

“合作生态、开放共赢” 中国联通身份认证体系

Union For Partners
Identity Service Architecture of China Unicom

中国联通

China Unicom

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1- 中国联通身份认证业务的背景及需求

1- Background & Demand of Identity Service in China Unicom

中国联通身份认证业务

互联网用户账户隐私安全形势愈加严峻，中国联通肩负社会责任，应充分开放自身用户安全认证能力，解决日益严重的互联网用户隐私安全问题。MNOs have the responsibility to open their user authentication ability to solve privacy leakage issues.

Verizon发布数据泄露调查报告，
密码成黑客主要突破口

Verizon released a report on data leakage, which indicates password the major breach

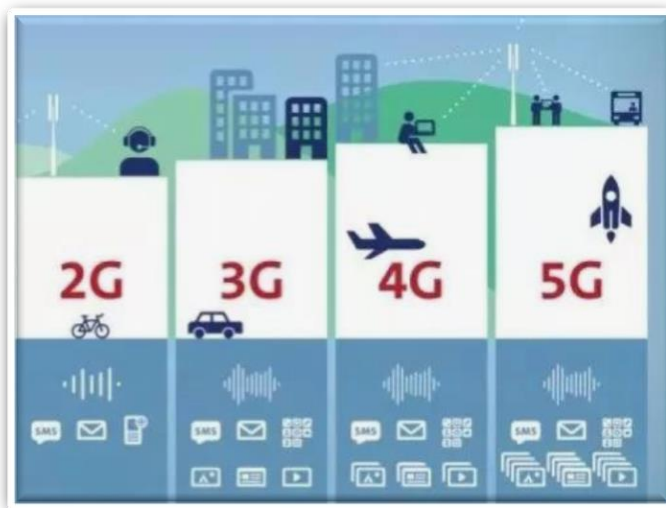
网络安全法加强个人信息保护，
支持 电子身份认证技术

Cybersecurity Law strengthen the protection of personal information and supports E-authentication

用户便捷登录需求依然强烈

Easy login need is still strong

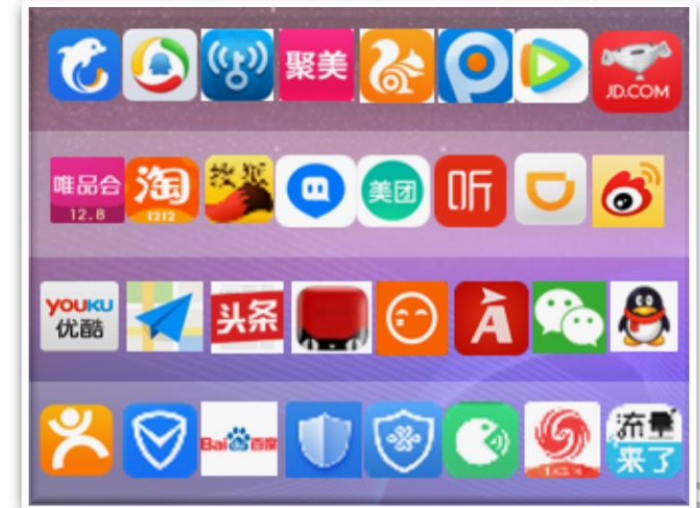
中国联通网络系统复杂、业务系统庞大、合作伙伴众多，影响国计民生的方方面面，有必要构建“生态合作、开放共赢”的身份认证保障体系。China Unicom has quite huge amount of network systems and service systems as well as quite enormous partners, they are influencing the whole society and requires high-security identity guarantee system.



网络系统 Network Systems



业务系统 Service Systems



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中国联通加快推进互联网化转型，未来将以市场化为导向，重点发展创新业务。而创新业务对安全性的要求更高，因此需要加快构建新型身份认证体系。China Unicom is pushing Internet transformation and focuses on innovative services based on the market need. These innovative services have much higher security demand, thus new identity service system is urgently needed.



