VHSmartcard Intelligent System (VHSiS™)

Technical Paper

緯衡科技
VHSoft Technologies

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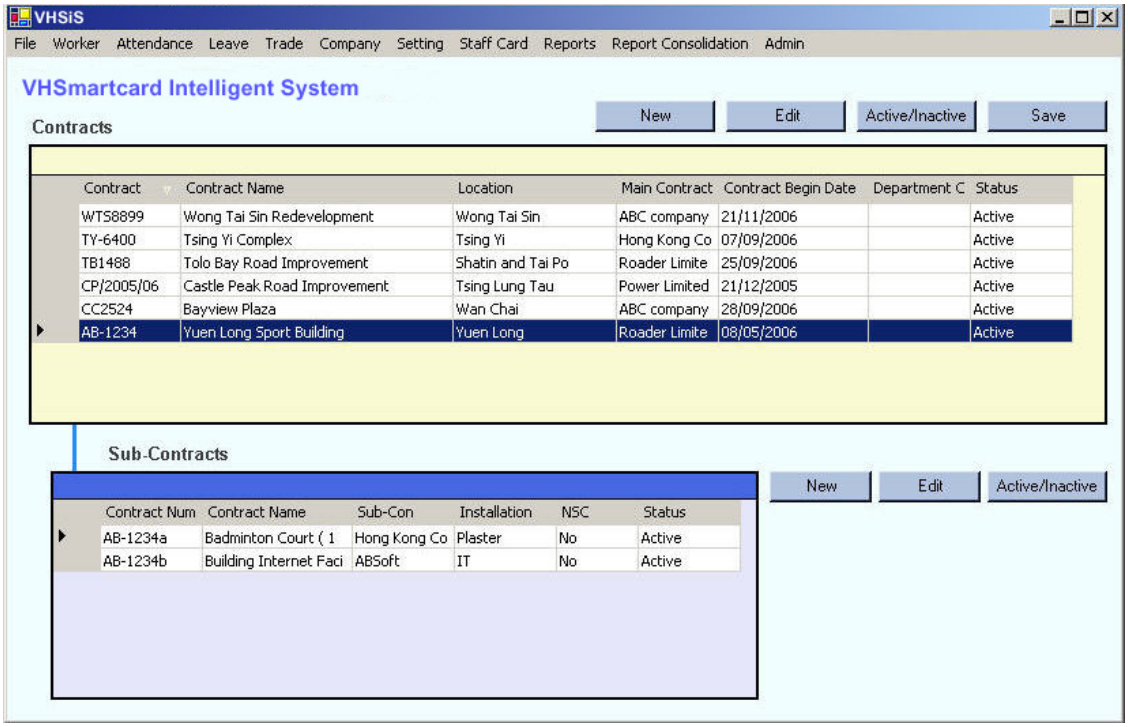
Introduction to VHSmart Card Intelligent System (VHSiS™)

VHSmart Card Intelligent system (VHSiS™) facilitates organizations to enforce security control, implement staff card issuing and obtain attendance record of company staff including headquarters, branch offices, subsidiaries, site offices and also the sub-contractors in different locations. VHSiS™ can perform centralized registration, attendance tracking, reporting and card issuance, as well as resource planning.

By synchronizing the updated staff information from remote branches, subsidiaries, site offices and also to the PDA, hence, the integrity and centralization of smart card management is assured.



About VHSiS

Smart Card System:

- Utilize biometric authentication technology
- Fully comply with Construction Workers Registration Authority (CWRA) Security Access Module System (SATM)
- Print Site Personnel detail
- Support:
  - Mobile computing device for smart-card verification
  - Company Smart Card and CWRA Card
  - Daily In/Out Record Output

Payment of Wages:

- Schedule of Wages
- Mandatory Provident Fund (MPF) Contributions against Daily Attendance
- Sub-Contractor's Payment of Wages

Reports:

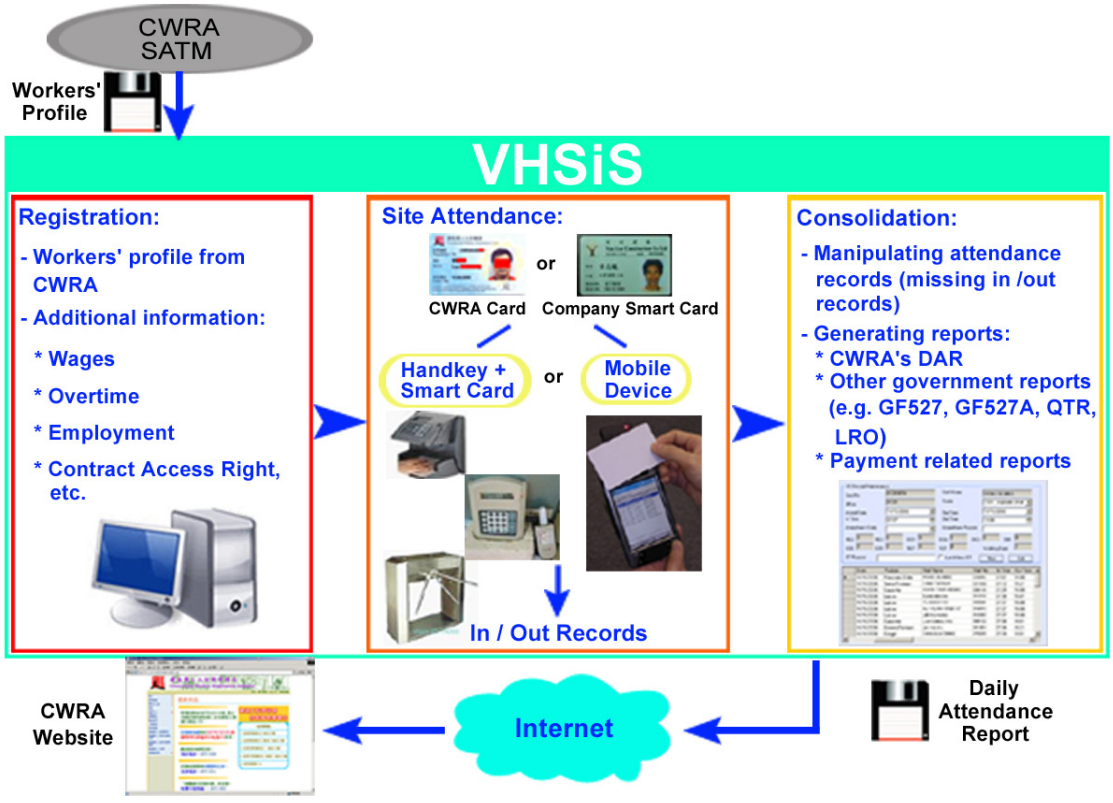
- Daily Attendance Report (DAR) for CWRA
- GF527 and GF527A for tenants (e.g. Architectural Services Department [ASD] and Housing Authority [HA]) and Census Department
- Qualify Tradesman Report (QTR) for tenants
- Other Payment-related and Management Reports (e.g. Overtime [OT] Report, Sub-contractor Payment Record with MPF, Exception Report, etc.)

Others:

- OT, Roster Setting and Wages Calculation
- Missing in/out records enquiry and auto-fill with pre-set time
- Sub-contractor's self-maintenance capability (daily record, report, payment)

Security:

- Apply an encrypted key in staff card and database system to protect sensitive data
- Introduce dynamic backup strategy on centralized database, enabling real time and cold backup of data



Section 1: Registration Module

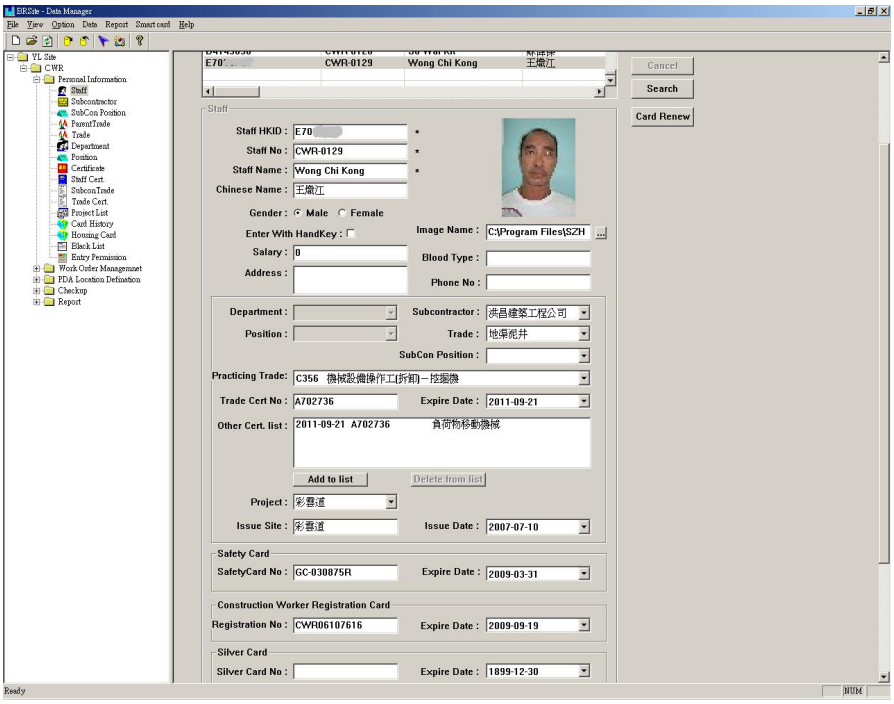
Overview

The user can export the workers' profile collected from CWRA to VHSiS. Additional information, such as wage, overtime, employment, access right of contract, etc., of workers can be inputted in the Registration Module of VHSiS. All information, together with the profile, will be stored in a central repository in VHSiS. The features of the Registration Module are highlighted as follows:

- Centralized Staff Registration with association of Company Smart Card / CWRA Card
- Comprehensive Repository of labour information that can be shared, distributed and dispatched to branches, subsidiaries and sites
- Company Card Read/Write Function: Write personal information to Company Smart Card with personal photo
- Multiple Sites Access Control Configuration of Staff
- Staff Data Export / Import across headquarter and sites
- Maintenance of:
  - Department List
  - Trade List
  - Certification
  - Position List
- Company Card Printing Function: about 12 card templates for selection (template requires additional program customization)
- Compatible with advanced Smart Card Security Requirement including SATM

Registration Management

Application registration contains staff's photo and is compatible with registration cards issued by the Registrar of Construction Workers, which is appointed under the Construction Workers Registration Ordinance.



Certification Maintenance

Applicant information enquiry, worker's trade certificate (with qualification and expiry date) maintenance, result updating, interfacing, email confirmation, rejection handling and letter of reject application can be performed.

Card Personalization & Printing

Functions include card personalization log in and access permission, smart card writing and printing and QC/QA.

Card Enquiry

With the central repository, the user can easily enquire staff's profile and card information enquiry.

Card Update

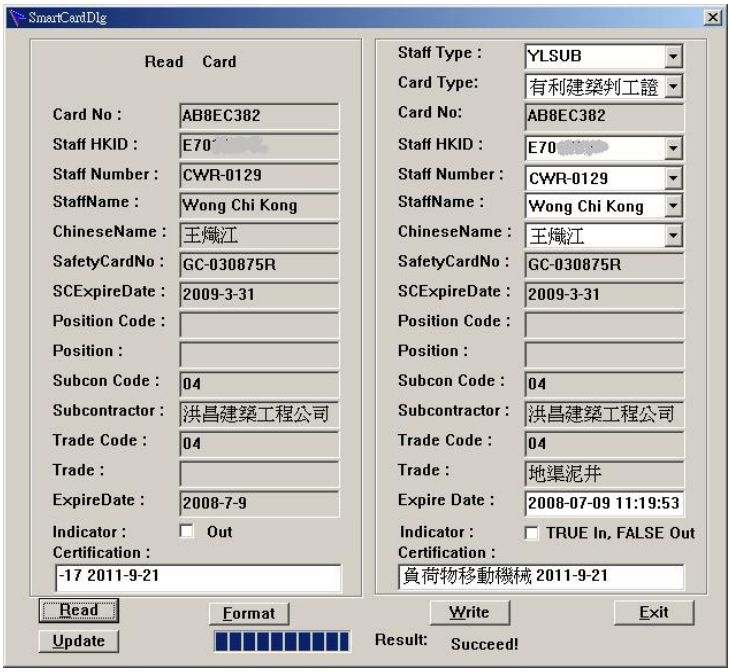
The user can perform card renewal and card re-issuing.

