Beyond Biometrics

FingerTec in Retrospect

Transformation Process Continues

FingerTec Around the World
Secure Premises & Attendance with FingerTec Solutions

Cloud Computing is Here to Stay
TimeTec Cloud Taps on Time & Attendance

NFC, the Next Milestone in FingerTec Solutions

Transformation Process Continues….

This is the fourth consecutive year we published Beyond Biometrics, to review what we have done for the past one year, and also to envision our next step in the coming year. If I want to sum up and link the 2014 and 2015 with a simple phrase, it would be Transformation Process Continues….

Transformation always takes a gradual and long process to reach maturity. To materialize from transformation, it takes an even longer time. And we have to weigh in the risk factors, because the challenge is far too great.

For time and attendance industry, we have a clear vision to transform hardware-oriented sales to cloud model based on subscription, and even giving out biometric time clocks to customers for free. The three major challenges for us to achieve this objective are Cloud technology and Big Data, change of mindset for employees and resellers, and alteration in the business operation that surrounds cloud ecosystem.

For access control, upgrading our solutions to cater to an upscale and vertical market has become our utmost challenge for we have to rely vastly on technology to deliver. The involved technologies include Near Field Communication (NFC), proprietary card, Internet of Things (IoT), Big Data, Android platform, Smart Security, you name it. But we're relentless. We have completed many tasks in the past one year, and we will continue to tackle the rest in our to-do list, while perfecting the accomplished ones.

Along with the Transformation Plan, we have eventually incorporated the practice of user experience in our business operation, which we hope to deepen it into our blood, so that we can yield happy customers with every release of our products and services.

To achieve all these, not only that we aggressively recruiting top minds, we have also started to offer scholarships as a strategy to ensure constant and quality supply to our talent pool. And, you can always expect something interesting from us.

Teh Hon Seng | CEO of Timetec Computing Sdn Bhd
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2014
Milestones

2014 was a bittersweet year for Malaysia and the whole nation mourns. But the show must go on and for FingerTec, the year 2014 marked the transformation from a company that has been focusing on providing combined solutions for time attendance and door access security for a decade to providing dedicated solutions on each segment of the market. Ingress solution is taking FingerTec to another level in the security industry and TimeTec Cloud continues to be our main solution for the cloud business for advanced time attendance solutions. Let's recap what we have done in 2014.

In FingerTec Products We Trust
Warranty Period Extended to 36 Months

One of the main indicators of robust product is the length of the warranty period and FingerTec further strengthens its position in the market by offering 36 months warranty period from the previous 24 months at the beginning of 2014. All our customers and resellers around the globe opportunely welcomed the revised warranty period.

FingerTec Gets Bigger
R&D Team Moves To A New Hub
In July 2014, the growing research and development team of FingerTec made their way to occupy FingerTec's brand new office located in the hub of IT, Cyberjaya Malaysia. The newly renovated and refurbished Headquarters of FingerTec remains in Bandar Kinrara, Selangor, Malaysia.

Training Made Easy
FingerTec Offers Webinars
There's no excuse for not learning FingerTec the right way. FingerTec is offering webinar sessions online for all our customers and resellers. Book a seat, listen, learn and ask questions. It's not getting any simpler than learning from the comfort of your own space.

Get Organized
We are CMMI Certified
In our effort to stamp our brand as a renowned solution provider, CMMI certification is inevitable. FingerTec is Level 3 CMMI certified company and we will strive to offer continuous business improvement for the benefit of everyone involved.

Preparing for the Future
FingerTec Scholarship Program is in Full Force
FingerTec is offering Scholarship Program to Malaysian students pursuing first degree in Software Engineering in public or private local universities. This financial aid will help excellent and dedicated students to achieve their dreams and provide them with the opportunity to work with an international company.

FING⊛RTEC

YEARS
3
LIMITED WARRANTY
40 Months
for Resellers

Product Highlight

Ingress, Perfect Door Access Software
Gets even Better with Extensive Attendance Features

Ingress was designed exclusively for door access solutions but from the market feedback gathered, time attendance has become a considerable part of our business and we introduced comprehensive time attendance features in Ingress to cater to the market requirement.

TimeTec Cloud Floats A Little Higher
Adds Salesforce Integration for Added Convenience

TimeTec Cloud has been integrated with the world's famous customer relationship management system (CRM), Salesforce. com. Combining this world-class solution with TimeTec Cloud solution offers non other than convenience to millions of users worldwide.

Improved Core Board on Hardware
Witness the New Look on FingerTec

With the new and improved core board comes the fresh facelift of FingerTec's hardware interface. The program contemporary look excites the resellers and customers alike.

TimeTec Cloud Loyalty Program
Subscribe and Get FREE Time Clocks

Now you can get free FingerTec biometrics time when you subscribe to a minimum of 3 blocks for 12 months of TimeTec Cloud user licenses from us! The clock will be shipped within 2 working days to your location for free once the subscription is confirmed.

ingress
Advanced Access Control System

2015 Product SneakPeek

FingerTec continues to strengthen the brand's positioning in access control industry with the development of compact access control system and proprietary RFID card in 2015. And this year will see additional modules attached to Ingress and TimeTec Cloud.

FingerTec RFID Cards Are Now Proprietry

Being Protective Is Never A Bad Thing

Proximity cards have always been the most basic and widely used physical credentials in worldwide access control industry. They are convenient to source from the market and the exterior of it can be made unique with printing and different shapes. These cards are inexpensive as compared to the other card types and the price is even lower purchased in bulk.

FingerTec Proprietary card contains 44-bit, where 42-bit carries 4 types of data, and 2-bits acts as a start and an end code. The different types of numeric codes carry specific information illustrated in the table below.

Type	Bit	Numeric code	Name
1	8-bit (2 – 9 bit)	0 to 255	Country Code/Reseller code
2	8-bit (10 – 17 bit)	0 to 255	Site code/company code
3	8-bit (18 – 25 bit)	0 to 255	Job Code
4	16-bit (26 – 41 bit)	0 – 65535	Card number

The combination of these 4 sets of number can derive millions of number without any repetition. Duplicating the number is impossible because different frequencies are being applied at the device, providing tighter security as compared to the regular proximity cards' verification process.

The Benefits of FingerTec Proprietary Card

1. Heightened security from card cloning activities
2. Instill customers' confidence knowing the cards are coming directly from the manufacturer
3. Priority is given to large customers by customizing card numbers via company code
4. Priority is given to resellers by customizing card numbers according to their unique code
5. Easy users management by referring to the Job Code
6. Easy access control management by using the Site Code

Visitor Management System Module
Tracking Visitors The Brilliant Way

The development of Visitor Management System (VMS) in Ingress started in 2014 and FingerTec plans to introduce this module to our worldwide customers in 2015. FingerTec Visitor Management System will be integrated with Ingress access control solution and basically this particular module serves to record, track and trace all visitors visiting a certain premise with such preciseness and all the available records will be stored in the server for audit and future.

The way VMS work is, during each visit, a visitor needs to present his / her identification to the receptionist or security guard who can access to the VMS. After matching with the appointments or the purpose of visit, the person in charge will then assign the access level and set the duration of stay, or accept the predefined access level and duration of stay by Ingress users.

With VMS, all visitors will be monitored closely with movements being displayed on the monitoring page and the records will be stored in Ingress software as transaction logs. Any misbehaviour of the visitors during the visit for example leaving without checking out, losing the visitor card etc will be kept as records under his/her profile.

The module interlinks with web platform to ease visitors to apply their visit. Visitors shall login to webpage to fill in information to book the date and time to pay visit. Security officers or receptionist shall consult the person in charge before granting access to visitors.

Guard Tour System Module
Tap and Tell The Guard's Whereabouts

Monitoring guard movement through checkpoints is a conventional method that has been used for many years. But, how about using a smartphone to do so and have the precise information sent to your server at all time with almost zero margin of error? -- That is what's being developed at FingerTec to be integrated with TimeTec Cloud application, Guard Tour System (GTS).

This Guard Tour System combines the use of NFC tag (Near Field Communication) as checkpoints and Android smartphones as its reporting device. With GTS, basically all guards on duty will have an Android smartphone installed with TimeTec Mobile app, which upon tapping at NFC tag at each checkpoint, will send the geolocation and the whereabouts of the guard in realtime.

The GTS will be added with more features including snapping photos during patrol and sending them to the server as record. In case of emergency, security guard can press the panic button from the apps to report his location for help.

Using GTS, the administrator can upload maps to TimeTec Cloud account and tag every checkpoint with unique NFC tag numbers. Administrators also can define the rules to control the duration taken to reach every checkpoint to make sure security guards carry out their duties accordingly. These rules then will process records and reports providing administrator to justify performance of every security guard.

NFC tag is common and easy to source. It comes in simple design, its maintenance free and it doesn't require any batteries. Most tag manufacturers have complied with IP 65 standard for outdoor usages. In case of failure, installer can simply remove the old tag and install a new one. Only administrator is allowed to update the tag number in TimeTec Cloud.

Ingress Software is Getting Flex-ier
Welcomes MSSQL and Oracle

FingerTec Ingress software now supports 2 types of database, MySQL and Microsoft Access. In 2015, Ingress software will be able to work with MSSQL and Oracle database. MSSQL, the Microsoft SQL database, a commercial database server is widely used by many developers in their software and solutions. Installation is easy by following instructions from the installer shield. MSSQL is applying transparent data compression and encryption, where an administrator does not need to develop additional script to encrypt the content of database. Oracle database is an excellent database widely used in the world top 10 banks due to its high reliability and security, which explains its leading role in the database management industry. Oracle database provides wide functionality for easy integration and handling. The database is backward compatible, provides Flashback Technology for administrator to recover deleted data, which helps to remove human errors in database handling process greatly.

QATAR

Newsflash! Al Jazeera Deploys
FingerTec i-Kiosk 100 Plus in its Headquarters in Qatar!

DOMINICAN REPUBLIC

FingerTec Gets Vote of Confidence from
Dominican Republic's Judicial Council

Al Jazeera news channel does not need any introduction for it is a distinguished news channel in the Middle East on par with BBC, CNN, Fox News and other famous news channels around the world. Al Jazeera was established 15 years ago and is headquartered in Doha, Qatar while also having many other branches around the world.

Dealing with ever busy and always on-the-go news crews and thousands of employees, the organisation is finding ways to manage time attendance of their workforce more effectively without disrupting their staff's hectic schedules. After considering a few options, the news channel decided on FingerTec i-Kiosk 100 Plus not only due to its honesty-prone biometrics system, but also because the device is equipped with wireless connection and multimedia features, giving them more than just an attendance system.

Fingerprint technology provides the users with a hassle-free way of clocking attendance with just a touch on the scanner yet gives them accurate data of everybody each time. The devices are installed at the management building of Al Jazeera Channel to track the comings and goings of the employees at the headquarters, and at the same time act as a multimedia portal covering Al Jazeera news when the device is not in use for attendance.

The deployment of FingerTec's devices at Al Jazeera was assisted by FingerTec Qatar, FingerTec's esteemed distributor in this region. Both FingerTec hardware and software come with an option of using Arabic language, making it easy for the local employee to choose if Arabic is indeed required. The various reports generated by TCMS V2 is also proven to be a plus point for the organisation for they can be used to compare productivity against dollars and cents, for example Job Costing Analysis, Duty Calendar, Overtime Approval Worksheet and many more. FingerTec Qatar had provided them with ample training on the features and benefits of the software for them to fully utilize this powerful software as well as the possibility of data integration to third party Payroll System for future use.

FingerTec Qatar is stationed at Doha and it has been promoting FingerTec products to corporate clients in the region while simultaneously building its channel network nationwide. ℮

FingerTec i-Kiosk 100 Plus model

Dominican Republic's Judicial Council (DRJC) is one of the three main branches that makes up the constitution of the nation. The Judicial Council is a federal body created under the Judges Act with the mandate to promote efficiency, equality, accountability, and to enhance the quality of judicial service in the superior courts of Dominican Republic.

DRJC bears the responsibility of appointing judges independently and separately from the political process. The Supreme Court of Justice or Suprema Corte de Justicia consists of a minimum of 16 magistrates and the Constitutional Court or Tribunal Constitucional is made up of 13 judges, all of which forms the highest court. These courts are frequented not only by the DRJC members but also members of the public making it essential for the presence of any individual to be recorded immediately.

