



Based on GT-CODE which does not require any hardware, Bizworks aims to build an international platform of trust through www.globaltrust.org and www.globaltrust.com.

Name	Bizworks Co., Ltd. www.bizworks.co.kr
Date of Est.	2002.02.18
Ceo	Mr. Joon-young Park
Employee	26 people
Solution	GT-CODE, GT-Pay, OCR Engine, OfficeAI
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Livestock products
quality assessor
honey certification demo
project member



2016 ICT innovation
grand prize
by Korea ministry of science



2016 Sports Seoul
grand prize of
enterprise



GlobalTrust is

Platform that you can trust

Mobile payment

Check safety

Safe delivery

Gift card / ticket

Rental service

Certification of service

Certification of genuine goods

Tracking distribution history

Check of visit

Verification of document

Verification of identity

Electronic seal



In China, mobile order/payment through QR code

Continuously expanding, due to convenience and reducing payroll costs.

Lately, restaurants that orders are not accepted, but QR order are only available are expanding in China



In China, bike sharing service through QR codes

Scanning QR codes can unlock the sharing bike and pay the fee



In Germany, genuine product certification through QR code

Sennheiser(German) company audio equipment

- genuine product certification

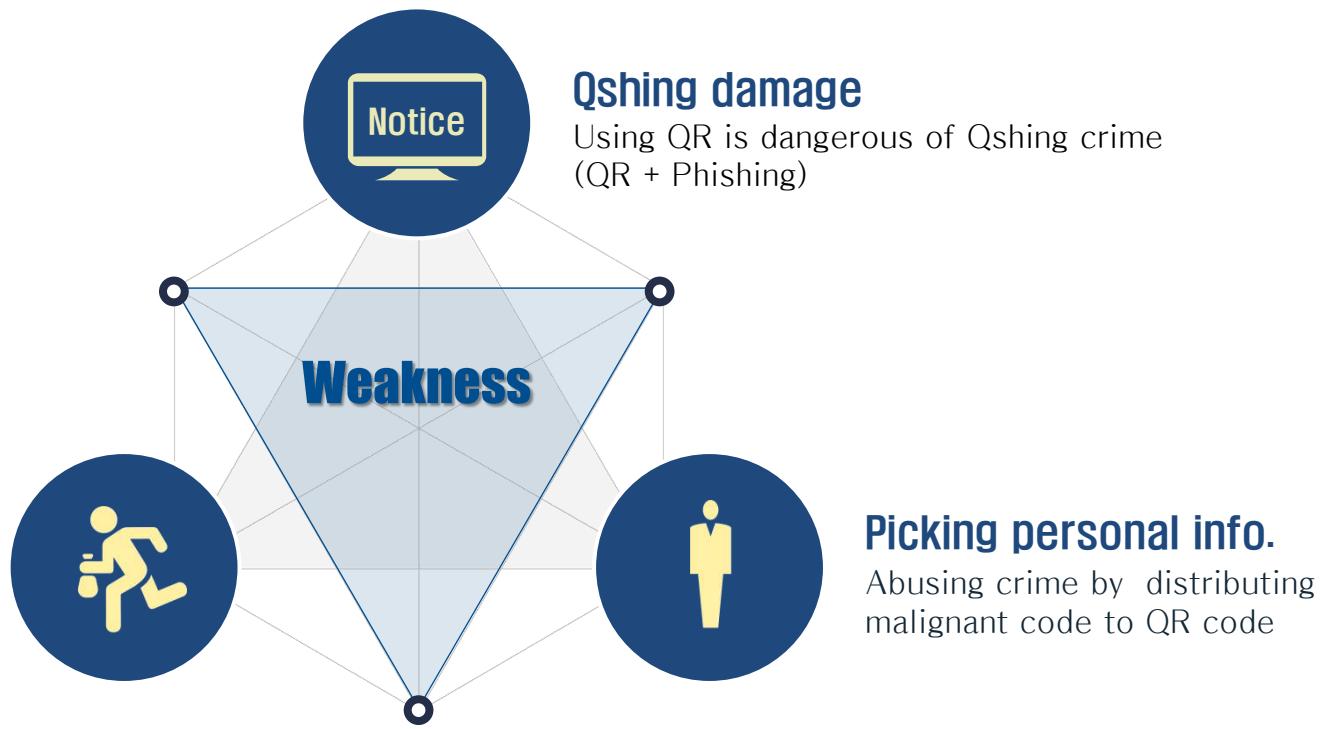


In South Korea, electronic attendance check through QR code

System can verify the attendance by QR code scanning



Due to the weakness of QR code, the issuing bank of China(PBC) **recommended to stop using QR code** immediately, in March 2014.
But still, it is expanding due to the convenience for using