Chip and Card Application

The user can perform card termination and card suspension.

Smart Card Receiving Side

Card reading and security access handling are available.



Key Management

An encrypted key is generated for smart cards and the database to protect sensitive data including ID card no. and staff password.

Section 2: Site Attendance Module

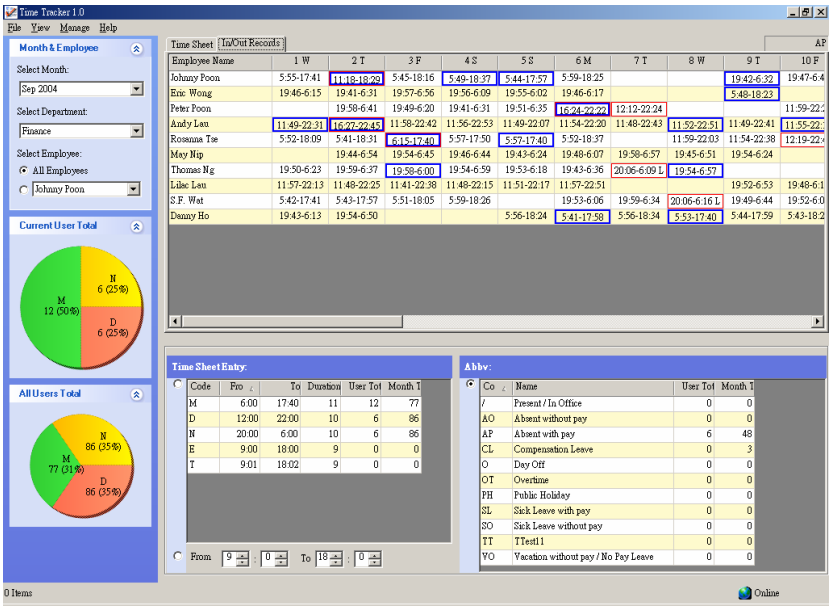
Overview

The function of the Site Attendance Module is to capture the in/out records from sites and import them to VHSiS. VHSiS supports two approaches for collecting the attendance records.

- Smart Card Reader with Handkey and Company Smart Card / CWRA Card
- Mobile Computing Device

The following functions are also supported by the Site Attendance Module of VHSiS:

- Card Reading for Company SmartCard / CWRA Card
- Remote Site Access (for fitting out)
- Site attendance import (for fitting out)
- Daily Good List update (automatic)



Attendance Data Capture

In/Out records can be obtained by manual data input, mobile computing device data capturing, fixed card data input and/or problematic card list importing.

Attendance Data Import from an Access Control System

Attendance data can be captured by an access control system in the site and then imported to VHSiS.

Mobile Computing

In/Out records can be captured by and stored into a mobile computing device. An attendance history can then be established and exported to the Consolidation Module. Information such as Lunch OT can also be set.

VHSiS
10:02
VHSmartcard
Intelligent System
Current User:
Administrator
Contract No.:
CD1234
Contract Name:
XYZ Sport Complex
File Attendance OT Data

Section 3: Consolidation Module

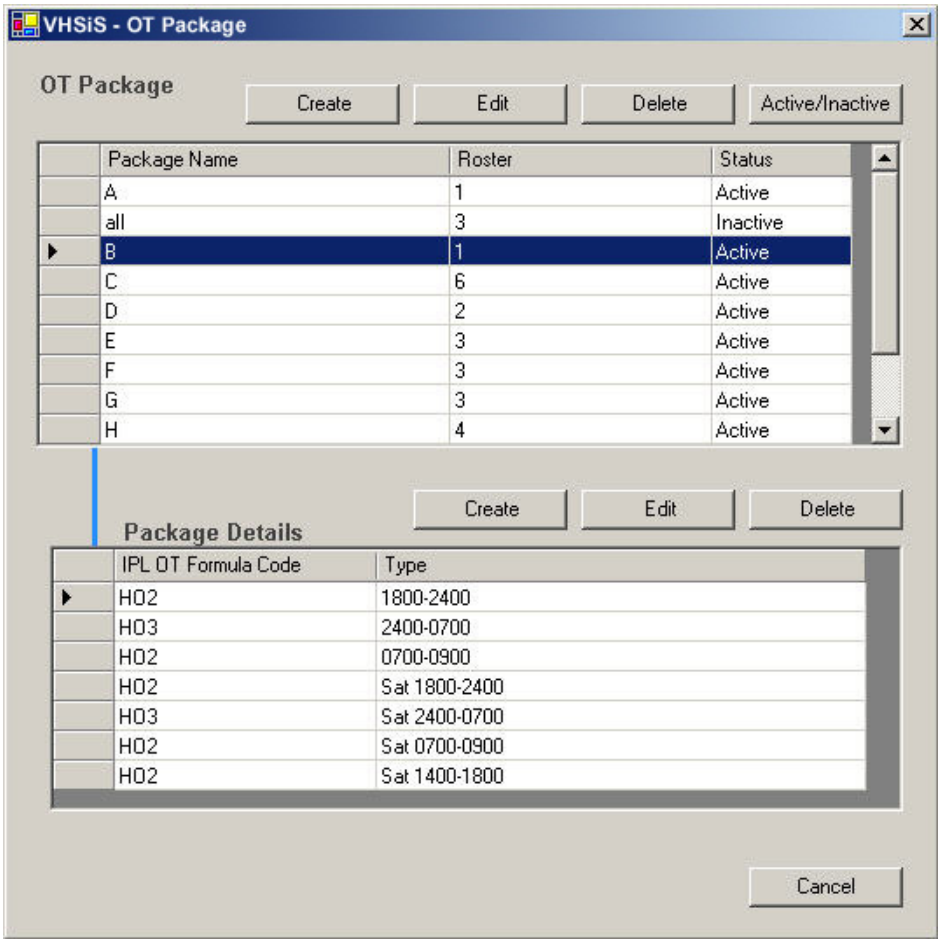
Overview

After capturing the attendance records of workers, the user can further consolidate the data by setting certain templates and fixing the in/out records in the Consolidation Module. Various kinds of reports, including the Daily Attendance Report (DAR), which is required by the CWRA, can be generated.

Template Setting

Main contractors and sub-contractors can set the Independent Roles Permission. For the calculation of wages, the user can set the following templates:

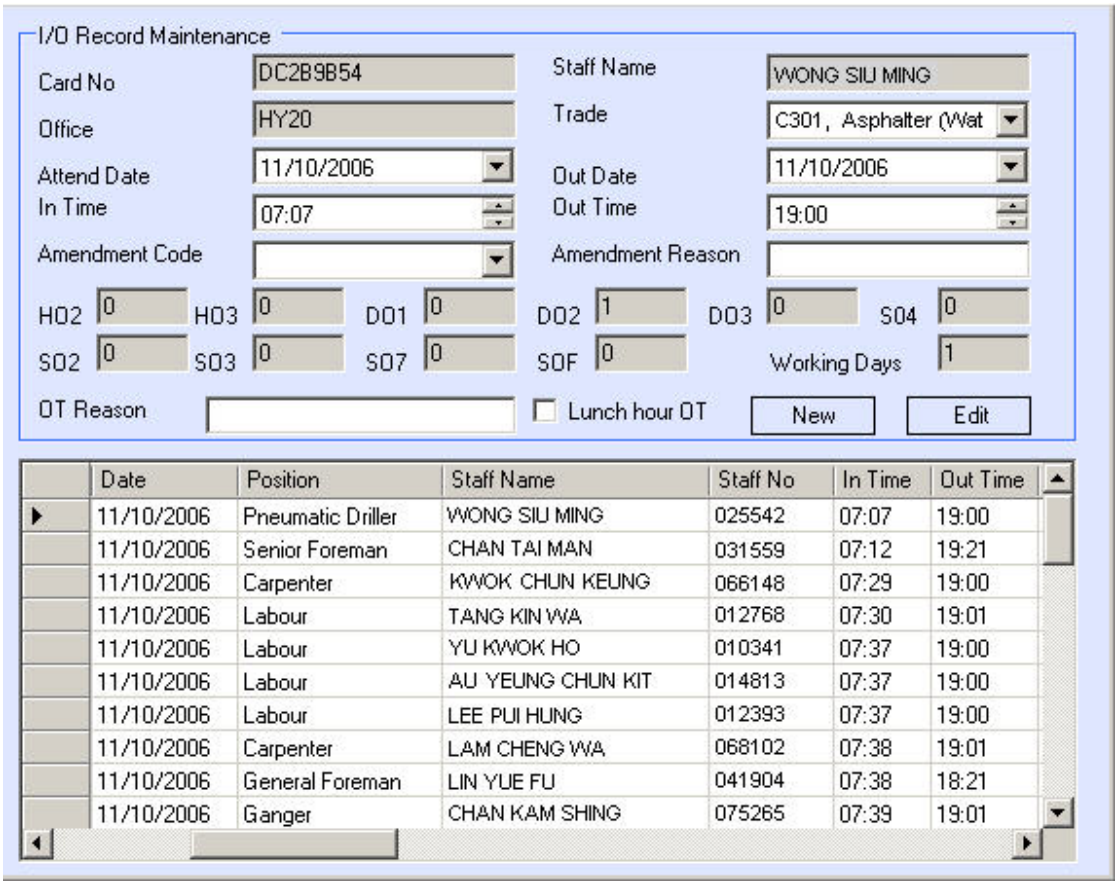
- Holidays: the dates of all holidays around a year.
- Staff Roster: different roaster types and their details, such as working days per week, working hours per day, lunch break, etc.
- Leave Type: different leave types such as annual leave, sick leave, no pay leave, marriage leave, etc.
- OT Package: wages or compensation for overtime working



Data Maintenance

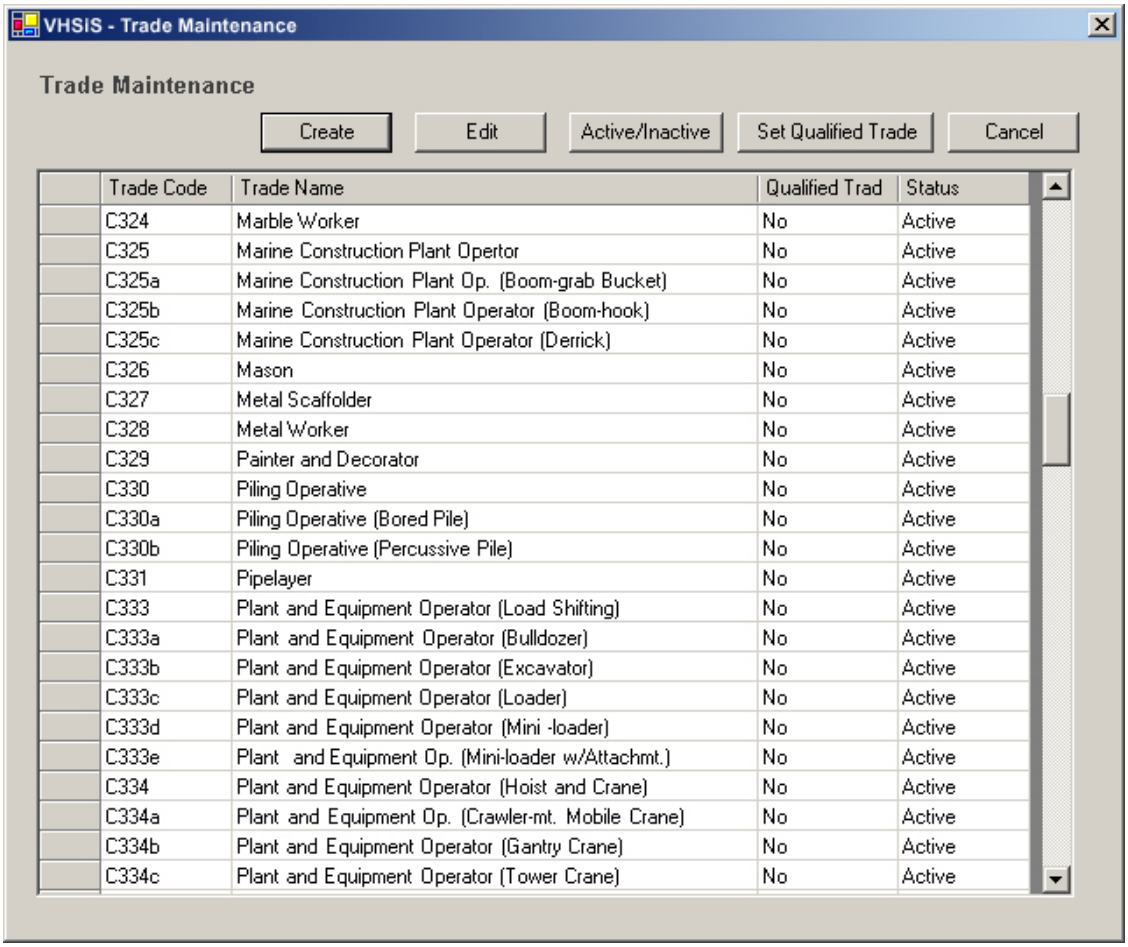
1. In/Out Records Maintenance

Some in/out records may be missing due to various reasons such as hardware failure. VHSiS can identify the missing records and update them in batch with only a step. The attendance data can also be manipulated in the Consolidation Module. Nominated sub-contractors (NSC) can perform in/our record maintenance independently.