As a measure of replacing their existing solution, DRJC called for a public bid for the first 43 biometric units over a total project of approximately over 200 units. E.Threan & Company took note and proposed our best-selling FingerTec TA-100CR. The suggestion was based on the consideration that the TA-100CR model does not only boast of biometric and proximity card features but it also possess high capacity to support the large personnel base. The features of TA-100CR allows time attendance management data to be captured in a more centralised manner and at the same time it gives administrators better control over the management of the workforce.

DRJC kept in touch with Mr Johnny Pena and Mr Johan Pena of E. Threan & Cia and after receiving a demonstration on the functions of the TA-100CR, the Consejo del Poder Judicial gave their vote of confidence to E.Threan. "What clinched the deal was the ability of the data retrieval from remote unit's data using Dynamics DNS. By combining both TA-100CR and this unique feature, it marks the ultimate solution thus convincing us that E.Threan is perfect partner for the job"

A top provider of information and communication technology solutions, E.Threan & Cia is an ardent reseller of FingerTec products. Having been with us since 2006, E.Threan & Cia takes on the status as the only reseller in Dominican Republic seriously as they thrive by providing tailor-made solutions in their quest to achieve client satisfaction. ℮

HONG KONG

FingerTec Gives Ferrari Logistic's
Time Attendance a New Lease of Life

Founded in 1959 as a customs broker and forwarding company in Italy, Ferrari Logistics is today an international establishment providing one-stop solutions for the logistics management of precious and luxury goods. Carrying more than 50 years of experience and 80 logistics offices in 50 countries under their belt, Ferrari Logistics also acts as an IATA agent that operates in all major international hubs.

Recognized as an organisation that places great emphasis on employing the best of the crop to deliver high-quality services to their customers, Ferrari Logistics continuously seeks to revolutionise their workforce and existing systems. This includes investing heavily in the innovation of security procedures, import and export, customs support, event organization, international show support, supply chain, warehousing and logistics activities.

By providing quality service, timeliness, flexibility and responsiveness with accurate and customised solutions for high-value merchandise and commodities, Ferrari Logistic's intuitive aspect showcases their receptiveness to technological advancement with a strong belief that these beliefs will be extremely beneficial to their organisation.

Hence, when Ferrari Logistic approached Founder Globaltech for an effective solution to deal with their time attendance, all factors were taken into consideration before the decision was made to implement and install Face ID 2, FingerTec's best-selling face recognition system, on their premises. Previously, they used a proximity badge system which resulted in missing attendance logs which were unreliable, inaccurate and easily manipulated by certain employees. These attendance logs then became a burden for the IT staff and matters were further complicated when they needed to produce reports and perform salary calculations for their employees.

After the implementation of Face ID 2, the organisation experienced a huge decrease in workload as well as an increase in satisfaction with their current timekeeping system as they can now focus on improving their workforce. Face ID 2's swift and user friendly system was welcomed by the staff too and it can be said that the performance of the organisation have been optimized as a whole.

Established in 2002, Founder Global Tech is FingerTec's esteemed reseller, spearheading the communications landscape by delivering technologically advanced communications software and hardware to their clients. *e*

FERRARI

FingerTec Face ID 2 model

SAUDI ARABIA
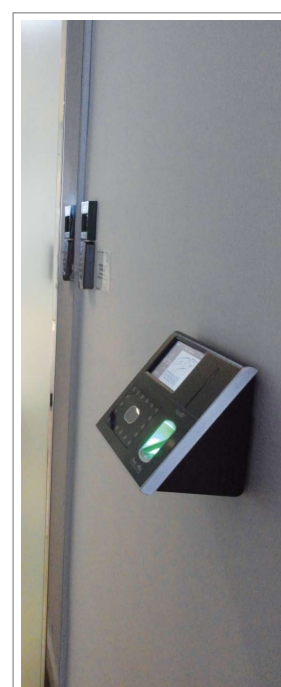
Moving Forward with FingerTec at
Al Salam Private School

IRAQ

Training Center for Finance and Accounting In Iraq's MOF Deploys Face ID 2 for Attendance

Al Salam Private School was established in the education sector with the main aim of advancing the quality of education through various methods, such as the traditional concept of education in classrooms and e-learning, to suit the requirements of current times. The school's vision is to establish a professional community that is capable of leadership and global competition by producing a creative generation of learners. This goes along with their mission, which is to provide outstanding education and to develop a community that enhances creativity through technology.

The Al Salam Private School branch in Khobar, has been looking for a time attendance system to monitor staff movement throughout the school. The school discovered Itqan International, who is a FingerTec reseller, and have requested a device that will manage time attendance effectively among its staff. Itqan suggested the deployment of FingerTec TA100CR, which was not only installed in the management department, but also in the primary, middle and secondary schools. Combining verification methods, including fingerprint, password and card, Al Salam were satisfied with the quality of the product and recommended FingerTec devices to other private schools who can benefit from deploying our products.

Through their agency and professional service, Itqan International is able to build a big base of resellers and clients throughout Saudi Arabia. The company is known for their attention to detail by giving their customers the best support they can ask for, going out of their way to fulfilling their requests, no matter the size or value. Built on long-term key relationships and the pursuit of technological excellence, Itqan has surpassed their competitors by integrating their offerings with emerging technologies and FingerTec is happy to have Itqan as a representative for our products. ℮

Iraq's Ministry of Finance's Training Center for Finance and Accounting were scouting for a system that is capable of promoting its employee's compliance with the official working hours to stimulate punctuality, efficiency and cost-effectiveness in its operation.

Knowing the requirements of the center, FingerTec's distributor in Iraq, Ain Al-Zulal introduced and demonstrated the effectiveness of Face ID 2 that has a couple of biometrics identification methods which include face and fingerprint technology plus another two options of cards and passcode. The preciseness of biometrics technology can dissuade buddy-punching occurrences, as the uniqueness of the technology requires the employee to be present to get verified.

Another important requirement of the center is the effectiveness of the management software to address concerns they might have with employee's time and attendance and at the same time provide solutions to deal with such matters. Ain demonstrated to them TCMS V2 complete with its Arabic language user interface. TCMS V2 can be preset with various working schedules to suit to their requirements and eventually provides them with a choice of 29 useful printable attendance reports to analyze. Most importantly, TCMS V2 has the ability to transfer integrate to third party software for payroll and other uses of the center.

Pleased with the capability of the Face ID 2, the center approved the installation of a few units solely for the center's employee's attendance matter. The installations were completed successfully and Ain Al-Zulal is hopeful that this project will lead to a much larger deployment in the ministry in the future. ℮

FingerTec TA100CR model

FingerTec Face ID 2 model

FingerTec System Centralizing Attendance for
Nigeria's YSG Hubs Ltd's Hub Attendants

YSG Hubs Ltd is a mobile application and e-commerce Management Company that manages the YSGHubs app, an app designed to solve problems affecting intellectual property distribution in Sub-Saharan Africa and also provides a platform for other world economies to access the huge potential of the African Creative Industries and vice versa. YSG Hubs Ltd also have been providing Hublets, mini centers manned by Hub Attendants where customer care services are offered to students, travelers and other customers at various accredited institutions, transport terminals and selected spots. The Hublets serve as lifestyle merchandise pick-up centres, advert placement mediums, feedback response and scratch card retailing centers. YSG Hubs Ltd is under YSG Group of Companies headquartered in Lagos, the capital city of Nigeria.

In their effort to manage discipline and productivity of hub attendants, the YSG management has decided to deploy an attendance system that could meet those objectives. The initial installation involved 21 units of FingerTec TA200 Plus PoE with Wifi that have been installed in all YSG Hublets throughout Nigeria to monitor the attendance of their Hublets' stand managers. The biometrics technology helped to promote discipline and honesty when it comes to attendance and the tokenless concept of biometrics system also helps to reduce the cost of the management and provides effectiveness throughout. With WiFi installed, the data from all the FingerTec TA200 Plus installed at those Hublets were automatically transmitted to the TCMS V2 software centralised at its headquarters in Lagos

for the management to receive all the precise reports about the employees stationed at the Hublets. Hence, further analysis and improvements could be initiated from the reports/data obtained. YSG resorted to Face ID 2 for their operation and maintenance office in Lagos to mirror the luxury bus services they offer to their clients as well.

Nevosys Limited is the company that is in charge of FingerTec's implementation in YSG Hubs Ltd. Established in 2010, Nevosys Limited is a system integrator handling smart home systems and access control in Nigeria. *e*

Another YSG Hublet that also functions as a bus stand

FingerTec TA200 Plus model

VIETNAM

Tuan Chau Island Holiday Villa Halong Bay Implemented
FingerTec Time Attendance System as a Cost-Saving Measure

Tuan Chau Island Holiday Villa Halong Bay is a four-star hotel located at Tuan Chau Island in Vietnam. Apart from being really close to the famous Halong Bay, Tuan Chau Island is popular for its entertainment and activities, making it a destination for local and international tourists alike. This 247-room resort also offers an array of facilities that includes a golf driving range, lantern presentation and multiple theaters containing a variety of entertainment for the guests.

Recently, the hotel resorted to biometrics time attendance devices with the main purpose of saving costs on attendance. Attendance could cost an overpay of around 1-8% due to human error alone according to studies and biometrics is expected to reduce administrative burden, eliminate human errors and reduce problems caused by conventional attendance systems such as a punch card attendance system. Biometrics such as fingerprint has been proven to be reliable, easy to use and flexible in terms of data integration and analysis.

Having approximately 200 employees working around the clock in the resort, the implementation of biometrics is crucial to save on overpaying due to overstaying, 'buddy-punching' and early leaving employees. The Tuan Chau Island Holiday Villa Halong Bay chooses a mixture of FingerTec's AC100C, R2 and AC900 from the recommendation of FingerTec's esteemed reseller JSC Futech Technology to solve their attendance issue.

The FingerTec device can track each employee's attendance to a tee and it can provide the management with precise reports of each staff and the data from the devices can also be integrated to third party software for further analysis. Apparently, the initial investment of an advanced biometrics system such as FingerTec will be recovered quickly plus it comes with 3-year warranty on all biometrics products, and the system will benefit the organization for years to come.

Based in the capital city of Hanoi, JSC Futech Technology has been active in the Vietnam market selling FingerTec products for around four years since 2010. ℮

The exterior of Tuan Chau Island Holiday Villa Halong Bay

The lobby of Tuan Chau Island Holiday Villa Halong Bay

FingerTec AC100C, AC900 & R2 model

Invest in Face ID 2 for an Effortless Time Attendance Solution

GSE Environmental was incepted in 1972 as the inventors of the first high-density polyethylene product. A leading producer and dealer of geosynthetic lining products and services, GSE's built their reputation for reliability through their dedication in maintaining product consistency, upholding fair pricing and ensuring protection to their customers all around the world.

GSE Environmental has experienced exponential growth in past few decades thanks to the increasing demand from private development applications such as roads, embankments, retaining structures, reservoirs, canals, erosion control, sediment control, landfill liners, landfill covers and more. With a sizeable number of staff from 5 different continents under their helm, it is only natural universal issues such as time attendance and access control catches up with them. Realizing that their existing time attendance system needs to be replaced with a more holistic measure, GSE Environmental approached Gelikom, our partner in Germany for assistance.

At Gelikom's suggestion, they chose the Face ID 2 system as it offers dual verification method of facial recognition and fingerprint, giving users a choice to choose how they wish to be enrolled and verified in a fast and accurate manner.

Apart from that, the Egypt branch of organization have used the same model earlier on and they sung praises of the Face ID 2's contactless verification method which is not only user-friendly but reliable too. Having received a high opinion of our biometric devices, this has instilled the confidence of GSE Environmental to further install another two models of Face ID 2's in their headquarters.

Equipped with the TCMS V2, extracting data from employees for time attendance is a cinch and reduced the administrative work of the staff. In short, GSE Environmental were satisfied with the quality of the product, the software, and the installation made by Gelikom's team.

