

CTTL-Terminals Initiative Helping Customers to Accelerate Commercial Solutions (IoT Products and Applications)

CHINA TTL-Terminals, CAICT

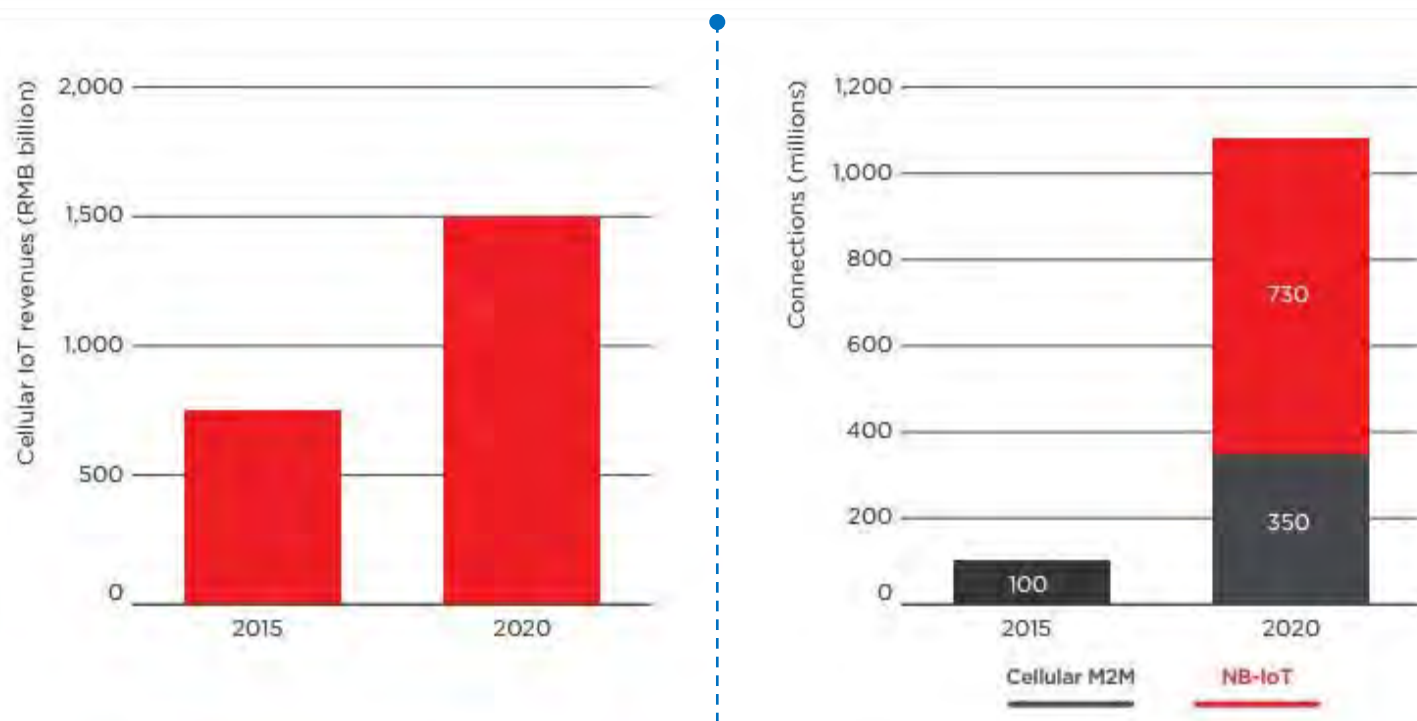
Sep. 7, 2017 @ Shenzhen

1、 Value of test / certification for IoT products and applications

2、 Brief introduction of CTTL-T CAICT

IoT Driving Huge Market Growth Presenting New Opportunities

IoT revenues and connections forecasts in China – 2015 and 2020



source: CAICT , GSMA Intelligence

Differentiation is the key characteristics of IoT

The platform of traditional mobile smart terminal has the characteristics of homogenization. However, IoT has the characteristics of differentiation, which can be particularized in the followings:



Industry/Area

Fragmentation

- Different industry users
- Different business scenarios



Products

Diversification

- Different demands of module specifications.
- Various of product forms

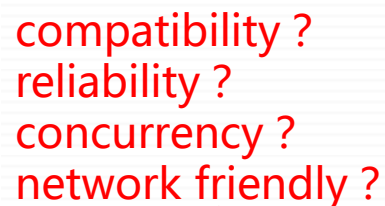


Commercial Model

- IoT contains abundant high-tech fields, such as traditional telecommunication, sensors, computer technology, softwares, and etc.
- Its value chain and commercial model need to be further clarified.

