

出國報告（出國類別：開會）

參加2018年亞洲公開金鑰基礎建設聯盟 會員大會暨國際研討會出國報告

服務機關：經濟部商業司

姓名職稱：王願琮專員

派赴國家：泰國

出國期間：107年12月2日至12月5日

報告日期：107年12月25日

摘要

亞洲公開金鑰基礎建設聯盟（Asia Public Key Infrastructure Consortium, APKIC）為亞太地區推動資訊安全及公開金鑰基礎建設（Public Key Infrastructure, PKI）等電子認證技術與應用之發展的國際性組織。前身為亞洲PKI論壇（Asia PKI Forum, APKIF），2008年由我國、中國大陸及韓國主導轉型成立APKIC。目前會員計13個會員，包括我國、韓國、泰國、印度、香港、澳門、伊朗、孟加拉等8個主要會員、我國中華電信子公司中華資安國際（股）公司（以下簡稱中華資安公司）與神盾(股)公司（以下簡稱神盾公司）、中國大陸廣州網融信息技術有限公司（G4B Information Technology Co., Ltd.，以下簡稱G4B公司）與北京數字認證股份有限公司等4家企業會員及1位日本籍個人會員等。

2016年11月APKIC會員大會選任泰國PKI論壇主席Ms. Surangkana Wayuparb擔任APKIC主席，任期自2017年1月1日至2018年12月31日止，並委請香港PKI論壇擔任APKIC秘書處。APKIC每年定期召開特別指導委員會（Special Steering Committee meeting, SSC）、會員大會（General Assembly, GA）、指導委員會（Steering Committee, SC）等會議，以推動APKIC之各項工作。相關會議由APKIC秘書處籌辦，並結合其他各項資源辦理。

本次APKIC指導委員會暨會員大會內容包括：

- (一) 各工作組報告2018年執行成果及2019年工作規劃與預算。
- (二) 秘書處報告2018年度活動成果。
- (三) 本次亞洲PKI聯盟會員大會重點決議。
 - 1. 同意2018年經費使用情形。
 - 2. 核定2019年工作計畫及預算。
 - 3. 選舉下屆主席及副主席，並指定印度PKI論壇擔任秘書處。

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壹、目的

APKIC為推動資訊安全及電子認證相關技術與應用之跨國組織，係於2007年從亞洲PKI論壇轉型成立，每年11至12月間召開年度會員大會，辦理包括指導委員會、會員大會，以及各工作組會議。另外依實際需求，於年中召開特別指導委員會會議。

我國長期參與APKIC，推動國際組織交流合作，廣宣我國安全的電子商務環境，並持續協助企業蒐集國際最新PKI或電子認證相關的技術與應用發展資訊，以確保我國企業之電子認證技術和應用發展與國際技術接軌。其工作項目說明如下：

一、擔任 CTPKIC 秘書處

依據 2009 年「研商中華台北 PKI 推動委員會(CTPKIC)改組暨 2009 年亞洲 PKI 聯盟會員大會、指導委員會暨國際研討會」活動籌備會議之決議，由 CTPKIC 代表我國加入成為 APKIC 主要會員，旨在推動我國 PKI 相關產業與國際接軌，以實現結合國際間相關電子認證實務應用。援例邀請財團法人中華民國國家資訊基本建設產業發展協進(NII)董事長擔任 CTPKIC 主席，並由經濟部商業司司長擔任共同主席。

為配合參與 APKIC 會議，並負責運作 CTPKIC 秘書處業務，作為我國參與 APKIC 之聯繫窗口及幕僚，扮演聯繫國內產、官、學、研各界之橋樑。

二、參與 APKIC 各會員間之交流合作

我國自 2008 年獲 APKIC 各主要會員支持，主導成立兩大工作組，包括商業應用案例工作組（Business Cases & Application Working Group, BAWG）和行動安全工作組（Mobile Security Working Group, MSWG），並自 2009 年起擔任上列二個工作組召集人，配合 APKIC 辦理 BAWG 及 MSWG 相關推廣活動或技術合作。

為因應新科技及產業發展，於 2017 APKIC 指導委員會及會員大會時，探討及共識調整工作組為技術與標準工作組(Technology and Standards Working Group, TSWG)、商業應用工作組(Business Applications Working Group, BAWG)及法律及策

略架構工作組(Legal and Policy Framework Working Group, LPWG)。

目前 APKIC 共計 13 個會員，包括我國、香港、澳門、韓國、印度、泰國、孟加拉與伊朗等 8 個主要會員、我國中華資安公司與神盾公司、G4B 公司與北京電子認證公司等 4 家企業會員及 1 位日本籍個人會員等。本次前往泰國普吉島出席 APKIC 指導委員會/會員大會暨國際研討會，主要目的是瞭解各會員對 APKIC 未來運作想法、各工作組未來推動重點方向、加強與其他會員交流可能合作機會，將作為我國持續參與之重要參考。

三、推動其他相關國際組織交流合作

藉由 APKIC 於電子認證領域之影響力，一方面維持與 APKIC 會員之密切交流，並討論可能之合作與商機；另一方面，藉此場合拓展與其他國際組織之技術與應用交流，例如東南亞國家協會（The Association of Southeast Asian Nations, ASEAN）、FIDO（Fast Identity Online，以下簡稱 FIDO）聯盟、歐盟電子身分識別和信賴服務（electronic IDentification, Authentication and trust Services, eIDAS）等組織，推動多元國際交流管道，提升我國國際曝光與增加開拓海外市場機會。

貳、過程

本次APKIC指導委員會暨國際研討會於2018年12月3日在泰國普吉島辦理，共有來自我國、泰國、印度、香港、澳門、韓國、伊朗、孟加拉等8個主要會員、2家企業會員為我國中華資安公司及神盾公司、1位日本籍個人會員及1位卡達商務運輸部代表，共計30位代表出席本次會議（名單如附錄1）。我國由CTPKIC秘書長黃維中代理魏哲和主席、經濟部商業司王願琮專員、秘書處劉瑞梅、石美琪、中華資安公司王文正副總經理、神盾公司張心玲副總經理等6位出席。2018亞洲PKI聯盟指導委員會及會員大會、2018亞洲PKI聯盟國際研討會詳細如下：

一、2018亞洲PKI聯盟指導委員會及會員大會

(一)會議日期與議程

- 時間：2018年12月3日（星期一）9:00~17:00
- 地點：泰國普吉島
- 議程：如圖1



Steering Committee & General Assembly Meeting 2018
Asia PKI Consortium
AGENDA



3 December 2018 | Pullman Hotel and Resort, Phuket, Thailand

Time	Activities	Memo	Chaired By
09:00 – 09:15	• Opening Address	Chairperson and Vice Chairpersons	Chairperson
Working Group Meeting Venue: Pullman Hotel and Resort, Phuket, Thailand			
09:15 – 10:30	<ul style="list-style-type: none"> • Adoption of the agenda • APKIC organization chart • Working group roadmap • Introduce Co-Leader & Members of each working group • Mutual agreement for Co-Leaders (BAWG, LPWG, and TSWG): <ul style="list-style-type: none"> ○ Self-promotion statements by each Co-Leader ○ Mutual agreement from the members of the corresponding working groups • WGs' draft regulations: <ul style="list-style-type: none"> ○ Terms of service ○ Qualifications (optional) ○ Membership dues (optional) • 2019 APKIC WGs' work and budget plans 	Secretariat Office	Secretariat Office
Steering Committee Meeting Venue: Pullman Hotel and Resort, Phuket, Thailand			
10:30 – 12:00	<ul style="list-style-type: none"> • Adoption of the agenda • 2018 Membership status and recruitment achievement conclusion and 2019 plan: <ul style="list-style-type: none"> ○ Current membership status ○ 2018 Recruitment achievement conclusion ○ 2019 New members recruitment plan • APKIC financial summary: <ul style="list-style-type: none"> ○ 2018 APKIC financial report ○ 2019 APKIC proposed budget • Official nomination of 2019-2020 APKIC Chairperson and Vice Chairpersons candidates • New Initiatives <ul style="list-style-type: none"> ○ Continuation of summary out of last New Delhi SSC Meeting ○ Signing the resolutions of 2018 SSC meeting • Request proposals for 2019 APKIC SSC and GA/SC location and hosting countries • Any other business (AOB) 	Secretariat Office	Chairperson
12:00 – 14:00	Lunch Break		