Gelikom is one of the security system integrators which is based in Germany. Together with FingerTec products, Gelikom assures their clients trust by offering solutions that are both preventive as well as proactive in nature. *e*

FingerTec Face ID 2 model

A Five-Star Solution from FingerTec for the
Five-Star Sutera Harbour Resort

Sutera Harbour Resort is a luxurious resort located in Kota Kinabalu, Sabah and is nestled between the shores of the South China Sea and Mount Kinabalu. Covering a massive 384 acres, the resort comprises of two five-star hotels, the Pacific Sutera Hotel and the Magellan Sutera Resort, offering a total of 956 guest rooms and suites. In addition, the resort also boasts a 27-hole golf course, a marina, the North Borneo Railway, a dive resort and the Sutera Sanctuary Lodges located near Mount Kinabalu.

Sutera Harbour Resort was looking to improve the attendance rate of their staff and turned to FingerTec reseller, AMTC System, for a solution. Previously, the resort have been using an electronic time recorder and have dabbled with other biometric devices as well. They wanted a time attendance device where the captured raw data from the device can be exported to a third-party software for payroll and HR integration. AMTC suggested the deployment of FingerTec Face ID 2, the face recognition biometric terminal that is fast, easy and contactless. At the same time, many other five-star hotels throughout Kota Kinabalu have implemented FingerTec terminals and Sutera Harbour Resort would become the latest hotel and resort to join them. The resort installed a series of Face ID 2 terminals at several locations, including both The Pacific Sutera Hotel and The Magellan Sutera Resort, the maintenance unit of both the aforementioned golf club and marina, the Sutera Sanctuary Lodges' headquarters and finally, the resort's HR department. Overall, the staff of Sutera Harbour Resort commended the Face ID 2 terminal's performance, particularly due to its multi-verification feature where employees can record their attendance via face recognition, fingerprint, card and password verification methods.

AMTC specializes in system integration of security access control products and office automation including alarm systems, CCTV, car park systems and biometric terminals. According to them, FingerTec terminals are highly reliable and the TCMS V2 software have user-friendly features, a great solution to offer their growing clientele. AMTC will continue to play a key role in marketing and distributing FingerTec products through-out the land below the wind, Sabah. *e*
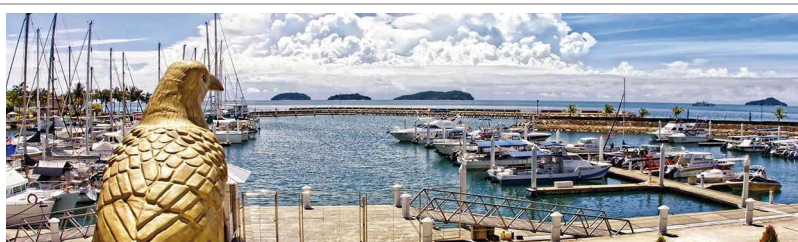
The view from The Pacific Sutera Resort

FingerTec Face ID 2 model

Tracking Toy Triangle's
Attendance is Child's Play for FingerTec

Toy Triangle is the largest toy distributor in the United Arab Emirates with two decades of experience in servicing the Middle East and North Africa (MENA) region. Established in 1991, Toy Triangle opened their first shop in Jeddah, the second-largest city in Saudi Arabia.

In 2003, after spending years in building the name and reputation of Toy Triangle, they moved to Dammam, the capital and largest city of the Eastern Province of Saudi Arabia and began expanding worldwide from there onwards. At present, Toy Triangle have made their mark in countries such as India, Jordan, Qatar, Egypt, Kuwait, Hong Kong, Morocco and Iraq.

Aiming to secure a $1.5 billion strong industry in which Saudi Arabia represents the biggest share at $550 million, Toy Triangle's mission to redefine the children's entertainment industry by having a dedicated sales, marketing and merchandise team and applying innovative practices to their work meant that they are also placing a high importance in ensuring that they are at the top when it comes to optimizing organizational productivity.

Through the recommendation of our partner Sharda Technologies, Toy Triangle has selected 4 units of FingerTec's TA100TC. FingerTec stood out from other competing brands due to the user-friendliness of their software, affordability and overall product quality. As a result, Toy Triangle is highly satisfied with the installation and remarked on how the time attendance solution had complemented their growing workforce.

Sharda Technologies L.L.C is an esteemed reseller of FingerTec that specialises in providing technological and security solutions. They are based in Dubai, UAE. *e*

Testing out the new time attendance system

FingerTec TA100TC model

INDONESIA

Harley Davidson Rides on
FingerTec's Effectiveness To Improve Its Security and Office Automation

MALAYSIA

Managing Students and Staff's Attendance with FingerTec Kadex Series at
Excelsior International School

Recently Mabua Harley Davidson in Indonesia was planning to improve the security aspects of its outlet in Jakarta Selatan and they were specifically looking for a system to safeguard the security of their showroom and store for this famous American manufactured high-powered motorcycles. The implementation was marked crucial to protect the high-valued stock they possess.

A total of 16 units FingerTec readers were deployed in the building comprising of 75% R2 and 25% AC100. FingerTec's R2 has been the worldwide bestselling model for door access for many years due to its design, sturdiness and amazing functions. R2 is designed to offer not only biometrics feature; it also comes with card technology, password and PIN verifications for users' convenience. R2 can be installed standalone, connected to slave reader such as R2c to biometricize the entire security system. In this particular installation, door access and time attendance systems are separated to streamline the data to relevant departments that are in charge of security and human resources respectively.

With this installation in place, the management gets a complete view on all door access activities happening in the premise 24/7. All audit trails are available with the records of who's in and who's out at specific times. AC100s are stationed to record attendance of their staff for time attendance for payroll and admin purposes.

PT Retailindo, FingerTec's esteemed distributor in Indonesia is pleased with this deployment, for it is the testament of the quality of products and services of FingerTec when a renowned international brand agreed to deploy the system in their premise. Mr Eviek Gunawan of PT Retailindo hopes to continue thriving in Indonesia as FingerTec's top distributor, supplying quality biometrics products to security and office automation suppliers nationwide. ℮

Excelsior International School is a purpose-built international school campus in the City of Knowledge in Bandar Seri Alam, part of the Eastern Corridor of Iskandar Malaysia in Johor. Academics, sports and the arts make up the school's Three Pillars of Excellence in education and this is evident with its state-of-the-art facilities, such as advanced Information Technology as an educational tool, science and multimedia laboratories, specialist facilities for the arts and a vast range of sporting and recreational facilities. Excelsior has classes starting from Nursery at the age of 3 until High School grade 11 to 12.

In order to monitor students and staff attendance, Excelsior International School deployed the combination of FingerTec's most sought after card system, Kadex and, i-Kadex from the recommendation by FingerTec's esteemed reseller, Flexi Team Computer. Kadex is a simple yet effective card system that is practical in tracking attendance/door access and is suitable to be used by large crowds such as schools as one Kadex can contain a massive 30,000 cards. Through the combination of Kadex and i-Kadex, the slave reader also gave the school an adequate in-out system through the use of card verification while also increasing the level of access control within the school. The school employed Mifare technology for these devices to reduce the burden of data from the master Kadex for the Mifare card could store data up to 64kb. A total of 50 Kadex terminals were installed at the school's management office as well as all the classrooms located in the school.

Each Kadex terminal is bundled with TCMS V2, a software which centralises, stores and manages all data extracted from the Kadex terminals. Loaded with powerful features, TCMS V2 allows users to not only automate tracking of time attendance but also generate a variety of attendance reports such as Tardiness Report, Movement Analysis, Electronic Time Card and many more for further analysis. The data collected for Kadex readers can also be integrated with a third-party software such as payroll system for staff.

Flexi Team Computer is one of FingerTec's largest resellers in Malaysia, focusing on the Southern region of West Malaysia. ℮

FingerTec R2 & TA100C model

The combination of Kadex and i-Kadex gave the school an adequate door access control system for better security

PHD Egypt Integrates
FingerTec TA200 Plus with Payroll System for Better Staff Management

Recently, FingerTec TA200 Plus terminals have been installed in Palm Hills Developments' (PHD) head office located at the Smart Village in Cairo, Egypt. The main purpose of this installation is to integrate the attendance data from the FingerTec system to the payroll system of choice for better staff management. By using FTDP software provided complimentary by FingerTec, the attendance data from the biometric machines have been successfully downloaded into SQL server of the third party payroll software for further processing.

Palm Hills Developments (PHD) is a leading real estate company in the Egyptian market, primarily developing integrated residential, commercial real estate and resort projects. Founded in 2005 by Mansour and Maghraby Investment and Development (MMID), the company, which is listed on the Cairo-Alexandria Stock Exchange and the London Stock Exchange, was the result of a vision to create self-sufficient communities through the utilization of integrated tools.

Currently, PHD maintains an impressive roster of 19 launched, and 10 projects currently under construction, strategically located nationwide and in the region. Installation of FingerTec attendance system hoped to bring about convenience to the company's employee management.

Deployment of FingerTec in PHD Egypt was completed by APEX Technology, FingerTec's exclusive distributor in the land of the pyramids. APEX started promoting FingerTec in 2012 and has installed the system into many sectors across the nation. 🅔

FingerTec TA200 Plus model

KENYA

SAUDI ARABIA

FingerTec Ingress Access Control
Safeguarding Important Documents in Nairobi

Autostar Company Dashes Ahead with FingerTec Access Solution

ECS Limited is a technology-based company that focuses on providing smart card technology and securing vital hard copy documentations such as land title deeds, various certification including school certificates, birth certificates and other valuable documents for depositors in the capital of Kenya, Nairobi. Due to its business nature, the company scouted for a suitable system to secure their entire office premises.

By the end of 2013, ECS deployed FingerTec's Ingress access control system across the entire two floors of their building with its 28 rooms with biometrics access control system to achieve greater security.

In total the deployment involved 16 units of Ingressus II, 48 units of R2 and 13 units R2c. Ingressus II worked excellently, keeping the data secure and Ingress was chosen due to its reliability in reports, multiple clients on one server, first card and multiple card opening, system integrations with CCTV and alarm systems. Ingress is not only in compliance with the current needs; it also leaves room for future expansion. The choice of biometrics system over other types of access technology is made due to the fact that fingerprints are unique and inflexible and every fingerprint record comes with its corresponding time stamp and details of the personnel accessing a certain area or room, perfect for a secured system and its precise audit trail.

Security is second to none in this business of guarding hardcopy documentations and ECS turned to FingerTec for a solution. ECS, established in 2005 is also a FingerTec reseller in the land of the lion, Kenya. ℮

Autostar Company gained prominence as one of the leading automotive companies in Saudi Arabia specialising in the trade of selling cars and spare parts related products. Established in 1998 in Jeddah as small company, Autostar has successfully increased their presence across Saudi Arabia by offering a wide range of comprehensive services in the automotive industry. With a sizeable number of branches spread out across the kingdom and a substantial amount of employees under their wing, Autostar aspires to meet the demands of their customers in every way possible.

Recognising the rising need for a systematic method to safeguard the vicinity of their work premises and to record the attendance of their staff, Autostar has made their decision to implement an advanced biometrics system to replace the usage of the current traditional clocking system used by the HR department.

Global System is then contacted to take up this challenge and upon assessing the surroundings of the premises and options provided, Autostar chose to install FingerTec's best-selling access control and time attendance biometric device, the R2. Global System's expertise and experience allowed them to swiftly install 40 units of R2 in Autostar with no apprehension.

FingerTec R2 has gained a place in hearts of Autostar with their reasonable-pricing and practical features such as a variety of verification methods, easy data management, built in alarm and more. Needless to say, Autostar is impressed with the results of our access control and time attendance system.

Global System has been a long-term FingerTec Reseller based in the Kingdom of Saudi Arabia. Global System introduced FingerTec products to corporations who are seeking for an advanced yet affordable time attendance and access control solution for the workplace. ℮

FingerTec R2 & R2c model

FingerTec R2 model

IRAQ

Iraq's TSCFS Imam Ali Secured with
FingerTec Face ID 2 & Ingress

Following the success of previous installations in Sadr and Rusafa, TSCFS consulted our esteemed distributor, Ain Al-Zulal to assess their premises and to recommend an appropriate security solution at Imam Ali. The decision was unanimous as they settled on the Face ID 2 based on the satisfaction that they have experienced with the deployment of Face ID 2 in other TSCFS outlets. FingerTec Face ID 2 boasts multiple verification methods which include the primary facial recognition and fingerprint verification, plus the cards and password too, offering TSCFS a hassle-free experience in recording door access and attendance activities.

