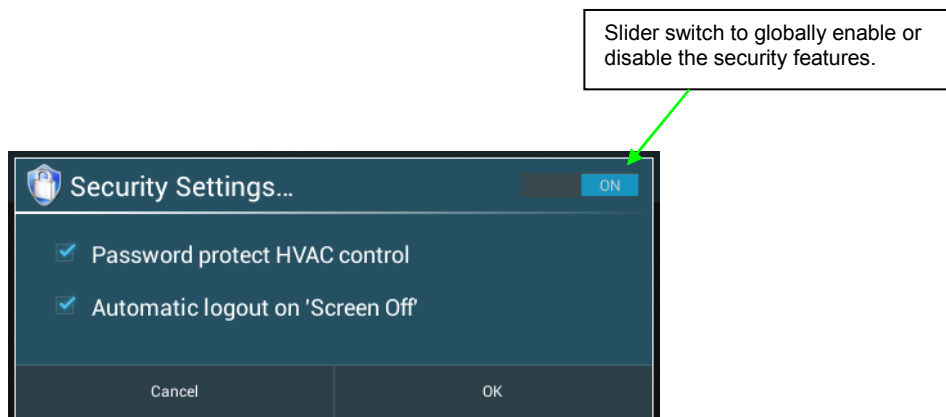
Icon	Description
	Security is enabled. Clicking this icon will bring up the login window.
	Security is enabled and someone has logged in successfully. Clicking this icon will bring up the logout window.
	Manual control of the HVAC is password protected. To make adjustments, a user (any security level) must be logged in. This icon is displayed on the System Overview screen.

### Security configuration screen:

Displays the users listed under their defined security level, and also provides access to the global security settings.



### Security Settings:



Setting	Description
Password protect HVAC control	When enabled, all manual control of the HVAC system is disabled until a user (with any security level) logs in.
Automatic logout on 'Screen Off'	When enabled, will automatically log a user out when the controller turns the screen off.

## **v1.04.02 update details**

### 1) HVAC settings

- a) ability to hide 'ungrouped' units.
- b) controller address is now settable

See description on following pages.

### 2) Scheduler settings

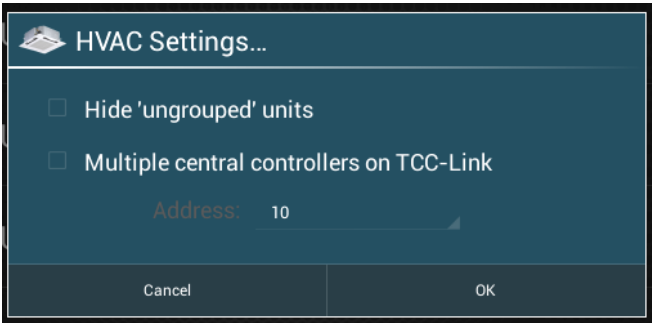
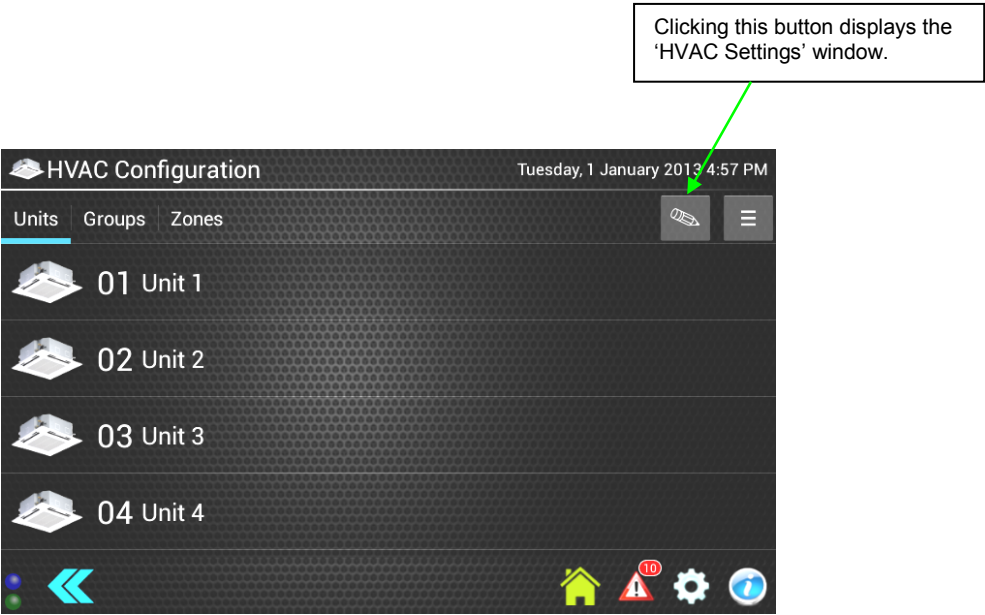
- a) enabled 'secondary scheduling' feature
  - a global date range is used to determine when the secondary schedule is active.