(二) 會議內容重點摘述

彙總本次會議重要結論如下：

1. 工作組

- (1) 會員同意本次會議提議的議程，並認同 APKIC 組織架構圖、工作組藍圖及新工作組的結構。
- (2) TSWG、BAWG 及 LPWG 等各工作組召集人說明管理規章初稿，近年來工作組成果，未來會持續制訂年度工作計畫。
- (3) 各工作組召集人與會員討論 2019 年 APKIC 各工作組目標及預算，BAWG 規劃執行解決跨域或跨區域問題之必要的活動，促進會員之間交流與合作的目標，以廣宣資訊應用及增強資訊科技服務；LPWG 希望在安全交易框架下舉辦 LPWG 高峰會，並持續推動互通性，同時與政府單位及相關產業共同合作；TSWG 規劃公鑰加密和新興技術等相關技術與標準活動，致力於建立技術交流平台，為會員提供技術案例、白皮書。其 TSWG、BAWG 及 LPWG 將依循工作目標執行，並提供每一工作組預算。
- (4) 所有工作組會員均有權利參加即將辦理各工作組活動，各工作組召集人承諾透過有效溝通方式或管道提早分享活動時程表。

2. 指導委員會

- (1) 指導委員會通過提議議程，認可會員們繳交 2019 年會員費情形，並認可孟加拉繳交 2018 年會費所面臨官僚問題。
- (2) 指導委員會認可邀請阿拉伯聯合大公國（阿聯酋）、馬來西亞及卡達成為潛在新會員成果。
- (3) 指導委員會認可 2018 年 6 月 1 日至 2018 年 11 月 28 日的 APKIC 2018 年度財務報表。
- (4) 指導委員會提議 2019 預算。
- (5) 指導委員會正式推薦印度擔任主席，伊朗、香港、泰國擔任副主席。
- (6) 指導委員會同意持續與印度 PKI 論壇聯絡，申請退出網域註冊機構，才能繼續對 APKIC 及郵件網域名稱具有行政控制權，將持續處理中。

- (7) 指導委員會認可郵寄會員 2018-2020 APKIC 策略藍圖手冊費用。
- (8) 指導委員會同意在孟加拉辦理 2019 特別指導委員會預算，在印度辦理指導委員會/會員大會及國際研討會預算。

3. 會員大會

- (1) 會員大會同意各工作組召集人說明 2019 年工作計畫及預算，APKIC 2018 年財務報表及指導委員會認可 2019 年工作預算。
- (2) 會員大會選舉 2019-2020 主席及副主席，由印度 Mr.Venkatraman Srinivasan 擔任主席，副主席由香港 Mr. William Gee、伊朗 Mr. Ali Rahbari、泰國 Mr. Chaichana Mitrpant，由印度 PKI 論壇擔任秘書處並與泰國 PKI 協會進行財務交接事宜。
- (3) 會員大會簡要探討 APKIC 法律相關的問題，如會員費及稅等，建議未來的會議中進一步討論。
- (4) 會員大會同意 2019 年特別指導委員會在孟加拉達卡辦理，指導委員會/會員大會暨國際研討會在印度孟買辦理。

二、2018亞洲PKI聯盟國際研討會

(一)會議日期與議程

- 時間：2018 年 12 月 4 日(星期二) 9:30~13:45
- 地點：泰國普吉島
- 議程：如圖 2

Time	Activities	Speaker(s)	Duration
 International Symposium 2018 Asia PKI Consortium Thailand PKI Association "Global Digital Transformation Role PKI" 4 December 2018 Pullman Hotel and Resort, Phuket, Thailand 			
Morning Session			
09:30	Registration		
10:00	Opening / Welcome Address Group Photo: <ul style="list-style-type: none"> • APKIC Members (Group Photo #1) • APKIC Members, Working Groups and All Speakers (Group Photo #2) 	Mr. Chaichana Mitrpaont The APKIC Secretariat	15 Minutes
10:15	The World of Digital Information and Electronic Documents	Mr. Tushit Bharthuar Senior Product Manager, Adobe Sign	20 Minutes
10:35	Thailand e-Tax Invoice	Ms. Khanit Phatong Director of Office of Digital Development for Business, ETDA	20 Minutes
10:55	The Essential Role of PKI in Belt and Road	Mr. William Gee Partner, Risk Assurance, PwC	20 Minutes
11:15	Integrated Digital Society - With Digital ID	Mr. Venkatraman Srinivasan Founder Chairman, eMudhra Ltd.	20 Minutes
11:35	Lunch Break		
Afternoon Session			
13:00	Panel Discussion: "Global Trends of PKI and Disruptive Technology"	3 Panelists from APKIC: <ul style="list-style-type: none"> • Mr. William Gee - Hong Kong • Mr. Wei-Chung Hwang - Taiwan • Mr. Vijay Kumar - India 1 Guest Panelist: <ul style="list-style-type: none"> • Mr. Raymond Lee - Singapore 2 Moderators: <ul style="list-style-type: none"> • Mr. Supachok Jantarapatin - Thailand • Mr. Pita Jarupunphoi - Thailand 	45 Minutes
13:45	End of The Event		
APKIC Members from Countries 			

圖2 2018亞洲PKI聯盟國際研討會會議議程

(二) 會議內容重點摘述

本次 2018 亞洲 PKI 聯盟國際研討會主題為「全球數位化 PKI 角色轉型」，當日分享主題如下：

1. 第一場

- (1) 主題：The world of Digital Information and Electronic Documents
- (2) 主講人：印度 Adobe 資深經理 Mr. Tushit Bharthuar(如圖 3)
- (3) 內容：

描述企業雲端簽名方案，可提供企業員工身份認證，Adobe Okta 可提供整合方案並應用於 Intesi Group' s CSC Cloud Signature 服務，

提供自動化員工身份認證。Adobe 同時可作為 RA 角色並提供使用者更方便且低成本的認證服務。

Adobe Sign 另外一項方案，可使用於銀行電子身份稱為「BankID」，目前於瑞士已有 750 萬名用戶，此項解決並與公用 eID 服務。



圖 3 亞洲 PKI 聯盟國際研討會第一場主講印度代表

2. 第二場

- (1) 主題：泰國 電子發票
- (2) 主講人：泰國 ETDA 數位商務發展辦公室主任 Ms. Khanit Phatong(如圖 4)
- (3) 內容：

泰國有超過 100 萬個貿易商支付了 740 億的稅額，這個數額是泰國目前電子發票系統在賣家、買家和稅務部門之間使用最大部份的稅收金額。這套系統開始於 2017 年，創使之初是建立在相關法律的安全保護，包括：Electronic Transactions Act B.E. 2544 (2001)，Notification of the Director-General of Revenue Department on e-Tax Invoice by Email B.E. 2560 (2017)，以及 Notification of the Director-General of Revenue Department on e-Tax Invoice B.E. 2560 (2017)。

這系統已開發成為適用於任何正式稅務公司，並應用 PKI 數位簽名，支持至少 175 個用戶。此外，ETDA 也將開發行動 PKI，此項技術並不儲存私鑰於 SIM 中，並應用於 Web 應用程式、FIDO 一起使用，於 2019 年第一季成立試用版。



圖 4 亞洲 PKI 聯盟國際研討會第二場主講泰國代表

3. 第三場

- (1) 主題：PKI 於一帶一路的重要作用
- (2) 主講人：香港 PWC 風控部合夥人 Mr. William Gee(如圖 5)
- (3) 內容：

隨著物聯網興起，從 2015 年到 2018 年增長趨勢高達 23%，推動使用 PKI 的應用程式因為雲服務增長，而逐漸下降到 19%，然而其預測 2 年內將有 42% 的物聯網裝置使用數位認證。

其同時提出了中國大陸與香港特別行政區政府之間進行跨境身份核查的案例研究。中國大陸實施電子簽名法，香港特區實施電子交易條例，並有廣東和香港相互認證認可計劃作為中央治理。

其建議應建議商業信任架構，包括身份、認證、法律法規，以提供安全性、可用性、完整性、機密性和隱私是 PKI 非常重要的要素。



圖 5 亞洲 PKI 聯盟國際研討會第二場主講香港代表

4. 第四場

- (1) 主題：整合性數位化社會-使用數位身份認證
- (2) 主講人：孟加拉 eMudhra Ltd 創辦人 Mr. Venkatraman Srinivasan(如圖 6)
- (3) 內容：

傳統交易的痛點在於交易點必需透過面對面的方式，且大多是熟識的親人或朋友，信任的建立在於個人的理解，且交易方式是透過實體貨幣，此種方式受限於環境因素影響，無法在任何時間任何地點皆可完成交易的方式進行，相對於數位網路環境下，顯得較無效率。