Abuse of crime → QR code can be reproduced and created by anyone



Swapping QR label

A scene in which a criminal overwrites the QR at the store counter with his QR (that created by him) to steal sale money.

Damage by swapping QR code

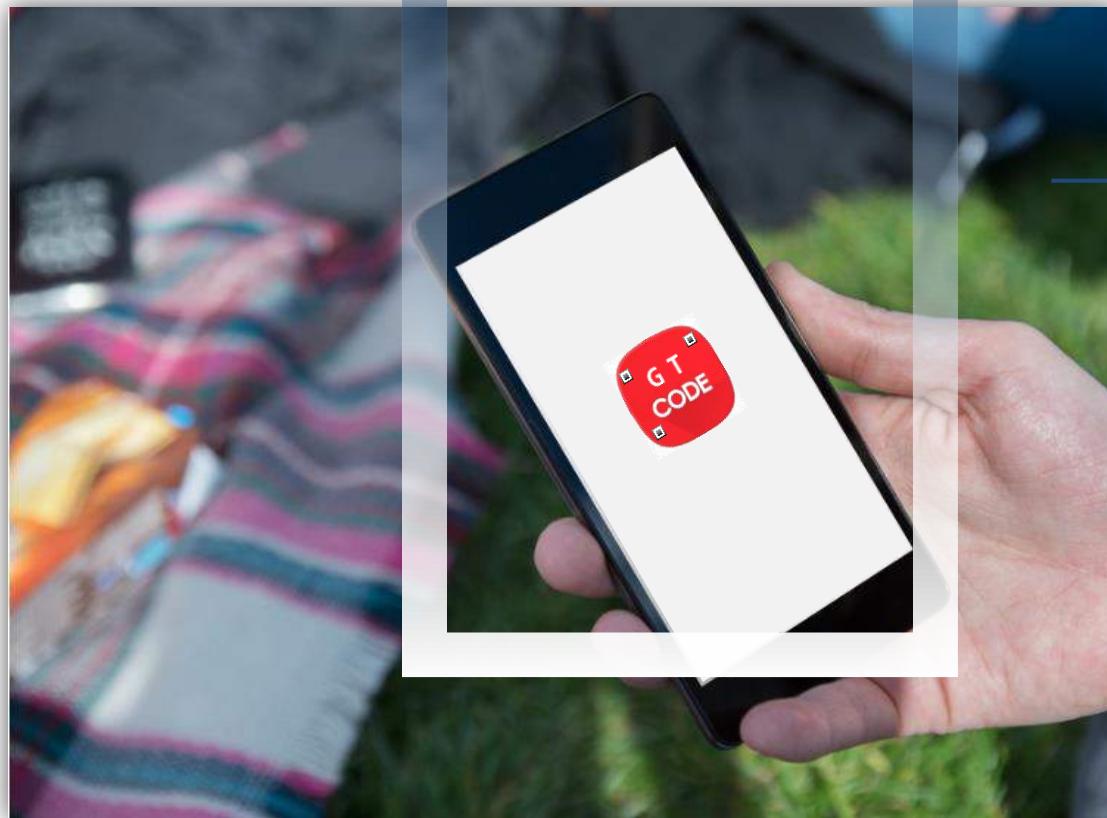
Two Chinese swapped 300stores QR codes into QR code that created by themselves. They stealed about two hundred million Korean won.



Injecting malignant code to QR code

A case that malignant program is installed by scanning a QR code on false discount event page . Be cautious about unreliable and unclear QR.