In addition to that, the newly improved algorithm of FingerTec's facial recognition technology ensures a fast and accurate process of enrollment and verification. Staff of TSCFS will now have their details collected by Ingress, an integrated access control management software that comes with sophisticated features such as real-time monitoring, database administration and report management.

To sum it up, the deployment had greatly benefited TSCFS as it came across as an effective and convenient method of monitoring the door access and attendance of their staff. It has also lead to a reduction in hardware maintenance, giving TSCFS more savings in cost on a long-term basis. As a consequence, TSCFS continues to retain FingerTec as their brand of choice for biometric time attendance and access control devices for their future undertakings.

Established in 2009 by a dynamic team of professionals, Ain Al-Zulal is FingerTec's leading distributor in Iraq with the aim of providing top-notch quality service to their clients. Their experience in installing perimeter security devices is immeasurable and with a number of corporations from various sectors under their belt, FingerTec is pleased to have Ain Al-Zulal as our esteemed business affiliate. *e*

The staff is fixing an enclosure for Face ID 2 to avoid vandalism

ingress
The Perfect System For Advanced Access Control

FingerTec Face ID 2 model

MALAYSIA

DAISO
JAPAN

Daiso Malaysia Protects
Their HQ with FingerTec R2

Daiso is a large franchise of 100 Yen shops in Japan, owned by Daiso Sangyo Corp, Japan. With a range of over 100,000 goods, Daiso strives to develop and create a wide range of products as an essential part of their strategy to compete with high-end retailers.

With 2,500 stores in Japan and 522 stores overseas including Malaysia, Daiso has managed to carve its name as the top choice for Malaysians when it comes to purchasing quality household items at RM5 per item. As a growing organization, Daiso acknowledges the importance of security and to help them solve their concern, they brought in PC Mart to assess the security needs for Malaysia's HQ. PC Mart recommended R2 to be installed at Daiso's HQ for its dual function, effective as a door access system and at the same time it works really well as a time and attendance clock.

In an environment where staff presence is spread out, investing in an access control and time attendance system is inevitable as it allows management the ability to monitor their staff's movements and generate reports based on the activities. Ingress is the perfect software for door access solution bundled with FingerTec door access hardware such as R2, helped the organization tremendously in more ways than one. With Ingress you can view the real-time movements, detailed audit trail reports, it can integrate the system with other security solution for a more holistic solution and the time attendance features are vast. All in all , Daiso is happy with the installation of R2 in the HQ, which leaves a possibility for similar system installations in other Daiso branches nationwide.

PC Mart Sdn Bhd was founded in January 1996 with a retail shop located in Sungei Wang shopping complex. PC Mart's dedication to brilliant after-sales service and excellence has made them a favourite among customers. *e*

A staff of Daiso showing the convenience of R2 in recording attendance

FingerTec R2 model

Euro Jordan Installs
FingerTec Devices in MedNet Group

Established in 1990, MedNet Group is an organization that aims to create a precise healthcare delivery system which regulates and restricts cost while maintaining or improving the quality of the healthcare services delivered to its members. MedNet Group have successfully brought together a multidisciplinary management team harnessing the skills of a pool of talented individuals comprising of insurance, medical-clinical management, economics and information technology. At present, MedNet can be found in countries such as Lebanon, Turkey, Cyprus, Greece, Kingdom of Saudi Arabia, Italy, United Arab Emirates, Bahrain and Jordan.

As FingerTec's partner in Jordan, Euro Jordan managed to secure an installation requested by MedNet Group. MedNet Group's main concern is to acquire a timekeeping solution that is not only sophisticated but feasible to be implemented for a workforce comprising of large number of the employees.

Citing reliability and user-friendliness as their key aspect for selecting these models, they are also enthralled by the attributes that these attendance devices possess. For instance, FingerTec's Q2i outstanding storage capacity and cutting-edge precision fingerprint scanning algorithm is not a simple feat to dismiss but what clinched the deal is clearly the multi-lingual language function making it accessible for users whose native language is not English. The same goes for the i-Kadex and m-Kadex, FingerTec's best-selling card reader for time attend-ance and door access control system in which its simplicity, ability to be mixed and matched to any master terminal combined with an affordable price made it a worthy investment for MedNet Group.

Euro Jordan Trading Company, FingerTec's distributor in Jordan, was formed in 1999, starting with automatic door systems. Since its inception, the company has strived to be popular in the field of automatic doors and door access systems in Jordan. Their commitment to meeting their customer requirements have made them successful in the field. ℮

MedNet Group, Jordan
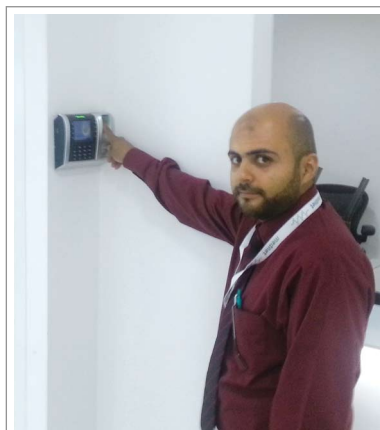
MedNet staff sharing how easy to use FingerTec

UAE

CITRA•STYLE

H2i installed at the entrance proved to be very convenient for all Citra Style's staff

FingerTec H2i model

FingerTec H2i in Citra Style's HQ Dubai

Biometrics systems have been the most sought-after system of late due its high security level, convenience, reliability and affordability. The biometrics verification technology has evolved to defy the skeptics and it has been proven to thrive in many areas of security, and recently, it has become the major technology for the Internet of Things. Since its inception 14 years ago, FingerTec biometrics systems have been installed in various industries across the globe through the many reseller channels that have been established.

FingerTec's brand presence in Dubai started in 2007, being marketed by Magnum Connect LLC, which is a unit under Seven Seas Computers LLC, located in Oud Metha Road, Dubai. Magnum Connect is responsible for thousands of FingerTec systems installations in the UAE. Recently, FingerTec has made its way to a famous garment export company, Citra Style LLC's headquarters in Dubai city. Citra Style is an online store for contemporary Muslims that adhere to the Muslim dress code etiquette but at the same time want to stay fashionable. Having around 30 staff at the HQ in Dubai, Citra Style looked for a hassle-free door access and time attendance system, which will provide them with not only reliable data but also security and convenience for the company.

With the installation of H2i, all Citra Style's employee comings and goings data are made available for security and payroll purposes. For this installation, it was handled by Magnum Connect's reseller Awafi General Trading LLC in Dubai. *e*

Global Reseller Program

• Conclude Sales Fast • Reduce Support Cost • Get Better Profit

Welcome to our Global Reseller Program, an effective reseller program formulated with two clear objectives: to conclude sales in no time, and to reduce support costs for a more profitable operation. Using 4 simple modules and 8 useful microsites, FingerTec Global Reseller Program is tailor-made to fulfill all the requirements of a reseller. Let's walk through what FingerTec has for you as our Global Reseller.

Online Sales Resources

Welcome to *sales.fingertec.com* to view FingerTec's new and refreshing approach to sales and marketing strategies. In this era where people expect fast reply with complete information, an effective sales pitch complete with relevant marketing materials are extremely important to convince the clients and seal the deal. With that understanding, we have prepared a list of marketing materials at your disposal to achieve your performance goals, meet your sales targets and get an edge over your competitors.

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- Video Demonstrations
- PowerPoint Presentations
- Product Factsheets

Sales References
- Distributor Guidebook
- Success Stories
- Image Banks

Useful References
- Certifications
- Awards
- Global News
- Monthly E-Newsletters

Sales Materials

Save your time, get professional looking sales materials, presentation kits and supplementary marketing materials directly from us free of charge at *material.fingertec.com* If you want to customize the materials to reflect your business and make them into the language of your choosing, contact us at *info@fingertec.com* and we'll entertain you happily. From brochures to buntings to posters to videos, demokits and many more, get them from FingerTec easily.

Product Listing

Visit us at *product.fingertec.com* to obtain information about our FingerTec products down to the technical specifications, features and capabilities. Browse our one-stop centre for all Fingertec products for your access control, biometric time attendance hardware and software needs and make smart decisions with us!

User Support

FingerTec does not only support you as our reseller, we also extend our service to the end-users. Promote *user.fingertec.com* to your customers and let them experience the amazing service that we have laid out for them. Check our exhibition schedules, read product reviews, register warranty, obtain technical support and much more.

Accessory Listing

In need of accessories to accompany your FingerTec products? Look no further as *accessory.fingertec.com* provides various types of accessories to compliment the products.

Product Training

Register at *training.fingertec.com* to gain first-class access to quality, up-to date and ongoing sales education and training though our online webminars that cover 3 major topics on sales, product and technical trainings. Connect to our webminar training program and participate in presentations, discussions and Q&A sessions all from the comfort of your home or office! Equip yourself for success with our tried-and-tested tools and tactics to help you further hone your sales acumen and develop a solid plan of attack today!

Technical Tips

Having technical issues? Need help trouble-shooting? Not to worry. Access FingerTec's *tips.fingertec.com* and browse to find the answers to your problems. Our technical team is always on standby in Skype to answer your questions or you could drop them an email at *support@fingertec.com*. The technical service is available 24/7/365.

Global Product Warranty

Our resellers and end users are our greatest customers. To find out more about our Spare Part Allocation Scheme, Standard Limited Warranty and Product End of Life Policy, make your way over to *warranty.fingertec.com* and trust in us to ease your concerns.

Additional Advantages

- 36-month manufacturer limited warranty.
- Complimentary Powerful Software with Multilanguage Selection.
- FingerTec TCMS V2 Viewer for access into attendance data via LAN.
- Inclusive of FingerTec Data Processor (FTDP) for extraction of raw data.
- Free BioBridge System Development Kit (SDK) for third party software integration.
- Quality Lead Referrals.

This Program Applies To

- Office Automation Industry.
- Security/Physical Access Control Industry.
- Solution Providers who are interested to add fingerprint technology.
- Time Attendance Industry.

How To Become A FingerTec Reseller

- Buy Sample Units to test the technology, to understand the system, and to experience what FingerTec has to offer. Visit www.fingertec.com/sample-pack for more info.
- Determine the level of commitment you prefer as a FingerTec reseller.
- Start your business and enjoy all the benefits from FingerTec Global Reseller Program. Get started now by sending an email to us at info@fingertec.com.

FINGERTEC is made available in more than 150 countries, installed in tens of thousands of sites worldwide and used by millions around the clock.

Security Hub for Smart Control with

ingressus

The powerful Ingressus controller series now introducing its premium product, INGRESSUS IV, a smart controller apt for 8 locks, 4 doors installation.

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Loaded with 3 types of Surge Protection, Ingressus extends the lifespan of your hardware. Choose from Overcurrent Protection, Overvoltage Protection or Reversal Protection.

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Real-time door status monitoring in Ingressus lets you oversee your door activities at all times using PC or Mobile app.

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Comply to the industry's access control feature requirements including door interlocking, multicard operation, anti-passback, duress mode, ensuring audit trail of every person accessing a certain area.

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Ingressus allows integration with your door access software with our readily available SDK, without any additional charge.

RECOMMENDED FINGERTEC READERS FOR INGRESSUS IV

R2c
(Fingerprint, RF Card, Key Tag)

i-Kadex
(RF Card, Key Tag)

k-Kadex
(Pin/Code, RF Card, Key Tag)

OFIS-y
(As a fingerprint enrollment station)

Find out more: http://info.fingertec.com/ingressus

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NFC, the Next Milestone in FingerTec Solutions

"One of the keys to success over the next several years will be to have an offering beyond traditional access control readers, panels, cards and software and to embrace the new position of the industry which includes things such as remote management, mobile and fixed functionality credentials and wireless; reducing administrative burden and increased efficiency and integration with human capital management software" said Blake Kozak, with the research firm IHS Inc. This indeed has become a very big challenge for existing market players to innovate from the access control perspective with the latest technology such as Near field communication (NFC), bluetooth low energy (BLE), Internet of Things (IoT) and etc.

Mr. Daryl Choo,
Chief Technology Officer
FingerTec HQ

In this article, the focus will be on NFC technology in Access Control with some of the implementation applicable to our business. Near Field Communication (NFC) is a short-range wireless connectivity standard (Ecma-340, ISO/IEC 18092) that uses magnetic field induction to enable communication between devices when there is contact, or when brought within a few centimeters proximity of each other. [1] Many mobile phones are now equipped with NFC module which makes it an ideal device for gaining access. The idea has been further expanded with the growing concept of Bring Your Own Device (BYOD), where you can just authorize yourself for physical access with your mobile phone.