2. Trade Maintenance

For generating reports like GF527, GF527A and QTR, VHSiS can rectify the correct trade of workers on a specific working date quickly. The user can also edit the trades of workers manually.



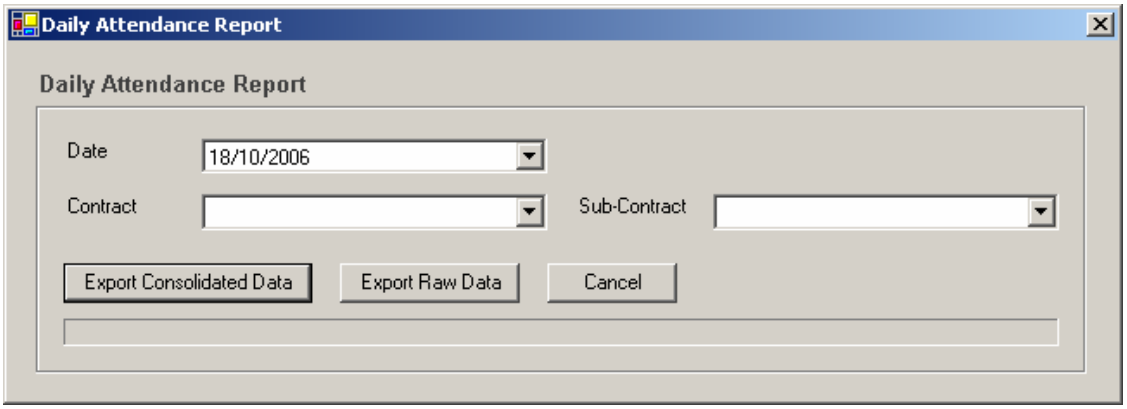
Trade Code	Trade Name	Qualified Trad	Status
C324	Marble Worker	No	Active
C325	Marine Construction Plant Opertor	No	Active
C325a	Marine Construction Plant Op. (Boom-grab Bucket)	No	Active
C325b	Marine Construction Plant Operator (Boom-hook)	No	Active
C325c	Marine Construction Plant Operator (Derrick)	No	Active
C326	Mason	No	Active
C327	Metal Scaffolder	No	Active
C328	Metal Worker	No	Active
C329	Painter and Decorator	No	Active
C330	Piling Operative	No	Active
C330a	Piling Operative (Bored Pile)	No	Active
C330b	Piling Operative (Percussive Pile)	No	Active
C331	Pipelayer	No	Active
C333	Plant and Equipment Operator (Load Shifting)	No	Active
C333a	Plant and Equipment Operator (Bulldozer)	No	Active
C333b	Plant and Equipment Operator (Excavator)	No	Active
C333c	Plant and Equipment Operator (Loader)	No	Active
C333d	Plant and Equipment Operator (Mini -loader)	No	Active
C333e	Plant and Equipment Op. (Mini-loader w/Attachmt.)	No	Active
C334	Plant and Equipment Operator (Hoist and Crane)	No	Active
C334a	Plant and Equipment Op. (Crawler-mt. Mobile Crane)	No	Active
C334b	Plant and Equipment Operator (Gantry Crane)	No	Active
C334c	Plant and Equipment Operator (Tower Crane)	No	Active

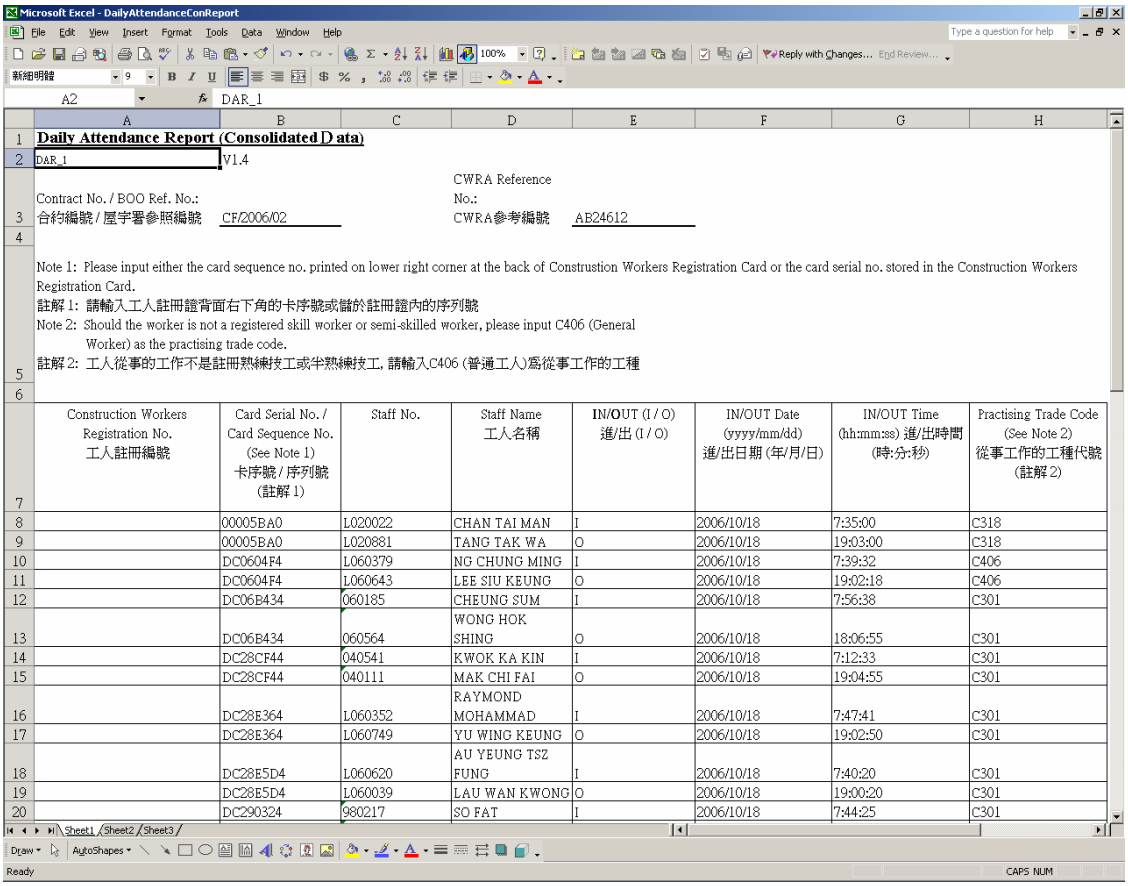
Report Generation

VHSiS can generate a number of reports for different needs and purposes. The following will narrate the reports one by one in detail.

1. Daily Attendance Report (DAR) (Required by CWRA)

   Main contractors and NSC are required to submit DAR of the site workers to the CWRA. VHSiS is capable to generate DAR that accurately match with GF527 and contain Contract No., CWRA Reference No., Construction Workers Registration No., Card Serial No. / Card Sequence No., IN/OUT Type, IN/OUT Date, IN/OUT Time and Practicing Trade Code to comply with the requirements of CWRA. The DAR is exported as an Excel file for submission to the website of CWRA.





Microsoft Excel - DailyAttendanceConReport

Daily Attendance Report (Consolidated Data)

DAR_1 V1.4

Contract No. / BOO Ref. No.: 合約編號 / 屋宇署參照編號: CF/2006/02

CWRA Reference No.: CWRA參考編號: AB24612

Note 1: Please input either the card sequence no. printed on lower right corner at the back of Construstion Workers Registration Card or the card serial no. stored in the Construction Workers Registration Card.
註解 1: 請輸入工人註冊證背面右下角的卡序號或儲於註冊證內的序列號

Note 2: Should the worker is not a registered skill worker or semi-skilled worker, please input C406 (General Worker) as the practising trade code.
註解 2: 工人從事的工作不是註冊熟練技工或半熟練技工, 請輸入C406 (普通工人)爲從事工作的工種

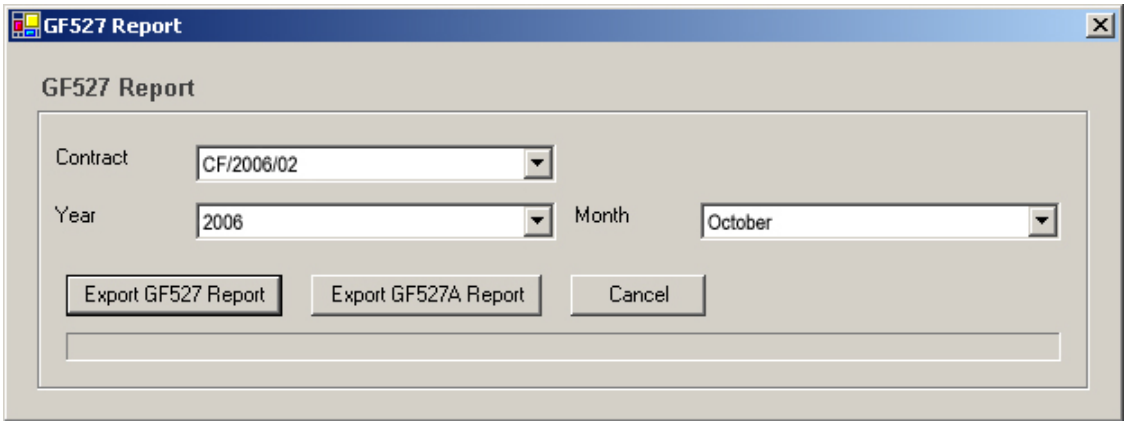
Construction Workers Registration No. 工人註冊編號	Card Serial No. / Card Sequence No. (See Note 1) 卡序號 / 序列號 (註解 1)	Staff No.	Staff Name 工人名稱	IN/OUT (I / O) 進/出 (I / O)	IN/OUT Date (yyyy/mm/dd) 進/出日期 (年/月/日)	IN/OUT Time (hh:mm:ss) 進/出時間 (時:分:秒)	Practising Trade Code (See Note 2) 從事工作的工種代號 (註解 2)
	00005BA0	L020022	CHAN TAI MAN	I	2006/10/18	7:35:00	C318
	00005BA0	L020881	TANG TAK WA	O	2006/10/18	19:03:00	C318
	DC0604F4	L060379	NG CHUNG MING	I	2006/10/18	7:39:32	C406
	DC0604F4	L060643	LEE SIU KEUNG	O	2006/10/18	19:02:18	C406
	DC06B434	060185	CHEUNG SUM	I	2006/10/18	7:56:38	C301
	DC06B434	060564	WONG HOK SHING	O	2006/10/18	18:06:55	C301
	DC28CF44	040541	KWOK KA KIN	I	2006/10/18	7:12:33	C301
	DC28CF44	040111	MAK CHI FAI	O	2006/10/18	19:04:55	C301
	DC28E364	L060352	RAYMOND MOHAMMAD	I	2006/10/18	7:47:41	C301
	DC28E364	L060749	YU WING KEUNG	O	2006/10/18	19:02:50	C301
	DC28E5D4	L060620	AU YEUNG TSZ FUNG	I	2006/10/18	7:40:20	C301
	DC28E5D4	L060039	LAU WAN KWONG	O	2006/10/18	19:00:20	C301
	DC290324	980217	SO FAT	I	2006/10/18	7:44:25	C301

Sheet1 / Sheet2 / Sheet3

Ready

2. GF527 and GF527A (Required by ASD/HA and Census Department)

The two labour return reports, GF527 and GF527A, are required to submit to ASD/HA and the Census Department. The user can prepare the two reports and export them as Excel files in order to submit to the departments.



