

Partner for a New Era

# DLT Application for <sup>o</sup> Letter of Credit Transaction Platform

Yong Liang Dinesh Chandrasekar Oct 11<sup>th</sup> 2018





#### DIGITAL, TECHNOLOGY AND CONSULTING SERVICES TO ENABLE THE MODERN ENTERPRISE

Confidential. Copyright 2018 Pactera Technologies NA, Inc.

#### E.D.G.E. Service Offering Framework

# pactera Forum

FinTech



#### Pactera in BFSI Ecosystem

pactera

Largest financial and IT team in China with more than 9,000 employees

Serve more than 300 financial enterprises from home and abroad

2

4

6

3

24/7 delivery service and operation support key systems

Support almost \$600 billion transaction and settlement in import & export trade and non-trade field

Manage almost 10PB data for financial institutes 1.42 billion customers and over 2 billion accounts for banks

Self-developed core banking system manages 15 trillion accounts



Self-developed property management system manages 10 trillion RMB assets of bank customers

Self-developed CRM system manages 220 million bank customer accounts



Support \$92.7 million transaction in China securities market with all investors transaction records stored in Pactera big-data warehouse

Store two thirds of transaction and settlement information of China futures trading



10

Open

8

Forum

FinTecl

### Pactera Finance Business Overseas Clients pactera

#### Mission

Help IT departments/R&D centers from foreign banks to take root in China

Pactera has a stable and sound cooperation with many well-known international financial enterprises and has been helping their China and even global strategy in talent supply and other related solutions.





Open

Forum

FinTech

## GuangFa Commercial Bank (CGB) Profile pactera

- CGB was established in July 1988,
- One of the earliest-incorporated joint-stock commercial banks in China.
- Total assets of the Bank reached US \$ 3 trillion, with its network expanded to include 34 branches, 661 business outlets, 114 Small Enterprises Banking Centers and 13 smart banks in 71 cities.
- Has over 30 million e-banking customers, over 60 million credit cards issued and correspondent bank partnerships with 1,687 bank headquarters and their branches in more than 128 countries and regions.
- First financial institution to establish the strategic cooperation of multi-channel and multi-application e-payment with China UnionPay.



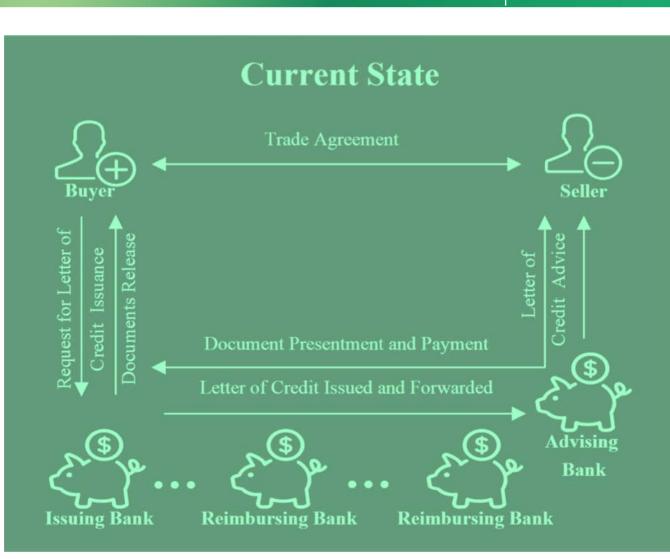
Open

Forum

FinTec

#### CGB Letter of Credit Biz Challenges

- A letter of credit (LC), also known as a documentary credit, bankers commercial credit, is a payment mechanism used in international trade to perform the same economic function as a guarantee, by allocating risk undertaken by contracting parties.
- LC is extremely common within international trade and goods delivery, where the reliability of contracting parties cannot be readily and easily determined. Its economic effect is to introduce a bank as underwriting the credit risk of the buyer paying the seller for goods.
- It takes weeks sometime months to complete one single LC transaction with many parties in the middle involved.