如今若能透過 PKI 的技術即可輕鬆解決，人們可使用電子化數位身份取得進入系統的資格，並使用線上服務，數位化身份認證單位，可由政府或其他經過認證的單位執行。

最終整合性數位化社會將依賴於有效率的數位化身份。個人隱私、無紙化轉換以及區塊鏈，也都與數位化身份習習相關。此架構需考慮可擴展性、有效性和可用性等。



圖 6 亞洲 PKI 聯盟國際研討會第四場主講孟加拉代表

5. 論壇

- (1) 主題：近年來各國採用的 PKI 技術為何？ 以及其運用結果
- (2) 主講人：Mr. William Gee - Hong Kong、Mr. Wei-Chung Hwang - Taiwan、Mr. Vijay Kumar - India(如圖 7)
- (3) 內容：

在香港，他們研究數位簽名技術和法律，這些技術和法律用於建立銀行等各種行業的信任。數位簽名必須依賴由證書頒發機構生成的數字證書。因此，所有使用數位簽名的應用程式也必須採用認證因素並遵守該國的法律。

在新加坡，我們提供安全解決方案，尤其是行動裝置。新加坡政府還在行動裝置的 SIM 卡中採用 V-Key 技術。因此，新加坡人必須通過行動裝置進行身份驗證。



圖 7 亞洲 PKI 聯盟國際研討會第五場論壇各會員國代表

參、心得與建議

我國透過積極參與APKIC運作與活動，維繫良好國際關係，持續推動國際交流，並與APKIC會員進行電子認證技術與應用之互動交流，藉以掌握國際最新發展趨勢與商機。同時提供我國電子認證相關業者最新資訊與交流機會，爭取國際商機。

一、參與活動以瞭解會員對APKIC未來運作想法及發展動向

本次會議決議APKIC調整後的三個工作組名稱及召集人，包括TSWG、BAWG及LPWG。其中BAWG由我國與印度擔任召集人，未來將積極規劃廣宣我國在PKI及電子認證應用成果，爭取合作商機。

二、APKIC 積極邀請新成員加入

APKIC 積極邀請阿拉伯聯合大公會、馬來西亞、卡達等加入，有助提高 APKIC 組織代表性，增加與其他國家交流機會。

三、掌握 PKI 暨電子認證在國際上發展現況，提供我國參考

本次會議對 PKI 及電子認證探討朝向多元應用方向，其中與 FIDO 合作，期望會員先共識技術架構，雙方合作創造雙贏，將同步提供我國 PKI 或電子認證等相關資安業者參考。

附錄1 APKIC指導委員會出席名單

國家	姓名	職稱
中華民國	黃維中	代理 CTPKIC 主席/ APKIC MSWG 召集人
	王願琮	中華台北 PKI 暨電子認證聯盟秘書處代表
	劉瑞梅	中華台北 PKI 暨電子認證聯盟秘書處代表
	石美琪	中華台北 PKI 暨電子認證聯盟秘書處代表
	王文正	中華資安國際(股)公司
	張心玲	神盾(股)公司
泰國	Ms. Surangkana Wayuparb	泰國 ETDA 代表
	Mr. Chaichana Mitrpant	泰國 ETDA 代表
	Mr. Vorachat Kaveevorasart	泰國 ETDA 代表
	Mr. Supachok Jantarapatin	泰國 ETDA 代表
香港	Mr. William Gee	代理香港 PKI 論壇主席
	Ms. Zhang Li	香港 PKI 論壇代表
	Mr. Pius Li	香港 PKI 論壇代表
	Ms. Peony Wong	香港 PKI 論壇代表
印度	Mr. Venkatraman Srinivasan	印度 PKI 協會代表
	Mr. Vijayakumar Manjunatha	印度 PKI 協會代表
	Mr. Nik khairul Raja Abdullah	印度 PKI 協會代表
	Mr. Shamsuddin Khan	印度 PKI 協會代表
澳門	Ms. Hio Hong Ip	澳門郵電局電子認證服務處代表
	Mr. Kai Tong Chao	澳門郵電局電子認證服務處代表
孟加拉	Mr. A.K.M. Shamsuddoha	孟加拉 PKI 協會代表
	Mr. Masudul Haque	孟加拉 PKI 協會代表

	Mr. Md. Hasib Hasan	孟加拉 PKI 協會代表
	Ms. Farhana Haque	孟加拉 PKI 協會代表
	Ms.Nuzhat Atiqua Nafis	孟加拉 PKI 協會代表
伊朗	Mr. Ali Rahbari	伊朗電子商務發展中心代表
	Mr. Mohammad Javad Sharifpour	伊朗電子商務發展中心代表
韓國	Mr. Jong Hyun Baek	韓國 PKI 論壇代表
日本	Mr. Atsushi Inaba	個人會員，GMO GlobalSign K.K.
卡達	Mr. Fahad SAEED J S ABDULLA	商務運輸部代表

附錄2 APKIC指導委員會及會員大會代表合影及討論狀況



12/3 指導委員會及會員大會會議討論實況



12/3 指導委員會及會員大會會議討論實況



我國代表與泰國、印度、伊朗、孟加拉等代表合影



我國代表劉瑞梅、黃維中、王願琮、張心玲、石美琪、王文正合影

附錄3 APKIC指導委員會及會員大會會議紀錄

Resolutions of the 2018 GA/SC Meetings Asia PKI Consortium Phuket, Thailand December 3rd, 2018

Working Group Meeting:

1. Members adopted the proposed agenda, acknowledged and agreed on the organization chart, working group roadmap, and the new working group structures.
2. The Co-leaders of the Business Application Working Group (BAWG), Legal and Policy Framework Working Group (LPWG), and Technology and Standards Working Group (TSWG) presented draft regulations. They also presented working group achievements throughout the years and would like to continue their plans for the following years.
3. Co-leaders and members discussed the 2019 APKIC WGs' work plans and related budget. The BAWG plans to implement the activities necessary to resolve the cross-domain or cross-region issues to achieve the objectives to promote the exchange and collaboration between members to explore and enrich the information applications and IT-enabled services. The LPWG would like to host a LPWG Summit on Intra-Country Secure Transaction Framework, and continue to influence interoperability initiatives, with the inclusion of collaboration with Governments and related industries. The TSWG plans to implement the activities to achieve the objectives in the areas of Technology & Standards of and around Public Key Cryptography and emerging technologies. TSWG shall work in the areas to standardize, make technological advancements, and help bring the technological platforms together for all the members by contributing to technical case studies, whitepapers. For Working Groups' budget plans, the BAWG, LPWG, and TSWG will align and continue their works with USD20,000 each.
4. All members of WGs have the right to be informed on the upcoming activities of WGs during the year to attend. Thus, the co-leaders committed to share the scheduled plan of WG's activities in advance, via an efficient communication channel/manner.

Steering Committee Meeting:

5. Steering Committee adopted the proposed agenda, acknowledged the report of the status of APKIC members and membership fee payments in 2019, and acknowledged the bureaucratic issues Bangladesh faced regarding the payment of 2018 membership fee.
6. Steering Committee acknowledged the recruitment achievements, with United Arab Emirates (UAE) and Malaysia, and the State of Qatar as potential new members.
7. Steering Committee acknowledged the 2018 financial report of APKIC for the period of June 1st, 2018 – November 28th, 2018 indicates the receipt of USD381,772.23, including received from Hong Kong PKI Forum of the accumulated balance of USD307,772.23 and the account balance of USD381,608.23.
8. Steering Committee proposed the 2019 budget: APKIC Annual Activities SSC meeting budget is USD10,000 and GA/SC Meetings and International Symposium is USD35,000, BAWG budget is USD20,000, LPWG budget is USD20,000 and TSWG budget is USD20,000, Secretariat Daily Operation budget is USD1,000 and Membership Recruitment Fund budget is USD3,000.
9. Steering Committee officially nominated 1 candidate from India PKI Forum for the APKIC Chairperson and 3 candidates from Iran Center of eCommerce Development, Hong Kong PKI Forum, and Thailand PKI Association for APKIC Vice Chairpersons.



10. Steering Committee agreed to continue contacting relevant domain name registrar by India PKI Forum for regaining the administrative control of the domain apkic.org and mailing lists will be in process afterwards.
11. Steering Committee acknowledged the shipping fees of USD309.84 to distribute booklets on APKIC Strategic Roadmap 2018-2020 to member economies.
12. Steering Committee approved USD10,000 budget allocation for the 2019 SSC Meeting to be held in Bangladesh and approved USD35,000 budget allocation for the 2019 GA/SC Meeting and International Symposium to be held in India.