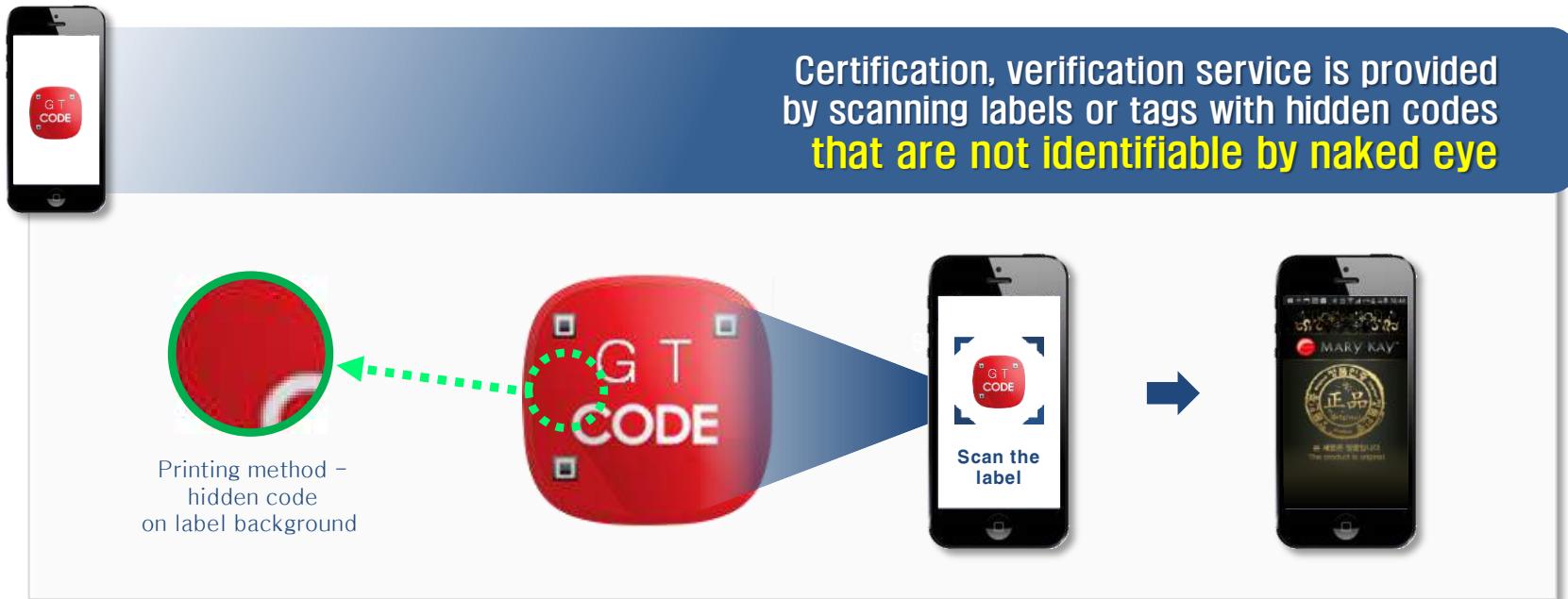
Unable to duplicate and counterfeit – by printed labels and smartphone



GT code

Security code developed by
Bizworks Co., Ltd..
It replaces for existing QR code.

**It can not be cloned because
there is no code exposure, with
private algorithm.**



Not identifiable by naked eye



Fast recognition speed (better than QR)



No Relication
No Forgery



Available on I-phone and Android



Server link method

(Connecting internet after Parshing)

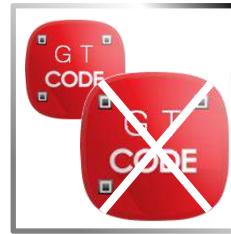


The secure link code GT-Code developed by Bizworks



Technical barrier

Convergence solutions by smartphone control technology and code algorithm and printing technology
(High technological barriers to entry)



Not reproducible

With no code exposure, replication and forgery can not be possible



Storage

Size of 2.5cm x 2.5cm,
including 280 trillion codes



Reducing cost

The label is possible to mass-produce and cheap price by printing method production (Applicable to various fabrics)
It also can print directly on the product packaging.



Recognition speed

Recognition speed is faster than QR.
0.072 seconds (recognition speed)



I-phone and Android

Simultaneous support of all mobile phone. Unlimited support for smartphone platforms.

