### **Build your Business**

Powered by BC's digital commerce technology

BCcard

### About Us

BC is South Korea's biggest payment processing company and local brand network headquartered in Seoul, South Korea. Our company's portfolio includes acquiring, local brand network operation under BC brand, card issuing, as well as e-commerce and mobile payment solutions

With more than 40 years of operating experience accumulated as an acquirer, BC Card has evolved to meet various client needs, a total of 33 institutions are outsourcing their acquiring business to BC Card.

### Key Figure

Processing Business Experience





MILLION



BC Card Products

Number of Transactions



**40** Years Experience

14 Bank	Securities	6 Monolinear	5 Other
standard citibank		LOTTECARD	🗩 pay
BNK Bank BNK Kyongnam Bank Bank	☆ 元大證券	KB Kookmin Card	KOREA PO
DGB Daegu Bank 🐼 🗷 Jeonbuk Bank	MIRAE ASSET	<mark>8</mark> NongHyup Bank	
BIBK Industrial SHINHAN BANK	KYOBO Securities	Shinhan Card	Community Credit Coo
K bank ④ # ⑧ 銀行	SK securities	້ KEB Hana Bank	MG Korean Federation o Community Credit Coop
Sh 수협은행 ☑ Jeonbuk Bank	DB손해보험 <b> 한 NH투지증권</b>	Swoori CARD	

### Reference

### Asia–Pacific's Largest Merchant Acquirers

The 34 largest acquirers of UnionPay, Visa, Mastercard, JCB, American Express, Diners Club/Discover as well as domesticonly brand card payments from 39.1 million merchant outlets in the Asia-Pacific region in 2020 are ranked here.

Global brand and domestic-only card transactions handled by those acquirers totaled 43.03 billion last year. Those transactions combined generated \$3.849 trillion in purchase volume.

Visa and Mastercard transactions processed by this group reached 18.47 billion, up 1% from 2019. Those transactions generated \$876.44 billion in purchase volume for goods and services last year, a decline of 2%.

### Top Acquirers of General Purpose Cards

Ranked by Purchase Transactions in 2020

			Distactions	Volume	The top 34 a
	(MAR)	THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE	1961.2	362	payments in
	1	China UMS	11,746.0	\$2 278 14	EFTPOS in A
2	BC C	ard	5,245.0	\$169.06	and Bancnet
	3	KB Kookmis	3.413.2	\$99.92	Card in Sout
	4	JCB	2,900.3	\$295.46	The 10 larges
	5	Westpac	2,162,4	\$98.91	purchase tra accounting f
	6	Commonwealth	1.992.6	\$102.35	the 34 ranke
	1	ANZ Merchant Services	1.881.8	\$82.96	China Union
	8	Samsung Card	1,789.8	\$109.41	as Asia Pacit
	9	Hyundai Card	1,584.7	\$91.46	decreased 19 increased 29
	10	Mitsubishi UFJ Nicos	1.434.8	\$75.09	
	Figure	es include all Asla-Pacific busine ebacks) for American Express, D	ros. Volume is net (gross libers Club Discover, 10	s minus	BC Card of S on global bra

chargebacka) for American Express, Diners (Dult, Discover, JCB, Mastercard, UnionPay, Visa and domestic general purpose cards such as BC, KB Kookmin, Samsung and EFTPOS © 2021 Nilson Report top 34 acquirers handled 7.44 billion domestic-only card ments in 2020. Those domestic-only brands included POS in Australia, RuPay in India, J Debit in Japan. MyDebit Bannet in Magasia, BC Card, KK solumin and Samsung 5 in South Korea and Taiwan Pay in Taiwan.

The 10 largest acquirers processed a combined 34.15 billion purchase transactions from global and domestic brands. accounting for over 79% of all transactions handled by the 34 ranked here.

China UncoPay Merchant Services (China UMS) continued as Asia Pacific's largest acquirer. Purchase transactions decreased 15% from the prior year. However, purchase volume increased 2%.

BC Card of South Korea remained second largest based on global brand and domestic-only purchase transactions acquired. Based on purchase transactions, the other acquirers In the top 10 were KB Kookmin, JCB, Westpac, Commonwealth y Bank, Samsung Card, ANZ Merchant Services, Hyundai Card t and Mitsubishi UFJ Nicos.

The Other Cards column in the acquirers table includes 24.55 billion purchase transactions generated by UnionPay, JCB, American Express, Diners/Discover and domestic-only sredit, debit and prepaid cards. This was a decline of 8% from 2019.

### 

When combined, those card payments accounted for \$2.972 trillion in purchase volume last year, up 4% from 2019.

Based on Visa and Mastercard punchase transactions acquired, Korea-based BC Card and KB Kookmin ranked first and second largest in the region Australia's largest acquirer. Westpac. ranked thich: The largest Mastercard and Visa acquirer in Japan remained Mitsubishi UEJ Nicos.