We at FingerTec, are also doing our research and development on NFC technology and implementing the idea into our terminal, software application and mobile application. NFC technology for access control system will be a milestone for us to achieve before moving forward into BLE and IoT. We foresee that we will be adding more options to our customers in enriching the entire user experience with the latest technology using our products. Currently we are able to support NFC tags on some of our terminals and we want to go a few steps further. Not only by using NFC tag, we will also be integrating NFC enabled mobile phone into our Access Control system.

To get started, we are now revamping our Ingress Mobile to utilize NFC technology to grant access control rights. The idea is to turn your mobile phone into a NFC tag. Once you have installed the Ingress Mobile and enrolled your mobile phone with our terminal, you will be granted access by waving your mobile phone on our terminal. The Ingress software will communicate with Ingress Mobile for data synchronization and monitoring. With NFC Host-based Card Emulation technology in Google Android 4.4, we are in the progress of realizing the entire concept to work with our terminal and getting it implemented and integrated into our Ingress Access control software. We shall reveal more updates from time to time.

Once we have implemented NFC for internal usage, we hope to expand it for external usage. It has come to our attention that visitor management feature is the next direction to go. This will involve much complex integration and work flow. We are planning to extend Ingress Mobile and Ingress software to include the visitor management capabilities. Visitors can register themselves in the reception area using their NFC capable mobile phone and access will be granted once they tap their mobile phone on our terminal. All the transactions will then are stored and reports be generated via Ingress software itself. Ideally, we would like to enable the visitor to pre-register their visit and receive the virtual key directly on their mobile phone. Once the appointment has session ended, the virtual key can be revoked from their mobile phone. We are aiming to automate and simplify the entire process.

Besides implementing the NFC capabilities in the Ingress software, the plan is to integrate the concept of Guard Tour on TimeTec Cloud. Unlike the earlier implementation, NFC tags will be installed at some designated areas and security guard will be using their mobile phone with our TimeTec Mobile App installed to read the NFC tag for reporting purpose. After they have finished patrolling the area, they can then upload this data directly to TimeTec Cloud for processing purposes. Administrator or person-in-charge will then be able to generate the report for analysis. Since you do not need to have any additional third party hardware or devices, it will simplify the implementation process and hence achieve cost saving.

With the NFC technology, it provides more methods and options for customers to utilize it in access control system. NFC technology will be an ongoing process for improvement and that is definitely not our final destination. We strongly believe the Access Control system could be implemented in more areas and using the latest technology such as BLE and IoT. The implementation of all latest technology will bring more innovation towards the door access control system as well as time attendance system.

NFC WORKING LOGIC

A radio frequency (RF) wave will be generated by the phone and used to transmit energy to the NFC tag and retrieve data from the tag. When the NFC device is active then it will continuously generate the sine wave signal at the frequency of 13.56 MHz center frequency.

If there is another tag nearby, it will get energy from the magnetic fluxes generated by the sinewave and create counter frequency or change the original frequency properties of the original sine wave generated by phone. The changes will then be detected by the NFC enabled phone and the phone will know that another tag is nearby.

RFID systems communication on very short range and also known as close couple systems. The range of this range of communication is between 0 and 1 cm. This means that the tag has to be placed either in the reader itself or more or less pressed against the reader device. The benefit of short distances communication is that a rather large amount of energy can be extracted from the magnetic field by the tag; thus more energy is available for signal processing in the tag at this distance without the need for power supply in the tag.

TAG

Tag is simply an RFID device incorporating a silicon memory chip connected to an external antenna. Tag does not have its own power source. The passive tag will absorb a small portion of energy emitted by the reader (phone) and start sending information when sufficient energy is acquired from the RF field generated by the reader. NFC Controllers will support all Communication Modes of Operation and will have a connection to a secure element for local payments.

In this century, technology is always evolving and now humans do not need to carry their wallet, purse, or even get a paper ticket at stations as these has gone digital and humans can rely solely on their mobile phones to pay for purchases as well as to commute to one place to another. This current technology trend is surfacing in all parts of the world, and this is known as NFC, short for Near Field Communications.

NFC systems are based on High Frequency (HF) RFID, operating at 13.56 MHz. Depending on the protocol used and the antenna design, the typical communication range for NFC can be up to 3 inches. The principle mechanism of NFC communication between two devices is exactly the same as a traditional 13.56 MHz RFID scanned at a terminal.
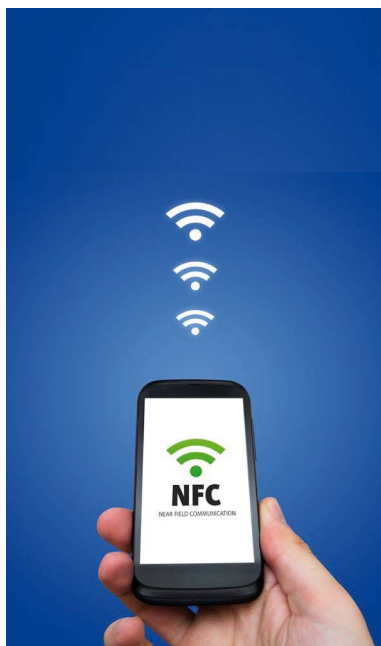
DATA TRANSFER

The process of modifying the characteristics of a signal (carrier wave) to convey information is known as modulation. The carrier wave for NFC is 13.56 MHz and the characteristics of a signal to modify include amplitude, frequency and phase. In this process, a stream of data pulses ("1"s and "0"s) are added to the carrier wave. The data stream has a clock frequency that is much slower than the carrier wave frequency and when data is added to the carrier frequency, the properties will be changed. The changes will then be detected by the phone and it will decode the data send to upper level for further processing.

The logic section separates the 1's and 0's from the carrier wave and compares the data stream with its internal program to determine what response is required. If the logic section decides that the data stream is valid, it accesses the memory section for the chip's unique identification data and any user data that have been stored there. ℯ

timeTec

www.timeteccloud.com

CLOUD COMPUTING IS HERE TO STAY
TimeTec Cloud Taps on Time & Attendance

When the dotcom bubble hit the market a decade ago, dotcom start-ups and investors wanted it to work so badly. The bubble burst in their faces leaving them with dreams of what could have happened. Their intuition was not wrong; ideally dotcom was the way to go but that at time, it's like having two eggs, a pinch of salt and pepper but there was no pan and stove to cook that scrumptious omelet. Some die-hard initiators stuck through and continued on and the wonder happens 10 years later when the much-needed infrastructure is ubiquitous. And now, every business strategizes for an online revenue stream, tapping into those huge possibilities; markets that they had never imagined they could penetrate into have now become accessible and lucrative.

Cloud technology suffered similar quandaries when it first lingered in the IT world, the market was split into believers and non-believers. The idea of letting other parties take care of your resources, trade "secrets" and "business" is worrying for some people. Yet, having ready-made applications that's available anytime and every time you want is a rather interesting concept. Cloud technology has been around for quite some time but as the development continues, the cloudy Cloud has been slowly disappearing and the sunshine has shone through the cloud, gaining attention from business people around the world.

According to the research firm IDC, 85 percent of new software being built today is for the cloud. It is the indication that organizations around the world have started to rely on cloud technology in various areas of business whether it is to market, sell, develop products, manage supply chains of businesses or simply to improve operations. The adoption is not necessarily fast but companies are finding out how cloud can benefit them and moving on from there.

A survey entitled "Strategic Cloud IT Buyers" from Gigaom Research conducted in a second quarter of 2014 has revealed that out of 500 IT decision-makers at large US companies, many of them are dependent on cloud today and planning to implement more cloud technologies in the future and the use of crowd crosses multiple application and technology areas. Businesses are moving from the *look-and-see* stage to *give-it-a-try* stage when it comes to cloud implementation because cloud has proved to offer tangible results to various companies regardless of the size and nature.

Mrs. Norana Johar,
Chief Operating Officer,
FingerTec HQ

Each business might deploy cloud differently, depending on which area of business that require attention. Some companies are using the cloud for non-revenue generating IT functions, which include reducing cost, improving processes, while some other are looking to drive new business and revenue streams. In March 2014, Forbes reported three companies, which transformed their businesses using Cloud Computing. All three uses cloud differently and successfully. The Hartford, a leader in property and casualty insurance, group benefits and mutual funds, uses private cloud to reduce costs, improve system availability and business continuity. Delhaize America, operator of grocery chains are running Big Data and analytics to make faster and smarter decision about inventory, staffing, promotions, etc, while Pearson is using cloud to deliver education worldwide faster through cloud technology.

Apparently, cloud is here to stay and the deployment of cloud technology depends entirely on what a company wants to achieve. Recently, DentistryIQ reported that dentists are looking into moving patients dental records to the cloud to keep up with the fast changing technology in dentistry itself. The Internet of Things (IoT) will make cloud technology become crucial and inevitable from here on. The fact is cloud system saves time and money, which in turn reduces cost largely. The system is readily available, it's 'pay and use' concept. With cloud, developers manage development, security and support issues. While there are some concerns on security, data migration, privacy, reliability, as a basic rule to cloud provider, all these issues have been handled with perhaps some exception of teething problems that pop up occasionally.

FingerTec, the provider of time and attendance system since the year 2000 taps on time and attendance benefits using cloud technology with TimeTec Cloud. TimeTec Cloud is a cloud based time attendance service, which allows the collation of attendance data from multiple locations worldwide and stores them on one central server. It boasts of adjustable and flexible working schedules, attendance reporting capabilities, data collection and management. The aims of subscribing TimeTec Cloud among others is to improve system availability, to reduce cost and to have positive impact on operations.

5 clear advantages of having TimeTec Cloud as time and attendance system is the system's ability to control labor costs with facts and figures, providing company with accurate attendance data to make informed decisions, translating to better workforce management, minimizing compliance risk and reducing burden of manual labor and data entry. Data from TimeTec Cloud is certainly accessible online for management to address staff 'problems' before it escalates, enabling ROI calculation and to patch loopholes if there are any.

Note

TimeTec Cloud licenses can be purchased at a 3-month or 6-month billing cycle for any number of blocks but the minimum requirement for a free terminal is a minimum of 3 blocks, 12 months billing cycle.

TIMETEC CLOUD LOYALTY PROGRAM is a program that offers FREE biometrics terminal(s) with subscription of TimeTec Cloud licenses. Each license entitles a user to clock in using three methods, FingerTec biometrics terminal, mobile and web check-ins. A purchase of 3 license blocks on a 12-month billing cycle is a minimum requirement to receive a time attendance biometrics terminal for free. The time attendance biometrics terminal will be shipped from FingerTec warehouse directly to your doorstep within 2 working days once payment is cleared. You do not need to worry about terminal cost, shipping cost or tax cost when you are eligible to receive the FREE terminal from this program.

Find the terms and conditions on our website at *www.timeteccloud.com/loyaltyprogram/termsandconditions.html*

timeTec
cloud

Loyalty Program

Get **FREE**
Biometric Time Clock
when you subscribe to
TimeTec Cloud

01 Subscribe to TimeTec Cloud licenses for **12 months**

02 Choose any of these 2 biometric time clocks
- Get a free **TA100C** when you subscribe to 3 blocks of user licenses.
- Get a free **TA200 Plus** when you subscribe to 5 blocks of user licenses.

03 We'll deliver the biometric time clock to your doorstep within **2 working days!**

TIMETEC CLOUD LOYALTY PROGRAM is a program that offers **FREE** biometrics terminal(s) with subscription of TimeTec Cloud licenses. Each license entitles a user to clock in using three methods, FingerTec biometrics terminal, mobile and web check-ins. A purchase of 3 license blocks on a 12-month billing cycle is the minimum requirement to receive a time attendance biometrics terminal for free.