See description on following pages.

### 3) VN heat-exchanger support (only when Black Pear HVAC ctrl firmware $\geq$ v2.23)

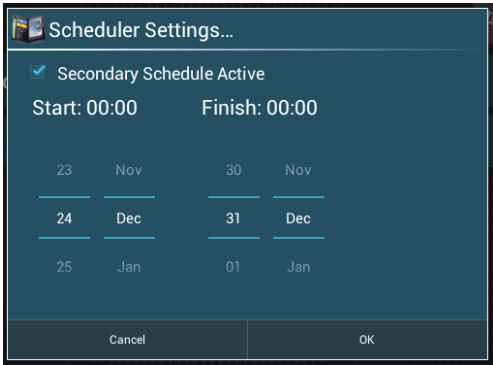
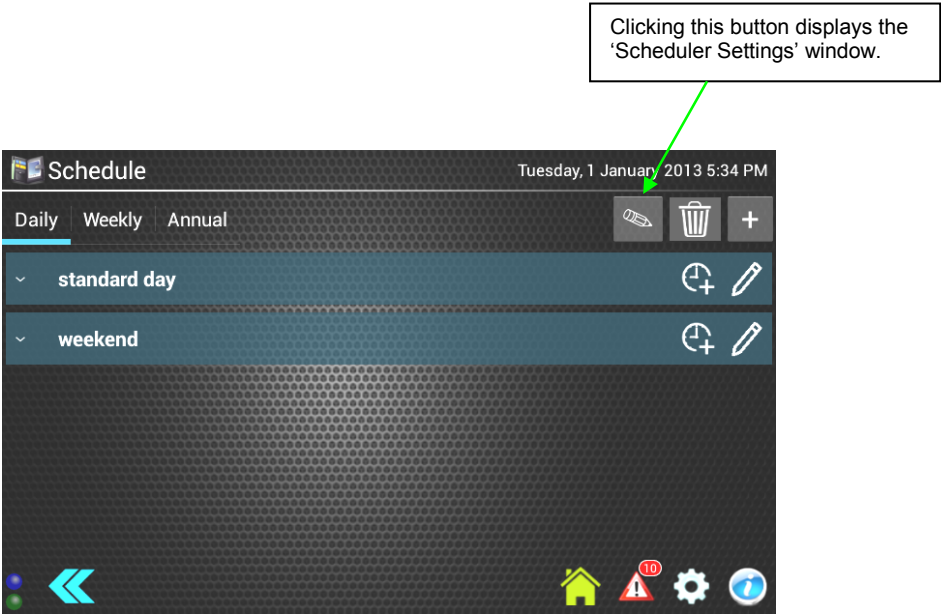
- a) when a group or zone is defined as a heat-exchanger then the manual control screen will only give access to on/off, mode and fanspeed.

**HVAC Settings**



Setting	Description
Hide 'ungrouped' units	Allows multiple SMART Touch controllers to be connected to the same TCC-Link, with each controller only seeing a subset of the HVAC system. Any active unit that hasn't been added to a group will not be displayed.
Multiple central controllers on TTC-Link	Tick to enable address setting.
Address	Enabled when 'Multiple central controllers...' is ticked. Settable from 1 to 10

**Scheduler Settings**



Setting	Description
Secondary Schedule Active	Enables the secondary scheduling feature. If a group doesn't have a secondary schedule defined, then the primary schedule will be used.
Start Date	The secondary schedule will start at 00:00 on the date selected.
Finish Date	The secondary schedule will finish at 00:00 on the date selected.



## **v1.05.01 update details**

### 1) Scheduler

- Annual scheduling is now available.

See description on following pages.

### 2) Enabled 'Language' icon on Configuration Menu

- Added german language translations.

### 3) Enabled Backup and Restore feature

See description on following pages.

## Annual Schedules

### Overview:

The screenshot shows the 'Schedule' interface with the 'Annual' tab selected. It displays a list of annual schedules. Callouts provide the following information:

- This number is the schedule priority.** (Points to the priority number '15' for 'christmas' and '20' for 'christmas shutdown').
- Active date range of schedule.** (Points to the date range '25 Dec 2016 - 26 Dec 2016' for 'christmas').
- 'Daily schedule' assigned to this schedule.** (Points to the 'bank holiday' daily schedule assigned to 'christmas').
- Clicking this button displays the 'Attach to groups' window.** (Points to the calendar icon with '06' in the top right corner).
- This symbol indicates the schedule will repeat annually.** (Points to the circular arrow icon next to the schedule name).
- Clicking this button displays the 'Schedule edit' window.** (Points to the edit icon (pencil) in the top right corner).