Prior issues: 1182, 1159, 1138, 1116, 1094, 1071

### Mastercard & Visa Merchant Acquirers in Asia-Pacific

### Ranked by Transactions in 2020

1

Es	ak		Va	and M	asterrard		Other	Cards	Active	POS		
			TENNERTING		TOCOME 1		REACTIONS	VO.SHE	Merchant	Terminals		
1 B	IC Ca	rd, South Korea		295.0	-3%	\$78,253.7	-5	%		\$90,808.4	3,160,000	3,644,673
2	. 2	RB Keekmin, South Korea	2,083.3	-8%	\$60.672.1	-12%	1.329.9	\$39,798.9	2,605,763	2,948,950		
3	3	Westpac, Australia	1.922.5	4%	\$91,029.3	3%	239.9	\$7876.8	287,588	180.984		
-4	4	ANZ Merchant Services, Australia	1,700.5	12%	\$73,412.5	12%	183,4	\$9.548.9	110.244	172.529		
5	-5	Mitsubishi UFJ Nicos, Japan	L301.9	-8%	\$67.583.7	14%	129	\$7,509.3	6,627,892	7.833,763		
6	7	National Australia Bank, Australia	940.9	-1%	\$56,843.9	-9%	4772	\$21,267.8	255,355	169,257		
7	6	ICICI Merchant Services, India	940.1	-75	\$35,429.8	-6%	267.8	\$3,119,1	194,343	470.000		
8	9	Samsung Card, South Koles	916.0	- 6%	\$50,974.8	-5%	873.8	\$58,432.6	2,720,000	3,120,536		
- 9	8	Commonwealth Bank, Australia	879.3	1%	\$53,344.6	3%	1113.1	\$49,002.5	178.853	743,800		
10	11	Aeon Financial Service, Japan	841.0	-1%	\$45,465.7	9%	312.3	\$18,524.6	61.870	75,934		
11	30	Hyundai Card, South Korna	8175	-5%	\$48.500.G	6%	767.1	\$42,960.4	2,444,735	2.863.854		
12	12	Credit Salson, Japan	639.8	-3%	\$54,634.3	10%	123.9	\$9,1371	193.527	235.394		
13	13	Worldpay from FIS, Singspore?	630.1	53%	\$22,959.9	-10%	9.7	\$592.2	6,478			
14	14	CTBC, lawari	370.1	11%	\$14,671.3	-8%	23.8	\$9472	107,662	54,790		
15	15	SBI Payment Services, India	329.8	22%	\$8,630.9	34%	317.9	\$3,599.6	512,742	763.330		
16	15	ANZ Bank, New Tealand	280.9	6%	\$10.814.5	5%	504.0	\$12,491,7	53,829	81,500		
17	17	Global Payments, Hong Kong*	204.4	-7%	\$28,645.5	-9%	22.2	\$10,097.3	134,181	95,432		
38	20	HDFC, Indu	192.2	15%	\$4,513.8	1946	53.5	\$566.0	222.564	889,814		
19	18	Kasikombank, Thaland	188.7	-5%	\$16,136.2	-9%	34	\$543.9	176,724	202.214		
20	19	NCCC, Taiwan	169.0	-5%	\$19,958.6	11%	125	\$1.337.3	93.406	115,141		
21	22	Bank Mandiri, Indonesia	152.6	14%	\$10.3573	17%		-	240,540	313,443		
72	24	Asis Bank, India	141.1	425	\$4,512.6	82%	94.0	\$3,075.0	90,675	541,774		
23	71	Orient Corp., Japan	1857	15	\$8,4276	5%	9.IE	\$1,852.8	42,441	7.518		
24	23	Hang Sang, Hong Kong	120.5	-7%	\$13,626.0	-12%	11.6	13,293.4	13.330	15.388		
25	23	Fixery (FDMS), Australia	101.9	3%	\$5,452.7	3%	15.4	\$858.9	18,902	15,398		
25	26	Fisery (FDMS), Singapore*	70.8	-26	\$6.688.6	-25	1.9	\$385.6	34,912	33,192		
27	27	E. San Commercial Bank, Talwan	68.2	-3%	\$5,119.9	-4%	42	\$241.0	(3.50	21,254		
28	28	GHL Systems, Molaysia <sup>4</sup>	16.4	22%	\$2,190.5	102%	18.8	\$932.3	114,015			
29	29	The City Bank, Bangladesh	8.9	19%	\$451.4	27%	3.3	\$207.2	17,500			
30	30	Sacombank, Vietnam	6.4	5%	\$456.9	10%	0.2	\$22.5	4,988			
31	31	Vietcombank, Vietnam	4.8	13%	\$520.7	17%		-	8,652			
20	32	Trade and Development Bank, Wongolia	42	25%	\$108.2	20%	5,4	\$877	4,625			
33	33	China UMS, China					11,745.0	\$2,278,135.8				
34	34	ICB, Japan'				-	2,900.3	\$295,455.8	10.544.005	11.831.209		

Figures are net (gross minus chargebacks). Ownige in violume is based on toral summory. I You and Maxemented network, shell and propaid care in violume is based on toral summory. The control was of Maxemented networks, shell networks and Maxemented networks. The Maxemented networks are also an investmented in the Control more care and an investmented networks. The Maxemented networks are also and an investmented networks. The Maxemented networks are also and an investmented networks. The Maxemented networks are also and an investmented networks. The Maxemented networks are also and an investmented networks are also and an investmented networks. The Maxemented networks are also and an investmented networks are also and an investmented networks. In 2022 Makemented networks are also and an investmented networks are also and an investmented networks. In 2022 Makemented networks are also and an investmented networks are also and an investmented networks. In 2022 Makemented networks are also are also and an investmented networks are also and an investmented networks. In 2022 Makemented networks are also are

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Top Acquirers of Mastercard

and Visa Transactions

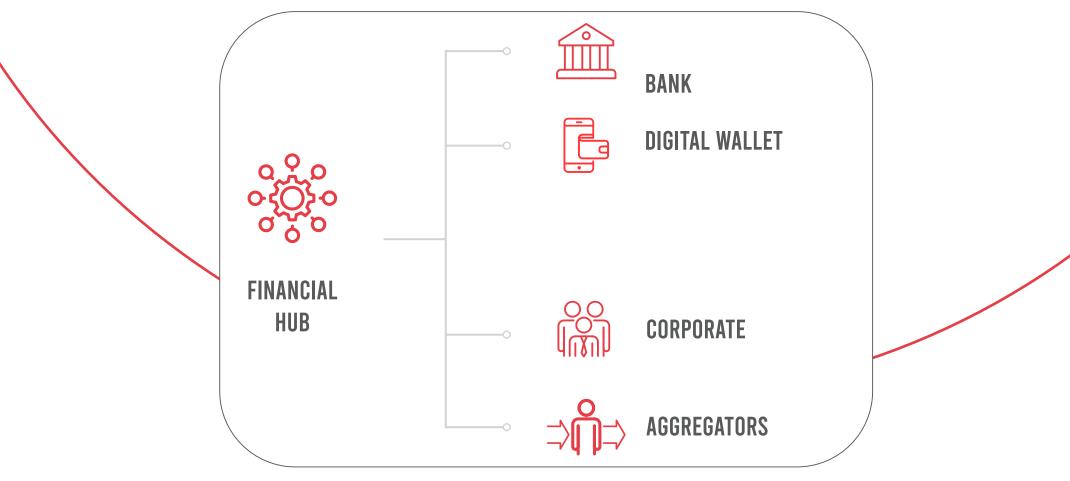
Millions

© 2021 Nilson Report

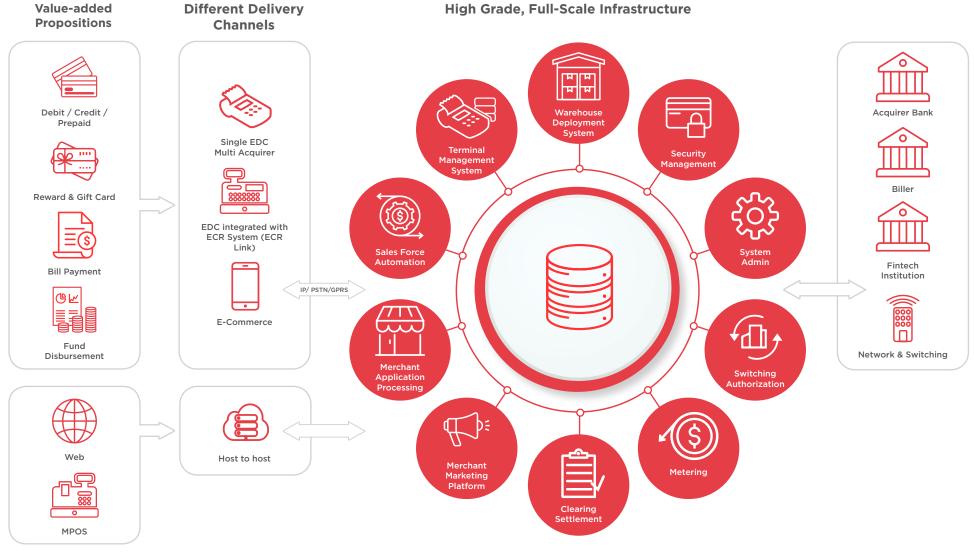
## BC's acquiring solution - BAIS

Identity of BAIS (Beyond Acquiring Integrated System)

Our 40 years experience of long-term operation together with the partnership with leading international payment technology brands, domestic & international corporate and financial institutions brought us to provide the benefits of payment hub system with cost-effectiveness, robust usability, and market readiness with full payment scheme and regulatory compliance.