Test requirements for IoT can be the same as smart phones?

IoT Devices

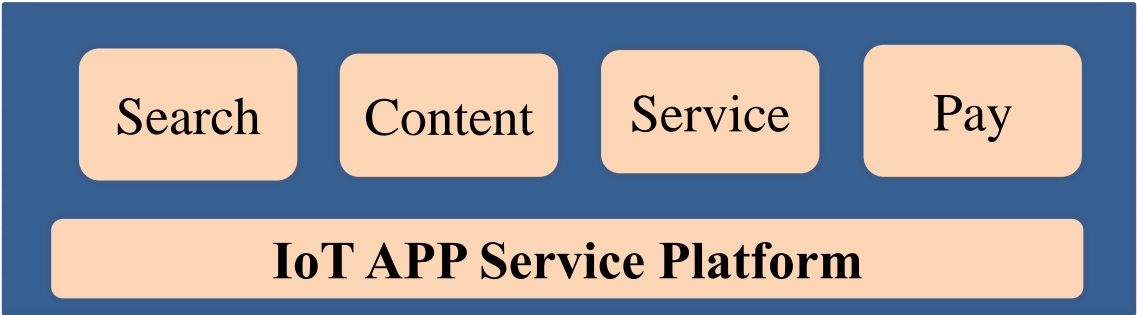


A night view of a city skyline, likely New York City, with several vertical lines and dots overlaid, representing data points or connections. The lines are thin and white, extending from the top of the image down to various points on the skyline. The dots are small, white, and circular, positioned at the end of each line. The background is a dark, cloudy night sky with city lights illuminating the buildings.

Smart City

Different layer, different demand on IoT testing

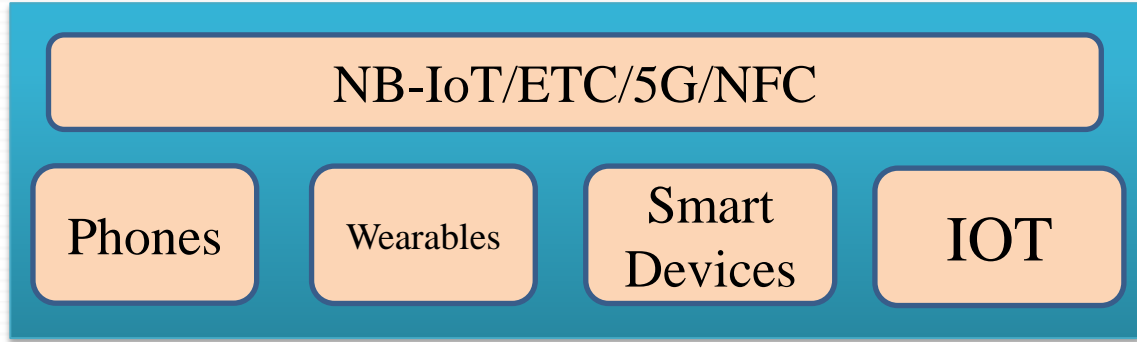
bicycle sharing+
electronic fence+
Pay (Fines)