Microsoft Excel - GF527Report

File Edit View Insert Format Tools Data Window Help

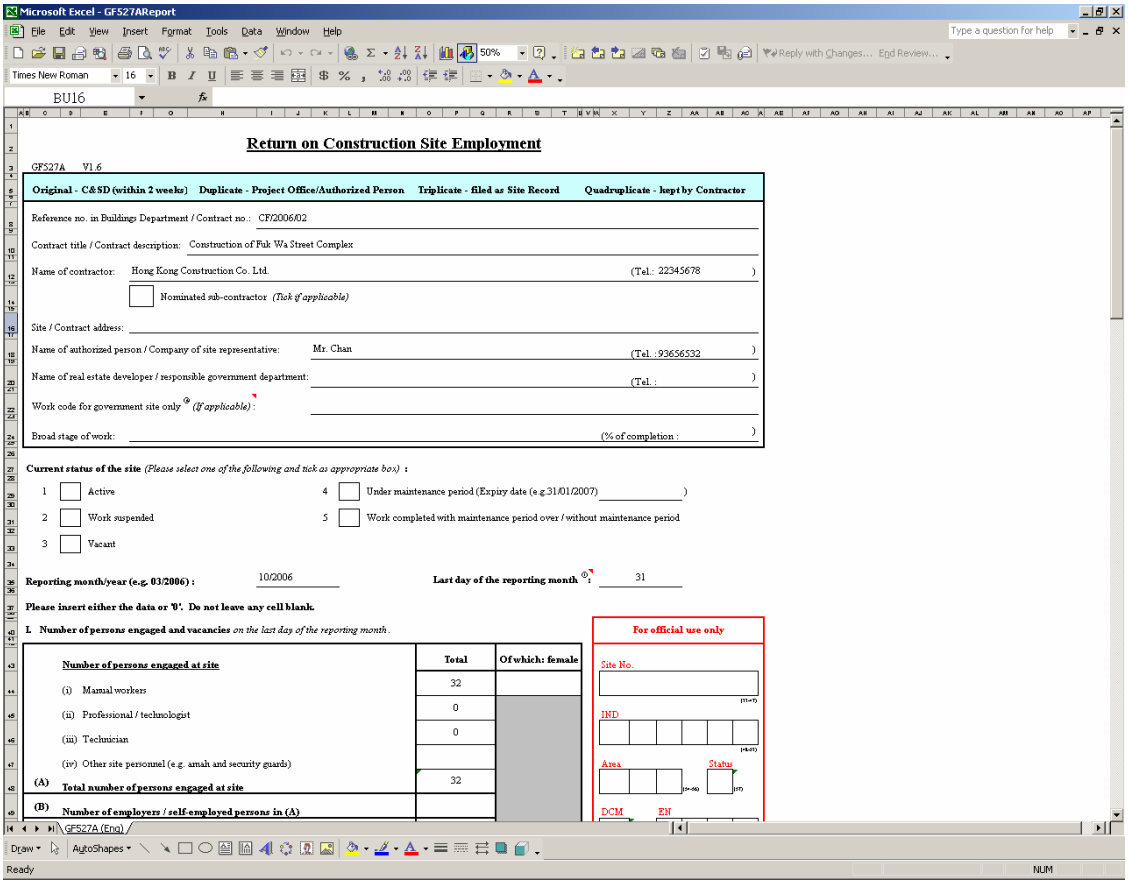
P19 0

	A	B	C	D	E	F	G	H	I	J	K	L
1	Original - to C&SD	Triplicate - filed as Site Record		**Monthly Return of Site Labour Deployment a**								
2	Duplicate - to Project Office	Quadruplicate - kept by Contractor										
5	Dept/Div : _____/_____	Month/Year: 10 / 2006	Contract No. : Cf/2006/02						Contract Title : Construction c			
7	Item		Trade List [1]									
8	No.	Trade	Orig.	Rev.	1	2	3	4	5	6	7	8
9				(Code [2])								
10	1	Bar Bender & Fixer [or Steelbender] [5]	✓	C304	5	30	30	30	30	30	13	4
11	2	Concretor	✓	C309	2	21	21	21	21	21	18	2
12	3	Drainlayer	✓	C314	1	15	15	14	15	15	6	1
13	4	Plumber	✓	C338	2	29	29	29	29	29	12	1
14	5	Leveller	---	C323	0	14	14	14	14	14	8	0
15	6	Bamboo Scaffolder	✓	C303	1	13	12	13	13	13	4	0
16	7	Carpenter & Joiner [3]	✓	---	(No. of workers/total man-day							
17	8	Carpenter (Formwork)	---	C307	11	56	56	56	56	56	30	9
18	9	Joiner	---	C322	1	13	13	13	13	13	7	2
19	10	Plant & Equipment Operator (Load Shifting) [or Plant Operator (exc. driver, bulldozer driver, etc.)] [5]	✓	C333	0	9	9	8	9	9	5	0
20	11	Truck Driver	✓	C349	0	6	6	6	6	6	2	0
21	12	Rock-Breaking Driller [or Pneumatic Driller] [6]	✓	C339	0	10	10	10	10	10	7	0
22	13	Blacksmith [3]	✓	---	(No. of workers/total man-days							
23	14	General Welder	---	C318	22	84	81	85	85	82	50	22
24	15	Metal Worker	---	C328	20	90	91	89	91	91	43	18
25	16	Glazier	✓	C319	12	45	43	45	45	44	28	11
26	17	Excavator (male)	✓									
27	18	Excavator (female)	✓									

GF527 (Rev. 1-2003)

Draw AutoShapes

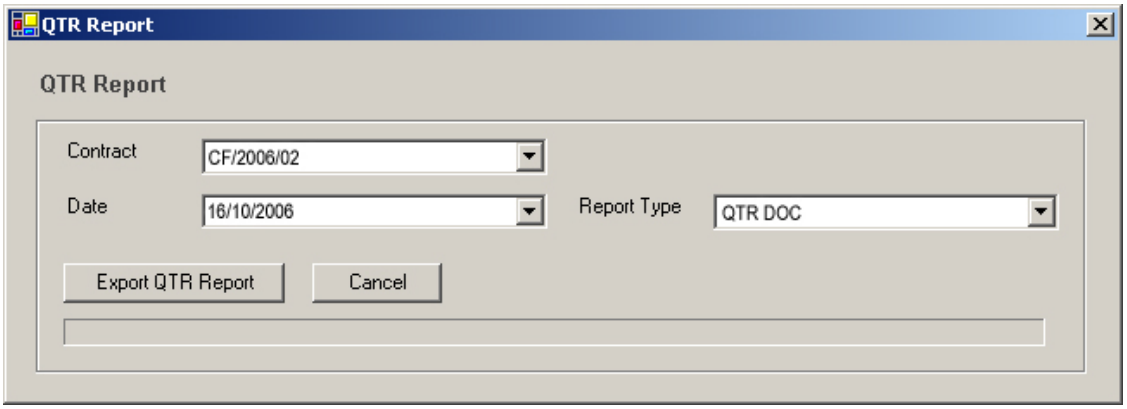
Ready NUM

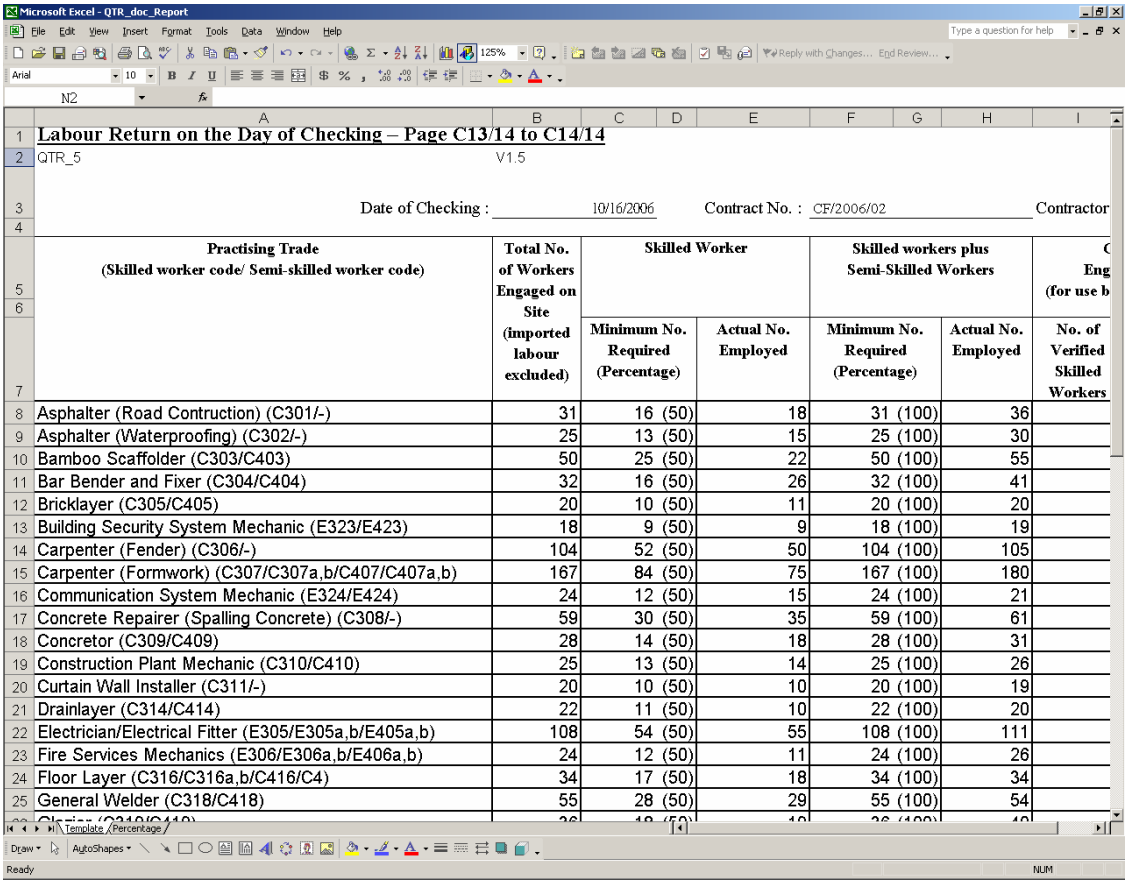


3. Quality Tradesman Reports (QTR) (Required by ASD/HA)

VHSiS is able to generate the following QTR for submission to ASD/HA.

- Labour Return on the Day of Checking
- Verification of Employment of Skilled Workers (Building and Civil Engineering Trades)
- Verification of Employment of Skilled Workers (Electrical and Mechanical Trades)
- Verification of Employment of Semi-Skilled Workers (Building and Civil Engineering Trades)
- Verification of Employment of Semi-Skilled Workers (Electrical and Mechanical Trades)





Microsoft Excel - QTR_doc_Report

Labour Return on the Day of Checking – Page C13/14 to C14/14

QTR_5 V1.5

Date of Checking : 10/16/2006 Contract No. : CF/2006/02 Contractor

Practising Trade (Skilled worker code/ Semi-skilled worker code)	Total No. of Workers Engaged on Site (imported labour excluded)	Skilled Worker		Skilled workers plus Semi-Skilled Workers		Eng (for use b
		Minimum No. Required (Percentage)	Actual No. Employed	Minimum No. Required (Percentage)	Actual No. Employed	No. of Verified Skilled Workers
Asphalter (Road Contruction) (C301/-)	31	16 (50)	18	31 (100)	36	
Asphalter (Waterproofing) (C302/-)	25	13 (50)	15	25 (100)	30	
Bamboo Scaffolder (C303/C403)	50	25 (50)	22	50 (100)	55	
Bar Bender and Fixer (C304/C404)	32	16 (50)	26	32 (100)	41	
Bricklayer (C305/C405)	20	10 (50)	11	20 (100)	20	
Building Security System Mechanic (E323/E423)	18	9 (50)	9	18 (100)	19	
Carpenter (Fender) (C306/-)	104	52 (50)	50	104 (100)	105	
Carpenter (Formwork) (C307/C307a,b/C407/C407a,b)	167	84 (50)	75	167 (100)	180	
Communication System Mechanic (E324/E424)	24	12 (50)	15	24 (100)	21	
Concrete Repairer (Spalling Concrete) (C308/-)	59	30 (50)	35	59 (100)	61	
Concretor (C309/C409)	28	14 (50)	18	28 (100)	31	
Construction Plant Mechanic (C310/C410)	25	13 (50)	14	25 (100)	26	
Curtain Wall Installer (C311/-)	20	10 (50)	10	20 (100)	19	
Drainlayer (C314/C414)	22	11 (50)	10	22 (100)	20	
Electrician/Electrical Fitter (E305/E305a,b/E405a,b)	108	54 (50)	55	108 (100)	111	
Fire Services Mechanics (E306/E306a,b/E406a,b)	24	12 (50)	11	24 (100)	26	
Floor Layer (C316/C316a,b/C416/C4)	34	17 (50)	18	34 (100)	34	
General Welder (C318/C418)	55	28 (50)	29	55 (100)	54	