# End to end Architechture

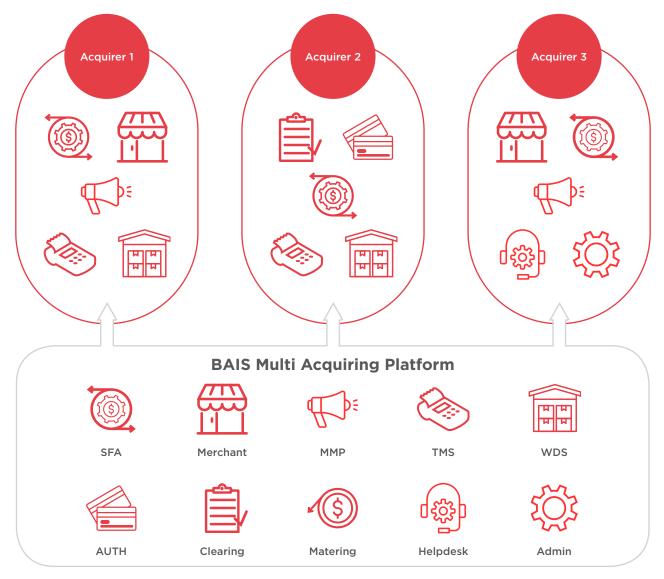


ROBUST END-TO-END PAYMENT INFRASTRUCTURE



# Multi Acquiring Platform

BAIS is not just a merchant acquiring solution but a multi acquiring platform. If you want to have a multi acquiring payment hub in terms of processing, BAIS perfectly works for your expectation by accommodating multiple member banks and networking to 3rd party institutions. You can manage your multiple member banks profile running on the BAIS platform, which leads to member's transaction, fee, payment, profile, configuration, etc. data management that is completely secure from each other members but only disclosed to the platform admin.

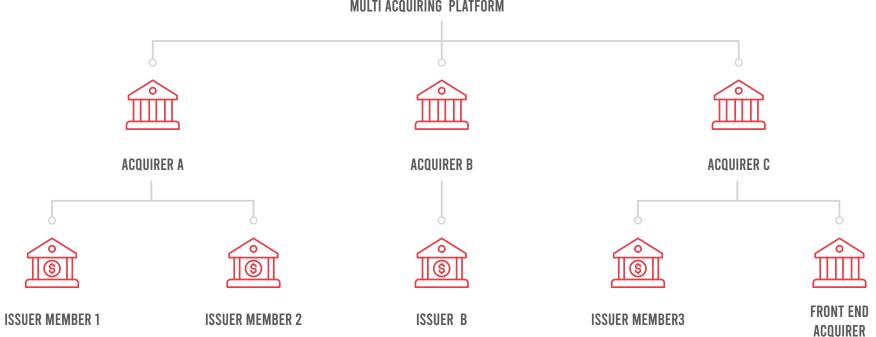


Member Hierarchy

BAIS platform can have acquirers as members.

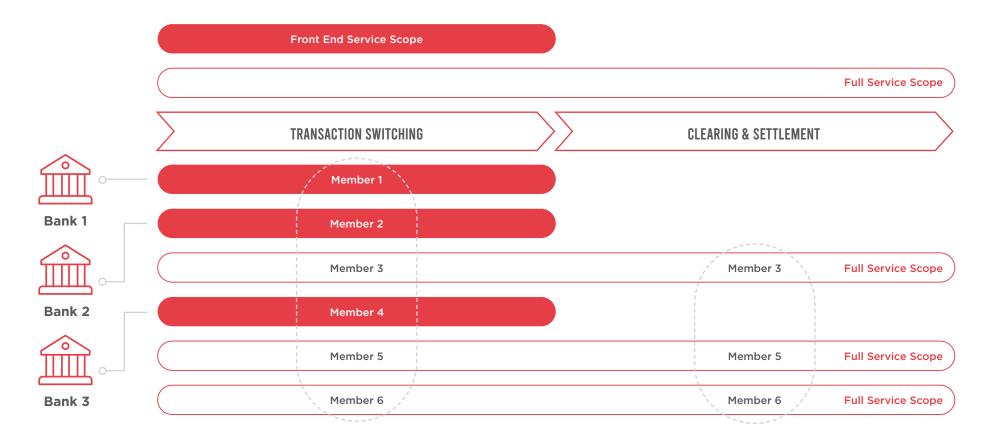
Each acquirer member can have their own front end acquirers usually for the EDC sharing scheme or issuer members to provide with issuer promotion service such as instalment, cashback, on-site discount.





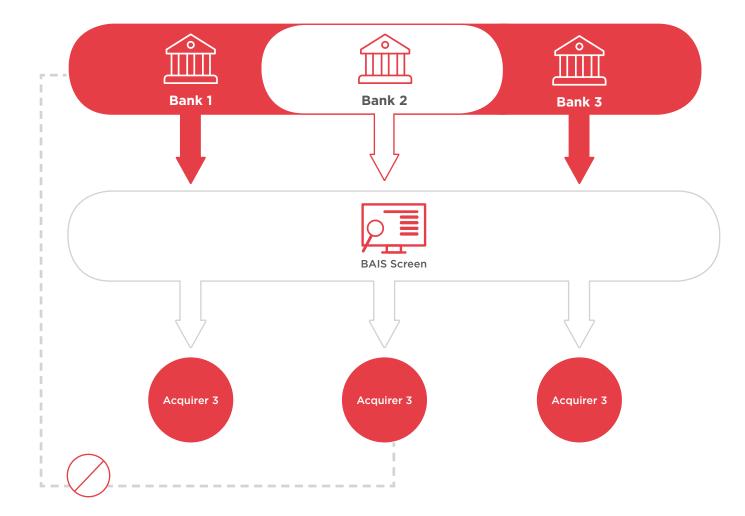
# Member Type & Scope Full / Front End Acq

The difference between front end and full acquirer is that the front-end acquirer has their acquiring host. BAIS only routes the transactions to their acquiring host, while full acquirers can request the BAIS system to do all of the acquiring features.



## Member Data Segregation

BAIS provides for a high level of information security and the ability to manage your own data across members and member employees. Its unique data management gives you the flexibility to segregate and consolidate vast amounts of data's access—while controlling who can see what—through a sophisticated system of workgroup roles, and it applies even to hosting processor's employees.