General Assembly Meeting:

13. General Assembly approved the Co-Leaders and Regulations of each working group, the 2019 WGs' work and budget plans, and the 2018 financial report of APKIC, and the 2019 budget plan proposed by the Steering Committee.
14. General Assembly voted the 2019-2020 APKIC Chairperson and Vice Chairpersons. The election result was announced that the new APKIC Chairperson is Mr. Venkatraman Srinivasan from India PKI Forum and the Vice Chairpersons are Mr. William Gee from Hong Kong PKI Forum, Mr. Ali Rahbari from Iran Center of eCommerce Development, and Mr. Chaichana Mitrpant from Thailand PKI Association. The new Chairperson has appointed India PKI Forum as the new secretariat office and will discuss with Thailand PKI Association about the financial transfer process.
15. General Assembly briefly discussed the issues related to legal status of APKIC, such as the currency management of membership fees and taxation, and suggested that it should be further discussed in future meetings.
16. General Assembly agreed on the proposals of budget allocation for the 2019 SSC Meeting to be held in Dhaka, Bangladesh and the 2019 GA/SC Meeting and International Symposium to be held in Mumbai, India.

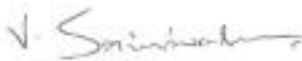


Mr. Chaichana Mitrpant
On behalf of

Ms. Surangkana Wayuparb
Thailand PKI Association



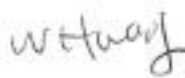
Mr. William Gee
Hong Kong PKI Forum



Mr. Venkatraman Srinivasan
India PKI Forum



Ms. Phoebe Ip
CTT eSignTrust



Mr. Wei-Chung Hwang
Chinese Taipei PKI and
e-Authentication Consortium



Mr. Ali Rahbari
Iran Center for
eCommerce Development

附錄4 各工作組工作規劃報告

一、BAWG 工作報告



APKIC - Meeting | December 2018

Presentation by India PKI Forum

Pullman Hotels & Resorts, Phuket, Thailand

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Vision

"MAKING PUBLIC KEY TECHNOLOGY THE BEST CHOICE FOR BUILDING TRUST IN DIGITAL SOCIETY WITH LEGAL PROTECTION"

Mission

1. Idea creation, information exchange and dissemination on PKI
2. Suggestions on interoperability and security standards
3. Recommendations to governmental bodies on policies, standards and PKI related matters
4. Promotion of greater adoption of PKI among businesses and individuals
5. Cooperation with other organizations to promote public key technologies

Strategies

1. Actively promote innovation and disseminate information
2. Outreach to standard bodies
3. Create mutual recognition frameworks
4. Actively involve end-users, businesses and stakeholders
5. Continually improve how APKIC works



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APKIC

New Working Group Co-Leaders

Business Application (BAWG)

- > Chinese Taipei PKI and e-Authentication Consortium, Taiwan
- > India PKI Forum, India

Legal & Policy Framework (LPWG)

- > Hong Kong PKI Forum, Hong Kong

Technology & Standards (TSWG)

- > India PKI Forum, India



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Key Activity Areas

No	Activity	Outcome	KPI	BAWG	TSWG
1	Increase public-key-technology information distribution channels	APKIC website remake social media presence	Informative and user-friendly website	Y	
2	Increase visibility of APKIC	APKIC represented in key events and fora	Public recognition and concrete collaboration of APKIC in key events an fora	Y	
3	Promote standardization	Establish standards within each economy Publish white papers	APKIC whitepapers being circulated at international platforms		Y
4	Increase visibility of APKIC	Send APKIC representative to key events in other fora	APKIC is an active member of international standardization process	Y	
5	Test mutual recognition agreement	Publish interoperability report	Annual mutual recognition agreement report		Y
6	Promote public key technologies adoption	Initiate a collaborative project that leverage PKI interoperability among APKIC members	Increased use of public key technology	Y	Y
7	Promote public key policy and e-authentication framework	Acknowledgements of electronic authentication framework	Initiative among APKIC members to implement a common electronic authentication framework	Y	Y



Based on the above key activity areas, broad focus of
BAWG & TSWG
Shall be as in the next slide....



Technology and Standards

1. Identity Validation
 1. Procedures
 2. Its assurance levels
2. Mutual Recognition
3. Digital Identity Systems
4. Electronic authentication techniques
5. Electronic Signatures
6. Key form factors:
 1. Smart card
 2. Soft storage, etc
7. Cloud key storage techniques
 1. Long term certificates
 2. Short lived certificates
8. Mobile PKI
9. PKI in IoT
10. Standards of Audits and Assessments (with LPWG)

Business Applications

To be decided with Taiwan co-leader

1. Working along with Industry Forums & Bodies
 1. CAB Forum
 2. Cloud Signature Consortium
 3. W3C
 4. FIDO Alliance
 5. IoT Alliance
 6. Webtrust & ETSI
2. Working on different usages of PKI
 1. Web security (SSL) and Application Security (Code Signing)
 2. Human Signatures, Human ID and Authentication
 3. Device ID and Authentication
 4. Data Encryption for Web and Devices
 5. Digital Time Stamps

Welcome for suggestions



Regulatory and Policy

December 2013

Based on the structure of Asia PKI Consortium (APKIC) and the core competences of business exchange and promotion, the Business Case/Application Working Group (BAWG) remains the function and service since APKIC transformed from Asia PKI Forum in 2007. The main target of BAWG is aiming to enrich the business exchange, explore the business model and possibility, and try to create the diversities of IT-enabled services. Those items shall include PKI, information security, and IT-enabled services like e-commerce, cloud computing, open data, big data, and so on, especially for those services which are cross-region applications.

Article 1 (Name)

The name of this working group is "Business Case/Application Working Group" (hereinafter "BAWG").

Article 2 (Objectives)

The objectives of BAWG are to promote the exchange and collaboration between members to explore and enrich the information applications and IT-enabled services.

Article 3 (Activities)

BAWG will implement the following activities necessary to help resolve the cross-domain or cross-region issues so as to achieve the objectives as specified in Article 2.

- (1) Hold Working Group Meeting, report to Steering Committee and General Assembly in accordingly.
- (2) Conduct necessary surveys, evaluations, pilot experiments, technical trainings and publications, and facilitate discussions or

1

THANK YOU

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conference in BAWG to identify, address and resolve in detail the issues involved.

(3) Conduct consulting services related to information security or related issues to help other organizations and enterprises in the Region to improve the interoperability and application of their information solutions.

(4) Collaborate effectively with other regions by various activities regarding PKI, information security, e-commerce, cloud computing, open data, big data, etc.

(5) Promote friendly relations among the Consortium members.

(6) Undertake any necessary and appropriate activities to achieve the objectives set forth in Article 2.

Article 4 (Membership)

Members who used to attend the BAWG meeting shall be a member of BAWG. BAWG shall deliver the work-plan and achievements report to BAWG members.

Article 5 (Organizations)

BAWG shall be composed of a Co-Leader and members. The Co-Leader shall be responsible for the operation, activities and management of BAWG. BAWG shall be open to all members, including Principal Members, Enterprise Members, NPO Members and Individual Members.

Article 6 (Accounting)

Budget and Final Account of BAWG shall be agreed in BAWG meeting, approved by the General Assembly and the Steering Committee.

-END-

2



Technology & Standards Working Group (TSWG) APKIC - Meeting | December 2018

Pullman Hotels & Resorts, Phuket, Thailand

Technology & Standards Working Group



Proposed Regulation

Technology & Standards Working Group of Asia PKI Consortium (APKIC) Regulatory and Policy | December 2018

Based on the structure of Asia PKI Consortium (APKIC) and its core competences, the Technology & Standards Working Group (TSWG) shall be the function and service of APKIC. The main target of TSWG is aiming to enrich the technologies in and around public key infrastructure, and also work on its standardization.

Article 1 (Name)

The name of this working group is "Technology & Standards Working Group" (hereinafter "TSWG").

Article 2 (Objectives)

The objectives of TSWG are to work on the areas of Technology & Standards of and around Public Key Cryptography. TSWG shall work in the areas to standardize and make technological advancements, and also help bring the technological platforms together for all the members by contributing to technical case studies, whitepapers. TSWG shall take up the activities in any other areas, which is not explicitly restricted by (or for the function of) Steering Committee and the General Assembly.

Article 3 (Activities)

TSWG will implement the following activities necessary to help resolve the cross-domain or cross-region issues so as to achieve the objectives as specified in Article 2.

- (1) Hold Working Group Meeting, report to Steering Committee and General Assembly accordingly.
- (2) Conduct necessary technological surveys, evaluations, pilot experiments, technical trainings and publications, and facilitate discussions or conference in TSWG to proliferate the technology.
- (3) Conduct consulting services related to the technology and the standards around PKI to organizations.
- (4) Collaborate effectively with other regions by various activities regarding PKI and its allied areas.
- (5) Work on Standardization in various areas of Public Key Cryptography.
- (6) Undertake any necessary and appropriate activities to achieve the objectives set forth in Article 2.