Comparison to each solution, no need payment terminal



GT code



QR code



NFC tag

Code exposure	Only Bizworks can create with private algorithm. (no identity on naked eye)	Anyone can create of opened algorithm. (identifiable on naked eye)	None
Duplication	100% no duplication	Can be duplicated	100% no duplication
Mobile	I-phone and Android, simultaneous support	I-phone and Android, simultaneous support	Only Android (not available on I-phone)
Price	1. Mass production by printing 2. Need no additional means Reduce costs	Need for additional authentication means (ex. proving location by contacting Wifi) Increase costs	1. High price of NFC tag 2. Need for additional authentication means (for I-phone user) Increase costs

GT pay : Scanning label on the store counter or table for ordering / payment purposes



Store

It can eliminate the concerns about theft of sale money with swapping QR code on store table.

Gt pay is safer than QR code, due to the private code

Customer

It can eliminate the concerns about malignant code.



Due to high possibility of leakage, there is a high risk to use. Because QR code can be created by anyone and by inserting a rogue and malicious code

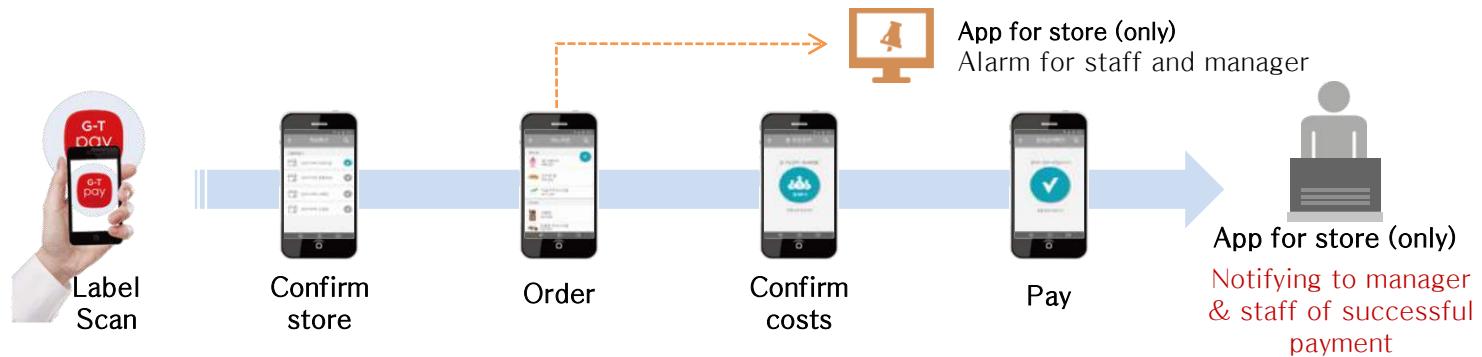
Fintech(payment)



Order and payment



Flow



Before and After



Multiple usages



Label on table
Payment through
scanning



Smartphone screen
Payment through
scanning



Pc screen
Payment through
scanning

Stores(Offline), Smartphone, PC(Online) etc.

It can be applied to any place.

customer only – certification label

Simple certification process and multiple page links



VOID label :
When detach label, it will be destroyed

Customer only – certification label

You can scan the product label, which is based on non-replicable GT code. It offers service to check genuine product/production history / origin / grade

Multiple
uses of
GT app.



GT code has the most advanced technology of existing authentication solutions.

Existing



Scratch (security code)

Easy to counterfeit and forge.
(Due to exposed code)



Laser hologram label

Manufacture technology is common and counterfeit technology is developed, and counterfeit technology barrier is low

Latest



QR code

The QR code is an opened algorithm. Code is exposed, It can not prevent of forgery. There is no inherent improvement in the method combined with the existing scratch method.



RFID tag

RFID labels are highly secure. But it does not proceed on Iphone. It is half technology and Tag cost is more expensive than GT/QR code.

GT code label



**High security
for authentication**

No duplication

no code exposer

No forgery

with private code

No re-use

Void label. when detach label, it will be destroyed.