pactera

Open

Forum

FinTec

#### Letter of Credit Main Participants

pactera <sup>Open</sup> Forum

FinTech



#### Letter of Credit Standard and Tools



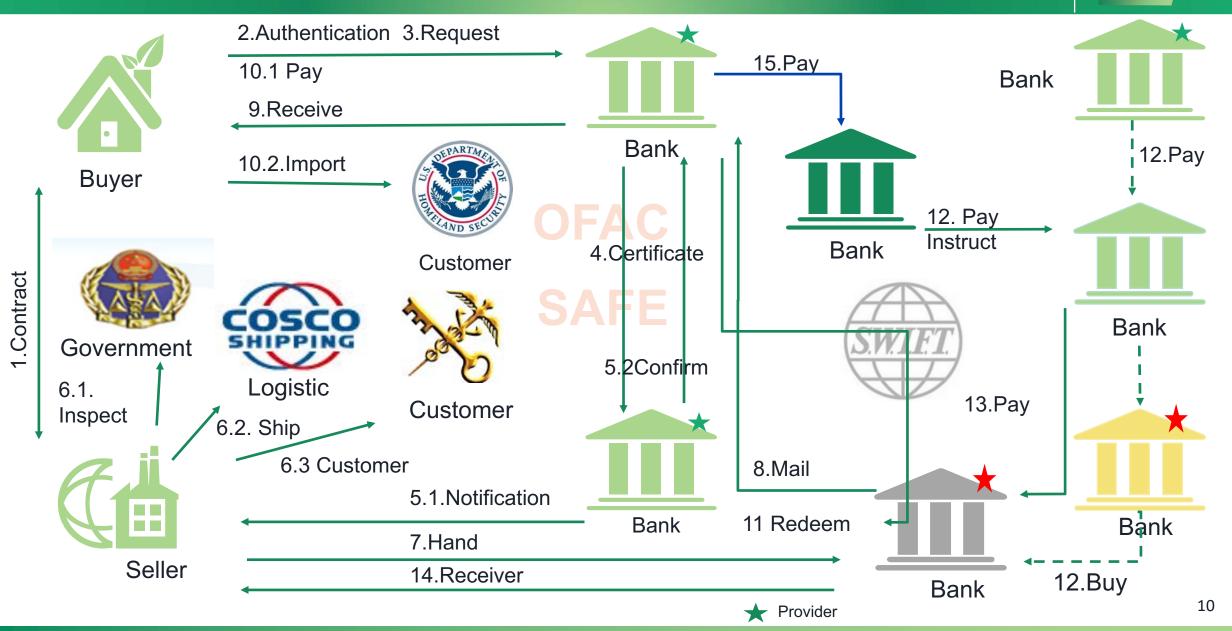
Open

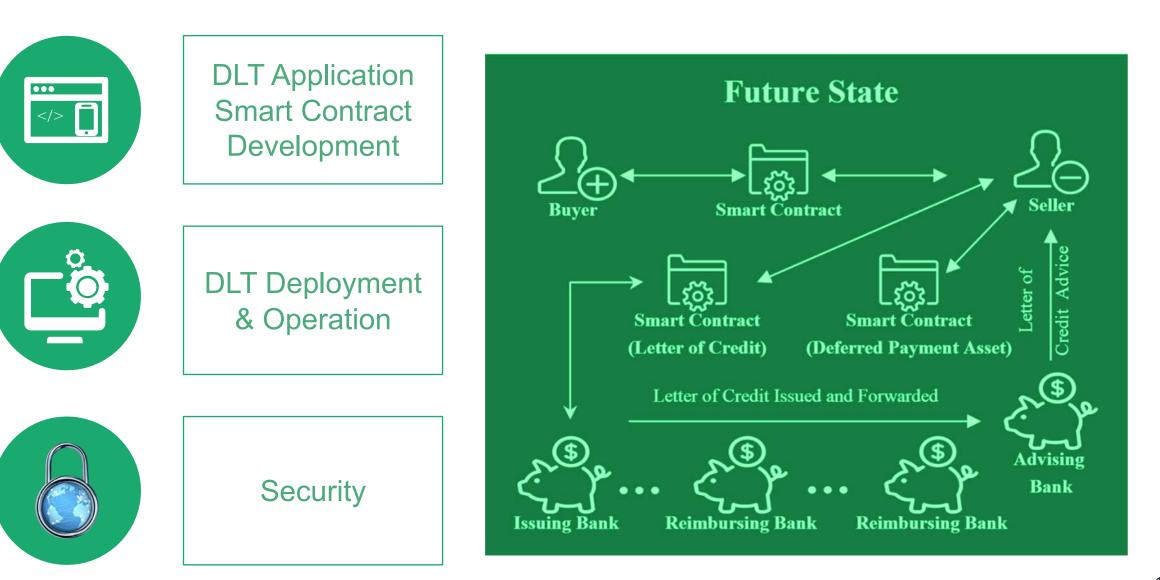
Forum

FinTecl

#### Letter of Credit Transaction

pactera





Open

Forum

FinTech

# Consortium and DLT Platforms Comparison pactera

Name	Found Year	Members	Platform/Tools	Success Stories/Industries
Hyperledger	2015 Dec by Linux foundation	139+ premier members, IBM, Intel	Open Source : Hyperledger Fabric, Iroha, Sawtooth, Burrow, Indy etc.	Supply Chain (Walmart, Kroger, Nestle)
R3CEV LLC	2014	200+ Banks, DFIs	Open Source: Corda	ING, Finastra/ FinTech
CBSG (Carrier Blockchain Study Group)	2017 by Softbank	4+, Softbank, LG, Sprint etc.		Telecom, IoT
BiTA (Blockchain in Transport Alliance)	2017 Fall	230+, retailer, carrier, logistics		Transportation
B3i	2016	15+, Insurance companies	Property Cat XOL Contract	Insurance
Ethereum	2015	150+ Enterprise Ethereum Alliance	DAO, EVM, Smart Contract, ETH, ETC	
Stellar	2014		Core, Horizon, Network	BFSI Payment