Article 4 (Membership)

Members who attend the TSWG meeting shall be a member of TSWG. TSWG shall deliver the work-plan and achievements report to TSWG members.

Article 5 (Organizations)

TSWG shall be composed of a Co-Leader and members. The Co-Leader shall be responsible for the operation, activities and management of TSWG. TSWG shall be open to all members, including Principal Members, Enterprise Members, NPO Members and Individual Members.

Article 6 (Accounting)

Budget and Final Account of TSWG shall be agreed in TSWG meeting, approved by the General Assembly and the Steering Committee.

-END-

Working on Technology and Standards around:

1. Working on Technology and Standards around:
 1. Identity Validation Procedures & Its assurance levels
 2. Mutual Recognition
 3. Digital Identity Systems
 4. Electronic authentication techniques
 5. Electronic Signatures
 6. Key form factors: Smart card, Soft storage, etc
 7. Cloud key storage techniques: Long term & Short lived certificates
 8. Mobile PKI
 9. PKI in IoT
 10. Emerging Technologies: Blockchain, FIDO, etc
2. Standards of Audits and Assessments (with LPWG)
3. Collaboration with Technological organizations and bodies to bring standardization

Proposed Budget
USD 20,000/-



TSWG THANK'S YOU

Technology & Standards Working Group

Technology & Standards Working Group of Asia PKI Consortium (APKIC)

Regulatory and Policy

December 2018

Based on the structure of Asia PKI Consortium (APKIC) and its core competences, the Technology & Standards Working Group (TSWG) shall be the function and service of APKIC. The main target of TSWG is aiming to enrich the technologies in and around public key infrastructure, and also work on its standardization.

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- (2) Conduct necessary technological surveys, evaluations, pilot experiments, technical trainings and publications, and facilitate

1

- discussions or conference in TSWG to proliferate the technology.
- (3) Conduct consulting services related to the technology and the standards around PKI to organizations.
- (4) Collaborate effectively with other regions by various activities regarding PKI and its allied areas.
- (5) Work on Standardization in various areas of Public Key Cryptography.
- (6) Undertake any necessary and appropriate activities to achieve the objectives set forth in Article 2.

Article 4 (Membership)

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Article 5 (Organizations)

TSWG shall be composed of a Co-Leader and members. The Co-Leader shall be responsible for the operation, activities and management of TSWG. TSWG shall be open to all members, including Principal Members, Enterprise Members, NPO Members and Individual Members.

Article 6 (Accounting)

Budget and Final Account of TSWG shall be agreed in TSWG meeting, approved by the General Assembly and the Steering Committee.

-END-

2

Legal and Policy Working Group 2018 Report

Peony Wong for LPWG

Date: 3 Nov 2018

Starting a New Page

Certificate Policy for Mutual Recognition of Electronic Signature Certificates Issued by Hong Kong and Guangdong, 30 September 2018

- Customs Declaration
- Account Opening over Non-Face-to-Face Contract Signing

Responsible Working Group and Strategy Legal and Policy Framework (LPWG)

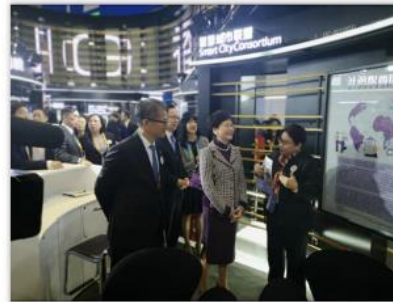
Suggested Activities	Key Outcomes	KPI
Strategy 3: Create mutual recognition frameworks and adopt standards and testing platforms to facilitate interoperability among APKIC members		
3.1 Develop mutual recognition agreement among APKIC members	Publish mutual recognition agreement framework	Annual mutual recognition agreement report
3.2 Test mutual recognition agreement	Publish interoperability report	Annual mutual recognition agreement report
Strategy 4: Actively involve end-users, businesses and stakeholders to encourage larger adoption of PKI		
4.2 Promote public key policy and e-authentication framework	Acknowledgements of electronic authentication framework	Initiative among APKIC members to implement a common electronic authentication framework
Strategy 5: Continually improve how APKIC works (WG group structure, membership, recruiting new members, etc.)		
5.1 Stock check, review and access APKIC work plan regularly	Current status report & audit report w/ improvement recommendations	Endorsed short-term and middle-term work plan
5.2 Restructure APKIC	New organization structure	Agreed APKIC work mechanism

2018 LPWG Achievement Summary			Suggested Activity				Key Outcome			
No.	Date (Location)	Event	3.1	3.2	4.2	5.1	3.1	3.2	4.2	5.1
11	Nov 5-10 (China, Shanghai)	China International Import Expo	✓		✓	✓	✓		✓	
10	Oct 25 (China, Beijing)	Beijing & HK Work Together to Create a New Highland for Hi-tech Development (Beijing-HK Convention) / MOU Signing on Oct 25	✓		✓		✓		✓	
9	Oct 23-25 (China, Beijing)	Beijing-HK Financial Exchange Tour / MOU Signing on Oct 24	✓		✓		✓		✓	
8	Aug 21-23 (China, Shenzhen)	4th China Smart City International Expo 2018 / Meeting with Cambodia Delegate Team			✓	✓			✓	
7	Aug 10 (China, Guangzhou)	Guangdong and Hong Kong Electronic Signature Mutual Certification Strategy Experts Meeting	✓		✓		✓		✓	
6	Jul 17 (Hongkong)	SCC Smart Banking Way Forward Luncheon	✓		✓		✓		✓	
5	Jun 28 (Vietnam)	Policy and Solution for Interoperability among CAs Workshop			✓	✓			✓	
4	Jun 15 (India)	India PKI Symposium, Digital Transformation with PKI			✓	✓			✓	
3	Jun 5 (Hongkong)	Greater Bay Area eID Forum	✓		✓		✓		✓	
2	Apr 13 (Hongkong)	Seminar on eID: Key to Smart City Blueprint Success	✓		✓		✓		✓	
1	Feb 7 (Hongkong)	Smart City Blueprint Luncheon			✓				✓	

Achievement 11

China International Import Expo

- 5-10 Nov 2018 in China (Shanghai)
- Over 800,000 merchants and visitors, 3600 exhibitors from 172 countries
 - Ministry of Commerce of the People's Republic of China
 - Shanghai Municipal People's Government
 - World Trade Organization
 - United Nations Conference on Trade and Development
 - United Nations Industrial Development Organization
 - China International Import Expo Bureau
 - HK Trade Development Council
 - Smart City Consortium
 - Mrs Carrie Lam, Chief Executive of HKSAR Government
 - Mr Paul Chan Mo-po, GBM, GBS, MH, JP, Financial Secretary
 - Mr Patrick Nip Tak-kuen, JP, Secretary for Constitutional and Mainland Affairs
- A continuation to the Beijing-HK exchange tour, introducing cross border recognized e-certificate platform and trusted merchant list to Mainland China's business and individual customers



Achievement 10

Beijing and Hongkong Work Together to Create a New Highland for Hi-Tech Development

- 25 Oct 2018 in China (Beijing)
- Over 300 Participants from Beijing and Hong Kong:
 - Beijing Municipal Bureau of Economy and Information Technology
 - Office of the Government Chief Information Officer (OGCIO), HKSAR
 - Beijing Software and Information Service Industry Association
 - Hong Kong Software Industry Association
 - Director of Science & Technology Standards Division, Beijing Municipal Bureau of Economy & Info Technology
 - Victor Lam, JP, Gov'n't Chief Information Officer, Office of the Gov'n't Chief Information Officer (OGCIO), HKSAR
 - Wang Gang, Director of Beijing Municipal Bureau of Economy and Information Technology
 - Kenny Chien, President of Hong Kong Software Industry Association
 - Jiang Guangzhi, Deputy Inspector of Beijing Municipal Bureau of Economy and Information Technology
- Signing "Memorandum on Promoting the Beijing-Hong Kong Non-Face-To-Face E-Certificate Cooperation", aiming to
 - 1) Jointly promote and support the cross border recognized e-certificate framework strategy of Beijing and HK;
 - 2) Promote the training of FinTech talents; and
 - 3) Cooperate and promote to the Belt and Road countries and regions