High barriers to entry

convergence solutions by smartphone control technology and code algorithm and printing technology

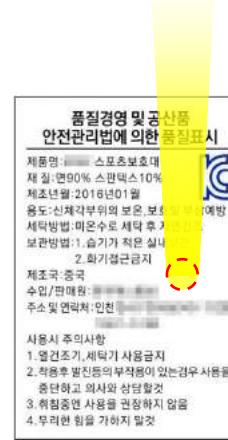
enterprise only – distribution management label

Tracking distribution history solution prevents abnormal distribution/price



Enterprise only – distribution label

A service that tracks the distribution history privately. It is not exposed on the label



micro code on label

Even when label is damaged, it will help to track distribution history due to the micro code on the entire surface of label



For PC – web page of management

- Managing label activation, video and web page links, manager program for logistics linkage management
- When a defect occurs in some product, you can change in real time with recall notification function

Confirmable for check point – solution of check history



Elevator

Elevated Safety



Main agent of manage

Easy for verification



Maintanance

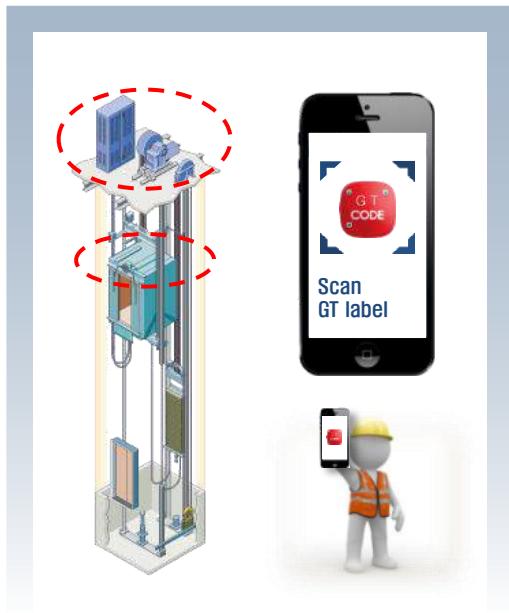
Providing convenience of work such as registration, report, etc.



Attaching GT code label on each check point

- Verification of actual visit/location/check time
- Even with some damage, it can be used but can not be used for desorption

(Void : When detach label, it will be destroyed)



Certification of visit

When visiting elevator car,
machine room, etc.

Scanning attached label
(it will encrypts phone number,
start / end time, etc.)



Phototelegraphy of check

After label scanning, the staff
Should take picture in 1 min.
(Encrypted and saved)

Only photos taken with the GT app
are valid, no false pictures available



Status of management

It records phone number and
transmits to main server

It will help to Identify the number
of management per person and
check staff identity (who repair)

Collateral history management to prevent abusing loans again



Collateral history management

It can build reliable judgment on loan, because it can trace the history of collateral



Attaching the label on collateral



Inspecting before loan / certification by GT code



Proceeding loan (no re-loan)



Bank can often confirm the collateral history on online

Collateral history management



- There are many fraud and crime such as re-security around the globe.
- There are many process to inspect the collateral, bank work burden is increasing (it is not clear of collateral history)



Risk-free loans due to the introduction of collateral history management system through GT-code in cooperation with the financial sector

Confirming invoice by GT-code label instead of recipient information for delivery service



Customer, Partner

- Resolve concerns about exposure to personal information on the invoice.
- Resolve concerns about the recipient information.
- Resolve concerns about false personation.

Delivery company

- No need for identification of customer
- Customer can be certified by simple scanning (also it can certificate the receipt of delivery)