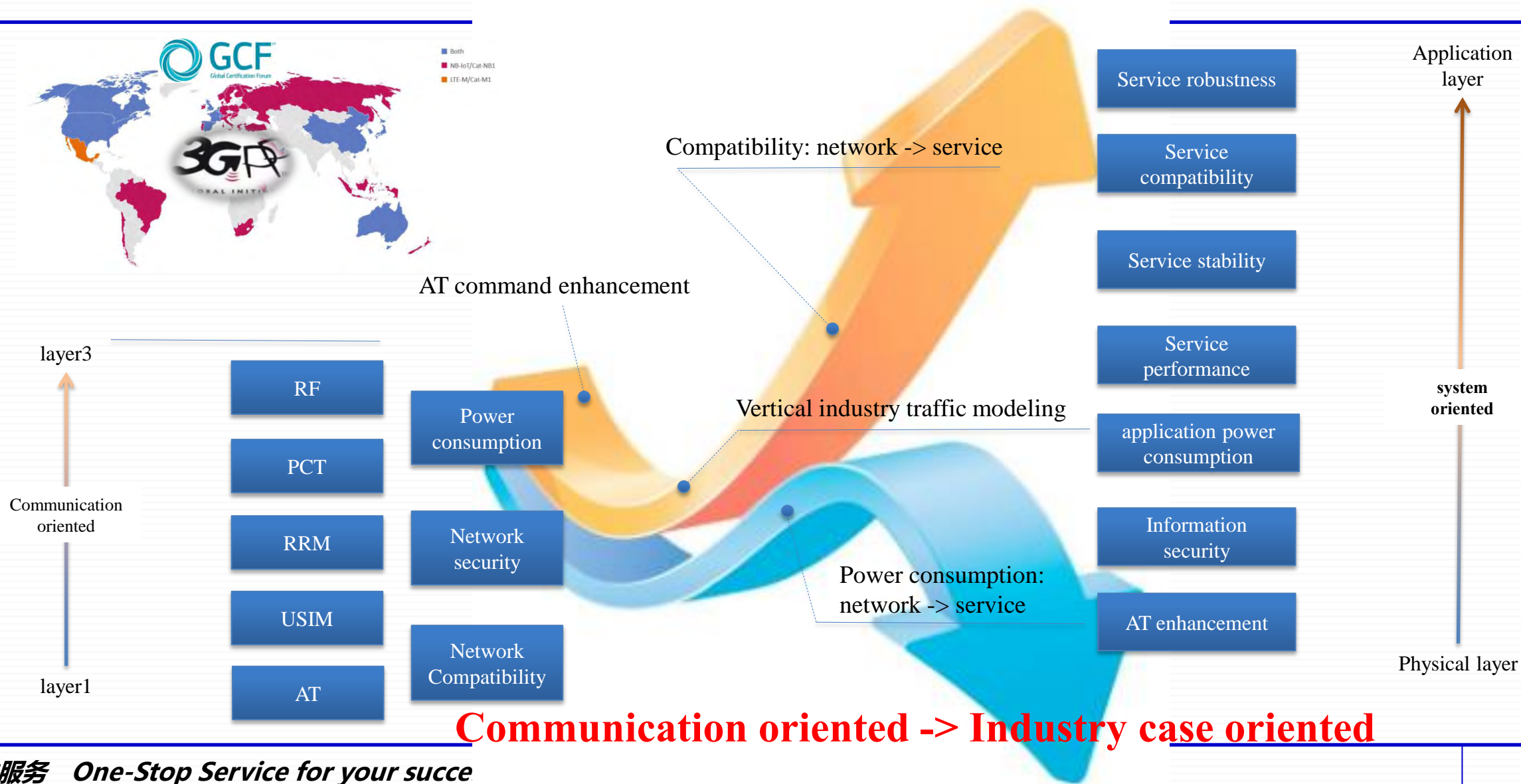
bicycle sharing+
electronic fence



bicycle sharing

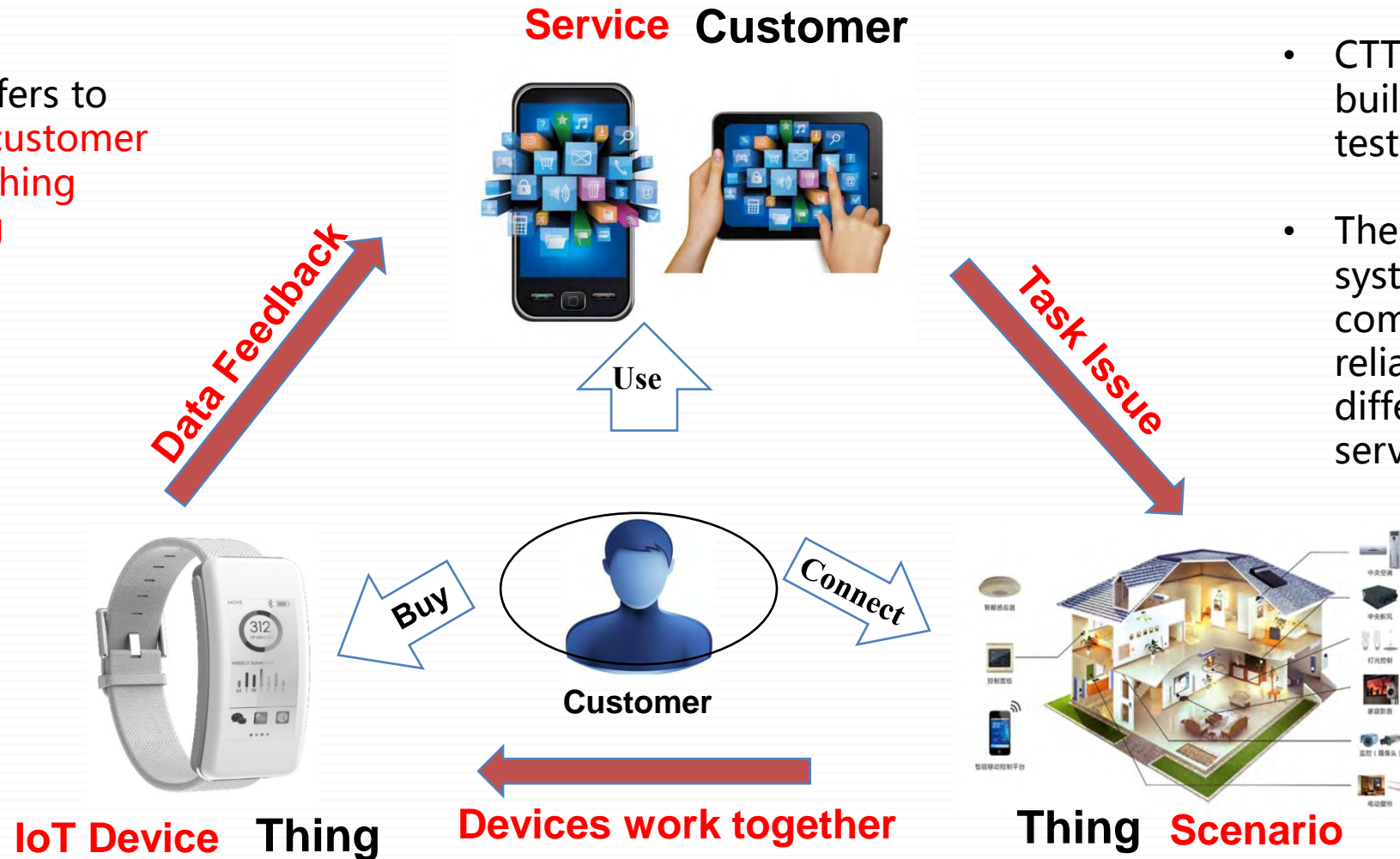


Idea of enriching the test for IoT: Communication -> Application