Achievement 9

Beijing-HK Financial Exchange Tour

- 23-25 Oct 2018 in China (Beijing)
- Over 1000 Participants (HK 40 delegates):
 - Carrie Lam, GBM, GBS, Chief Executive of HK/ TDC/ OGCIO
 - Yin Yong, Vice Mayor of Beijing Municipal People's Government
 - Zhu Xi, Director of the Int'l Department of the People's Bank of China
 - Raymond Yip, Deputy Executive Director of HK Trade Development Council
 - Huo Xuewen, Party Secretary & Director of Beijing Bureau of Financial Work
 - CHAN Ho Lim, Joseph, JP, Under Secretary for Financial Services & the Treasury Bureau, Government
 - Zhang Youlin, Member of the Party Group and Deputy Director of Beijing Bureau
 - William Gee, Partner of PwC Risk and Control Services and Vice Chairman of Asia PKI Consortium
 - Zhong Minglei, Assistant General Manager of China Gold Payment Co., Ltd.
- MOU signing on 24 Aug for "Beijing-Hong Kong Financial Innovation Interconnection Framework Agreement", aiming to
 - 1) Jointly promote the real-name account opening for financial contract mechanism between the two places;
 - 2) Jointly promote the real-name account opening for e-commerce contract mechanism between the two places;
 - 3) Utilize HK's int'l status in financial services to build FinTech applications and promote to the Belt & Road countries;
 - 4) Promote the development of cross border financial connectivity between Beijing and Hong Kong



Achievement 8

4th China Smart City International Expo 2018

- 21-23 Aug 2018 in China (Shenzhen)
- Key Participants:
 - The Fifth Institute of Electronics, Ministry of Industry and Information Technology
 - Provincial Economic and Trade Commission Electronic Software Division
 - Office of the Government Chief Information Officer (OGCIO), HKSAR
 - Guangdong Provincial Economic and Information Committee
 - Mr Man Ho, APKIC member
- Mr Man Ho, GM of Certizen Limited joined the open ceremony and exchanged experience with Cambodia Ministry of Posts and Telecommunications, Securities and Exchange Commission of Cambodia (SECC) and Cambodia's Smart City Consortium; Demonstrated cross-border certification signature via display



Achievement 7

Guangdong and Hong Kong Electronic Signature Mutual Certification Strategy Experts Meeting

- 10 Aug 2018 in Guangzhou
- Key Participants:
 - Provincial Economic & Trade Commission Electronic Software Division
 - Office of the Government Chief Information Officer (OGCIO), HKSAR
 - Guangdong Provincial Economic and Information Committee
 - The Fifth Institute of Electronics, Ministry of Industry and Information Technology
 - Mr Man Ho, APKIC member
- Introduced the main points of the revision for the policy of mutual authentication between Guangdong and Hong Kong electronic signature certificates and studied & discussed the revised certificate policy document



Achievement 6

SCC Smart Banking Way Forward Luncheon

- 17 Jul 2018 in Hong Kong
- Over 200 Professionals from the business, legal, tertiary education and IT sector with Key Participants:
 - Mr. Norman T.L. Chan, GBS, JP, Chief Executive of Hong Kong Monetary Authority
 - Mr. Neil Pabari, Managing Director of North Asia, Finance & Risk of Thomson Reuters,
 - Pro Christopher Chao, Dean of Engineering and Chair Professor of Mechanical Engineering of HKU
 - Professionals & senior management from 20 international & local banks such as HSBC, Bank of China, Standard Chartered Bank, Hang Seng Bank, Bank of Communication, China CITIC Bank
 - Mr. William Gee, Vice Chairman of APKIC
 - Delegates from SCC & APKIC
- The inter-disciplinary issue is discussed. Smart or virtual banking is not just about business or technology like Blockchain or Open APIs alone. Rather it's about finance, technology level & human behavior as an integration, i.e. how regulators like HKMA and SFC as well as industries like banking, securities or insurance can identify the customers/ users and monitor transactions & monetary flow. Digital identity and recognized digital certificate provide solutions in this area.



Achievement 5

Policy and Solution for Interoperability among CAs Workshop

- 28 Jun 2018 in Vietnam
- Over 30 Professionals from the Industry with Key Participants:
 - Mr Man Ho, GM of Certizen Ltd
 - Advisor from National Electronic Authentication Centre (NEAC), Ministry Information & Communication of Vietnam
 - Representative from NEAC, Korea
 - Representative from Institute for Information Industry, Taiwan
- Representatives shared and discussed current status of PKI in Vietnam & Korea, PKI interoperability in terms of experiences & applications in Vietnam, Taiwan, HK & Korea, as well as cross-certification service in Korea. All these info and learnings are useful to HK for future planning and development on related topic.



Achievement 4

India PKI Symposium, Digital Transformation with PKI

- 15 Jun 2018 in India
- Representatives from CA, Gov't of India, APKIC members, special guests from UAE, Kenya & USA
- Specialists shared current PKI based digital transformation & trends in their respective countries. All these info & experience within & outside Asia are valuable and insightful to HK and APKIC members' countries for future planning



Achievement 3

Greater Bay Area eID Forum

- 5 Jun 2018 in Hong Kong
- 100 Professionals from Banking, Business, Legal with Key Participants:
 - Mr. Christopher Cheung, SBS, JP, Member of Legco of HK representing Financial Services constituency
 - Mr. Johnny Mok, Member of the Basic Law Committee of HK Special Administrative Region
 - Mr. Chan Kin-por, GBS, JP, Chairman of Legco Finance Committee
 - Mr. Chan Chun-ying, HK Banker/ Board Secretary & Advisor of Bank of China/ Vice Chairman & Secretary General of the Chinese Banking Association of HK
 - Mr. Dennis Ng, Vice President of Chinese Manufacturers' Association of HK
 - Mr. Oliver Ng, Chairman of HKAOB
 - Mr. William Gee, Vice Chairman of APKIC
- Discussed and shared how to create an inter-connected digital identity authentication system in the Greater Bay Area. Mutual understanding among professionals provides positive sign to further discussion with gov't.



Achievement 2

Seminar on eID: Key to Smart City Blueprint Success

- 13 Apr 2018 in Hong Kong
- 100 Guests with Key Participants:
 - Mrs. Junu Rani Das Kailay, Controller of Certifying Authorities (CCA), Gov't of India
 - Dr. Winnie Tang, JP, Founder & Honorary President of Smart City Consortium
 - Mr. Allen Yeung, JP, Government Chief Information Officer of HKSAR
 - Mr. Oliver Ng, Chairman of Hong Kong Association of Online Brokers
 - Ms. Prema Shrikrishna, Consultation of World Bank Group
 - Ir. Eric Yeung, President of Smart City Consortium
- Drew public's attention to look at the challenges & market opportunity on digital identity from a regional perspective, and the insight on digital identity blueprint for Belt & Road countries. On these, mutual digital identity authentication is the way out.



Achievement 1

Smart City Blueprint Luncheon

- 8 Feb 2018 in Hong Kong
- 400 Guests with Key Participants:
 - Mrs. Carrie Lam, GBM, GBS, Chief Executive of HKSAR
 - Mr. Chen Dong, Deputy Director, Liaison Office of the Central People's Gov't in HKSAR
 - Dr. Hon Elizabeth Quat, Founder & Honorary President of Smart City Consortium
 - Mr. William Gee, Partner of PwC and Vice Chairman of APKIC
 - Mr. Nicholas Yang, Secretary for Innovation & Technology
 - Ir. Allen Yeung, Gov't Chief Information Officer
- Reviewed various concepts of smart city initiatives and introduced a brand new international business matching platform in Guangdong-HK-Macau Bay Area. Mrs. Carrie Lam shared gov't plan on the provision of digital identity for all HK residents.

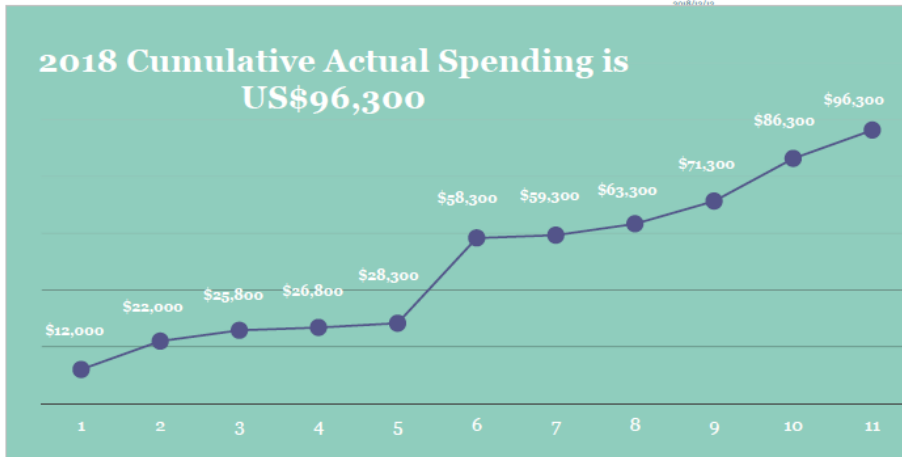


2018 USD20,000 Budget Utilization

Project Number

11. China International Import Expo, Nov 5-10 (~USD10,000)
10. Beijing & HK Work Together to Create a New Highland for Hi-tech Development (Beijing-HK Convention), Oct 25 (USD15,000)
9. Beijing-HK Financial Exchange Tour, Oct 23-25 (~USD8,000)
8. 4th China Smart City International Expo 2018, Aug 21-23 (~USD4,000)
7. Guangdong and Hong Kong Electronic Signature Mutual Certification Strategy Experts Meeting, Aug 10 (~USD1,000)
6. SCC Smart Banking Way Forward Luncheon, Jul 17 (~USD30,000)
5. Policy & Solution for Interoperability among CAs Workshop, Jun 28 (~USD1,500)
4. India PKI Symposium, Digital Transformation with PKI, Jun 15 (~USD1,000)
3. Greater Bay Area eID Forum, Jun 5 (~USD3,800)
2. Seminar on eID: Key to Smart City Blueprint Success, Apr 13 (~USD10,000)
1. Smart City Blueprint Luncheon, Feb 7 (~USD12,000)