TA100C   TA200 Plus

EPICAMERA CLOUD VIDEO SURVEILLANCE
Providing Security Cleverly

From the first CCTV creation by the Germans to monitor rocket launches in the 30s and later usage by the Americans for testing of atomic bombs, global video surveillance industry has advanced in leaps and bounds in various aspects of its development. Long gone is the analog CCTV cameras and their bulky storage devices, now the trend has changed to IP Cameras and web cameras that could send and receive information across computer networks through IP technology. Research forecasts that the demand for IP video surveillance cameras will increase by 46% due to its better quality footage images and that the IP video surveillance camera will be the driver for the camera market in the near future. IP cameras and webcams are becoming sophisticated, much smaller in size, and most importantly affordable and this trend makes Internet-based surveillance cameras become increasingly common.

Mr. Barry Chai Chun Ket
Chief Operating Officer,
Epicamera.com

The deployment of video surveillance is now possible and accessible across a broad spectrum of consumers; it is not limited to securing large corporations, it has now spread to home users for home security purposes.

With the development and advancement in Cloud technology, video surveillance as a service (VSaaS) has been one of the sought after services by IP video users. Everything has been marketed as DIY including the easy installation of cameras and how to connect them to the online applications or known as VSaaS. To put it simply, VSaaS allows users to connect the cameras to the online application for storage of recorded videos, viewing of footages, monitoring of activities, sending clips of videos and much more from anywhere, anytime. According to the market research report published by BIS Research, the VSaaS market is expected to grow to over 5.18 billion by 2020.

Why VSaas? The key to acceptance of VSaas is convenience. Video surveillance as a software provides total convenience to video users because it deploys the plug and play concept. Like other cloud implementations, no investment in infrastructure is required and other important issues like features, stability, performance, security, etc have been taken care of by the provider. With an affordable monthly payment, the service is available at your disposal via the Internet and it is scalable according to your company's requirements or lack thereof.

EpiCamera is a VSaaS product by FingerTec that leverage upon Amazon Web Service (AWB) technology to manage your videos or photos stored securely in the cloud. Using EpiCamera, an authorized user can view, playback, backup and share videos any way and at any time via the Internet.

EPICAMERA FUNCTIONS

Unlimited number of IP Cameras and webcams

Store any number of cameras you like in your account, EpiCamera will be able to sustain the storage space so long as you select and choose the right quantity you require. The application provides a calculator to count the optimum storage space required against the number of cameras installed to optimize your investment and not lose any resources in the process.

Works with any brand of IP Cameras and webcams

The question of would my current IP camera brand work with EpiCamera would have a high chance of a yes because the program is designed to work with established camera brands such as Panasonic, Samsung, Lilin, Brickcom, D-Link, Cynics, Dahua and many more. Refer here for more brands and the manual download links
https://www.epicamera.com/set_up_guide .

Real-time streaming and live view of the camera

This feature provides comfort to subscribers because who doesn't want to know what happens as it happens. The ability to monitor your premises from afar and knowing exactly what happens in pictures is priceless.

Accessible from any browser and mobile applications

By having access through multiple gadgets, the system is easily accessible yet still highly secured, taking security to another new level of flexibility.

Securely store and archive on Cloud storage

You can choose to store all your footages or select important ones depending on your storage requirements and the videos will be kept and archived securely by EpiCamera until the next time you want to use them.

Mobile alerts and email notifications

EpiCamera provides an option for the administrator to receive mobile alerts and email notifications in case of emergencies and that's a great thing as you can respond in a timely fashion.

Multi-level user rights

The system can be accessed by a few authorized personnel with different access rights to heighten security so some parts of the application are secured and accessible only to the selected few.

For cloud technology, the development is fast and constant and the developers have to keep up with the pace and continuously provide value-added features to stay with the trend or progress of the industry. For EpiCamera, we have lined up a few future developments which include face detection and recognition, social media interactions, advanced mobile applications, advanced video analytics and Internet of things to be interconnected with Epicamera.

EpiCamera service price starts at USD4 per 500MB of storage space and for every 1 additional GB, it is priced at USD4. Determine the amount of space storage that your company requires and subscribe based on the requirements. Scale it just right so there is no waste of resources and you can always revisit and review the requirements as and when needed. To try EpiCamera, just sign up with us and you will automatically get 3 months service for free up with 100MB of free storage space. Once you have decided to be a paid subscriber, migration of data is easy.

MAKE EPICAMERA YOUR PRODUCT

IP Cameras and webcam suppliers need to tap on this opportunity and extend the services of EpiCamera to clients whom lack proper infrastructure to contain video surveillance data. Introduce them to EpiCamera services to earn residual income.

Find out more:
http://www.epicamera.com/dealer_tips

Fingerprint and Card
Access Control & Time Attendance Model

FingerTec access control devices are specifically made to manage door accessibilities at your work or home area. These access control models are able to support fingerprint, card, password, or any combination of the three methods as a means of controlling access in a secured area. All FingerTec access control and time attendance models come with a complimentary copy of the powerful *Ingress* software to implement a more advanced access control system. *Ingress* can also be substituted with the *TCMS V2* software for customers that mainly require time attendance functions.

SPECIFICATIONS

MODEL	AC900	R2	R3	R2c (Slave)	H2i	Q2i	i-Kiosk 100 Plus
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	In-mould labelling (IML), poly carbonate (PC) & (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner
MICROPROCESSOR	400 MHz	400 MHz	400 MHz	Managed by master	300 MHz	800 MHz	600 MHz
MEMORY	128 MB flash memory & 32 MB SDRAM	128 MB flash memory & 32 MB SDRAM	256 MB flash memory & 32 MB SDRAM	Managed by master	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 64 MB SDRAM	256 MB flash memory & 64 MB SDRAM
ALGORITHM	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 10.0	Supports BioBridge VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0/VX 10.0
DIMENSION (L X W X H), mm	91 x 40 x 190	94 x 50 x 189	78 x 32 x 190	64 x 42 x 135	78 x 50 x 150	200 x 56 x 160	260 x 70 x 320
STORAGE							
• Fingerprint templates	1500	3000	3000	Storage in master terminal	1500	10000	10000
• Transactions	100000	120000	100000	Storage in master terminal	100000	200000	200000
ENROLLMENT & VERIFICATION							
• Methods	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) card & password	Fingerprint (1:1, 1:N) card & password	Fingerprint (1:N) & card	Fingerprint & card	Fingerprint (1:1, 1:N), card & password	Fingerprint (1:1, 1:N), card & password
• Recommended fingerprint per user ID	2	2	2	Managed by master	2	2	2
• Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle
• Verification time (sec)	< 1	< 1	< 1	Managed by master	< 1	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001	< 0.0001	Managed by master	< 0.0001	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1	< 1	Managed by master	< 1	< 1	< 1
CARD TECHNOLOGY							
• RFID: 64-bit, 125kHz	✕	Yes	Yes	Yes	Yes	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	✕	Made to order	Made to order	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	Made to order	N/A	✕	Made to order	Made to order	Made to order
COMMUNICATIONS							
• Method	TCP/IP, RS232, RS485	TCP/IP, RS232, RS485, USB disk	TCP/IP, RS232, RS485, USB disk	RS485	TCP/IP, RS485, USB disk	TCP/IP, RS232, RS485, USB disk *(Optional WiFi, GPRS & 3G)*	TCP/IP, RS232, RS485, USB disk & WiFi
• Baud rates	9600~115200	9600~115200	9600~115200	✕	9600~115200	9600~115200	9600~115200
• Wiegand	26-bit output	26-bit input/output	26-bit input/output	✕	26-bit input/output	26-bit input/output	26-bit input/output
OPERATING ENVIRONMENT							
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 12V 3A	DC 12V 3A	DC 12V 3A	Managed by master	DC 12V 3A	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE							
• Siren	✕	✕	Yes (relay output)	✕	✕	Built-in *(Optional External)*	Built-in
• Work codes	Yes	Yes	Yes	✕	✕	Yes	Yes
MULTIMEDIA							
• Voice	✕	Yes	Yes	✕	Yes	Yes	Yes
• Display	Black and white	Black and white	2.4" color LCD	✕	✕	3.5" 65k color TFT screen	8.0" 65k color TFT touch screen panel
• Short messaging	✕	Yes	Yes	✕	✕	Yes	Yes
• Music playback	✕	✕	✕	✕	✕	✕	Yes
• Movie playback	✕	✕	✕	✕	✕	✕	Yes
• Internal backup battery	✕	✕	✕	✕	✕	✕	Yes (DC 12V 2000mAh)
ACCESS CONTROL							
• EM lock driving output	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output
• Alarm output	NO	NO/NC	NO/NC	Managed by master	NO	NO/NC	NO/NC
• Anti passback	✕	Yes	Yes	Managed by master	Yes	Yes	Yes

N/A = Not Applicable | All master terminals come packaged with FingerTec software.

Fingerprint
Time Attendance Model

FingerTec time attendance biometric models are ideal for most companies that are looking to track, monitor, and analyze staff attendance effectively. Sturdy in design, all the models come with a complimentary copy of the comprehensive attendance software, *TCMS V2*, or it can be used with the changeable applications, *TimeTec Web* and *TimeTec Cloud*, for more elaborate and extensive management features.

SPECIFICATIONS

MODEL	TA300	TA500	AC100C	TA100C	TA200 Plus
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS) & Polycarbonate (PC)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner	Non coated optical scanner
MICROPROCESSOR	400 MHz	360 MHz	800 MHz	800 MHz	800 MHz
MEMORY	8 MB flash memory	128 MB flash memory & 16 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 32 MB SDRAM
ALGORITHM	BioBridge VX 9.0 / VX 10.0	BioBridge VX10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0
DIMENSION (L X W X H), mm	160 x 120 x 127	184 x 38 x 134	195 x 48 x 144	190 x 52 x 140	200 x 56 x 160
STORAGE					
• Fingerprint templates	1500	2000	8000	8000	10000
• Transactions	50000	80000	200000	200000	200000
ENROLLMENT & VERIFICATION					
• Methods	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) card & password
• Recommended fingerprint per user ID	2	2	2	2	2
• Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle
• Verification time (sec)	< 1	< 1	< 1	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1	< 1	< 1	< 1
CARD TECHNOLOGY					
• RFID: 64-bit, 125kHz	Made to order	Made to order	✕	Yes *(TA100C-R only)*	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order	✕	Made to order *(TA100C-MF only)*	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	✕	✕	Made to order *(TA100C-HID only)*	Made to order
COMMUNICATIONS					
• Method	USB cable / connection	TCP/IP, USB disk	TCP/IP, USB disk *(Optional RS232 & RS485)*	TCP/IP, USB disk *(Optional RS232, RS485, WiFi & GPRS)*	TCP/IP, USB disk *(Optional RS232, RS485, POE, WiFi & GPRS, 3G only applicable to non-POE devices)*
• Baud rates	✕	✕	9600~115200	9600~115200	9600~115200
OPERATING ENVIRONMENT					
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 5V 800mA	DC12V 1.5A	DC 5V 2A	DC 5V 2A	DC 12V 3A, DC 5V 2A *(POE)*
TIME ATTENDANCE					
• Siren	✕	Yes	✕	Built-in and external	Built-in *(Optional External)*
• Work codes	✕	Yes	Yes	Yes	Yes
MULTIMEDIA					
• Voice	Yes	Yes	Yes	Yes	Yes
• Display	Black and white	2.8" color TFT screen	3.0" 65k color TFT screen	3.0" 65k color TFT screen	3.0" 65k color TFT screen
• Short messaging	✕	Yes	Yes	Yes	Yes
• Music playback	✕	✕	✕	✕	✕
• Movie playback	✕	✕	✕	✕	✕
• Internal Backup Battery	Yes (DC5V 1300mAh)	Yes (2-hours working, 4-hours standby)	✕	✕	✕

* N/A = Not Applicable | All master terminals come packaged with FingerTec software.

RFID Card
Access Control & Time Attendance Model

FingerTec card technology models are suitable for companies that prefer to use practical, convenient tokens during verification to track, monitor and analyze staff attendance. RFID is the default technology employed, however, Mifare and HID card technologies are also available upon request. Mix and match between the master and slave models for a cost effective IN-OUT access control solution. FingerTec door access master models come with a complimentary copy of the advanced door access software, *Ingress*, and the TimeLine 100 model comes with *TCMS V2* software.

Fingerprint & Card
Simple Door Access Model

FingerTec non-communicative readers are simple plug-and-play door access terminals that require no additional software to function. Offering fingerprint, card and/or password, these independent readers are suitable for small businesses and homes.