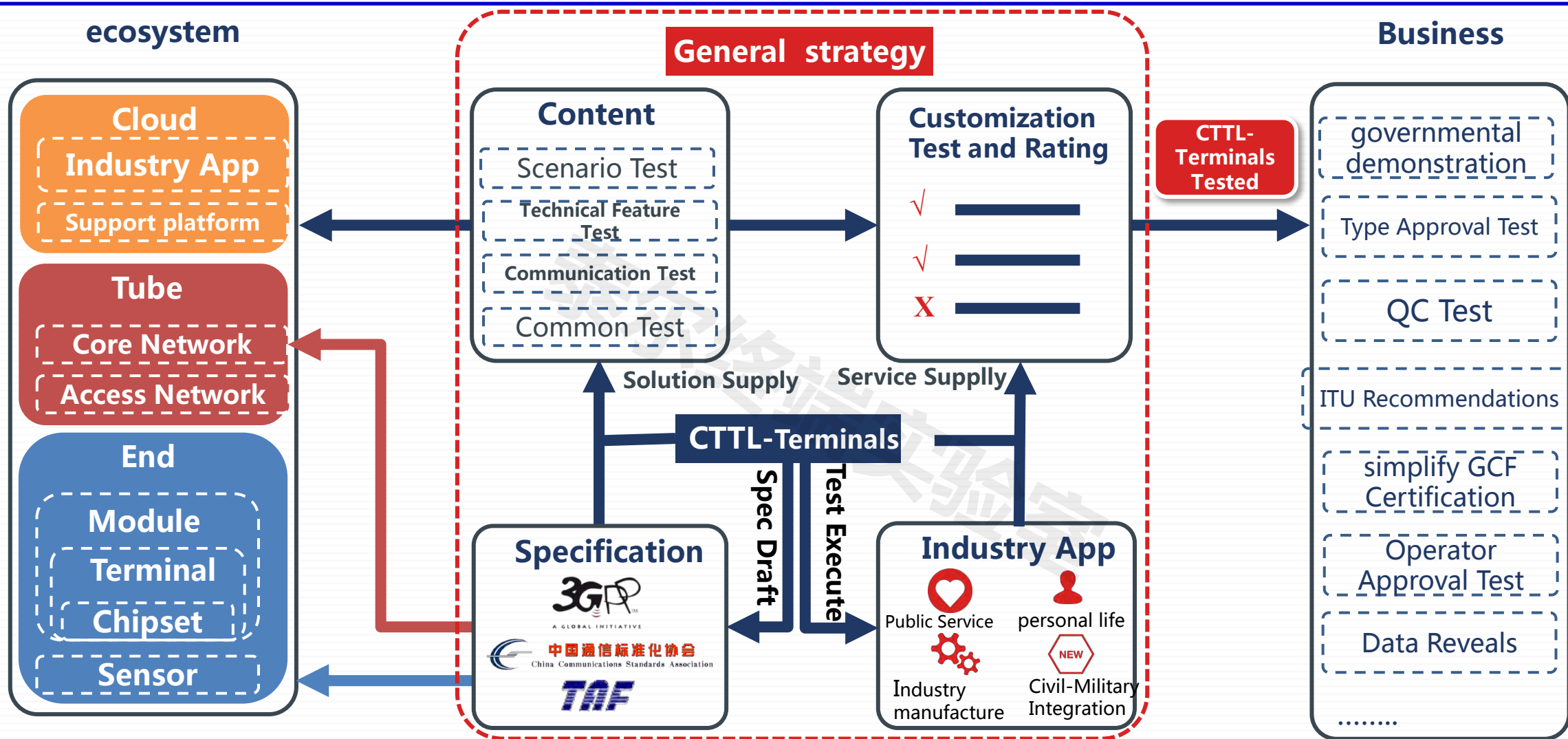
The Key goal of IoT testing: Trust

IoT Services refers to
customer——customer
customer——thing
thing——thing



- CTTL-Terminals is now building a brand of IoT test system.
- The purpose of IoT test system is to ensure the compatibility and reliability among different IoT devices and services.