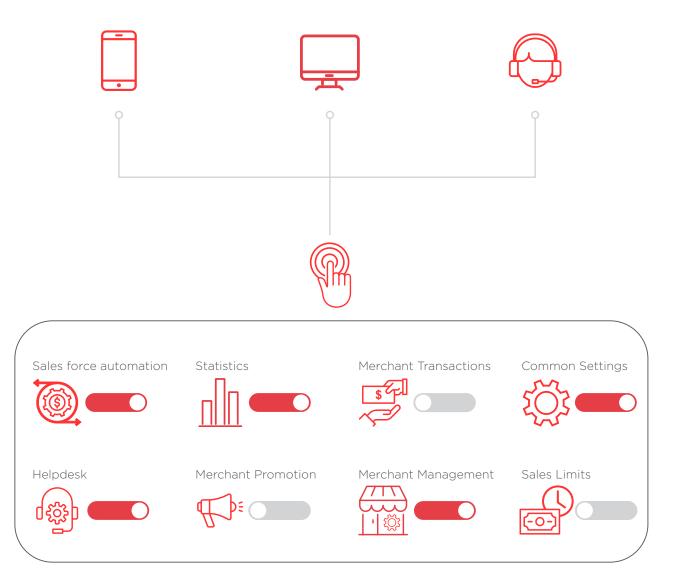




# Member Configuration Panel

The member control panel of BAIS can manage each acquiring member's service profile.

You can set each member's service scope and apply their preferences with parameter-based configuration.

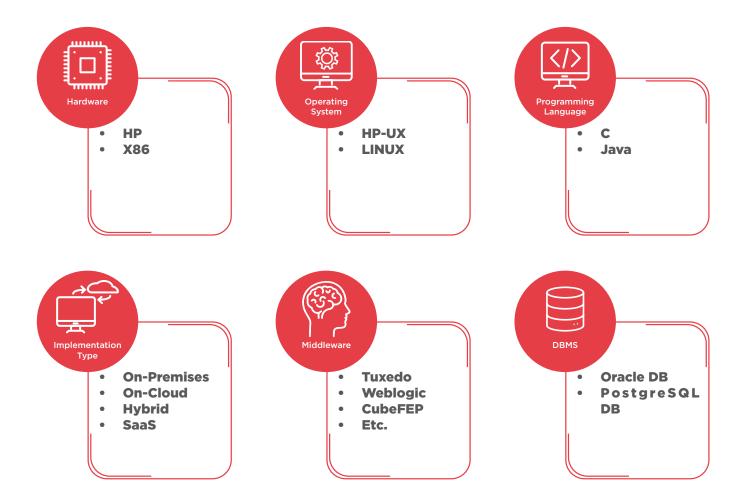


### BAIS All-in-one Integrated System Screen

icessing poort Result Monitoring	Authorizatio Normal/Rejec	t Type Norm		4137-18**.****.		Transactio Request C	n Type All hannel All	~	]		All	menu
on History Aut	thorization His	story										
	ber Bank Acq	Issuer	Card No	Authorization Date	Authorization Time	Authorization Type	Transaction Type	Sale Type	Response Code	Authorization Amount	Crncy Ir	
nent Data		NK MAND		05-10-2021	15:17:25	Sale	Authorization	Installment	0000	2,000.00	IDR	
I history(reject)		NK MAND		05-10-2021	15:16:58	Sale	Authorization Purcha	Purchase	Purchase 0000 2,00	2,000.00	DIDR	
t Company 3	1.1	NK MAND		05-10-2021	15:16:13	Sale	Authorization	Purchase	0000	2,000.00	IDR	
on History QR	11	NK MAND		05-10-2021	15:16:00	Sale	Authorization	Purchase	0000	2,000.00	IDR	
on History Token 5		NK MAND		04-10-2021	15:06:46	Sale	Authorization	Purchase	0000	2,000.00	IDR	
ce TC33 Authoriza		NK MAND		04-10-2021	14:47:40	Sale	Authorization	Purchase	0000	2,000.00	IDR	
rization 7		NK MAND		04-10-2021	13:36:27	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
Is nagement System		NK MAND		04-10-2021	13:34:11	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
9		NK MAND		04-10-2021	13:05:33	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
nu from		NK MAND		04-10-2021	13:04:39	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
cted		NK MAND		04-10-2021	13:03:47	Sale	Authorization	thorization Purchase 0000 2,000.00 IDR				
S		NK MAND		01-10-2021	17:29:09	Sale	Authorization	Purchase	0000	2,000.00	IDR	
		NK MAND		01-10-2021	17:28:21	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
ement.		NK MAND		01-10-2021	16:14:58	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
15		NK MAND		01-10-2021	16:00:33	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
16		NK MAND		01-10-2021	15:59:25	Sale	Cancellation	Purchase	0000	2,000.00	IDR	
		NK MAND		01-10-2021	14:10:55	Sale		Pre-Authori	0000	2,000.00	IDR	

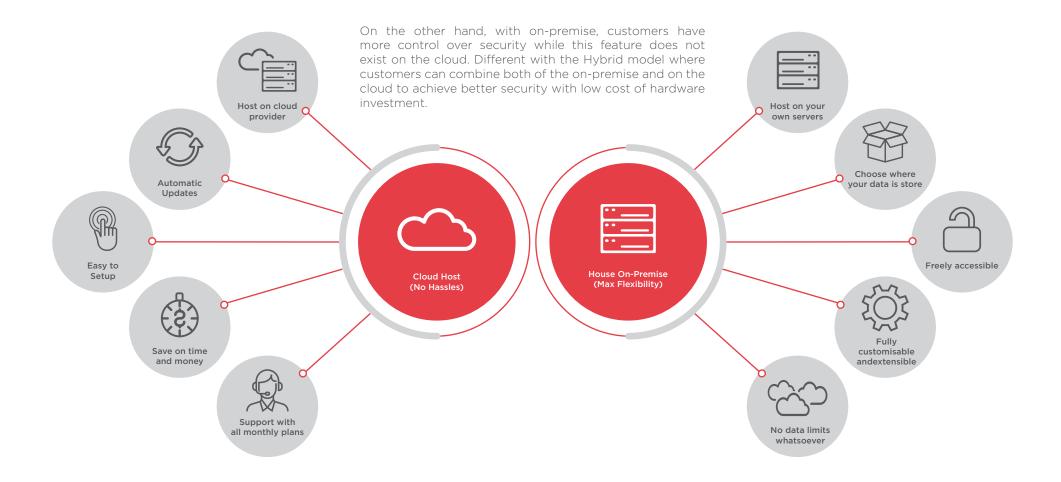
### Product Architecture

BAIS is an open platform solution that operates on the industry-standard platform such as HP-UX, Linux. It uses industry-standard databases such as Oracle and PostgreSQL together with Java-enabled Oracle Weblogic and Oracle Tuxedo. It has been certified by the world's leading payment brands, including Visa, MasterCard, American Express, Diners Club, JCB, and CUP, as well as certification for EMV acquiring.