- Annual scheduling allows actions to occur on a specific date or range of dates.
- Annual schedules take precedence over the standard weekly schedules.
- Each day will perform the same specified daily schedule.
- A schedule can be a 'one-shot' event or can repeat annually.
- Schedule priority allows multiple schedules to overlap, with the highest priority 'active' schedule taking precedence.

### Creating and editing a schedule:

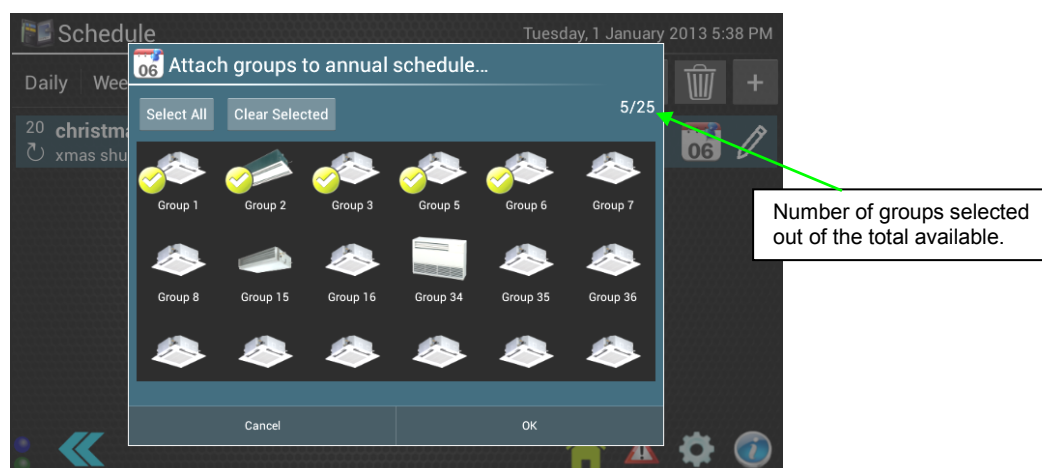
The 'Edit Annual Schedule' dialog box is shown, allowing configuration of an annual schedule. The fields are as follows:

Field	Value
Name	christmas
Description	xmas shutdown
Repeat Annually	<input checked="" type="checkbox"/>
Start at 00:00	25 Dec 2016
Finish at 23:59	26 Dec 2016
Priority	20
Day Schedule	general shutdown

Buttons: Cancel, Update

Setting	Description
Name	Schedule identifier
Description	Additional details (if required).
Repeat Annually	Selects whether schedule is a 'one-shot' event or annual event.
Start at 00:00	Start date of schedule.
Finish at 23:59	Finish date of schedule. If the same as the start date then the schedule is active for 1 day only.
Priority	Used to organise overlapping schedules. Selectable from 1 to 20, where 1 is the highest priority. Schedules with the same priority will be ordered alphabetically.
Day Schedule	Scheduled actions to be performed.

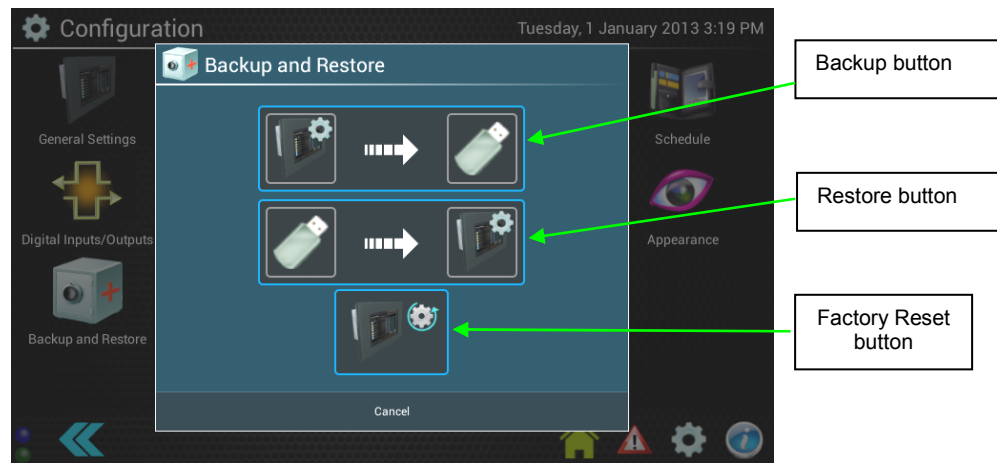
### Assigning groups to an annual schedule:



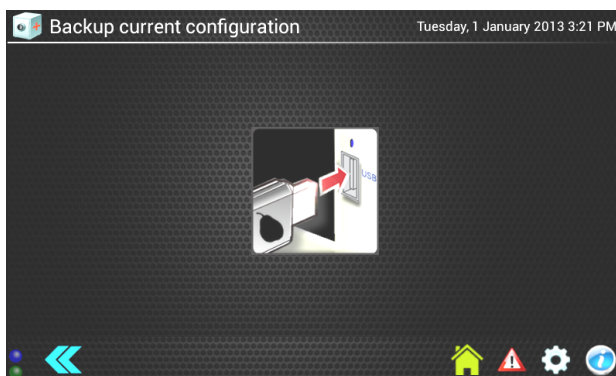
Tapping a group icon will toggle the tick mark. Any group showing the tick mark will be controlled by the annual schedule when it becomes active.  
Groups can be assigned to multiple annual schedules. Where schedules overlap, then the priority determines which will take precedence.