Template / Percentage /

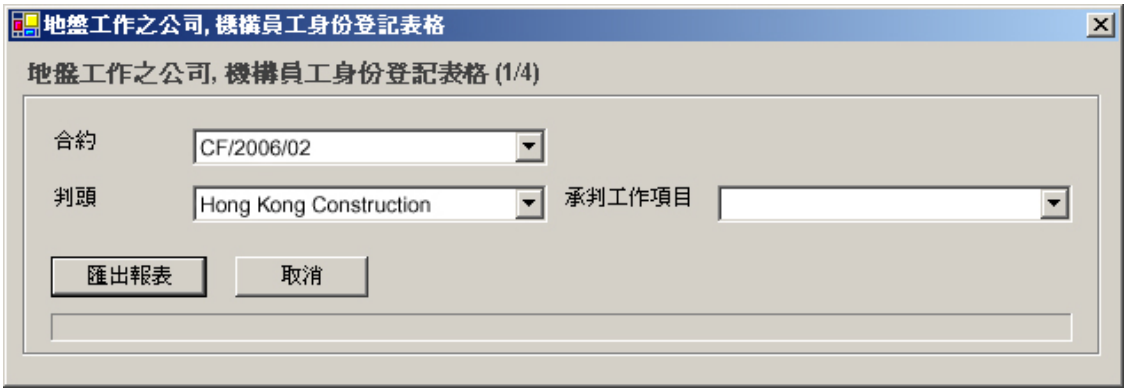
Draw AutoShapes

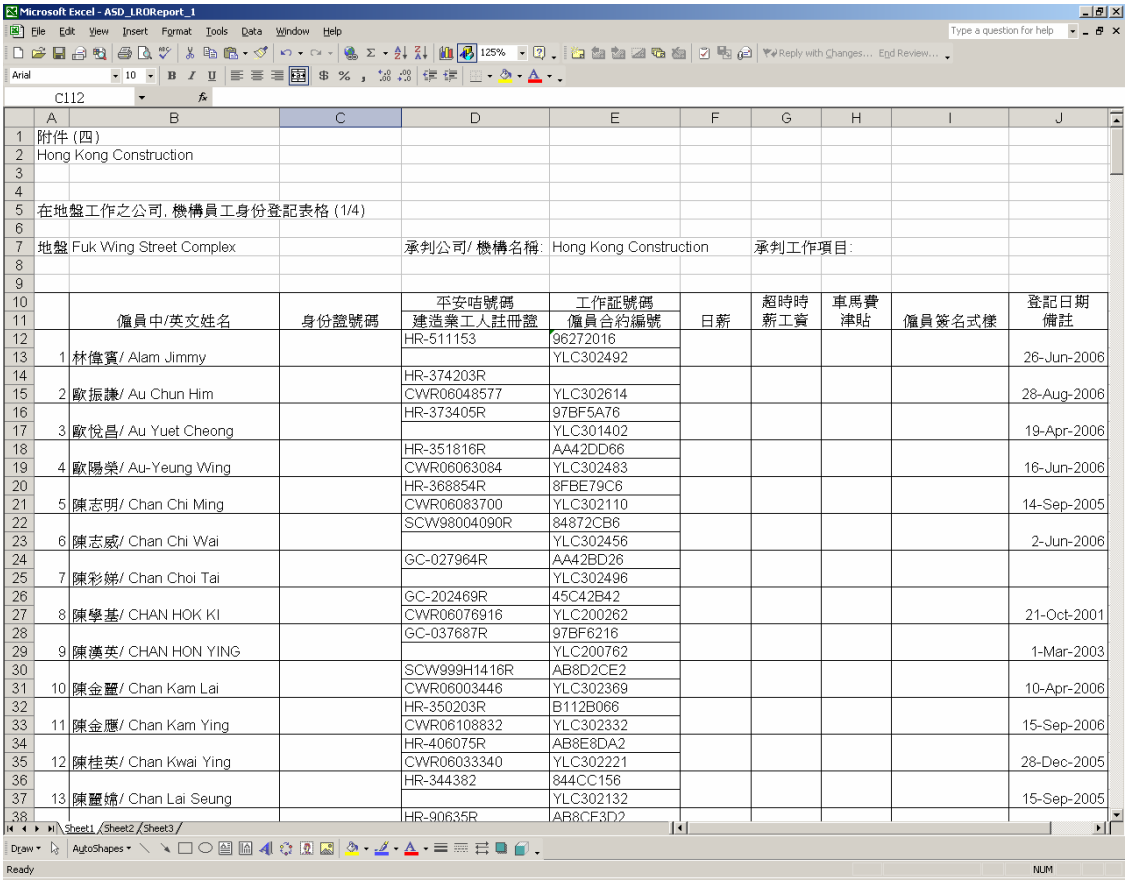
Ready NUM

4. Labour Relationship Officer (LRO) Reports (Required by ASD/HA)

VHSiS can generate the following types of LRO Reports for the user to submit to ASD/HA.

- Schedule of Wages
- Acknowledgement of receipts of payment
- Sub-Contractor Management Plan (SMP)
- Register of Worker's Employment Contracts
- Register of issued Smart Card (ACRS)
- Employment Contract and Worker's Signature Sample





Microsoft Excel - ASD_LROReport_1

附件 (四)

Hong Kong Construction

在地盤工作之公司, 機構員工身份登記表格 (1/4)

地盤 Fuk Wing Street Complex　　承判公司/ 機構名稱: Hong Kong Construction　　承判工作項目:

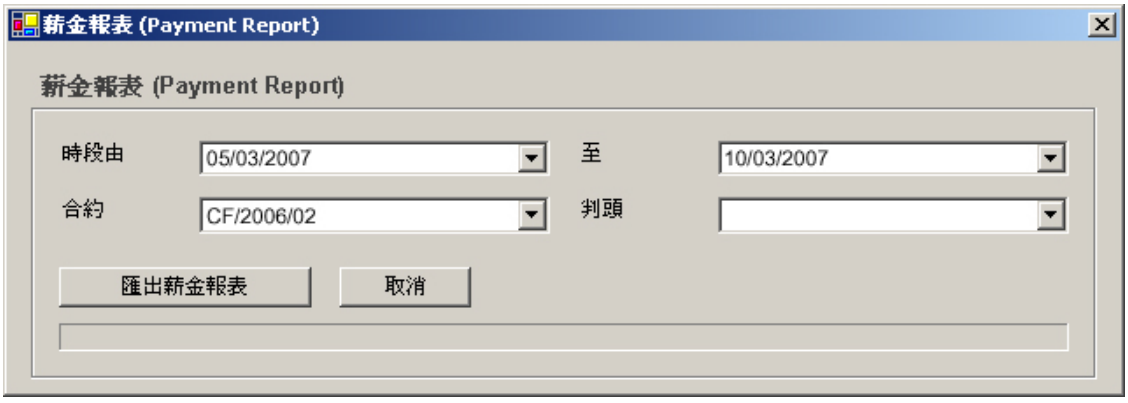
	僱員中/英文姓名	身份證號碼	平安咭號碼 建造業工人註冊證	工作証號碼 僱員合約編號	日薪	超時時 薪工資	車馬費 津貼	僱員簽名式樣	登記日期 備註
1	林偉賓/ Alam Jimmy		HR-511153	96272016					
				YLC302492					26-Jun-2006
2	歐振謙/ Au Chun Him		HR-374203R						
			CWR06048577	YLC302614					28-Aug-2006
3	歐悅昌/ Au Yuet Cheong		HR-373405R	97BF5A76					
				YLC301402					19-Apr-2006
4	歐陽榮/ Au-Yeung Wing		HR-351816R	AA42DD66					
			CWR06063084	YLC302483					16-Jun-2006
5	陳志明/ Chan Chi Ming		HR-368854R	8FBE79C6					
			CWR06083700	YLC302110					14-Sep-2005
6	陳志威/ Chan Chi Wai		SCW98004090R	84872CB6					
				YLC302456					2-Jun-2006
7	陳彩娣/ Chan Choi Tai		GC-027964R	AA42BD26					
				YLC302496					
8	陳學基/ CHAN HOK KI		GC-202469R	45C42B42					
			CWR06076916	YLC200262					21-Oct-2001
9	陳漢英/ CHAN HON YING		GC-037687R	97BF6216					
				YLC200762					1-Mar-2003
10	陳金麗/ Chan Kam Lai		SCW999H1416R	AB8D2CE2					
			CWR06003446	YLC302369					10-Apr-2006
11	陳金應/ Chan Kam Ying		HR-350203R	B112B066					
			CWR06108832	YLC302332					15-Sep-2006
12	陳桂英/ Chan Kwai Ying		HR-406075R	AB8E8DA2					
			CWR06033340	YLC302221					28-Dec-2005
13	陳麗嫦/ Chan Lai Seung		HR-344382	844CC156					
				YLC302132					15-Sep-2005
			HR-90635R	AB8CE3D2					

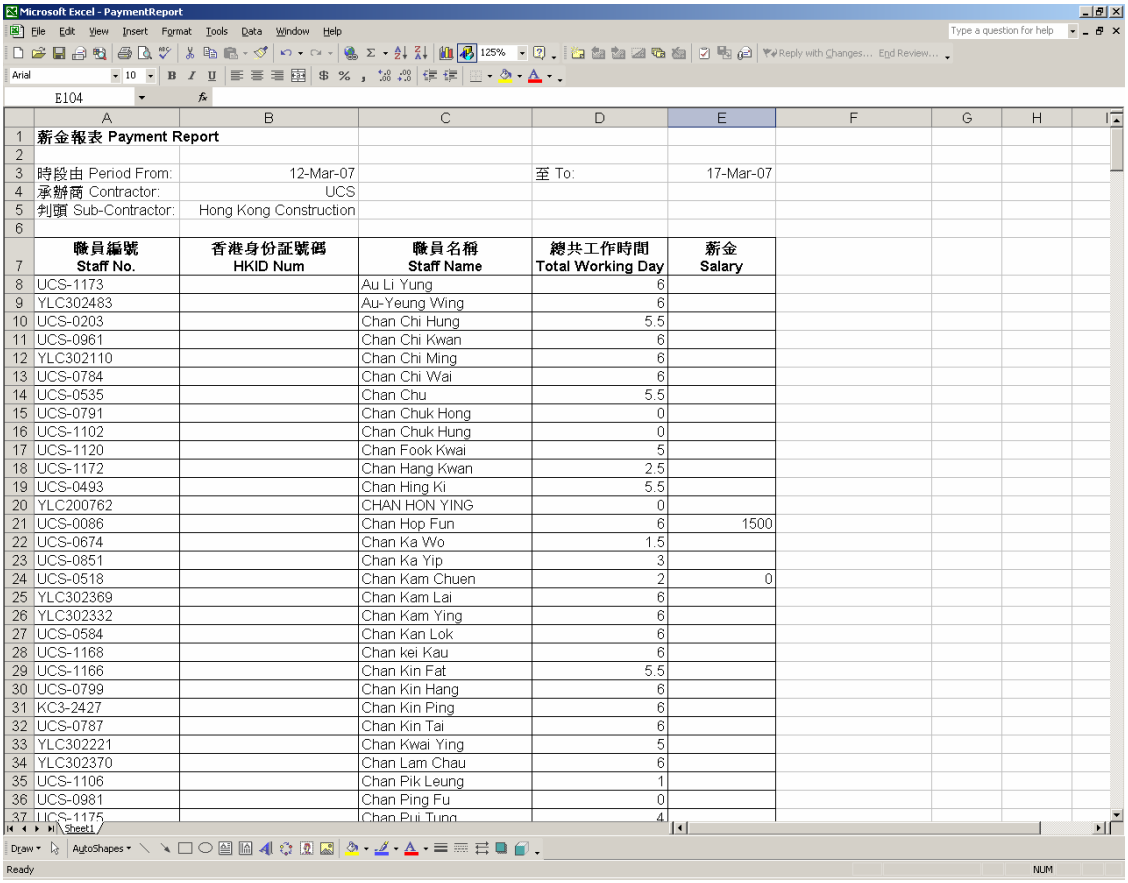
Sheet1 / Sheet2 / Sheet3

Ready　　NUM

5. Sub-contractor Payment Record

The user can prepare the Sub-contractors Payment Record with normal and OT wages, together with MPF calculation, in VHSiS.