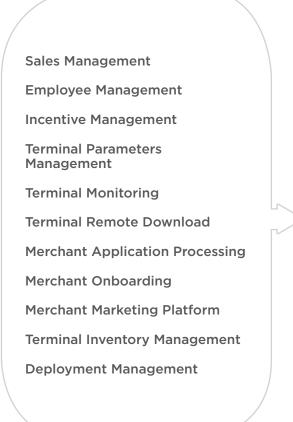
## Implementation Type

Several types of implementations that can be applied to BAIS such as **On-premise, On-cloud, Hybrid, and SaaS** can be carried out according to the needs of customers. One of the advantages of implementing on-cloud compared to on-premise is easiest to setup, quick deployment, and no need for onsite hardware while the onpremise requires lots of hardware and consumes more time in deployment.





# Service Map

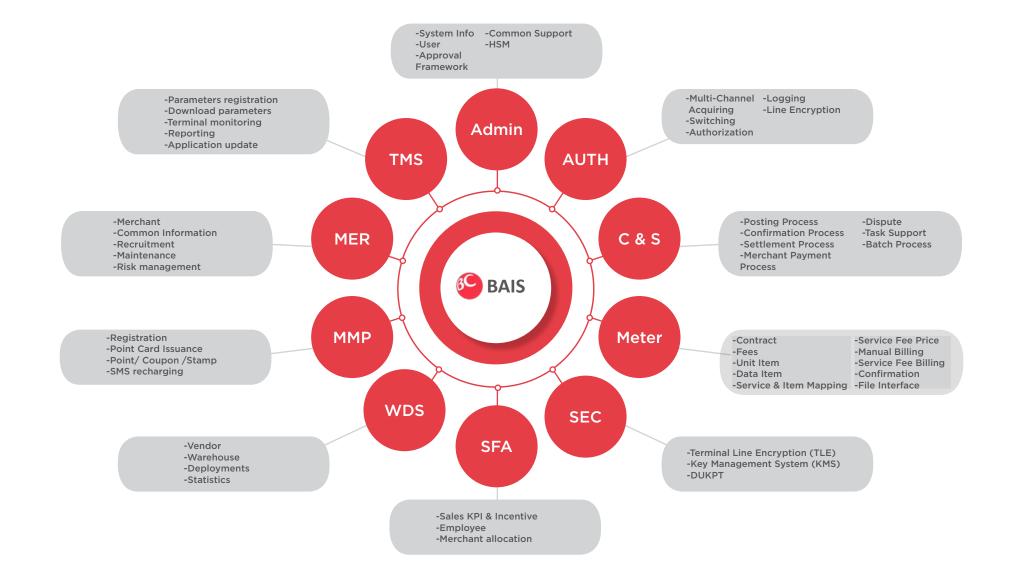




Multi-Channel Acquiring Authorization Switching & Routing Clearing & Settlement Chargeback Management Contract Management Fees Management Billing Management Key Management User Management Batch Process



## Modules Functionalities





80<sup>11</sup>

X

PRS7

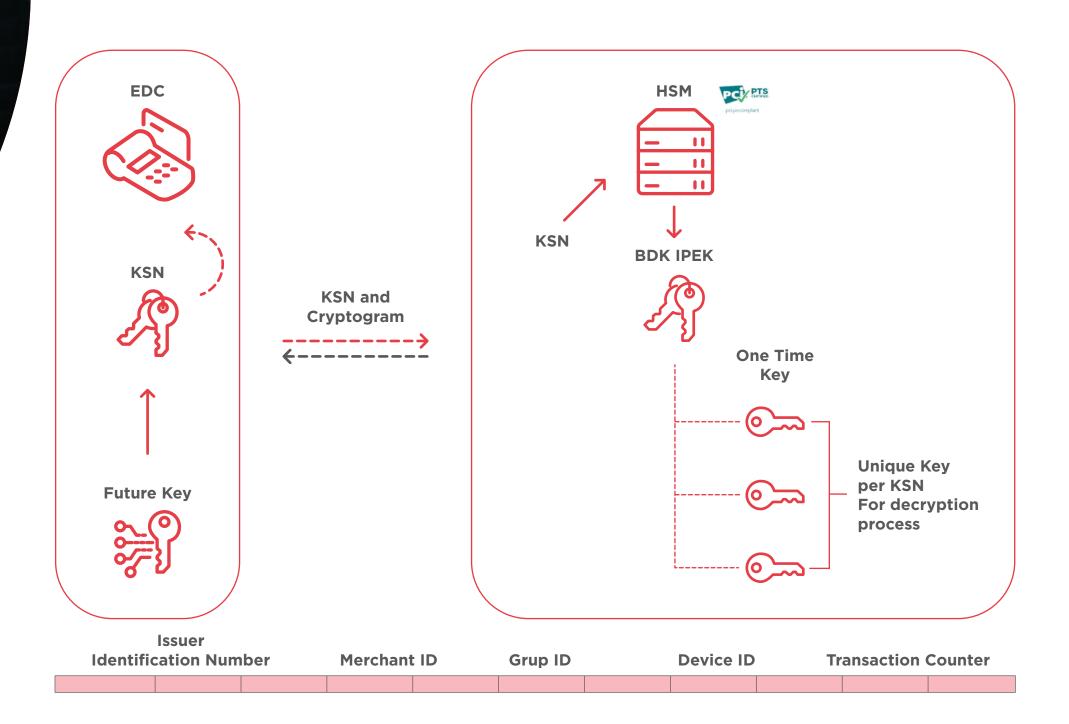
# FEATURED SERVICES



### DUKPT

Transaction data security is our top priority. So, based on PCI-PTS standard regulation, all banks and institution's transaction data that transmits to our BAIS is secured by the PIN and Field encryption process.

BAIS uses DUKPT (Derived Unique Key Per Transaction) key management scheme in which for every transaction, a unique key is used which is derived from a fixed key. Therefore, if a derived key is composed, future and past transaction data are still protected since the next or prior keys cannot be determined easily.



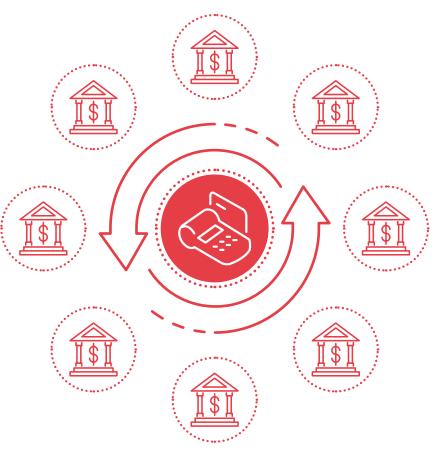
# Single EDC Sharing

Nowadays, with the EDC sharing feature, services to merchants and customers are expected to be even more optimal. Because merchants no longer need to set up many EDC machines with different card-issuing banks. Just 1 EDC machine with the EDC sharing concept is enough.

BAIS provides an EDC Sharing platform that a single EDC can be used & maintained by multiple acquirer members.