5G

虚拟现实
Virtual Reality



人工智能
Artificial Intelligence

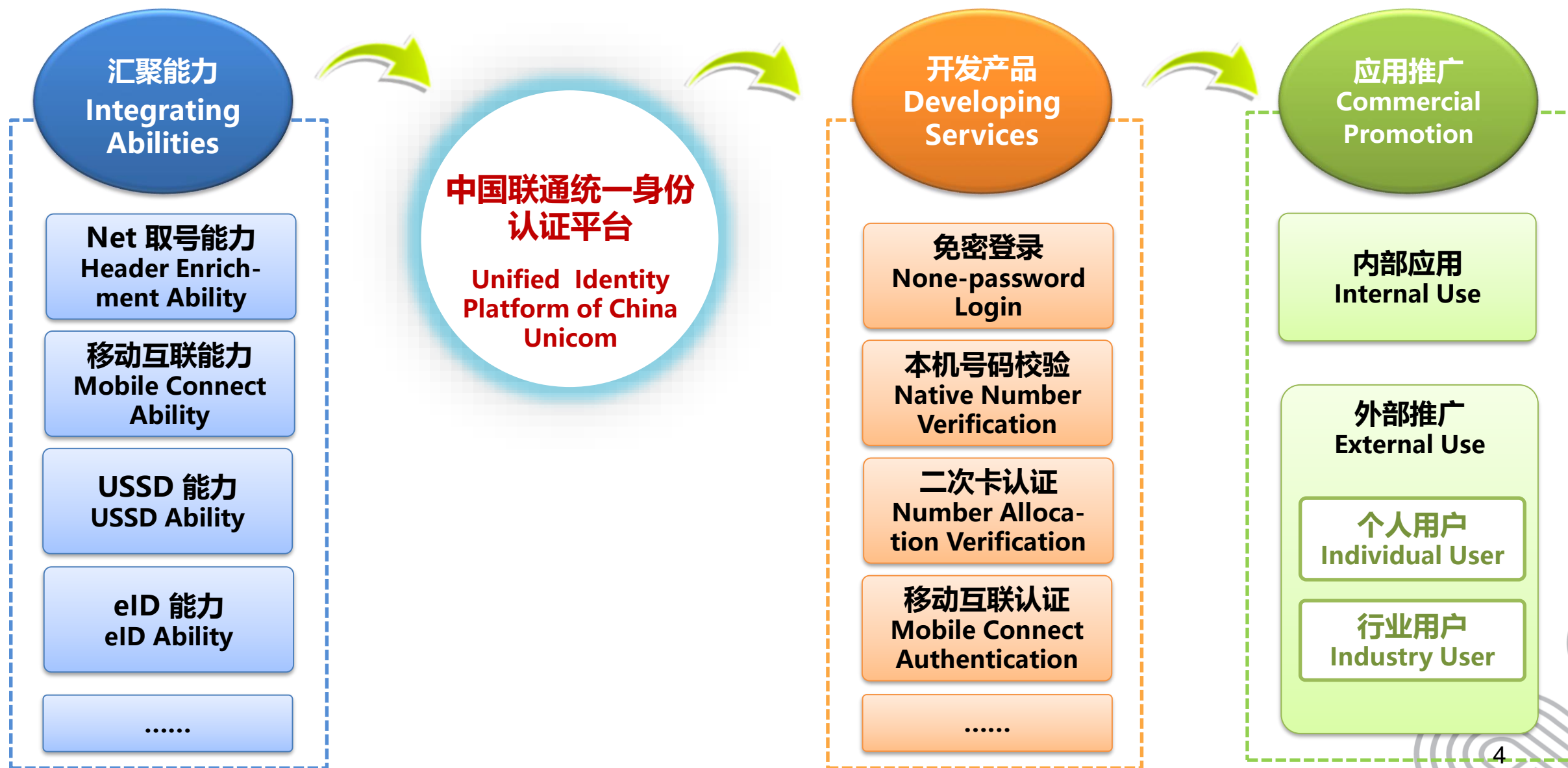
物联网
Internet of Thing



移动互联网
Mobile Internet

2- 中国联通身份认证业务体系架构

2- Identity Service Architecture of China Unicom



2.1- 中国联通身份认证业务发展情况 —— 免密登录

2.1- Identity Service Architecture of China Unicom —— None-password Login

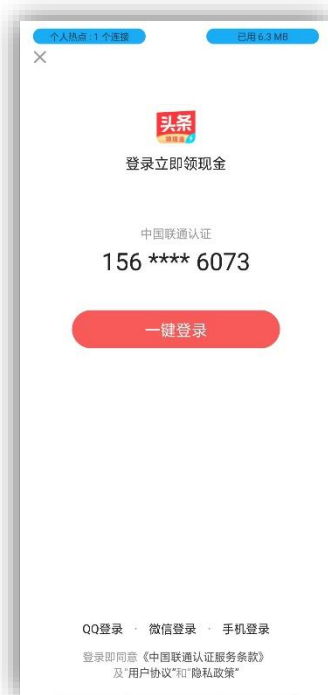
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免密登陆是指在用户授权情况下快速获取用户手机号码进行安全校验，主要应用于互联网及金融领域。

None-password Login is a safe authentication method that get phone number from operator's network, it can be used in Internet and financial field.



点击登录
Press Login Button



点击一键登录
Choose None-password Login



登录成功
Login successfully

2.2- 中国联通身份认证业务发展情况 —— 本机号码校验

2.2- Identity Service Architecture of China Unicom —— Native Number Verification

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本机号码校验可快速校验用户输入号码与本机号码是否一致，免去输入验证码的繁琐操作。Native Number Verification is an efficient authentication method that compares the input number with the phone number, it is much simpler than the Message Code Verification method.



输入手机号码
Input Phone
Number



校验当前手机号码
Check Phone
Number



完成校验
Finish
Verification



2.3- 中国联通身份认证业务发展情况 —— 二次卡认证

2.3- Identity Service Architecture of China Unicom —— Number Allocation Verification

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二次卡认证可从号码入网时间判断该号码是否属于二次放号，可为SPs提供判断用户合法性校验的服务。

