

SmoothPay Payroll provides built-in support for importing attendance files from ZKTeco's series of timeclocks (*specifically the VF380 face recognition model, and the UA300+ID fingerprint model described in this document*), however any ZK timeclock that generates standard ZK attendance files should work correctly and the processes will be similar.

These timeclocks are very cost-effective and there are many models available for use in mobile or remote areas, gate control etc.

Installation and setup: Please refer to the guides supplied with your timeclock for initial setup and enrolment of users (*SmoothPay has a simple setup guide for each supported model at the end of this document*), or contact your supplier (*or as a last resort our helpdesk*) if you require assistance.

Timeclock management: ZK timeclocks also come with additional software allowing Windows users to control one or more timeclocks. This is entirely optional (*and typically generates more work than is necessary*) and is not required in order to use a ZK timeclock with SmoothPay Payroll.

VF380 Face Recognition/Card reader

This clock records the facial characteristics (biometrics) of each user from 3 enrolment snapshots, and can also have an RFID card assigned if preferred (*the administrator should have a card assigned so that the system can be controlled using the card when the administrator is away*).



The VF380 can hold up to 800 faces, 10000 users and 100000 transactions, and its verification time is less than 1 second.

All setting operations are easily done on the 3inch TFT touch screen. The elegant and compact design can fit in any environment.

Incorporated relay and connections, allow the use of door lock, sensors, bell or exit button, that converts this product in a complete access control and time & attendance solution.

Attendance data is exported via the USB port, then imported into SmoothPay for payroll processing.

UA300+ID timeclock

This clock records the fingerprint characteristics (biometrics) of each user, and can also have an RFID card assigned if preferred (*the administrator should have a card assigned so that the system can be controlled using the card when the administrator is away*).



The UA300 can hold up to 3000 fingerprints, 10000 RFID users and 100000 transactions.

All setting operations are easily done using the [M/OK] button and by selecting actions displayed on the colour screen by using the arrow keys and the [M/OK] or [ESC] buttons.

Attendance data is exported via the USB port, then imported into SmoothPay for payroll processing.

TX628 timeclock

Similar to the UA300 clock, this clock provides automatic double-clocking prevention (*one minute must elapse before an additional clocking for the same userid can occur*).

The TX628 can hold up to 3000 fingerprints, 30000 RFID users and 120000 transactions.

All setting operations are easily done using the [M/ OK] button and by selecting actions displayed on the colour screen by using the arrow keys and the [M/OK] or [ESC] buttons.

Attendance data is exported via the USB port, then imported into SmoothPay for payroll processing.



Employee badge and clock enrolment numbers

Each employee must be assigned a Badge # (as pictured) - this number must match the ID number used to enrol the employee on the TimeClock unit.



So that SmoothPay knows who each attendance entry represents, the **employee** # used on the clock needs to be entered as the employee's **Badge** #

The time entries captured by the timeclock will now match an employee, and the TimeClock import utility will be able to process the time entries correctly.

Clocking in and out

WARNING: One of the <u>least user-friendly</u> aspects of the ZK series of timeclocks is the requirement that the **clocking direction** be set before staff clock in or out - if it gets messed up then your clocking data will not be very useful. Staff should be trained to **CHECK CLOCKING DIRECTION** every time they use the timeclock.

However, because of the difficulty ensuring correct usage, SmoothPay provides an exclusive "**Ignore clocking direction**" option which allows clockings to work sequentially, regardless of the clock's direction setting. Note that the first clocking entry encountered for each employee within the pay period will be regarded as a Clock-In.

Here's how to set **clocking direction** for each of the models described (*also covered in the setup guides*):

VF380: Touch the [>>] symbol on the top-right of the screen, select "Check-In" or "Check-Out" as required.

UA300 and TX628: Use the UP or DOWN arrow to display "Check-In" or "Check-Out" as required.

TimeClock integration

Choose Payrun..Import..ZK Timeclock DAT



Data Source

This timeclock import utility provides for import from USB attendance files exported from the ZK timeclock. After plugging in the USB device used to collect the data from the timeclock, select the file it contains (*e.g. 0797133800001_attlog.dat or 1_attlog.dat etc. - filename may vary depending on the clock model*).