- Capex, Opex Sharing model (ideally 1/N)
- On-us transaction is given to its acquirer member or member host
- Off-us transaction is shared by pre-set ratio among member

### Works like as if your own bank's EDC



CAPEX+OPEX is shared ideally 1/n

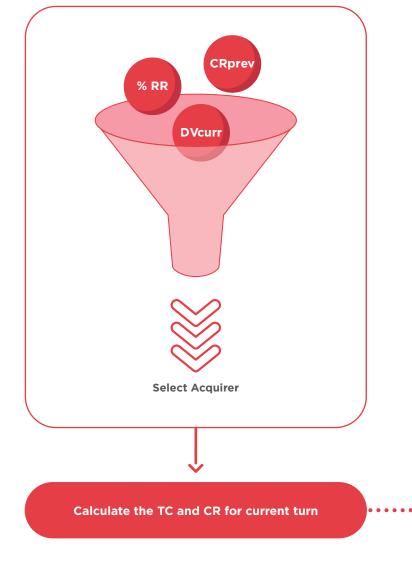


# EDC SHARING Off-us Round Robin Mechanism

The round-robin method is only intended for transactions using off-us cards. This means that if the EDC terminal owned by Bank X uses a card issued by the X bank, then the transaction is fully owned by the owner bank and the roundrobin method is not applied. However, if it is an off-us transaction, for example, the card does not belong to Bank X, Y, Z but acquirer from Bank Oversea, then the EDC Sharing system selects a random acquirer based on the acquirer selection logic.

	RR Turn		
#	А	В	С
1	S		
2		S	
3			S
4	S		
5		S	
6	S		
7			S
8	S		
9		S	
10	S		

	Bank A	Bank B	Bank C
% RR	50	30	20

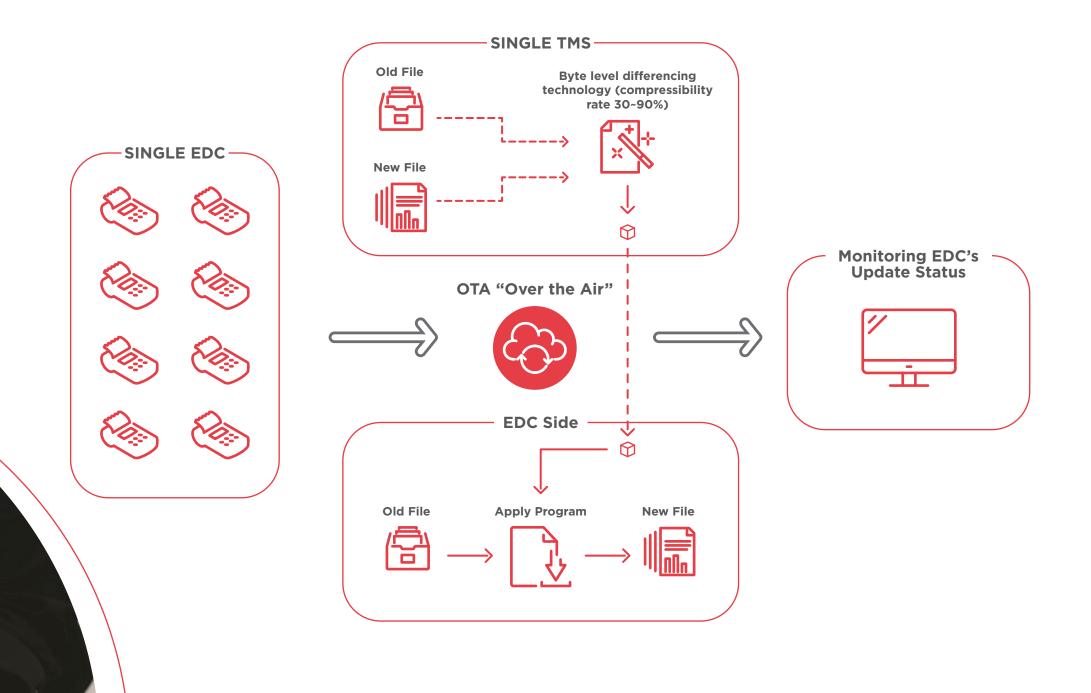


# Application Update Over-the-Air (OTA) Feature

An OTA update is convenient for end users because it prevents them from going to a merchant(store) or connecting to a PC to update their devices.

Our BAIS modules already support partial download and recovery download if the connection between EDC and server suddenly fails. So this feature makes it very easy for users to resume downloading applications, not from the beginning.

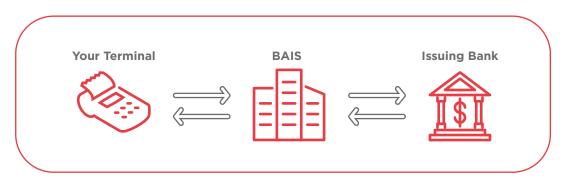


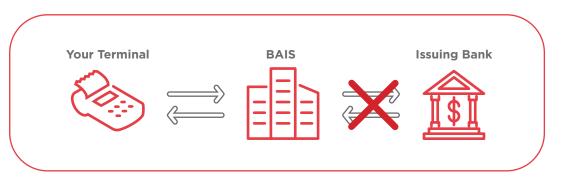


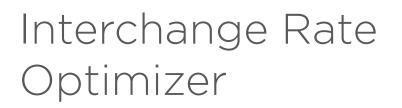
### Stand in Processing

For the typical authorization process, BAIS routes the authorization request to the issuer for approval. However, In certain circumstances, such as when the issuer's systems are unavailable, BAIS may perform stand-in processing and review and authorize or deny the transaction based on the issuer's given criteria.



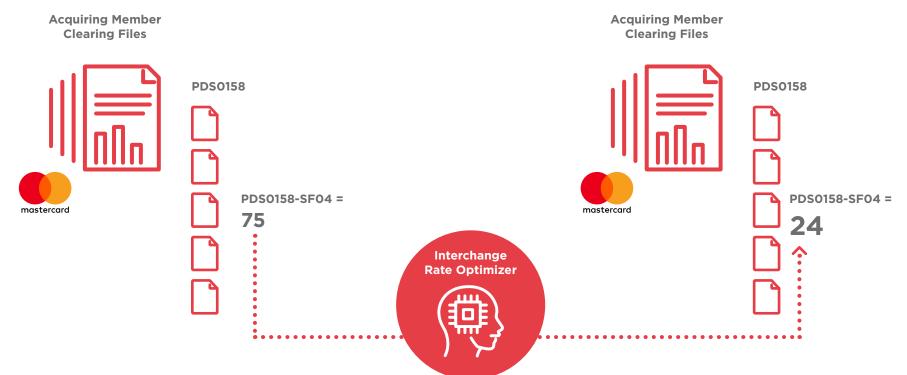






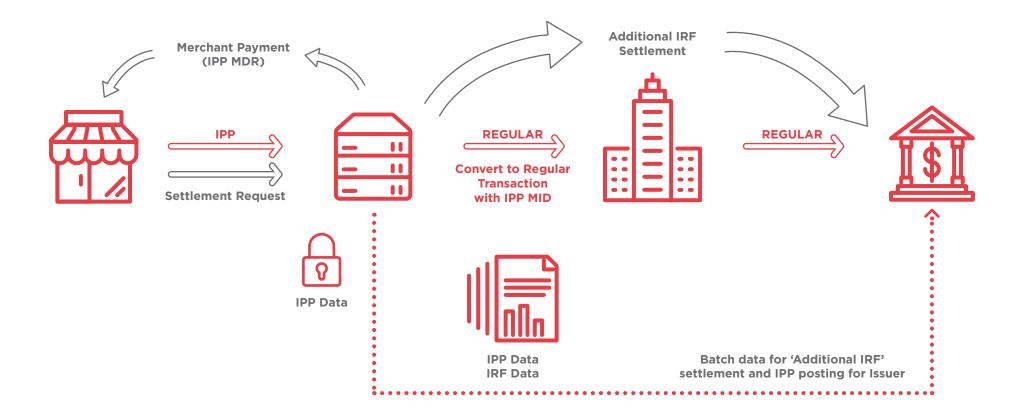
Interchange Rate Optimization takes the member transaction data, performs the analysis of every data element for every transaction, and calculates the best valid IRD (Interchange Rate Designator) to minimize the interchange fee cost.