SPECIFICATIONS

MODEL	TimeLine 100	Kadex	m-Kadex	i-Kadex (Slave)	k-Kadex (Slave)
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Polycarbonate	Polycarbonate	Acrylonitrile butadiene styrene (ABS)
MICROPROCESSOR	400 MHz	400 MHz	400 MHz	Managed by master	Managed by master
MEMORY	8 MB flash memory & 32 MB SDRAM	8 MB flash memory & 32 MB SDRAM	4 MB flash memory & 32 MB SDRAM	Managed by master	Managed by master
ALGORITHM	BioBridge VX 9.0	BioBridge VX 9.0	BioBridge VX 9.0	Managed by master	Managed by master
DIMENSION (L X W X H), mm	190 x 50 x 140	92 x 49 x 137	92 x 29 x 134	55 x 15 x 100	75 x 20 x 115
STORAGE					
• Cards	10000	30000	30000	Storage in master	Storage in master
• Transactions	30000	50000	50000	Storage in master	Storage in master
ENROLLMENT & VERIFICATION					
• Methods	Card & password	Card & password	Card	Card	Card & password
• Card per user ID	1	1	1	Managed by master	Managed by master
• Reading distance, mm	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID), 30 ~ 50 (Mifare)
• Verification time (sec)	< 1	< 1	< 1	Managed by master	Managed by master
CARD TECHNOLOGY					
• RFID: 64-bit, 125kHz	Yes	Yes	Yes	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	Made to order	Made to order	✕	✕
COMMUNICATIONS					
• Method	TCP/IP, USB disk (Optional RS232 & RS485)	TCP/IP, RS232, RS485, USB disk	TCP/IP, RS232, RS485, USB disk	Wiegand	Wiegand
• Baud rates	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	✕	✕
• Wiegand	✕	26-bit input/output	26-bit input/output	26-bit output	26-bit output
OPERATING ENVIRONMENT					
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	-10 ~ 70	-10 ~ 70
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 5V 2A	DC 12V 2A	DC 12V 3A	DC 12V 1A	DC 12V 1A
TIME ATTENDANCE					
• Siren	Built-in and external	✕	✕	✕	✕
• Work codes	Yes	Yes	✕	✕	✕
MULTIMEDIA					
• Voice	Yes	Yes	✕	✕	✕
• Display	Black and white	Black and white	✕	✕	✕
• Short messaging	Yes	Yes	✕	✕	✕
• Music playback	✕	✕	✕	✕	✕
• Movie playback	✕	✕	✕	✕	✕
• Internal backup battery	✕	✕	✕	✕	✕
ACCESS CONTROL					
• EM lock driving output	✕	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master	Managed by master
• Alarm output	✕	NO/NC	NO/NC	Managed by master	Managed by master
• Anti passback	✕	Yes	Yes	Managed by master	Managed by master

* N/A = Not Applicable | All master terminals come packaged with FingerTec software.

SPECIFICATIONS

MODEL	H3i	s-Kadex
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Non coated optical scanner	✕
MICROPROCESSOR	400 MHz	400 MHz
MEMORY	32 MB flash memory	32 MB flash memory
ALGORITHM	BioBridge VX 10.0	BioBridge VX 10.0
DIMENSION (L X W X H), mm	88 x 25 x 88	88 x 25 x 88
STORAGE		
• Fingerprint templates	200	✕
• Cards	500	500
• Passwords	8 sets	8 sets
ENROLLMENT & VERIFICATION		
• Methods	Fingerprint (1:1, 1:N), card & password	card & password
• Recommended fingerprint per user ID	1	✕
• Fingerprint placement	Any angle	✕
• Password length (digits)	Max 4	Max 4
• Verification time (sec)	< 1	< 1
• FAR (%)	< 0.0001	✕
• FRR (%)	< 1	✕
CARD TECHNOLOGY		
• RFID: 64-bit, 125kHz	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	✕
OPERATING ENVIRONMENT		
• Temperature (°C)	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80
• Power input	DC 12V 3A	DC 12V 3A
ACCESS CONTROL		
• EM lock driving output	DC 12V/relay output	DC 12V/relay output
• Alarm output	NO only	NO only
• Door sensor	Yes (NO/NC)	Yes (NO/NC)
GROUP VERIFY TYPE		
• Password only	Yes	Yes
• Card only	Yes	Yes
• Fingerprint only	Yes	✕
• Fingerprint card or password	Yes	Yes (Card or password only)
• Card and password	Yes	Yes
• Fingerprint and password	Yes	✕

Face Recognition
Access Control & Time Attendance Model

FingerTec advanced face recognition technology offers a contactless mode of verification for time attendance and door access control with optional card technology as well. Scan a face to get accurate verification in split seconds. FingerTec access control and time attendance models come with a complimentary copy of the advanced access control software, *Ingress*, which can be substituted with *TCMS V2* software for customers that mainly require time attendance functions. Suitable for application in areas such as hospitals, labs, workshops, etc.

Logical Fingerprint
PC Access Model

FingerTec logical access fingerprint readers (OFIS) are designed to work with our single sign-on enterprise software application and developer's tools (SDKs) for integration with select applications. It comes complimentary with the OFIS Gateway software, providing a quicker and safer way to use fingerprints for PC login authentication. OFIS TA for attendance system is also available for purchase.

SPECIFICATIONS

MODEL	Face ID 2	Face ID 3	Face ID 4	Face ID 4d
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS) & acrylic	Acrylonitrile butadiene styrene (ABS) & acrylic	Acrylonitrile butadiene styrene/ polycarbonate blend	
TYPE OF SCANNER	Hi-res infrared camera & fingerprint scanner	High resolution infrared camera	High resolution infrared camera	High resolution infrared camera
MICROPROCESSOR	800 MHz	800 MHz	800 MHz	800 MHz
MEMORY	256 MB Flash Memory & 128 MB SDRAM	256 MB Flash Memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM
ALGORITHM	Face BioBridge VX 8.0, FP BioBridge VX9.0/10.0	Face BioBridge VX 8.0	Face BioBridge VX 8.0	Face BioBridge VX 8.0
DIMENSION (L X W X H), mm	207 x 120 x 145	86 x 62 x 218	148 x 148 x 122	148 x 148 x 122
STORAGE				
• Fingerprint templates	10000	✕	✕	✕
• Face templates	1200	1500	800	800
• Cards	10000	10000	10000	10000
• Transaction logs	200000	100000	100000	100000
ENROLLMENT & VERIFICATION				
• Methods	Face (1:1, 1:N), fingerprint (1:1, 1:N), card & password	Face (1:1, 1:N), card & password	Face (1:1, 1:N), card & password	Face (1:1, 1:N), card & password
• Recommended fingerprint per user ID	2	✕	✕	✕
• Fingerprint placement	Any angle	✕	✕	✕
• Verification time – Fingerprint, sec	< 1	✕	✕	✕
• Verification time – Face, sec	< 2	< 2	< 2	< 2
• Fingerprint	FAR < 0.0001%, FRR < 0.1%	✕	✕	✕
• Face	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%
CARD TECHNOLOGY				
• RFID: 64-bit, 125kHz	Yes	Yes	Yes	Yes
• MIFARE: MFIS50/S70, 13.56MHz	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	Made to order	✕	✕
COMMUNICATIONS				
• Method	TCP/IP, RS232, RS485, USB disk *(Optional WiFi, GPRS & 3G)*	TCP/IP, RS232, RS485, USB disk *(Optional WiFi)*	TCP/IP, USB disk, USB client *(Optional WiFi)*	TCP/IP, USB disk, USB client *(Optional WiFi)*
• Baud rates	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200
• Wiegand	26-bit output	26-bit input/output	✕	✕
OPERATING ENVIRONMENT				
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC12V 3A	DC12V 3A	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE				
• Siren	Built-in and external	Built-in and external	Built-in	Built-in and external
• Work Codes	Yes	Yes	Yes	Yes
• Fast transaction checking	Yes	Yes	Yes	Yes
MULTIMEDIA				
• Greeting voice	Yes	Yes	Yes	Yes
• Display	4.3" 65K color TFT touch screen panel	3.0" 65K color TFT touch screen panel	3.0" 65K color TFT touch screen panel	3.0" 65K color TFT touch screen panel
• Photo-ID	Yes	Yes	Yes	Yes
• Short messaging	Yes	✕	Yes	Yes
• Day Light Saving Timer	Yes	Yes	Yes	Yes
• Internal Backup Battery	Yes (DC12V, 2000m Ah)	✕	✕	✕
ACCESS CONTROL				
• EM lock driving output	DC12V / relay output	DC12V / relay output	✕	DC 12V / relay output
• Alarm output	NO/NC	NO	✕	NO/NC
• Antipassback	✕	✕	✕	✕

SPECIFICATIONS

MODEL	OFIS-X	OFIS-Y
ALGORITHM	BioBridge VX 9.0 / VX 10.0	
SUPPORTING OS	32-bit Windows XP, Windows Vista, Windows 7	32/64-bit Windows XP, Windows Vista, Windows 7, Windows 8, Windows Server 2008
PIXEL RESOLUTION	512 dpi (average x, y over the scanning area)	
SCAN CAPTURE AREA, MM	17 x 26	15 x 18
SCAN DATA	8-bit grayscale (256 levels of gray)	
READER SIZE (APPROXIMATE) (L X W X H), MM	87 x 58 x 24	45 x 78 x 40
COMPATIBILITY	USB 1.0, 1.1 and 2.0 (Full speed) specifications	
OS/BROWSER	MS Windows/ MS Internet Explorer (IE 9)	
POWER SUPPLY	5.0V +/- 0.25V USB supply	
OPERATING TEMPERATURE (°C)	0 – 55	0 – 55
OPERATING HUMIDITY (%)	20 – 80 non-condensing	
STANDARD FCC CLASS	FCC Class B, CE, USB	
USAGE	Indoor, home and office use	

FEATURES

• Small form factor
• Excellent scan quality
• Encrypted fingerprint data
• Latent print rejection
• Counterfeit finger rejection
• Rotation invariant
  - *Recognize dry, moist, or rough fingerprints*
  - *Compatible with FingerTec's standalone readers and software products*
  - *Compatible with Windows XP, Windows Vista, Windows 7, Windows 8 Windows Server 2003 and Windows Server 2008*
  .

APPLICATIONS

• Desktop computer security
• Registration station for users
• Mobile PCs
• Custom applications
• Home and office use

* N/A = Not Applicable | All master terminals come packaged with FingerTec software.

Fingerprint
Mechanical Lock Model

FingerTec mechanical lock models present advanced and sophisticated fingerprint door locks, suitable for use in important rooms, banks, labs and hotels. By default, RFID card technology is embedded in the models for an added verification option. Each model comes with a complimentary copy of *Ingress* advanced access control software.

Controller
Security Hub for Smart Control

The FingerTec controllers, Ingressus I and II, are designed to provide accesscontrol functions for 1 and 2-door environments and Ingressus IV is designed for a 4-door environment. Ingressus can be used in combination with FingerTec slave readers and accessories for a more economical and flexible door access control solution. Each controller comes complimentary with FingerTec's advanced access control software, *Ingress.*

SPECIFICATIONS

MODEL	Keylock 7700	Keylock 8800
SURFACE FINISHING	Zinc alloy with brushed nickel effect	Zinc alloy
TYPE OF SCANNER	Optical fingerprint scanner	
MICROPROCESSOR	400 MHz	400 MHz
MEMORY	32 MB flash memory	4 MB flash memory
ALGORITHM	BioBridge VX 10.0	BioBridge VX 9.0
RESOLUTION OF SCANNER (dpi)	560	560
DIMENSION (L X W X H), mm	150 x 93 x 268	150 x 195 x 310
• Thickness of door (mm)	35-70	35-55
• Door latch type	Single tongue *(Ky 7700S)* Double tongue *(Ky 7700D)*	Mortise, 3-tongue
• Inner lock switch	Yes	Yes
STORAGE		
• Fingerprint templates	500	500
• Passwords	100	100
• Cards	100	100
• Transactions	30000	30000
ENROLLMENT & VERIFICATION		
• Methods	Fingerprint (1:1, 1:N), card & password	
• Recommended fingerprint per user ID	2	2
• Fingerprint placement	Any angle	Any angle
• Verification time (sec)	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1
• Password length (digits)	6	8
CARD TECHNOLOGY		
• RFID: 64-bit, 125kHz	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	Made to order
COMMUNICATIONS		
• Method	USB disk	USB disk
• Baud rates	✕	✕
• Wiegand	✕	✕
OPERATING ENVIRONMENT		
• Temperature (°C)	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80
• Power input	4 x 1.5V AA battery for 4000 operations	
• Power consumption – static (uA)	< 35	< 40
• Power consumption – activity (mA)	< 150	< 100
• Power consumption – driving (mA)	< 200	< 400
• Antistatic voltage (V)	> 1500	> 1500
• Low battery warning voltage (V)	< 4.5	< 4.67
BACKUP UNLOCK MECHANISM	Battery & mechanical key	

* N/A = Not Applicable | All master terminals come packaged with FingerTec software.