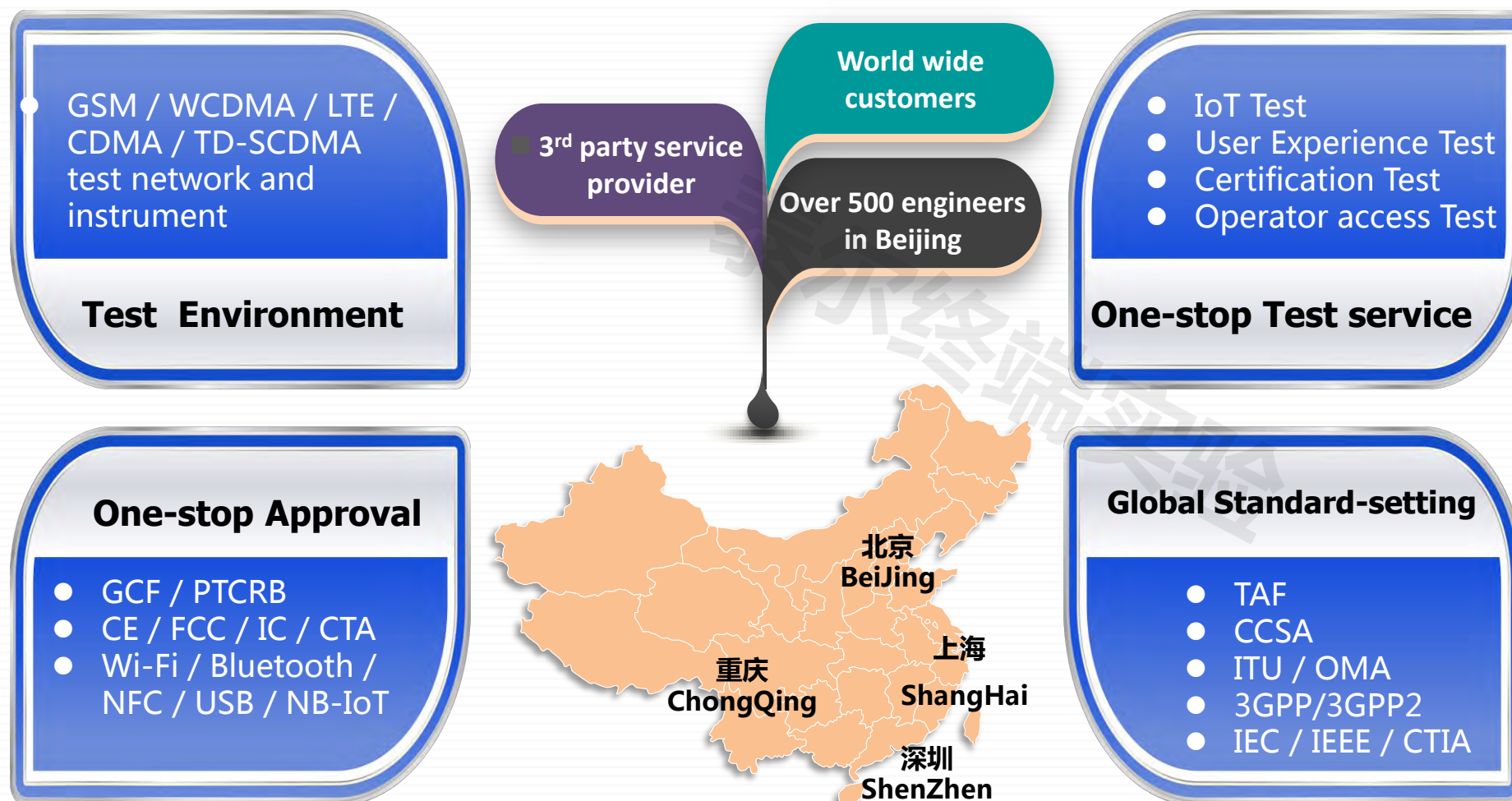
Architecture of IoT Test System



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Brief introduction of CTTL-Terminals



Achievements of CTTL-Terminals

Quality
System:



CMMI

From
Operators:



vodafone



SoftBank

From
Industry
Forums:



From
Governments:



Others:



All communication technologies



Terminals under tested



IoT can be applied in many ways



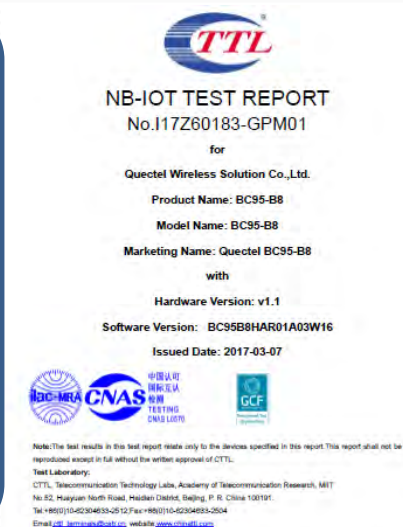
Cooperation Partners

Operators		O T H E R S	
Chipset and Module Manufactures			
Mobile Manufacturers and design house			



1st Validation
Report for
SP8630 NB-IoT
Testing System
on
Jan.18, 2017
at
GCF CAG#49

1st GCF test
report of
NB-IoT
Module



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Thanks !

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