### Issuer Promotion

BAIS converts IPP (Installment Payment Plan) transactions into regular purchases while maintaining IPP MID (higher MDR) and switches to Brand Networks. Promotion can be registered on BAIS system with the agreement between the acquirer member and Issuer member for the fixed period and fee scheme.



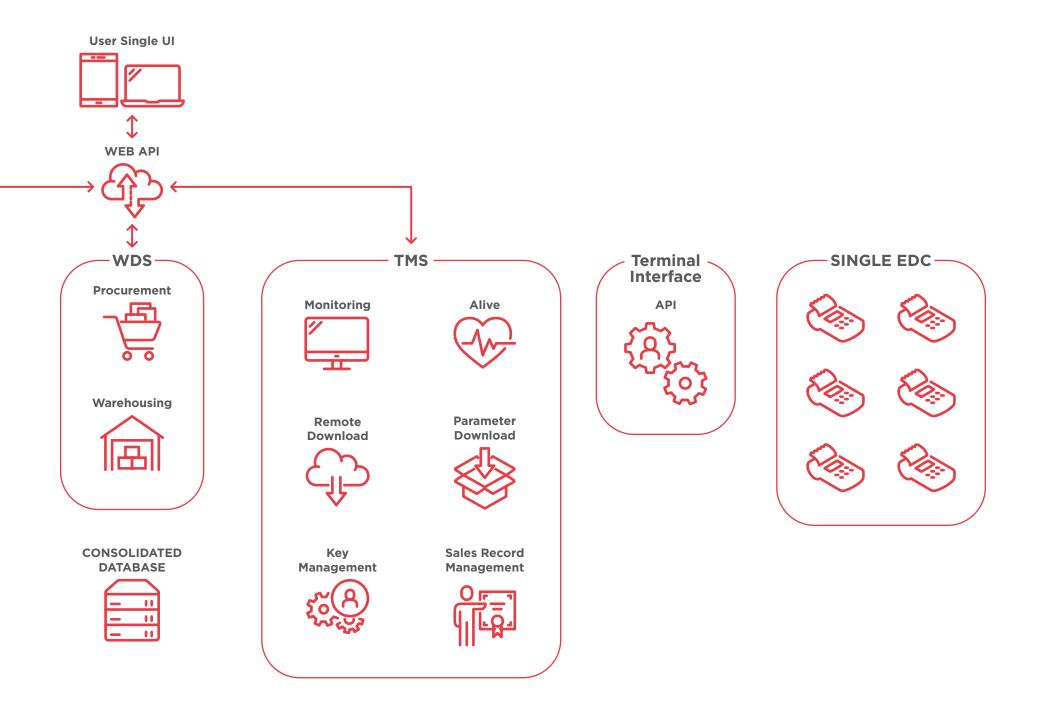


# TMS Single Terminal Management

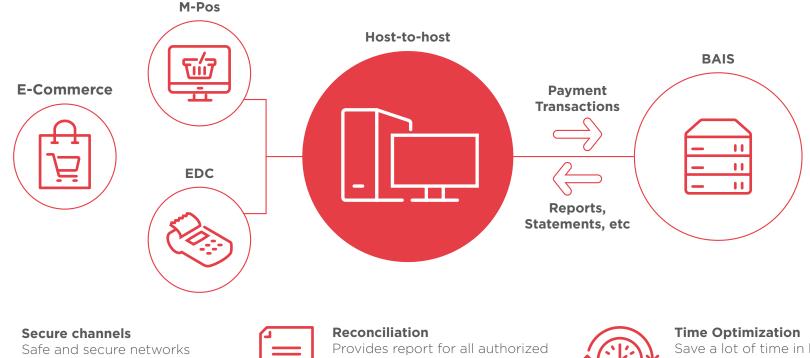
Following Conceptual Architecture shows that TMS provides:

- Consolidated Terminal Interface API allowing one-stop control over multiple brand/type of EDC
- Single User Interface for both merchant and EDC management maximizing • business efficiency
- Host-based operation including remote application/parameter download •





## Host-to-Host Payment





protocols to safeguard sensitive data



and unpaid transaction



Save a lot of time in handling automatic processes



### **Payment Transaction**

Supported for all payment transaction types with each delivery channel (m-Pos, EDC, or e-Commerce)



### **Seamless File Transfer**

The H2H connection provides seamless file transfer without any resets and any retransmission from the beginning of the file

# DELIVERY CHANNEL

BETABUT

# EDC Line Up



- Telium Tetra OS .
- 2.4" backlit, 320x240 px QVGA . display
- Cortex A5 processor
- 128 MB RAM | 128 up to 512 MB Flash • Ethernet, Wi-Fi, 3G(GPRS) and Dial-
- up communication
- 2 SIM | 2 up to 3 SAM slots available
- NFC, CTLS, Bluetooth (optional) • •





Verifone VX 520C

- Verix V + EOS Operating System
- 2.8" QVGA Colour display
- 400 MHz, ARM11 32-bit processor
- 32 MB RAM | 128 MB Flash
- Ethernet, 3G(GPRS) and Dial-up communication
- 1 SIM | 3 SAM slots available
- NFC, CTLS (optional)
- 2200 mA of battery capacity



- Android 5.1 OS •
- 5.5" IPS 1280x720 pixels
- Cortex A7 and M4 32-bit processor
- 1 up to 2 GB RAM | 8 up to 16 GB Flash
- Ethernet, Wi-Fi, 4G(GPRS)
- 1 SIM | 2 SAM slots available
- NFC, CTLS, Bluetooth available
- 2600 mA of battery capacity



Verifone C680

- Verix + EOS Operating System
- 3.5" TFT display
- 400 MHz, ARM11 32-bit RISC processor
- 64 MB RAM | 128 MB Flash
- Ethernet, Wi-Fi, 3G(GPRS) and Dial-up communication
- 1 SIM | 2 SAM slots available
- NFC, CTLS (optional)
- 2450 mA of battery capacity



Ingenico iWL 220 series

- Telium OS
- 2.51" 128 x 64 px with monochrome color
- RISC 380 MHz ARM9 & 57 MHz ARM7 32-bit processor
- 16 up to 32 MB RAM | 16 up to 128 MB Flash
- Ethernet, Wi-Fi, 3G(GPRS) and Dialup communication
- 1 SIM | 2 SAM slots available
- - NFC, CTLS, Bluetooth (optional)
- - 2200 mA of battery capacity