### Hyperledger Fabric and Indy Platform



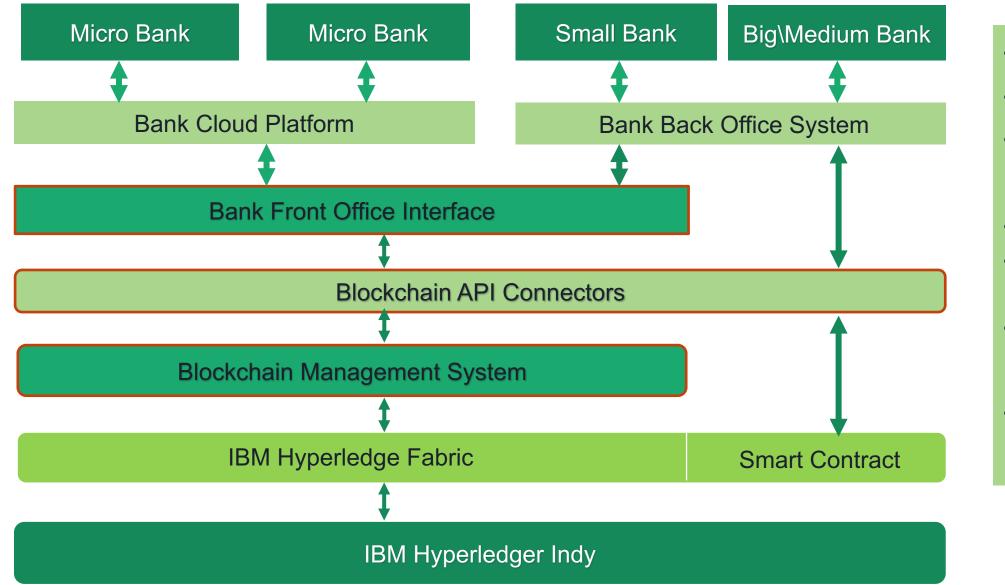
Open

Forum

FinTech

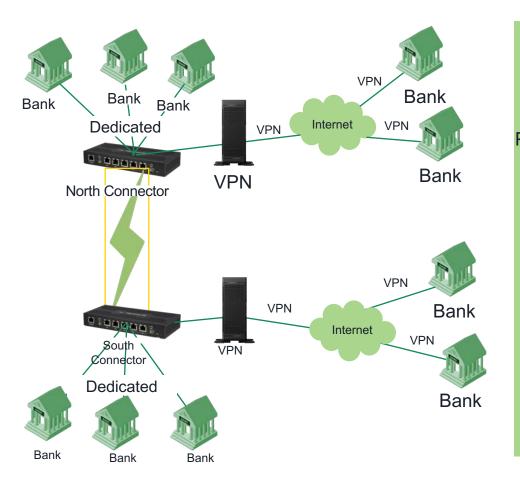
#### LC Solution System Architect

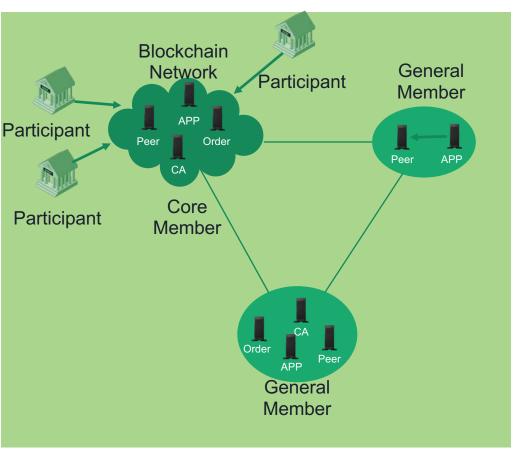
pactera Gopen FinTech Forum



- Blockchain API
- Front office
- Blockchain
  - Management System
- Smart Contract
- API connector
  - Big/Medium Bank
- Front office Interface
  - Small bank
- Bank Committee
  - Micro bank