Load data in this date/time period

The date and time range are set automatically to suit your usual pay cycle, however you can change these to suit any other range if you need to.

Ignore Clocking Direction: ZK timeclock's have a clocking direction setting (*often not used correctly*), so the import ignores the clock's In/Out direction recorded in the attendance data and treats the first clocking encountered for an employee as a Clock-In. In addition, if a clocking results in excessive hours (*usually due to an employee not clocking out at the end of their shift*) the clock-out time is shifted to the clock-in time so that a normal clocking pattern can be resumed (*hopefully*).

Reset: This option resets the date/time range to the default values established when the import utility started.

Exporting timeclock attendance to USB drive

Each of the ZK series timeclocks has a slightly different procedure for exporting data to a connected USB device:

VF380 timeclock

Step 1	Connect your USB/flash drive (left hand side)
Step 2	Touch [MENU] and use your Administrator RFID card (or face- recognition) to access the menu
Step 3	Select [Dn/Upload] then [Download transactions]
Step 4	[Exit] back to the main screen and remove the USB device

UA300 or TX628 timeclock

Step 1	Connect your USB/flash drive (left hand side)
Step 2	Press [M/OK] and use your Administrator RFID card (or fingerprint) to access the menu
Step 3	Select [USB Manager] then [Download] then [Attendance data]
Step 4	Select required Time Range (we recommend the ALL or User-Defined options)
Step 5	[ESC] back to the main screen and remove the USB device

Importing time entries

Drop or select the file to be imported in the Payrun..Import..ZK Timeclock DAT dialog - adjust start/end range if necessary.

Choose **Process** to collect any new data from the timeclock attendance file and process time entries into current pay input.

In all cases entries that are earlier than the period start date and time or less than three minutes apart are ignored, as are entries that repeat the clocking direction (if more than one Clock-In occurs without an intervening Clock-Out then all but the first Clock-In record is ignored), or do not have a start or stop time, or entries that cannot be matched with an employee badge number.

Entries that would exceed 13 hours are ignored.

If **meal break** rules are specified in *Configure..Timesheets*, then all entries that exceed the continuous work period will have meal-breaks deducted.

An audit report will be produced showing entries processed, the calculated elapsed time (*after any rounding and meal-breaks that might need to be applied*).

Error/ignored entries are reported too with an appropriate message (*except entries outside the the pay period start/finish range*).

IMPORTANT: **Time entries imported are ADDITIVE**! This means that repeated imports of the same data will probably duplicate entries already imported. This is by design, as timeclock entries can be imported daily if you like leaving any previous entries in-place until you complete your payroll processing for the pay period.

If you wish to re-import all time entries for a particular period, simply clear all employees from the *Who to pay* screen, then re-import your (corrected) data.

Use *Payrun..Work* to manually correct or add entries as needed.

Here's an example of part of the import audit report:

						Page
and the second					2014-08-2	9 09:56:
7K TimeClock USB	ile Import Report (no	ruloe)				3.3
ZK TIMECIUCK USD I	ne import neport, (no	rules)				
					_	
Employee	In	Out	Job	Units	Errors	
		T 00/00/11/00/0				
1	Tue 26/08/14 10:36	Tue 26/08/14 10:40		0.066		
1	Tue 26/08/14 10:36 Tue 26/08/14 10:41	Tue 26/08/14 10:40 Tue 26/08/14 11:04		0.066 0.383		
	Tue 26/08/14 10:36 Tue 26/08/14 10:41 Tue 26/08/14 11:18	Tue 26/08/14 10:40 Tue 26/08/14 11:04 Tue 26/08/14 13:59		0.066 0.383 2.683		
	Tue 26/08/14 10:36 Tue 26/08/14 10:41 Tue 26/08/14 11:18 Tue 26/08/14 13:59	Tue 26/08/14 10:40 Tue 26/08/14 11:04 Tue 26/08/14 13:59 Tue 26/08/14 15:36		0.066 0.383 2.683 1.616		
	Tue 26/08/14 10:36 Tue 26/08/14 10:41 Tue 26/08/14 11:18 Tue 26/08/14 13:59 Tue 26/08/14 15:58	Tue 26/08/14 10:40 Tue 26/08/14 11:04 Tue 26/08/14 13:59 Tue 26/08/14 15:36 Tue 26/08/14 17:53		0.066 0.383 2.683 1.616 1.916		
	Tue 26/08/14 10:36 Tue 26/08/14 10:41 Tue 26/08/14 11:18 Tue 26/08/14 13:59 Tue 26/08/14 15:58 Wed 27/08/14 08:40	Tue 26/08/14 10:40 Tue 26/08/14 11:04 Tue 26/08/14 13:59 Tue 26/08/14 15:36 Tue 26/08/14 17:53		0.066 0.383 2.683 1.616 1.916 0.000	**NO UNITS	