Ingenico iCT 220 & 250 series

- Telium OS
- 2.51" backlit 128 x 64 px and QVGA (250)
- RISC 450 MHz ARM9 & 50 MHz ARM7 32-bit processor
- 8 up to 32 MB RAM | 16 up to 128 MB Flash
- Ethernet, Wi-Fi, 3G(GPRS) and Dialup communication
- 1 SIM | 2 SAM slots available
- - NFC, CTLS, Bluetooth (optional)



Verifone VX 675

- Verix V + EOS Operating System
- 2.8" QVGA Color display
- 400 MHz, ARM11 32-bit processor
- 64 MB RAM | 128 MB Flash
- Ethernet, Wi-Fi, 3G(GPRS) and Dialup communication
- 1 SIM | 2 SAM slots available
- NFC, CTLS, Bluetooth (optional)
- 2200 mA of battery capacity



Verifone VX 520

- Verix V + EOS Operating System
- 128 x 64 px graphical, white backlit LCD
- 400 MHz, ARM11 32-bit processor
- 32 MB RAM | 128 MB Flash
- Ethernet, 3G(GPRS) and Dial-up communication
- 1 SIM | 3 SAM slots available
- NFC, CTLS (optional)
- 2200 mA of battery capacity

### Certifications

<b>Commen</b> At test cases		Chip Ter	
pci-ds	COMPLIANT Is compliant	PC	compliant
pci-ds Validation Details	s compliant	pci-pin rofile Retwology: 4 ye Region of Operation: 4.9	
	s compliant	rofile Technology: Participation History: 4 yes	

M	-TIP Letter of Approx	wal mostero
Approval —		
Deployment		
ist of Countries	Indonesia	
	uration	
erminal Configuration		
ferminal Type	Attended PQ5	
configuration as per	MTP 120314-043826922 120328-022141	197
ipecial program(s)	Note	
contact interface		
MV Kernel	Va EMV Module Version 7.0.0	
MVCo Level 2	2-03281-1-1C-FIM-1015-4.3.d	
wyment Application Software	MIT-PaymentApp v1.0	
roducts	Mastercard	
Contactless Interface		
Contactless Product Type	Standalone Intelligent Contactless Card Read	der
Contactiess Product LoA	TLOA-VERI150801-150910(#)	
pecifications	PayPass - M/Chip Reader Card Application I	
hoducts & Terminal CVM	Transactions with other CVM then CDCVM	
Required Limit Configuration Mastercard	permitted obove CVM Required Limit Yes	permitted above CVM Required Limi Yes
COCVM Censurer Denise Candhabler Vert		16
lested with	Terminal	Card Reader
erminal Reference	Verifone Inc. Vx520	Verifone Inc. Vx520
Vendor Name	Verifone Inc.	Verifone Inc.
lendor Country	Indonesia	United States
QM References*	IFM: TQM0055/03 12646-0312-400-21 FIM	PCD: TQM0445/01
Contact EMVCo Level 1		
CI PTS Approval Number #M. Interface Intelde / PCIt Prov Cough	4-30052	
Centing References		water and the second second
Festing References	M-TIP 2.0 (Contact & Contactiess)-0-225	

Mastercard Terminal Integration Process



JСВ	JCB Ca, Luk S-L2 Hown Approx Matcha, Taip, Mi-Allis Jopon Press 41:54778-1920 Rat 41:54778-1920	
Date: Navember 24, 2016		
	f Confirmation for for Implementation (TCI)	
We confirm that the following terminal he Please be noted that the tested product 1 > this reserve is notified. > Proprietary Appleation that affects 2CD car > An interspeciality issue that affects 2CD ca > 2CB requests a releat.	processing is modified.	
Submission Date: November 21, 2016 Test Version: 1.4 Reference Number: A162801011181740 Tested Terminal:		
IFM Manufacturer	Verifiane Inc	
EMVGo Level 1 Approval Number	12646 0312 400 21 FM	1
Application Kernel Manufacturer	Verlage Inc.	1 1
EMVCo Level 3 Approval Number	240285-5-10-FB6-1015-4.1d	1 1
Proprietary Application Name (version)	Vx EMV Module Version 7.0.0	1
Terminal Market Name	Vx\$20	
for the testing terminule. Also, JCB is not re- Note on Selecting and Setting sur Termin 1. To prover intergenetably insues, ser we been certified as completer with the latest L is higher with terminule completer only with shout the latest LWW specifications on the intergrenzbillty insues is also published on 1 2. For proper processing of JCB same, her - Den of set Cons. Also De DG terminule	commonf that the Acquires solid: Leminals have MV specifications. The rais of interspenability taxoes of the EMV specifications. You may find internation EMVCo web site. An 'taxoes' List' of income the EMVCo web site. Http://www.emvcc.com/ seminal-must be properly set up. In particular:	
Load the CAPK property     Bincensity.		
m. Command		

Care November 34, 3018

### Latter of Confirmation for Terminal Check for Implementation (TCI)

We confirm that the following terminal has passed TCI in accordance with TCI Procedure. Rease to robat that the leaded product below must be related when:
 If the rate of the leaded product below must be related when:
 If the rate of the r

JCB Co. Lini. 5-12 Martin Agenta Martinia, Taka 10-400 Agen Phone 40-0278/2020 Page 40-0278/2020 Page 40-0278/2020

Submission Date: November 21, 2016 Test Version: 1,4 Reference Number: A10280181118773520 Tested Terminal:

ITM Manufacturer	Ingenica
EMVCo Level 1 Approval Number	12702-0612-400-21 CET
Application Kernel Manufacturer	Ingenica
INVCo Level 2 Approval Number	242466-1-10-RFH2313-4.30
Copristory Application Name (service	EM/0C4.86
Terrainal Market Name	107230

No Manvarte and No Liability: Even though the text results have met JCB requirements, JCB provides no warranty of any kind for the tested terminals. Also, JCB is not responsible for any damages second by the text.

Note on Selecting and Setting on Terminatis 1. To prevent intergendibly susces, as accomment that the Acquire veloci lemitists that have been contribut configate rath the telescale IDM specifications. The third of intergendibly susces in higher with terminat complete rath, with date EMV specifications. The mass is of for tensor intergendibly issues is also published on the EMVCs web site. http://www.emvcc.com/

2. For proper processing of JCB cards, the terminal must be properly set up. In particular: - Do not set Group AID to POS terminals - Load the CAPK property

Sincerely,

m Comma

Maaski Yokawa Senier Vice President Brand Infradructure & Technologies Department JCB Co., Ltd.

www.bccardglobal.com



Equity Tower, SCBD Lot. 9 35th FI Unit B, Jl. Jend. Sudirman, RT.5/RW.3, Senayan, Kec. Kby. Baru, Kota Jakarta Selatan, Daerah Khusus Ibukota Jakarta 12190

> P. (021) 5155141 F. (021) 5155141