#### Network and System Deployment





VPN Deployment

pactera

Open

Forum

FinTech

- Dedicated Line Deployment
- Core Member
- General Member
- Participants

#### **Blockchain Platform Operation Mode**

CA

Server

Μ

е

m

b

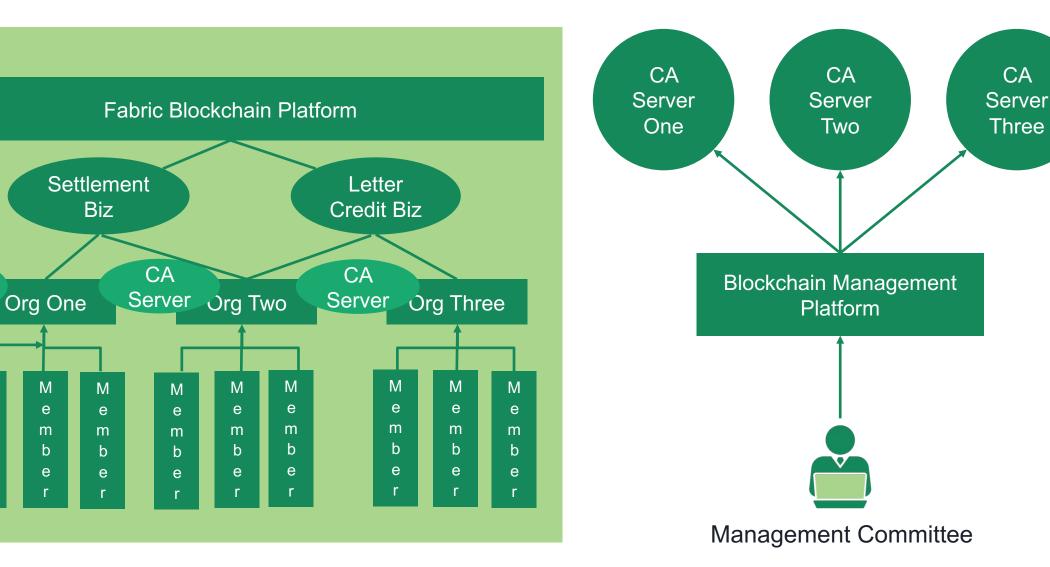
е

Μ

е

b

е



Open

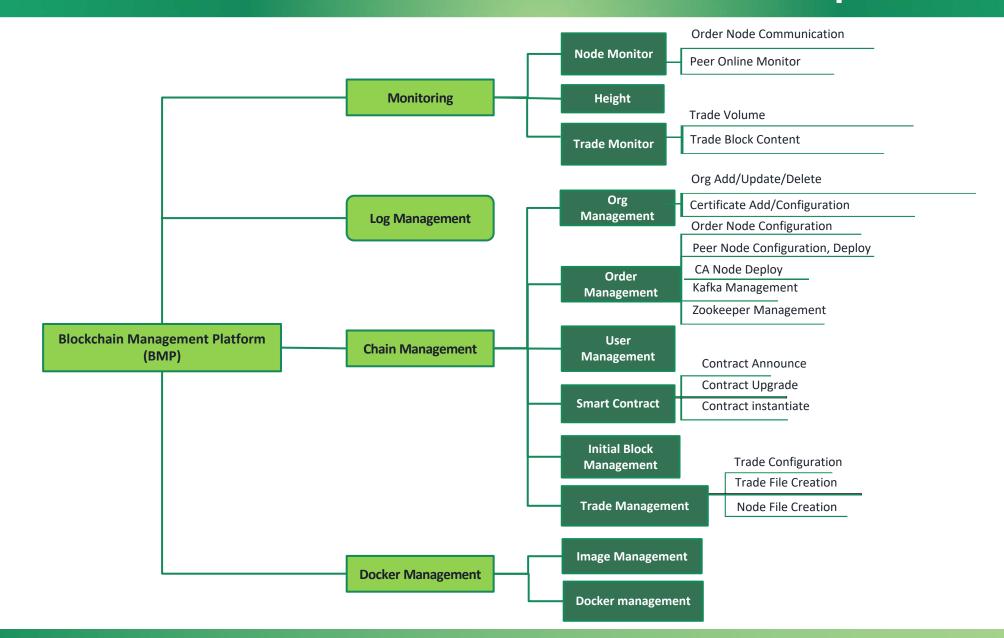
Forum

CA

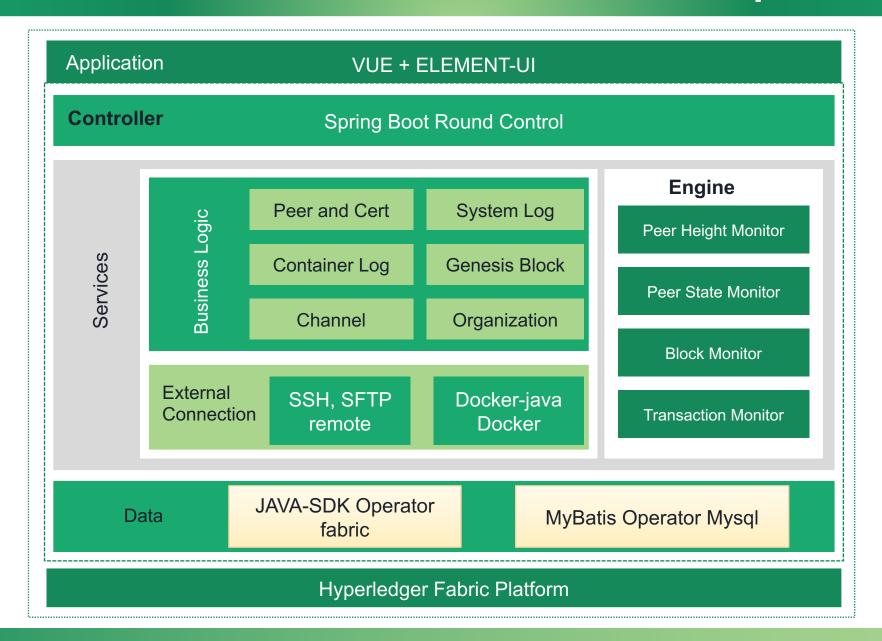
Three

FinTech

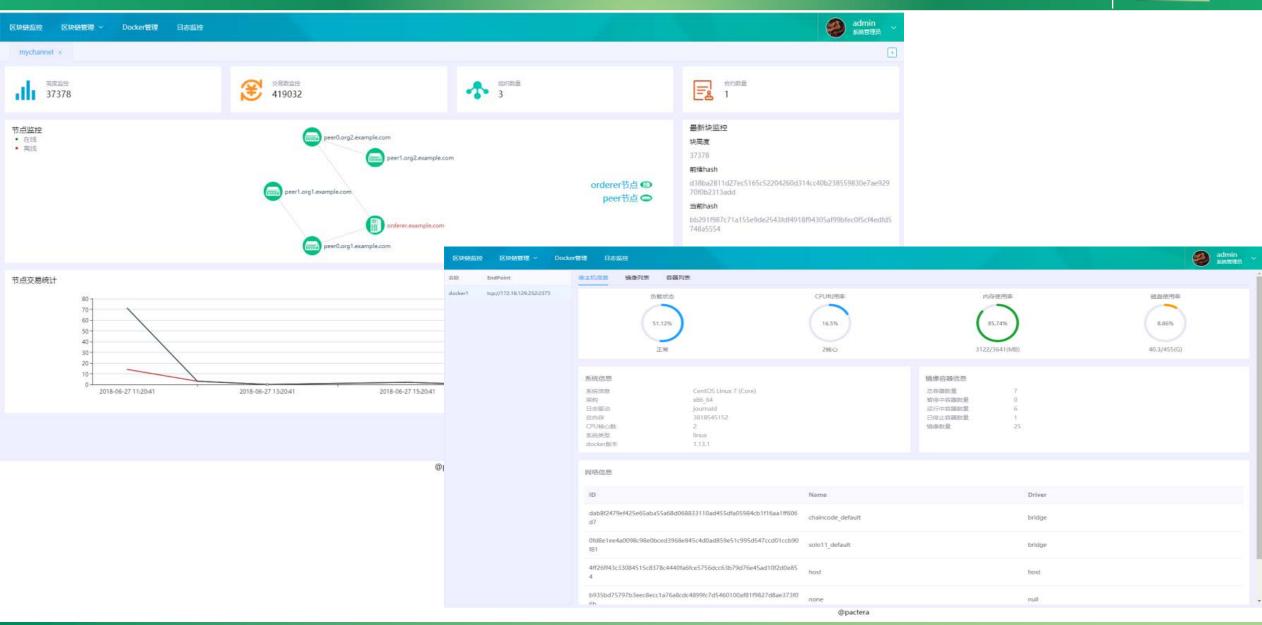
### Blockchain Management Platform Features pactera



### Blockchain Management Platform Architect pactera



### Blockchain Management Platform Snapshot pactera



#### **Results for CGB**

- A Brand-New LC Transaction platform was build and include application layer to integrated with existing system
- A external API connection was built for direct access to the data stored in Blockchain
- A Smart contract was implemented for rules and payment
- Transaction time reduce to within 1 week



Open

Forum

FinTech

#### Lesson Learned



Blockchain Technology is NOT Solution for Everything or Everyone How many participants are involved? If more than 3 then go next ...

Are all the participants stakeholders ? If yes, then go next ...

Aren't there any trusted mediators? If yes, then go next ...

Are there any Profit & Lost involved? If yes, then go next ...

Are all stakeholders share the business data? If yes, please talk to DLT consultant or me.

### Pactera Blockchain/DLT Solution Stack

pactera

Brand and Business Innovation Consulting							
Integrated Digital Marketing	Web   Mobile Experiences	Digital Products   Marketplaces	Enterprise   B2E Applications	Connected Experiences   IOT			
Blockchain/ DLT Implementation, Deployment and Operation; BMP							
Digital Platforms Content Management   Marketing Automation   Commerce							
Web Analytics   BI Dashboards   Data Science   Advanced Analytics							
Continuous Delivery (DevOps)							
Cloud   Security							



# **THANK YOU**

Yong.Liang@pactera.com