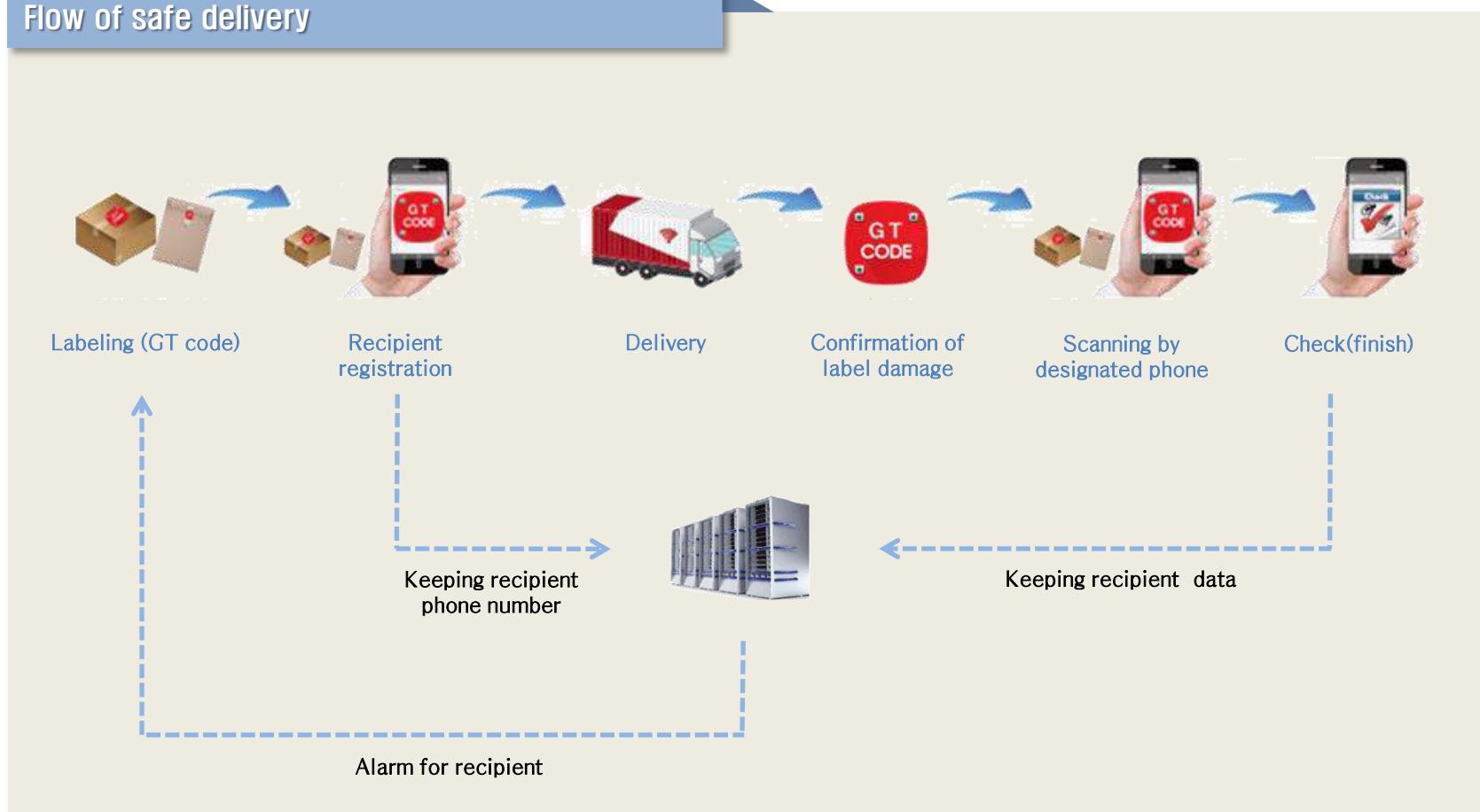


Although currently used, invoice with private can prevent exposure of recipient information. Nonetheless It can not prevent leakage by delivery man who would abuse recipient information.

Gt code can hide all recipient information except the address.

Safe delivery to designated recipient by seal and identification function

Flow of safe delivery



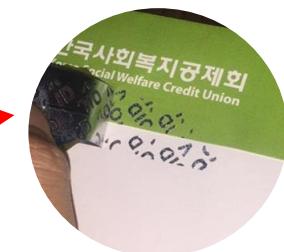
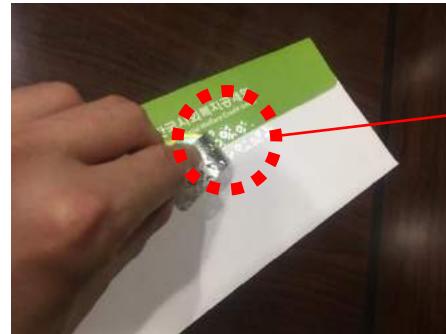
electronic seal system by sticking with GT-CODE label of VOID material



Electronic seal(document)



The existing seal can be confirmed by the naked eye of the recipient.
It can be unsealed with designated smartphone which was registered before shipment.