...and an employee's pay input screen after importing data from the TimeClock:

Personal Pay History C	Contract Leave	KiwiSaver Payments Bank Notes					
Time [F5] Leave Taken Allowances [F6] Sundry Deductions Overheads							
Ordinary time Ordinary time Ordinary time Ordinary time Ordinary time	Date Type Units Rate Value	26.08.2014 ORDINARY Ordinary time					

Global timesheet rules (and employee default timesheet rule values)

SmoothPay implements the concept of "*inheritance*", where global configuration or code settings are used to set the default values for new employees, pay input records etc. When used correctly this greatly simplifies your work processes, otherwise you're faced with having to customise every entry rather than use common default values.

Choose *Configure..Timesheets* to establish global rounding rules (if you want/need to) - these also establish default rounding rule values for new employees:

Timesheet an	d timeclock setting	gs		1		
Official start/stop times and clocking rounding rules (24-hour clock)						
				_		
Official start	00:00	Start rounding	No rounding			
Official end		End rounding	No rounding			
Meal-break r	ules (required onl	y if employee doe	es NOT clock out	for meal breaks)		
Meal break of	0.50 hours, eve	ry 5.00 hrs of	f continuous service O	R 🗆 per shift		
		.,	st on Saturday	Sunday		
		excep	on Saturday	Junday		
Classify time	sheet or timeclock	import entries f	or weekend work	as		
Saturday	No rule	0				
Sunday	No rule					
,						
Sundry impo	rt rules					
□ Import leave hours as % of contract week						
			_			
Canc	el			Save		

Official start/stop times should be blank if not used - these typically only ever apply in office or retail environments where hours of work are strictly controlled.

Clock in/out rounding rules provide for timeclock entries to be rounded by .1 hour (6 minutes) or .25 hour (15 minutes) in either direction - or not rounded at all.

Meal-break rules can be implemented and will apply to all entries that contain continuous service exceeding the maximum specified. *Leave these blank if not used*.

Weekend work rules - these are intended for use with Timesheet input rather than timeclock import.

Employee timesheet rules

The *Staff..Contract..Timesheet* page provides for specific time rounding rules per employee:

Personal	Contract		Bank	His	tory	
Contract details	Employment	Apprenticeship	Overtime/TOIL	Timesheet	Misc	
Use special timeclock import rules for this employee?						
Official start/stop times and clocking rounding rules						
Official start	Start roun					
Official end	End round	ling No roundin	g	0		
Meal-break rules (requir	ed only if employe	e does NOT clo	ck out for meal b	reaks)		
Meal break of 0.50 h	nours, every 5.00	hrs of continuous	service OR 🗌 per s	hift		
		except on	Saturday 🗌 Sund	ay		
Convert weekend work to RDO (TOIL) time banking						
Saturday	Sunday					
	,					

These rules only take effect if the Use special timeclock import rules option is ticked.

Feedback

We're always keen to do better!

Any and all feedback is appreciated and if you feel we could include better examples, provide more explanation, provide references to additional information, make a process easier to use, or you spot something that isn't working the way it's supposed to - please let us know.