Microsoft Excel - PaymentReport

	A	B	C	D	E
1	薪金報表 Payment Report				
2					
3	時段由 Period From:	12-Mar-07		至 To:	17-Mar-07
4	承辦商 Contractor:	UCS			
5	判頭 Sub-Contractor:	Hong Kong Construction			
6					
7	職員編號 Staff No.	香港身份証號碼 HKID Num	職員名稱 Staff Name	總共工作時間 Total Working Day	薪金 Salary
8	UCS-1173		Au Li Yung	6	
9	YLC302483		Au-Yeung Wing	6	
10	UCS-0203		Chan Chi Hung	5.5	
11	UCS-0961		Chan Chi Kwan	6	
12	YLC302110		Chan Chi Ming	6	
13	UCS-0784		Chan Chi Wai	6	
14	UCS-0535		Chan Chu	5.5	
15	UCS-0791		Chan Chuk Hong	0	
16	UCS-1102		Chan Chuk Hung	0	
17	UCS-1120		Chan Fook Kwai	5	
18	UCS-1172		Chan Hang Kwan	2.5	
19	UCS-0493		Chan Hing Ki	5.5	
20	YLC200762		CHAN HON YING	0	
21	UCS-0086		Chan Hop Fun	6	1500
22	UCS-0674		Chan Ka Wo	1.5	
23	UCS-0851		Chan Ka Yip	3	
24	UCS-0518		Chan Kam Chuen	2	0
25	YLC302369		Chan Kam Lai	6	
26	YLC302332		Chan Kam Ying	6	
27	UCS-0584		Chan Kan Lok	6	
28	UCS-1168		Chan kei Kau	6	
29	UCS-1166		Chan Kin Fat	5.5	
30	UCS-0799		Chan Kin Hang	6	
31	KC3-2427		Chan Kin Ping	6	
32	UCS-0787		Chan Kin Tai	6	
33	YLC302221		Chan Kwai Ying	5	
34	YLC302370		Chan Lam Chau	6	
35	UCS-1106		Chan Pik Leung	1	
36	UCS-0981		Chan Ping Fu	0	
37	UCS-1175		Chan Pui Tung	4	

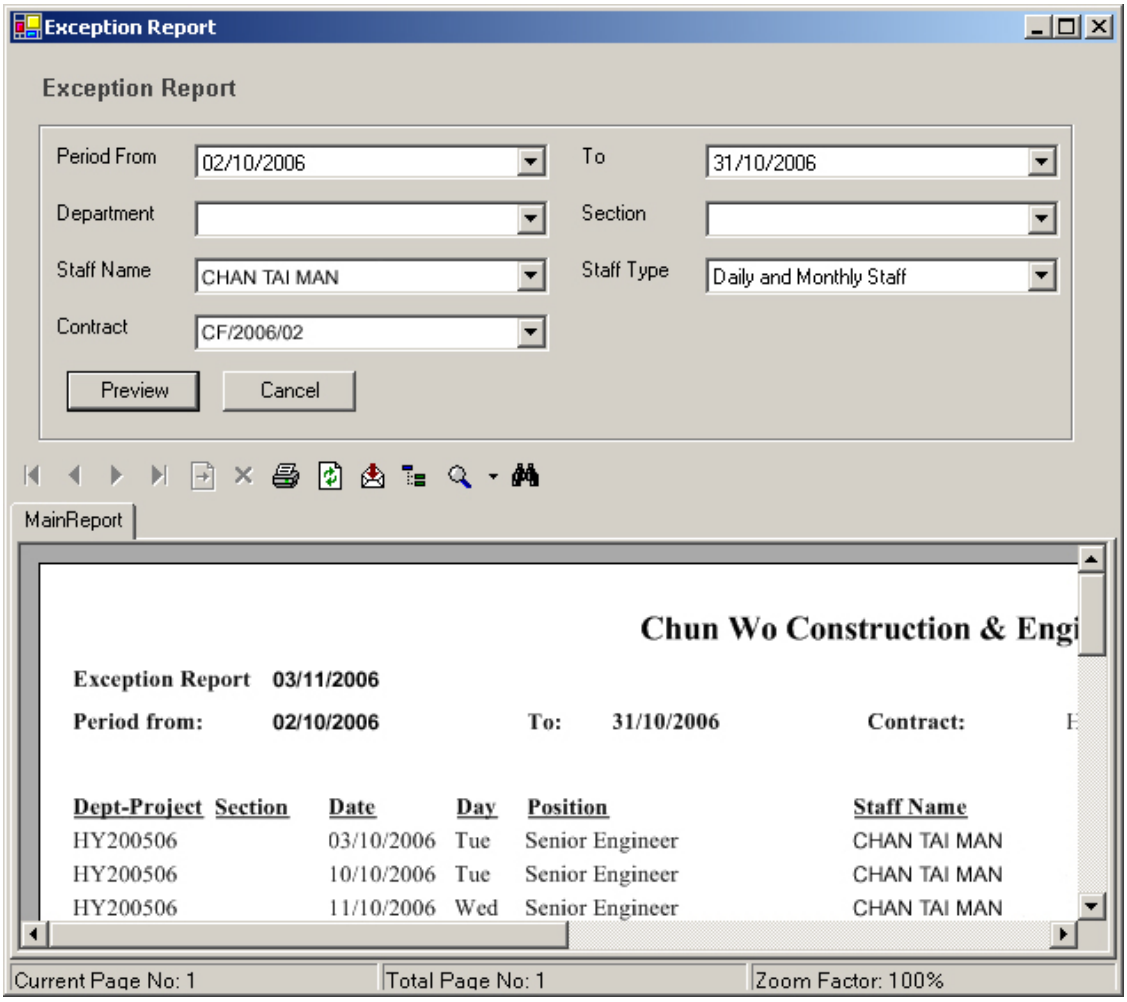
Sheet1

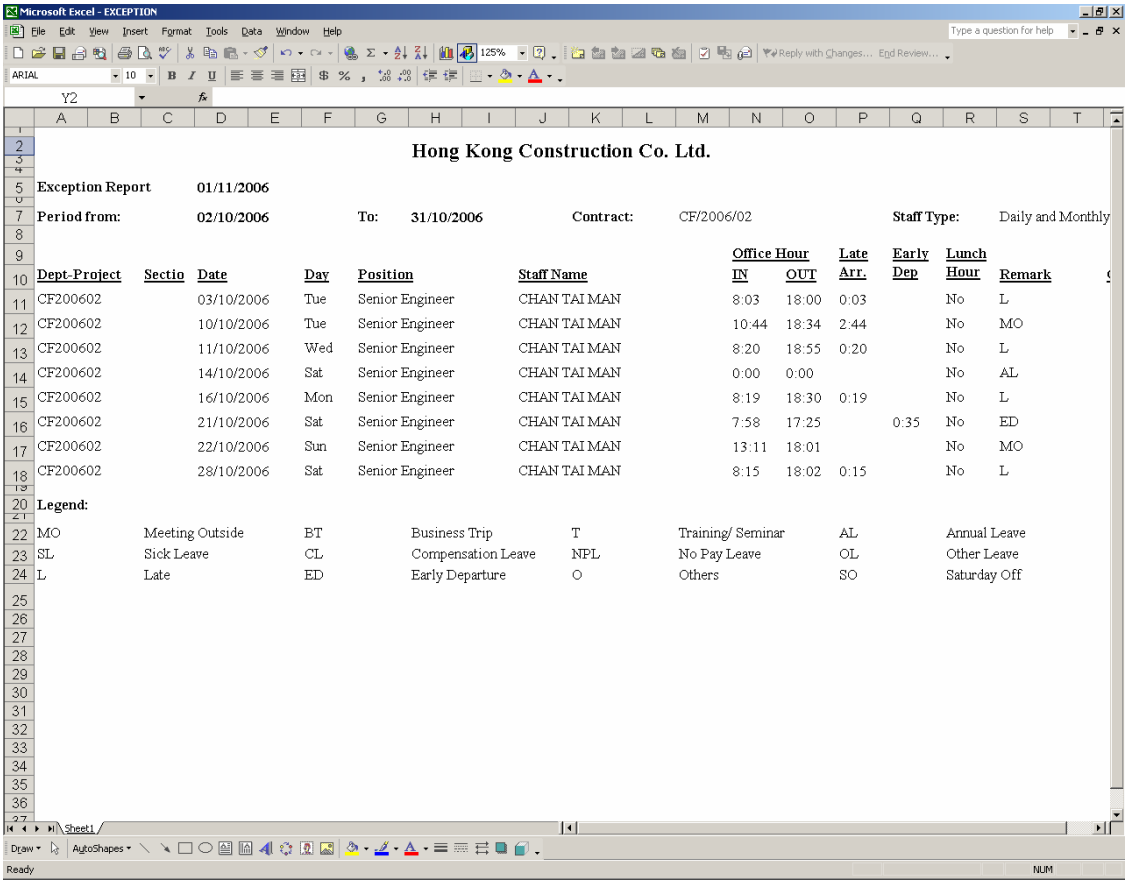
Ready

NUM

6. Exception Report

With VHSiS, the user can select specific workers of a certain project in a certain period of time to generate an Exception Report. Exceptional conditions such as absence, late arrival, early departure, etc. will be clearly shown in the report. The report can also be exported as an Excel file.


Exception Report
Exception Report
Period From
02/10/2006
To
31/10/2006
Department
Section
Staff Name
CHAN TAI MAN
Staff Type
Daily and Monthly Staff
Contract
CF/2006/02
Preview
Cancel
MainReport
Chun Wo Construction & Engi
Exception Report 03/11/2006
Period from: 02/10/2006 To: 31/10/2006 Contract:
Dept-Project Section Date Day Position Staff Name
HY200506 03/10/2006 Tue Senior Engineer CHAN TAI MAN
HY200506 10/10/2006 Tue Senior Engineer CHAN TAI MAN
HY200506 11/10/2006 Wed Senior Engineer CHAN TAI MAN
Current Page No: 1
Total Page No: 1
Zoom Factor: 100%



Hong Kong Construction Co. Ltd.

Exception Report 01/11/2006

Period from: 02/10/2006 To: 31/10/2006 Contract: CF/2006/02 Staff Type: Daily and Monthly

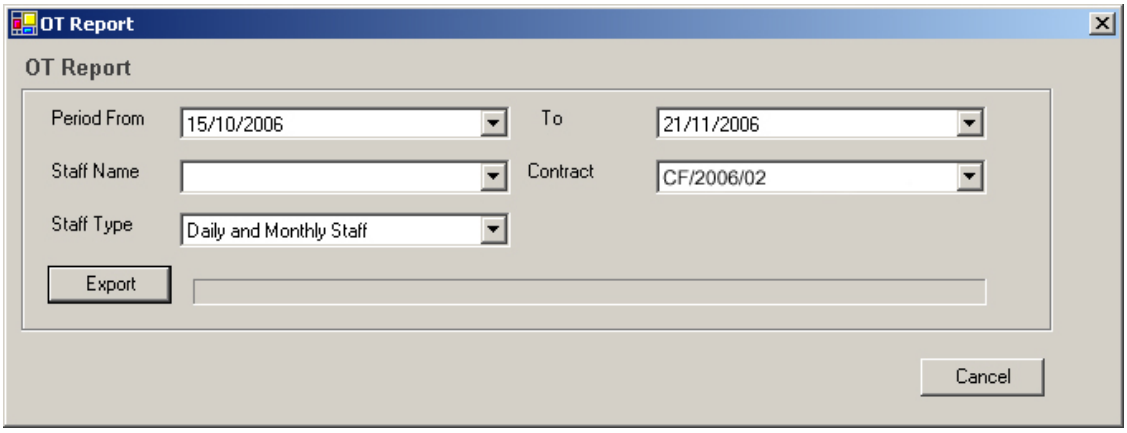
Dept-Project	Sectio	Date	Day	Position	Staff Name	Office Hour IN	Office Hour OUT	Late Arr.	Early Dep	Lunch Hour	Remark
CF200602		03/10/2006	Tue	Senior Engineer	CHAN TAI MAN	8:03	18:00	0:03		No	L
CF200602		10/10/2006	Tue	Senior Engineer	CHAN TAI MAN	10:44	18:34	2:44		No	MO
CF200602		11/10/2006	Wed	Senior Engineer	CHAN TAI MAN	8:20	18:55	0:20		No	L
CF200602		14/10/2006	Sat	Senior Engineer	CHAN TAI MAN	0:00	0:00			No	AL
CF200602		16/10/2006	Mon	Senior Engineer	CHAN TAI MAN	8:19	18:30	0:19		No	L
CF200602		21/10/2006	Sat	Senior Engineer	CHAN TAI MAN	7:58	17:25		0:35	No	ED
CF200602		22/10/2006	Sun	Senior Engineer	CHAN TAI MAN	13:11	18:01			No	MO
CF200602		28/10/2006	Sat	Senior Engineer	CHAN TAI MAN	8:15	18:02	0:15		No	L