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2019 Budget Proposal USD20,000

- 2019 Budget Proposal USD20,000
- Propose to host LPWG Seminar to strengthen Intra-ASEAN Secure Trusted Framework
- Continue to influence interoperability initiatives throughout the region
- Bring more Governments & Industries into collaboration

Thank You

四、APKIC 秘書處報告



STEERING COMMITTEE
AND GENERAL ASSEMBLY MEETING



PULLMAN HOTEL AND RESORT, PHUKET
THAILAND
3 DECEMBER 2018

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

2



List of Attendees
(Principal Members)

	Membership	Country	Attendee Name
1	Principal Member / Chairperson	Thailand	Ms. Surangkana Wayuparb
2	Principal Member / Secretary General	Thailand	Mr. Chaichana Mitrpant
3	Principal Member	Thailand	Mr. Vorachet Kaveevorasant
4	Principal Member	Thailand	Mr. Supachok Jantarapatin
5	Principal Member / Vice Chairperson	Hong Kong	Mr. William Gee
6	Principal Member	Hong Kong	Ms. Zheng Li
7	Principal Member	Hong Kong	Mr. Pius Li
8	Principal Member	Hong Kong	Ms. Peony Wong
9	Principal Member / Vice Chairperson	India	Mr. Venkatraman Srinivasan
10	Principal Member	India	Mr. Vijayekumar Manjunatha
11	Principal Member	India	Mr. Nik Khairul Raja Abdullah
12	Principal Member	Macao	Ms. Hio Hong Ip
13	Principal Member	Macao	Mr. Kai Tong Chao

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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List of Attendees
(Principal Members)

	Membership	Country	Attendee Name
14	Principal Member	Bangladesh	Mr. A.K.M. Shamsuddoha
15	Principal Member	Bangladesh	Mr. Masudul Haque
16	Principal Member	Bangladesh	Mr. Md. Hasib Hasan
17	Principal Member	Bangladesh	Ms. Farhana Haque
18	Principal Member	Bangladesh	Ms. Nuzhet Atiqus Nafis
19	Principal Member	Chinese Taipei	Mr. Wei-Chung Hwang
20	Principal Member	Chinese Taipei	Ms. Vivian Liu
21	Principal Member	Chinese Taipei	Ms. Megan Shih
22	Principal Member	Iran	Mr. Ali Rahbari
23	Principal Member	Iran	Mr. Mohammad Javad Sharifpour
24	Principal Member	Korea	Mr. Jong Hyun Baek



List of Attendees
(Enterprise and Individual Members)

	Membership	Country	Attendee Name
1	Enterprise Member	Chinese Taipei	Mr. Wen-Cheng Wang
2	Enterprise Member	Chinese Taipei	Ms. Karen Chang
3	Individual Member	Japan	Mr. Atsushi Inaba

List of Attendees
(Observers)

	Organization	Country	Attendee Name
1	Department of Commerce, MOEA	Chinese Taipei	Mr. Yuan-Chung Wang
2	Controller of Certifying Authorities (CCA)	India	Mr. Shamsuddin Khan
3	Ministry of Transport and communications	The State of Qatar	Mr. Fahad SAIED J/S ABDULLA

Overview of Agenda



Activities	Time	Venue
Working Group Meeting	09:15 – 10:30	Pullman Hotels and Resorts (Pullman Phuket Arcadia Naithon Beach) Phuket, Thailand
Steering Committee Meeting	10:30 – 12:00	
Lunch	12:00 – 14:00	
General Assembly Meeting	14:00 – 16:45	
Group Photos & End of Meeting	16:45 – 17:00	
Welcome Dinner	19:00 – 22:00	

Working Group Meeting

By Secretariat Office

Adoption of the Agenda

Working Group Meeting			
Venue: Pullman Hotel and Resort, Phuket, Thailand			
09:15 – 10:30	<ul style="list-style-type: none"> • Adoption of the agenda • APKIC organization chart • Working group roadmap • Introduce Co-Leader & Members of each working group • Mutual agreement for Co-Leaders (BAWG, LPWG, and TSWG): <ul style="list-style-type: none"> ○ Self-promotion statements by each Co-Leader ○ Mutual agreement from the members of the corresponding working groups • WGs' draft regulations: <ul style="list-style-type: none"> ○ Terms of service ○ Qualifications (optional) ○ Membership dues (optional) • 2019 APKIC WGs' work and budget plans 	Secretariat Office	Chairperson

APKIC Organization Chart



Working Group Roadmap



Suggested Activities	Key Outcomes	KPI	Timeline	Responsible Working Group		
				Business Application (BAWG)	Legal and Policy Framework (LPWG)	Technology and Standards (TSWG)
Strategy 1: Actively promote innovation and disseminate information through APIC platforms (such as interactive websites) and liaison membership, etc.						
1.1 Increase public key technology information distribution channels	APIC website receive social media presence	Informative and user-friendly website	2018 - 2020	X		
1.2 Increase visibility of APIC	APIC represented in key events and fairs	Public recognition and concrete collaboration of APIC in key events on line	2018 - 2020	X		
Strategy 2: Outreach to standard bodies by applying liaison membership schemes and setting up joint working groups to promote two-way communication						
2.1 Promote standardisation	Establish standards within each economy Public white papers	APIC whitepapers being circulated at international platforms	2018 - 2020			X
2.2 Increase visibility of APIC	Send APIC representative to key events in other fairs	APIC is an active member of international standardisation process	2018 - 2020	X		
Strategy 3: Create mutual recognition frameworks and adopt standards and testing platform to facilitate interoperability among APIC members						
3.1 Develop mutual recognition agreement among APIC members	Public mutual recognition agreement framework	Annual mutual recognition agreement report	2018 - 2020		X	
3.2 Test mutual recognition agreement	Public interoperability report	Annual mutual recognition agreement report	2018 - 2020		X	X
Strategy 4: Actively involve end-users, businesses and stakeholders to encourage larger adoption of PKI						
4.1 Promote public key technology adoption	Initiate a collaborative project that leverage PKI interoperability among APIC members	Increased use of public key technology	2018 - 2020	X		X
4.2 Promote public key policy and e-authentication framework	Advocacy/awareness of electronic authentication framework	Collaboration among APIC members to implement a common electronic authentication framework	2018 - 2020	X	X	X
Strategy 5: Continually improve how APIC works (working group structure, membership, recruiting new members, etc.)						
5.1 Check, review and assess APIC work plan regularly	Current status report and audit report with improvement recommendations	Enhanced short term and middle term work plan	2018	X	X	X
5.2 Restructure APIC	New organisation structure	Agreed APIC work mechanism	2018	X	X	X

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Introduce Co-Leader & Members of each Working Group



Working Group	Co-leader	Member
1 Business Application (BAWG)	1. Chinese Taipei PKI and e-Authentication Consortium, Taiwan 2. India PKI Forum, India	1. Chinese Taipei PKI and e-Authentication Consortium, Taiwan 2. Hong Kong PKI Forum, Hong Kong 3. India PKI Forum, India 4. Iran Center of eCommerce Development, Iran 5. Macao Post and Telecommunications Bureau, Macao 6. Thailand PKI Association, Thailand 7. Egis Technology Inc., Taiwan 8. Mr. Atsushi Inaba, Japan
2 Legal and Policy Framework (LPWG)	1. Hong Kong PKI Forum, Hong Kong	1. Chinese Taipei PKI and e-Authentication Consortium, Taiwan 2. India PKI Forum, India 3. Iran Center of eCommerce Development, Iran 4. Macao Post and Telecommunications Bureau, Macao 5. Thailand PKI Association, Thailand
3 Technology and Standards (TSWG)	1. India PKI Forum, India	1. Chinese Taipei PKI and e-Authentication Consortium, Taiwan 2. Hong Kong PKI Forum, Hong Kong 3. India PKI Forum, India 4. Iran Center of eCommerce Development, Iran 5. Macao Post and Telecommunications Bureau, Macao 6. Thailand PKI Association, Thailand 7. Chunghwa Telecom Co., Ltd. 8. Egis Technology Inc., Taiwan 9. Mr. Atsushi Inaba, Japan