**Note:** Any weekly schedules assigned to these groups will be overridden while the annual schedule is active.

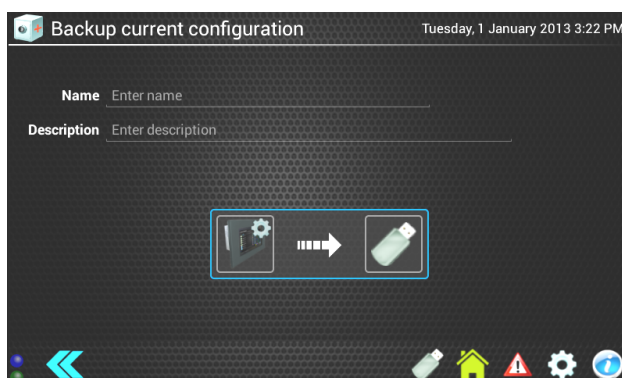
## Backup and Restore



### Backup current configuration:



If this screen appears then insert a USB memory stick.



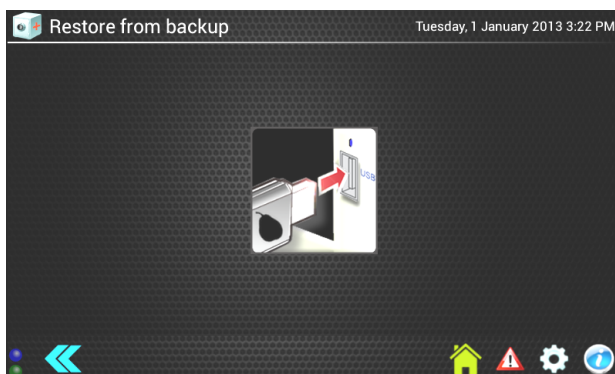
'Name' must be a valid filename.  
' .zip' will automatically be appended to this name.

The backup creates a 'zip folder' containing all the settings, unit/group/zone information, scheduling, user information etc.

The name, description, date/time, the user performing the backup (if logged on) and the software version of the Smart Touch controller, are also stored, and are used to identify the backup during the restore process.

The backup will be stored in the 'root' directory of the USB memory stick.

## Restore from backup:



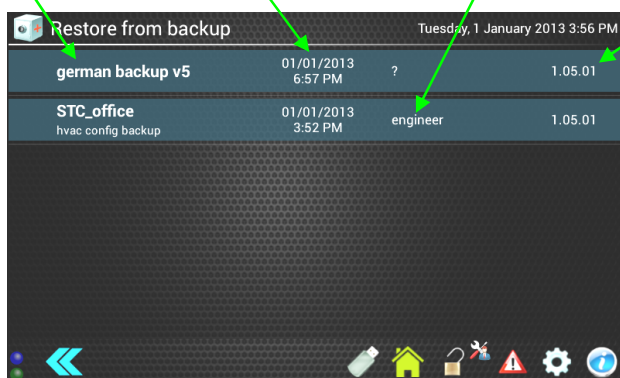
If this screen appears then insert a USB memory stick.

Name and description

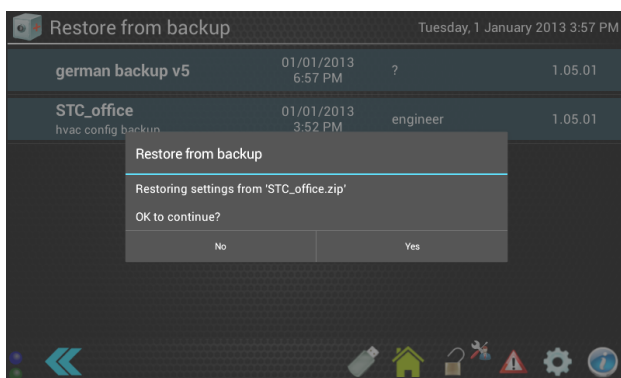
Date and time backup was created

User who created the backup (if logged in)

SMART Touch controller software version, when backup was created



The 'root' directory of the USB memory stick will be scanned, and all available backups will be listed.



Clicking on an available backup will start the restore process. Provided the backup contains no errors and was not created on a more recent version of the STC software, then the restore process will continue and the controller will restart automatically.