VOID

It can prevent reuse
(Mean of proving seal)

Scanning the attached label at the designated point for certification



Manager

- Possible to manage unusual facts during visit / inspection through photo shooting.
- Less cost than RFID and terminal and TAG
- Increase in efficiency with real-time reporting and aggregation without the need for separate patrol history reporting

Patrol manager

- Easy operation with smart phone without needing a patrol terminal
- No need to keep log of patrol (automation by digital way)

Certification of visit, patrol



Existing means of certification by QR code have problems. Because QR code can be duplicated, so someone can scan the duplicated QR in other areas than designated place. Then he can be proved of attendance.

Printing the GT-code label on a certificate paper to confirm the authenticity



IOS, CCC



Certification agency

Increased reliability due to forgery prevention

User (certification)

It can prove the employee of the company or Org.



It can prove document publisher on online.
It can be verified whether or not the content is consistent with the online scan

Evaluation of hotel, D&B



Scanning the GT-CODE label or the underlying GT-CODE to verify authenticity



User

It can prove document publisher on online.
It can be verified whether or not the content is consistent with the online scan

Manager

It is possible to update the document on-line and update it in real time.

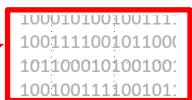
 QR code can be forged up to the online link page, so second verification step is required to verify that the website is correct

Verification of governmental document



Scanning the GT-code label to verify authenticity

Verification of certificates



Scanning the underlying
hidden code to verify

Scanning the GT-CODE label to validate the ticket



User

By Linkpage, Users can access to the information of a theme park's rides info and events

Manager

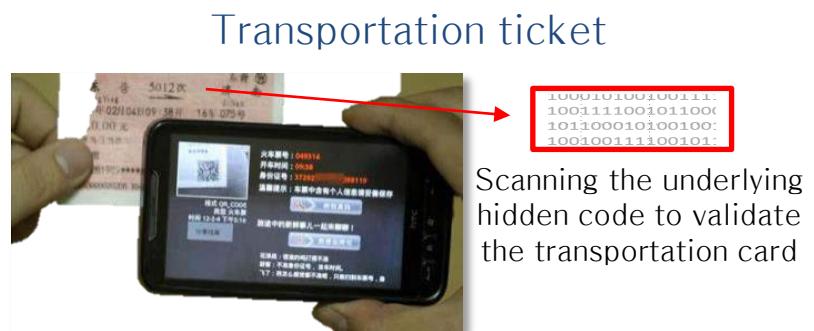
Simply scanning the ticket, the machine automatically verifies whether the ticket has been used or not.
No need to separate tickets from stubs.



There is a high possibility of QR code forgery. 1 Code per 1 product can also be counterfeited, so the counterfeit product is recognized as genuine product



Ticket



Transportation ticket

Scanning the underlying hidden code to validate the transportation card

It can recognize rentals and link to related apps with labels to shared rental items



Manager

Reduced costs by allowing customers to rent and process their own returns without needing a rental manager.

User

It can eliminate concerns about rogue or malicious virus infection

OFO, shared bike



Since anyone can create a QR code, it often happens that the user is overwhelmed by overwriting the malicious code with the inserted QR code. GT-code can not be counterfeited and users can scan with confidence

Using GT-code for employee identification to use for internal / external identification



Customers, partners

Receiving secure service by identifying visitors

Employee

It can prove to the customers that the person is hired by the company.

Manager

It can verify right of access to employee's certificate in real time

ID card for patrol or press



Ensuring customer credibility by scanning the GT code label and verifying the employee's identity and work right on online. It can prevent the impersonation of employee or identity.

High quality service can be proved by scanning emblem attached in the restaurants



Verification Company

Certified restaurants can be proved of Global trust Org member. When customer scan the emblem, they can confirm the information about Global trust member and link web page. It will Improve customer reliability.

Customer

Easy to confirm about member information.
Easy to compare with another restaurants

Hotel, accommodations, restaurants



The GT code is not limited to authenticating the certificate. Through GlobalTrust, we will proceed to issuing certificates through overall and professional evaluation of service companies.

THANK YOU

genuine certification,
distribution history management,
mobile payment,
counterfeit discrimination,
visit / identity verification,
document authenticity verification,
screen OCR engine,
image recognition
electronic seal solution



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