SPECIFICATIONS

| MODEL	Ingressus I	Ingressus II	Ingressus IV
BASIC			
• Dimension (L X W X H), mm	186 x 106 x 36		226 x 106 x 36
• Power input	12V DC		
• Operating temperature (°C)	0 - 55		
• Operating humidity (%)	10 - 80		
• CPU	32-bit, 400MHz		
• Flash memory (MB)	128		
• SDRAM (MB)	32		
• Polarity protection	Yes		
STORAGE			
• Fingerprints	3000		
• Cards	30000		
• Passwords	30000		
• Transactions	100000		
COMMUNICATIONS			
• Communications with server	TCP/IP, RS485		
• Quantity of terminal	2	4	4
• Communication with terminals	2 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) *(max 2 units)*	4 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) *(max 4 units)*	4 x 26-bit Wiegand input. Each for 1 slave terminal (1 x RS485 input to support RS485 network) *(max 8 units)*
INPUT			
• Push release button	1	2	4
• Door sensor	1	2	4
• AUX	1	2	4
• Types of AUX input supported	Motion detector, passive DIR detector, curtain passive infrared detector, pet immunity PIR detector, two beam digital active infrared detector, heat detector		
OUTPUT			
• Door lock (12VDC 10A form C relay)	1	2	4
• AUX output (30VDC 2A form C relay)	1	2	4
• Types of AUX output supported	Gas detector and compatible sensors, Piezo strobe siren, electronic siren		
ACCESS CONTROL FEATURES			
• Main Features	Door opening time (0-999s), Inter-locking (Inggressus II & IV only), Anti-pass back (Local only), Multi card unlocking, First card unlocking, Time zone (50), Holiday time zone, Permanent door release/lock time zone, Day light saving time zone, Continuous verification of users		
• Security Features	Door force open alarm, Door open time out alarm, Fire linkage, Duress alarm, Door status and event (51 types)		

Hard.ware Selection Guide

FingerTec has an extensive range of biometric and card products. This guide serves as initial tool for you to compare it against your requirements and budget. Once you have decided on the models you want or if you have any further questions, email us at info@fingertec.com for detailed discussions. FingerTec pledges to make things easy for you, always.

MODEL / FEATURE	METHOD				LCD DISPLAY		COMMUNICATION						FUNCTIONALITY		Bundled Software	Price Range
	Fingerprint	Face	Card	Pasword	Black & White	Color	RS232/RS485	TCP/IP	WiFi/GPRS	3G	USB	Wiegand	Time Attendance	Door Access		
Fingerprint Time Attendance Model																
TA300	✓	×	A	✓	✓	×	×	×	×	×	✓	×	✓	×	TCMS V2	★
TA500	✓	×	A	✓	×	✓	×	✓	×	×	✓	×	✓	×	TCMS V2	★
AC100C	✓	×	×	✓	×	✓	A	✓	A	×	✓	×	✓	×	TCMS V2	★★
TA100C	✓	×	×	✓	×	✓	A	✓	A	×	✓	×	✓	×	TCMS V2	★★★
TA100C-R	✓	×	✓	✓	×	✓	A	✓	A	×	✓	×	✓	×	TCMS V2	★★★
TA200 PLUS	✓	×	✓	✓	×	✓	A	✓	A	A	✓	×	✓	×	TCMS V2	★★★★
TA200 PLUS (POE)	✓	×	✓	✓	×	✓	A	✓	A (WiFi only)	×	✓	×	✓	×	TCMS V2	★★★★
Fingerprint Access Control & Time Attendance Model																
AC900	✓	×	×	✓	✓	×	✓	✓	×	×	×	✓	✓	✓	Ingress	★★
R2	✓	×	✓	✓	✓	×	✓	✓	×	×	✓	✓	✓	✓	Ingress	★★★
R3	✓	×	✓	✓	×	✓	✓	✓	×	×	✓	✓	✓	✓	Ingress	★★★
R2c*	✓	×	✓	×	×	×	RS485 only	×	×	×	×	×	×	×	×	★
H2i	✓	×	✓	×	×	×	RS485 only	✓	×	×	✓	✓	✓	✓	Ingress	★★
Q2i	✓	×	✓	✓	×	✓	✓	✓	A	A	✓	✓	✓	✓	Ingress	★★★★
i-Kiosk 100 Plus	✓	×	✓	✓	×	✓	✓	✓	✓ (WiFi) A (GPRS)	×	✓	✓	✓	✓	Ingress	★★★★★
RFID Card Access Control & Time Attendance Model																
TimeLine 100	×	×	✓	✓	✓	×	A	✓	×	×	✓	×	✓	×	TCMS V2	★★★
Kadex	×	×	✓	✓	✓	×	✓	✓	×	×	✓	✓	✓	✓	Ingress	★★★
m-Kadex	×	×	✓	×	×	×	✓	✓	×	×	✓	✓	✓	✓	Ingress	★★
k-Kadex*	×	×	✓	✓	×	×	×	×	×	×	×	✓	×	×	×	★
i-Kadex*	×	×	✓	×	×	×	×	×	×	×	×	✓	×	×	×	★
Face Recognition Access Control & Time Attendance Model																
Face ID 2	✓	✓	✓	✓	×	✓	✓	✓	A	A	✓	✓	✓	✓	Ingress	★★★★★
Face ID 3	×	✓	✓	✓	×	✓	✓	✓	A (WiFi only)	×	✓	✓	✓	✓	Ingress	★★★★
Face ID 4	×	✓	✓	✓	×	✓	×	✓	A (WiFi only)	×	✓	×	✓	×	TCMS V2	★★★
Face ID 4d	×	✓	✓	✓	×	✓	×	✓	A (WiFi only)	×	✓	×	✓	✓	Ingress	★★★
Fingerprint Mechanical Lock Model																
Keylock 7700	✓	×	✓	✓	✓	×	×	×	×	×	✓	×	✓	✓	Ingress	★★★
Keylock 8800	✓	×	✓	✓	✓	×	×	×	×	×	✓	×	✓	✓	Ingress	★★★
Fingerprint Logical Access Model																
OFIS Series	✓	×	×	×	×	×	×	×	×	×	✓	×	×	×	Gateway	★
Fingerprint & Card Simple Door Access Model																
H3i	✓	×	✓	✓	×	×	×	×	×	×	×	×	×	✓	×	★
s-Kadex	×	×	✓	✓	×	×	×	×	×	×	×	×	×	✓	×	★
Controller Security Hub for Smart Control																
Ingressus I	✓	×	✓	✓	×	×	RS485 only	✓	×	×	×	✓	✓	✓	Ingress	★★
Ingressus II	✓	×	✓	✓	×	×	RS485 only	✓	×	×	×	✓	✓	✓	Ingress	★★★
Ingressus IV	✓	×	✓	✓	×	×	RS485 only	✓	×	×	×	✓	✓	✓	Ingress	★★★★

* = Slave reader | ✓ = Available | × = Not available | A = Available Upon Request
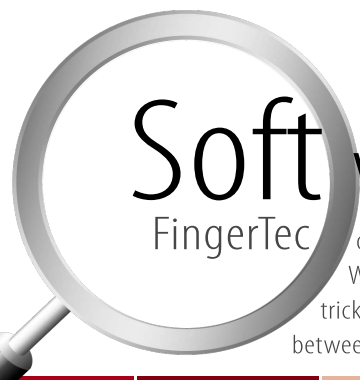
Software Selection Guide

FingerTec offers a variety of different softwares to suit the different business needs of our clients. With all the different requirements, comparing the different software functions can be a little tricky. So here's a selection guide to help you out with the details, similarities, and differences between our offered solutions.

MODEL / FEATURE	Ready Software or SDK	FUNCTIONALITY Time Attendance	Door Access	Report	Export Format	Web-based Application	Database Engine	COMPATIBILITY Hardware	OS/Browser	Language	Price
WINDOWS APPLICATION											
ingress	Ready Software	✓ Advanced	✓ Advanced	30	Csv, txt and xls	×	MS Access/ MySQL	All FingerTec hardware & Ingressus controller except H3i & s-Kadex	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	English, Arabic, Chinese Traditional / Simplified, Spanish, Thai, Russian, Malay, German & Indonesian	Bundled with hardware terminals
TCMS V2	Ready Software	✓ Advanced	✓ Simple	30	Csv, txt and xls	× Only TCMS V2 Viewer module	Native Foxpro Database	All FingerTec hardware, except H3i, s-Kadex & Ingressus controller		English, Arabic, Arabic (Kuwait), Chinese Traditional / Simplified, Persian, French, German, Indonesian, Italian, Korean, Lithuanian, Malay, Polish, Portuguese, Portuguese (Brazil), Russian, Spanish, Thai, Turkish, Vietnamese	
FOUNDER DiGiPAY	Ready Software	Payroll Software (Malaysia Market), TCMS V2 Compatible		18	×	×	Native Foxpro Database	N/A		English, Malay, Chinese Simplified	Payable
CLOUD-BASED APPLICATION											
timeTec cloud	Ready System	✓	×	31	Csv, txt and xls	✓	MySQL	Face ID 2/3/4/4d,AC900, R2, R2/R2c, H2i, Kadex, AC100C, TA100C, TA100TC, TA200 Plus, i-Kiosk 100 Plus, Q2i	Safari, Chrome, Firefox, Internet Explorer, Android and iOS Apps	English, Arabic, Chinese Traditional / Simplified, Indonesian, Spanish	Subscription
EpiCamera	Ready System	Cloud Surveillance, Video Surveillance as a Service (VSaaS)		1	zipped jpg	✓	MySQL	All IP Cameras that support FTP features.		English	Subscription
SOFTWARE TOOLS											
FTDP FINGERTEC DATA PROCESSOR	Ready Software	To manage and edit user, fingerprint, log and reader information		×	Txt, xls xml, html	×	MS Access/ MS SQL	All FingerTec hardware, except H3i, s-Kadex & Ingressus controller	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	English	Bundled with hardware terminals
Info Manager Simple User Management	Ready Software	To manage user data and fingerprint information		×	×	×	MS Access	OFIS scanner, Mifare card writer		English	
GATEWAY	Ready Software	Single Sign On PC Login Security		×	×	×	×	OFIS scanner	Windows 2000, XP, Vista, Windows 7, Windows 8	English, Chinese Traditional / Simplified, Japanese	Bundled with OFIS scanner
SDK (www.fingertec.com/developerprogram)											
BioBridge SDK	SDK : To integrate FingerTec terminals to any third party system	✓	✓	N/A	N/A	×	N/A	All models except Keylock, OFIS, H3i, s-Kadex & Ingressus	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	N/A	Free for developers
WEBSTER	SDK : Online web-based platform to consolidate and centralize the db for time attendance	✓	×	N/A	N/A	✓	MySQL	Face ID 2/3/4/4d, AC900, R2, R2/R2c, H2i, Kadex, AC100C, TA100C, TA100TC, TA200 Plus, i-Kiosk 100 Plus, Q2i	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8, Safari, Chrome, Firefox, Internet Explorer	English, Malay, Chinese Simplified,Spanish	Payable
OFIS SDK	SDK: To integrate OFIS scanner with any solutions	N/A	N/A	N/A	N/A	✓	×	OFIS scanner	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8	English	Free for developers
ingressus SDK	SDK: To integrate Ingressus with third party access control software	✓	✓	N/A	N/A	×	×	Ingressus controller	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8	English	Free for developers

✓ = Available | ✕ = Not available | N/A = Not applicable | Online update is available for all FingerTec software.

FINGERTEC

2015 Global Exhibition Schedule
Check our latest exhibition updates at http://info.fingertec.com/exhibitions