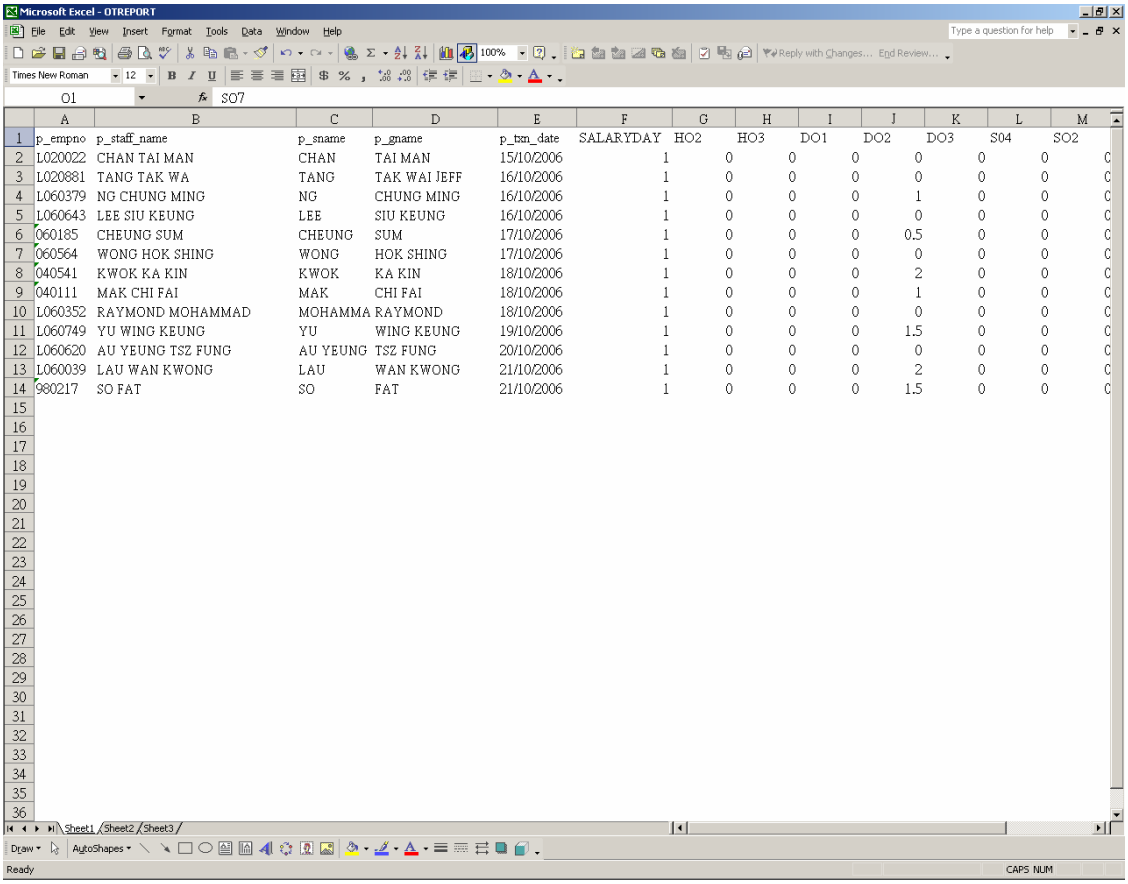
Legend:

MO	Meeting Outside	BT	Business Trip	T	Training/ Seminar	AL	Annual Leave
SL	Sick Leave	CL	Compensation Leave	NPL	No Pay Leave	OL	Other Leave
L	Late	ED	Early Departure	O	Others	SO	Saturday Off

7. OT Report

For OT wage calculation, VHSiS can help prepare an OT Report of specific workers in a certain period. All OT information of the staff will be listed in the OT Report.

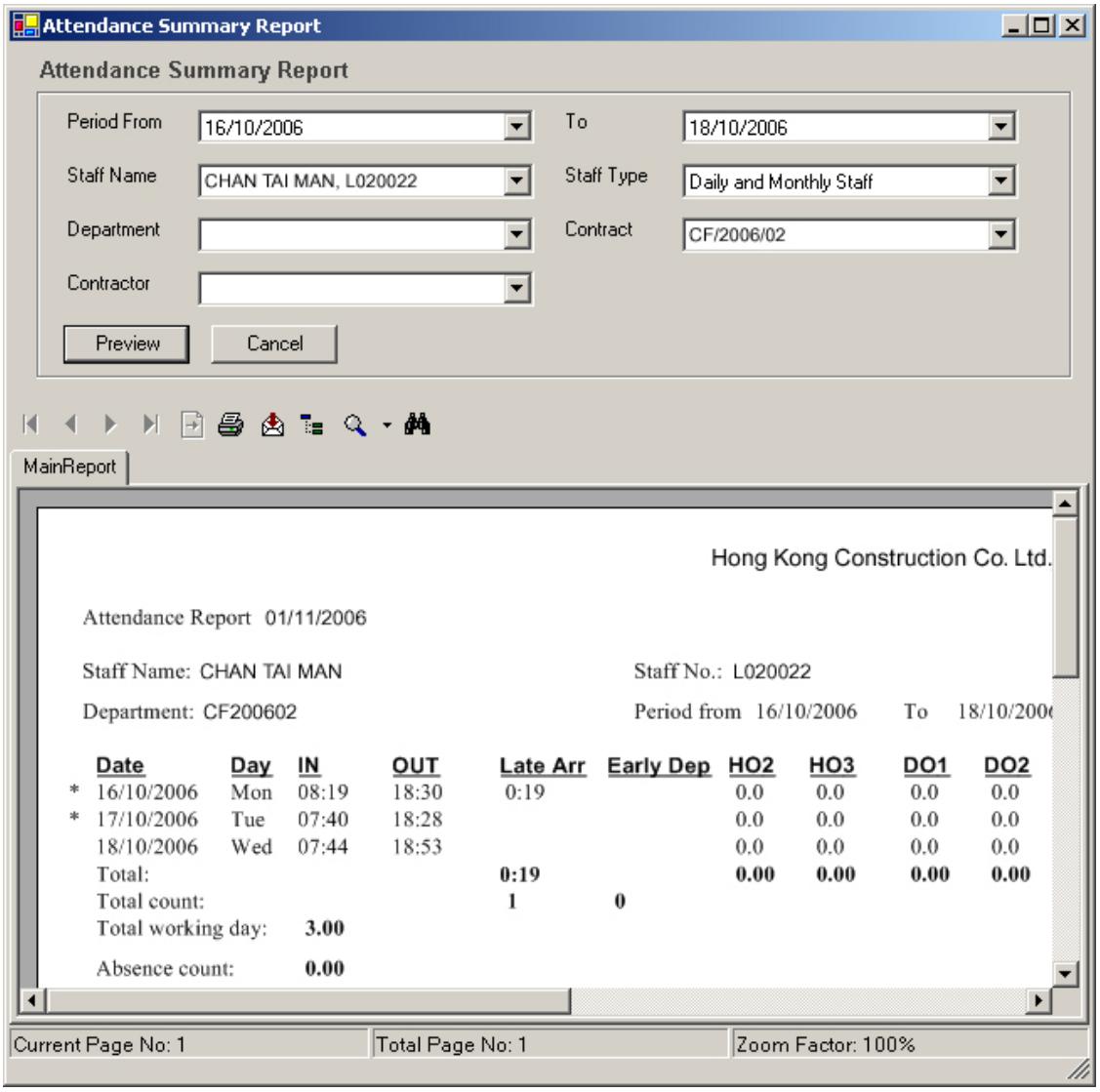


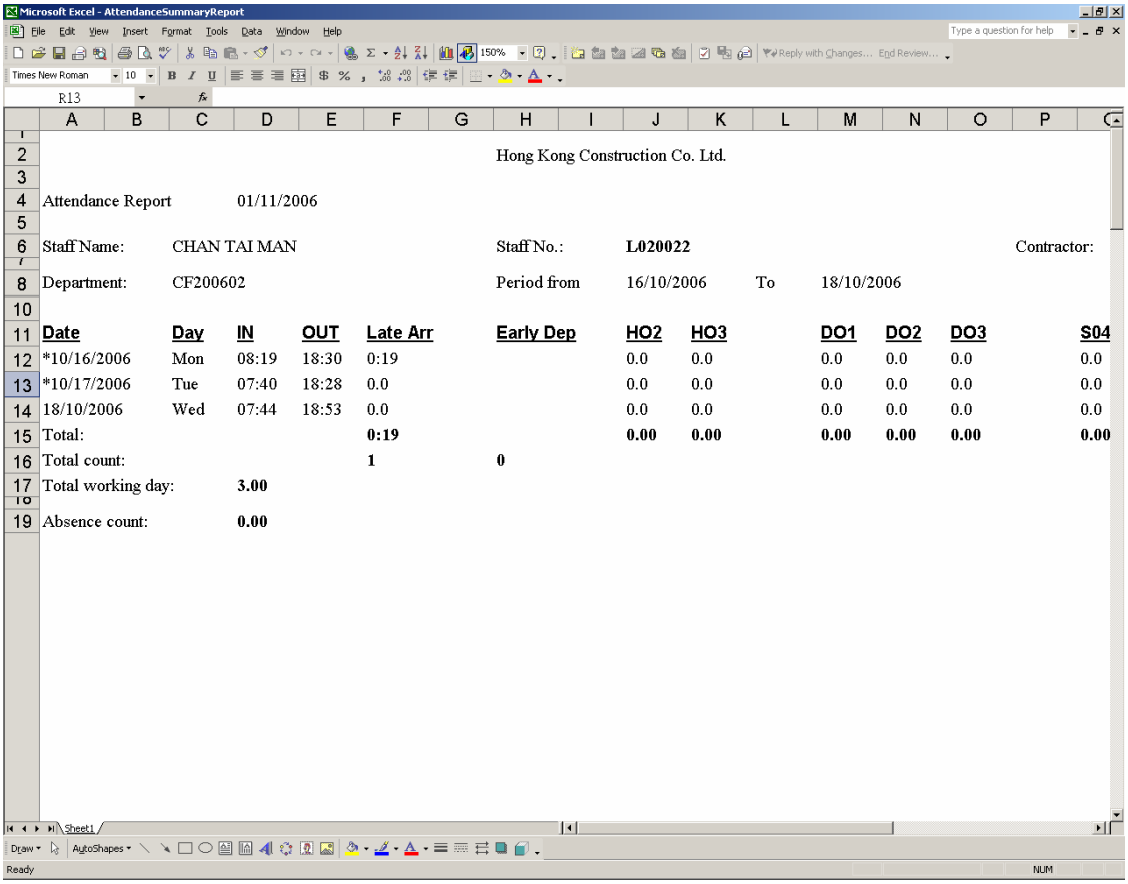


	A	B	C	D	E	F	G	H	I	J	K	L	M
1	p_empno	p_staff_name	p_sname	p_gname	p_txn_date	SALARYDAY	HO2	HO3	DO1	DO2	DO3	S04	SO2
2	L020022	CHAN TAI MAN	CHAN	TAI MAN	15/10/2006	1	0	0	0	0	0	0	0
3	L020881	TANG TAK WA	TANG	TAK WAI JEFF	16/10/2006	1	0	0	0	0	0	0	0
4	L060379	NG CHUNG MING	NG	CHUNG MING	16/10/2006	1	0	0	0	1	0	0	0
5	L060643	LEE SIU KEUNG	LEE	SIU KEUNG	16/10/2006	1	0	0	0	0	0	0	0
6	060185	CHEUNG SUM	CHEUNG	SUM	17/10/2006	1	0	0	0	0.5	0	0	0
7	060564	WONG HOK SHING	WONG	HOK SHING	17/10/2006	1	0	0	0	0	0	0	0
8	040541	KWOK KA KIN	KWOK	KA KIN	18/10/2006	1	0	0	0	2	0	0	0
9	040111	MAK CHI FAI	MAK	CHI FAI	18/10/2006	1	0	0	0	1	0	0	0
10	L060352	RAYMOND MOHAMMAD	MOHAMMA	RAYMOND	18/10/2006	1	0	0	0	0	0	0	0
11	L060749	YU WING KEUNG	YU	WING KEUNG	19/10/2006	1	0	0	0	1.5	0	0	0
12	L060620	AU YEUNG TSZ FUNG	AU YEUNG	TSZ FUNG	20/10/2006	1	0	0	0	0	0	0	0
13	L060039	LAU WAN KWONG	LAU	WAN KWONG	21/10/2006	1	0	0	0	2	0	0	0
14	980217	SO FAT	SO	FAT	21/10/2006	1	0	0	0	1.5	0	0	0

8. Attendance Summary Report

The Attendance Summary Report, which can be generated in VHSiS, shows the summary of specific workers' attendance of a certain period for wage calculation and management purposes.