Number Allocation Verification can verify whether a specific phone number is a second-use one according to its network access time, it can help SPs to verify legal consumer.



2.4- 中国联通身份认证业务发展情况 —— 移动互联认证

2.4- Identity Service Architecture of China Unicom —— Mobile Connect Authentication

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移动互联认证可提供高安全级别的认证服务，主要适用于金融、政府等对安全性要求较高的领域，以发展行业用户为主。Mobile Connect Authentication can provide high-security identity service, it is mainly used in financial and government fields that have high-security requirements.



LoA2



LoA3



沃邮箱
Wo-Mail

3- 中国联通身份认证业务发展情况

3- Identity Service Process of China Unicom

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内部应用 Internal Use

已完成在中国联通内部应用上的大规模布署，已在沃邮箱、沃音乐等自有APP及H5产品上试运行上线。Identity Services have been large-scale deployed in internal applications such as Wo-Mail, Wo-Music, etc.

外部商用 External Use

秉承“生态合作，开放共赢”的商用推广理念，应用领域主要集中于互联网公司及金融公司。目前已完成内部商业模式的规划与分工，明确平台开发和商用推广部门。External use focuses on Internet companies and financial companies. Commercial promotion plan has been finished, and both system deployment department and commercial promotion department have been confirmed.

- 外部日活调用量 External call number per day : **15亿次 1.5 billion**
- 外部月活调用量 External call number per month : **500亿次 50 billion**
- 2019年累计外部调用量 Accumulated external call number in 2019 : **3000亿次 300 billion**

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