Attendance Summary Report
Attendance Summary Report
Period From
16/10/2006
To
18/10/2006
Staff Name
CHAN TAI MAN, L020022
Staff Type
Daily and Monthly Staff
Department
Contract
CF/2006/02
Contractor
Preview
Cancel
MainReport
Hong Kong Construction Co. Ltd.
Attendance Report 01/11/2006
Staff Name: CHAN TAI MAN
Staff No.: L020022
Department: CF200602
Period from 16/10/2006 To 18/10/200
Date Day IN OUT Late Arr Early Dep HO2 HO3 DO1 DO2
* 16/10/2006 Mon 08:19 18:30 0:19 0.0 0.0 0.0 0.0
* 17/10/2006 Tue 07:40 18:28 0.0 0.0 0.0 0.0
18/10/2006 Wed 07:44 18:53 0.0 0.0 0.0 0.0
Total: 0:19 0.00 0.00 0.00 0.00
Total count: 1 0
Total working day: 3.00
Absence count: 0.00
Current Page No: 1
Total Page No: 1
Zoom Factor: 100%



Hong Kong Construction Co. Ltd.

Attendance Report 01/11/2006

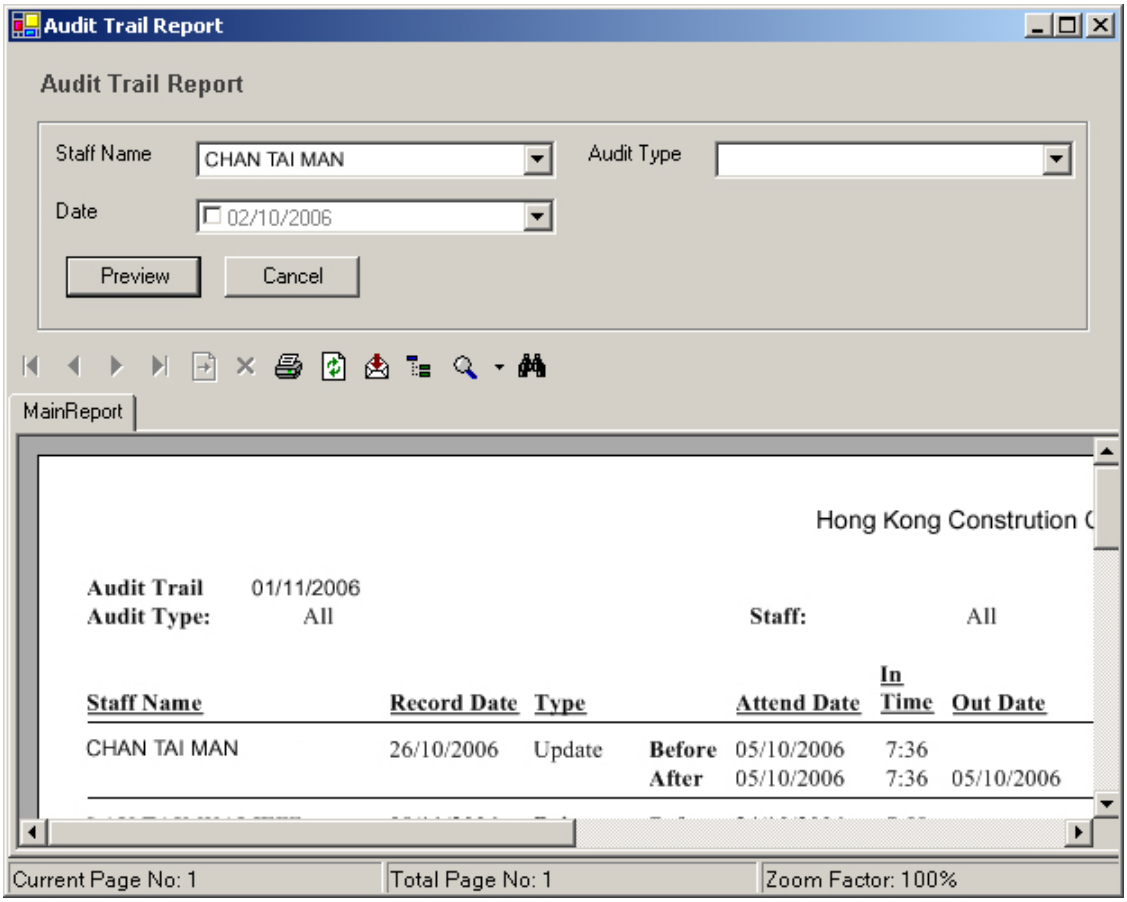
Staff Name: CHAN TAI MAN Staff No.: **L020022** Contractor:

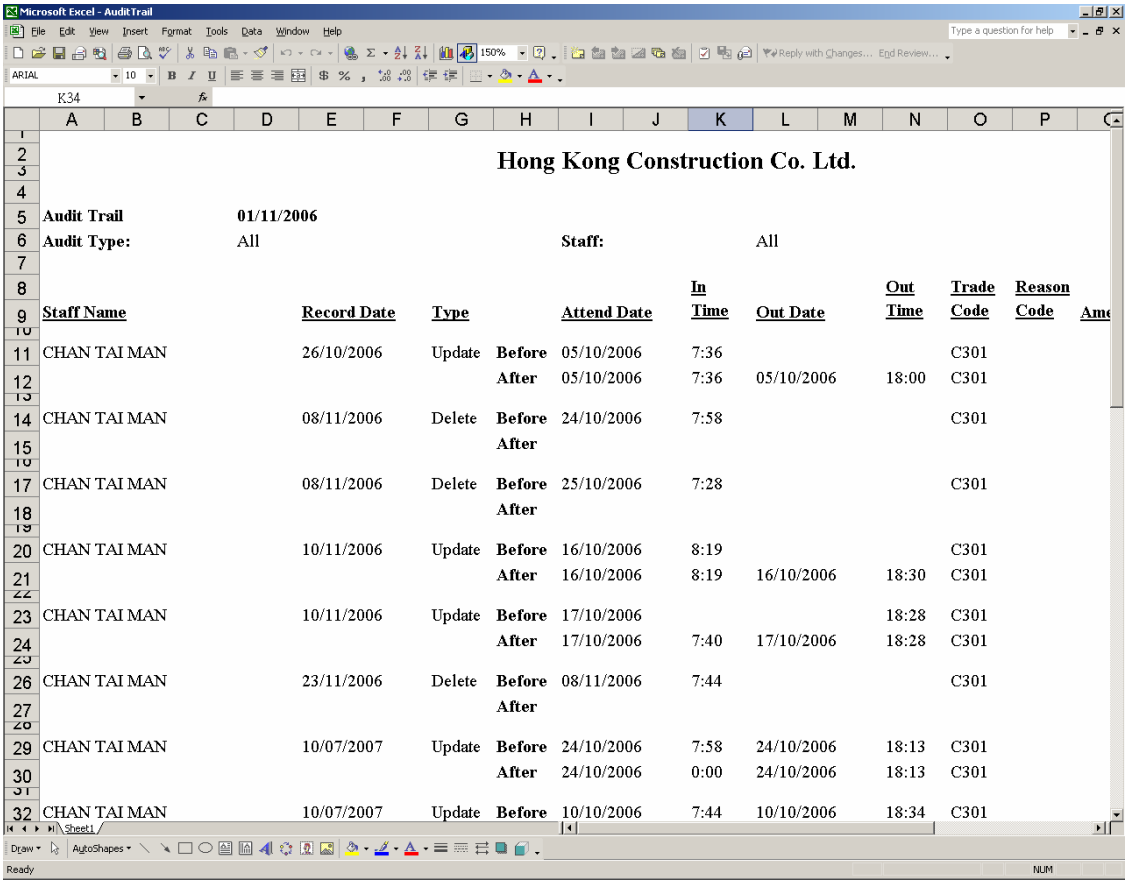
Department: CF200602 Period from 16/10/2006 To 18/10/2006

Date	Day	IN	OUT	Late Arr	Early Dep	HO2	HO3	DO1	DO2	DO3	S04
*10/16/2006	Mon	08:19	18:30	0:19		0.0	0.0	0.0	0.0	0.0	0.0
*10/17/2006	Tue	07:40	18:28	0.0		0.0	0.0	0.0	0.0	0.0	0.0
18/10/2006	Wed	07:44	18:53	0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total:				**0:19**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total count:				**1**	**0**						
Total working day:		**3.00**									
Absence count:		**0.00**									

9. Audit Trail Report

For management purposes, VHSiS can generate an Audit Trail Report to retrieve the in/out records that have been modified (i.e. add, update, delete) of a specific worker or a specific period.


Audit Trail Report
Audit Trail Report
Staff Name
CHAN TAI MAN
Audit Type
Date
02/10/2006
Preview
Cancel
MainReport
Hong Kong Constrution C
Audit Trail 01/11/2006
Audit Type: All
Staff: All
Staff Name
Record Date
Type
Attend Date
In Time
Out Date
CHAN TAI MAN
26/10/2006
Update
Before 05/10/2006 7:36
After 05/10/2006 7:36 05/10/2006
Current Page No: 1
Total Page No: 1
Zoom Factor: 100%


Microsoft Excel - AuditTrail
File Edit View Insert Format Tools Data Window Help
Type a question for help
ARIAL 10
K34
Hong Kong Construction Co. Ltd.
Audit Trail 01/11/2006
Audit Type: All
Staff: All
Staff Name | Record Date | Type | | Attend Date | In Time | Out Date | Out Time | Trade Code | Reason Code | Ame
CHAN TAI MAN | 26/10/2006 | Update | Before | 05/10/2006 | 7:36 | | | C301
After | 05/10/2006 | 7:36 | 05/10/2006 | 18:00 | C301
CHAN TAI MAN | 08/11/2006 | Delete | Before | 24/10/2006 | 7:58 | | | C301
After
CHAN TAI MAN | 08/11/2006 | Delete | Before | 25/10/2006 | 7:28 | | | C301
After
CHAN TAI MAN | 10/11/2006 | Update | Before | 16/10/2006 | 8:19 | | | C301
After | 16/10/2006 | 8:19 | 16/10/2006 | 18:30 | C301
CHAN TAI MAN | 10/11/2006 | Update | Before | 17/10/2006 | | | 18:28 | C301
After | 17/10/2006 | 7:40 | 17/10/2006 | 18:28 | C301
CHAN TAI MAN | 23/11/2006 | Delete | Before | 08/11/2006 | 7:44 | | | C301
After
CHAN TAI MAN | 10/07/2007 | Update | Before | 24/10/2006 | 7:58 | 24/10/2006 | 18:13 | C301
After | 24/10/2006 | 0:00 | 24/10/2006 | 18:13 | C301
CHAN TAI MAN | 10/07/2007 | Update | Before | 10/10/2006 | 7:44 | 10/10/2006 | 18:34 | C301
Sheet1
Draw AutoShapes
Ready
NUM

Appendix 1: Related Hardware Products

Biometric Authentication – Handkey II

- Utilizing field-proven hand geometry biometric technology that captures a 3D image of the hand
- Verifying a person's identity with unparalleled accuracy
- Fast and effective way of controlling the access or monitoring the movements of people in construction sites

MA-RM PDA Smart Card Reader

Reading Range	Typically 3cm
Output/Interface	9600 bps baud rate/CF Card Type II
Card Type	ISO 14443A, Mifare MF1
Operating System	Microsoft® Windows® CE operating system for PocketPC 2000/2002, Windows® CE 4.0

Offline Access Control System

- Off-line Storage Smart Card Reader for Fitting-Out Project
- Support up to 5,000 Users
- Support up to 10,000 Transactions (512 Mb Memory)
- With USB memory stick interface and USB memory stick data collector