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Mutual Agreeing for Co-Leaders



(BAWG, LPWG, and TSWG)

- Self-promotion statements by each Co-leader
- Mutual agreement from the members of the corresponding working groups

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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WGs' Draft Regulations



- Terms of service
- Qualifications (optional)
- Membership dues (optional)

2019 APKIC WGs' Work and Budget Plans



WGs' Work Plan

BAWG, LPWG, and TSWG

WGs' Budget Plan

- BAWG Budget
- LPWG Budget
- TSWG Budget



Steering Committee Meeting

By Secretariat Office

Adoption of the Agenda



Steering Committee Meeting			
Venue: Pullman Hotel and Resort, Phuket, Thailand			
10:30 – 12:00	<ul style="list-style-type: none"> • Adoption of the agenda • 2018 Membership status and recruitment achievement conclusion and 2019 plan: <ul style="list-style-type: none"> ○ Current membership status ○ 2018 Recruitment achievement conclusion ○ 2019 New members recruitment plan • APKIC financial summary: <ul style="list-style-type: none"> ○ 2018 APKIC financial report ○ 2019 APKIC proposed budget • Official nomination of 2019-2020 APKIC Chairperson and Vice Chairpersons candidates • New Initiatives <ul style="list-style-type: none"> ○ Continuation of summary out of last New Delhi SSC Meeting ○ Signing the resolutions of 2018 SSC meeting • Request proposals for 2019 APKIC SSC and GA/SC location and hosting countries • Any other business (AOB) 	Secretariat Office	Chairperson

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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2018 Membership status and recruitment achievement conclusion and 2019 plan



Current Membership Status	
Principal (8)	Bangladesh PKI Consortium
	Chinese Taipei PKI and e-Authentication Consortium
	Hong Kong PKI Forum
	India PKI Forum
	Iran Center for eCommerce Development
	Korea PKI Forum
	Macao Post and Telecommunications Bureau
	Thailand PKI Association
Enterprise (4)	Beijing Certificate Authority Co.,Ltd.
	B4B Information Technology Co.,Ltd.
	Chunghwa Telecom Co.,Ltd.
	Egis Technology Inc.
Individual (1)	Atsushi INABA, GMO GlobalSign K.K.

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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2018 Membership status and recruitment achievement conclusion and 2019 plan



Current Membership Status

APKIC

Payment of Summary Membership Fees (2018-2019)

Last update on: 28 November, 2018

Country/ Region	Name of Organization	Membership Type	Membership Fee (USD)	2018		2019	
				2018	Payment Receive Date	2019	Payment Receive Date
Bangladesh	Bangladesh PKI Consortium	Principal	\$ 18,300.0	✓	✓	✓	11/16/2018
China	Beijing Certificate Authority Co., Ltd.	Enterprise	\$ 4,300.0	✓	10/12/2017	✓	10/16/2018
China	B4B Information Technology Co., Ltd.	Enterprise	\$ 4,300.0	✓	07/31/2017	✓	✓
Hong Kong	Hong Kong PKI Forum Ltd.	Principal	\$ 18,300.0	✓	11/01/2017	✓	11/28/2018
India	India PKI Forum	Principal	\$ 18,300.0	✓	11/08/2017	✓	10/29/2018
Iran	Iran Center for eCommerce Development (ICECD)	Principal	\$ 18,300.0	✓	02/12/2018	✓	✓
Japan	Atsushi INABA	Individual	\$ 20.0	✓	06/12/2017	✓	06/14/2018
Korea	Korea PKI Forum	Principal	\$ 18,300.0	✓	10/25/2017	✓	10/26/2018
Macao	Macao Post and Telecommunications Bureau	Principal	\$ 18,300.0	✓	11/01/2017	✓	11/01/2018
Taiwan	Chinese Taipei PKI and e-Authentication Consortium	Principal	\$ 18,300.0	✓	06/08/2018	✓	10/31/2018
Taiwan	Chunghwa Telecom Co., Ltd.	Enterprise	\$ 4,300.0	✓	11/28/2017	✓	✓
Taiwan	Egis Technology Inc.	Enterprise	\$ 4,300.0	✓	10/31/2017	✓	✓
Thailand	Thailand PKI Association	Principal	\$ 18,300.0	✓	12/27/2017	✓	11/27/2018
				\$ 96,030.0	\$ 96,030.0	\$ 74,030.0	

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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2018 Recruitment Achievement Conclusion

- The United Arab Emirates (UAE) - **In consideration**
- Malaysia – **In consideration**

2019 New Members Recruitment Plan

The State of Qatar

APKIC Financial Summary

2018 APKIC Finance Report For the Period from November 8, 2017 to June 1, 2018

2017		Description	Income	Expense	Balance
Month	Day		(USD)	(USD)	(USD)
11	8	Balance b/f			891,217.26
	8	India PKF Forum - 2018 Annual Due	10,000.00		901,217.26
		Related bank charges		81.81	891,135.45
	20	Mr. Thiburn Tansornkiet of Thailand (PKC Meeting) - Related bank charges		89.89	891,045.56
		Mr. Hwang of Taiwan (PKC Meeting) - Related bank charges		38.28	890,707.28
		Mr. VISHWAKSAMA of India (PKC Meeting) - Related bank charges		89.89	890,617.39
	28	Congress Telecom Co., Ltd. - 2018 Annual Due	4,000.00		894,617.39
		Related bank charges		8.81	894,528.58
	8	CNSG - Third China Traveler City International Race 2017 held in Sept 2017		25,000.00	869,528.58
	27	Taiwan PKF Association - 2018 Annual Due	10,000.00		879,528.58
		Related bank charges		21.81	879,506.77
	31	Bank Interest Income	1.88		879,508.65
2018					
1	28	Secretary annual fee		1,000.00	878,508.65
		2017 SA/TC Meeting held in India - Reimbursement to India PKF		23,710.00	854,798.65
		Related bank charges		33.87	854,764.78
		2017 SA/TC Meeting held in India - Reimbursement to Hong Kong		9,807.00	844,957.78
		2017 SA/TC Meeting held in India - Reimbursement to Taiwan		1,388.99	843,568.79
		Related bank charges		28.18	843,540.61
	8	PKC Meeting held in January 2018 Monterey, USA - Taiwan representative		9,428.00	834,112.61
		Related bank charges		89.18	834,023.43
		PKC Meeting held in January 2018 Monterey, USA - India representative		2,800.04	831,223.39
		Related bank charges		28.09	831,195.30
		PKC Meeting held in January 2018 Monterey, USA - Hong Kong representative		2,110.00	829,085.30
	8	Jan. Order for e-Commerce Development - 2018 Annual Due (India)	10,000.00		839,085.30
	8	Balance b/f			839,085.30
Total			54,000.00	87,139.84	

APKIC Financial Summary



2018 APKIC Finance Report For the Period from June 1, 2018 to October 25, 2018

2018		Description	Income (USD)	Expense (USD)	Balance (USD)
Month	Day				
6	1	Balance b/f			308,113.50
	2	Exchange difference - Iran Center for eCommerce Development - 2018 Annual Due		3.47	308,110.03
8	31	Bank interest income	1.56		308,111.59
9	13	Electronic Transactions Development Agency of Thailand (Roadmap 2018-2010)		309.84	307,801.75
		Related bank charges		32.00	307,769.75
	29	Bank interest income	2.48		307,772.23
10	25	Remittance to Thailand PKI Association		307,772.23	-
Total			4.04	308,117.54	

Prepared by APKIC Secretariat Hong Kong

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



2018 APKIC Finance Report For the Period from October 16, 2018 to November 28, 2018

2018		Description	Income (USD)	Expense (USD)	Balance (USD)
Month	Day				
10	4	B/F			-
	16	China PKI Forum - 2019 Annual Due	4,000.00		4,000.00
		Related bank charges		35.00	3,965.00
	26	Korea PKI Forum - 2019 Annual Due	10,000.00		13,965.00
	26	Hong Kong Transfer to Thailand	307,772.23		321,737.23
		Related bank charges		40.00	321,697.23
	29	India PKI Forum - 2019 Annual Due	10,000.00		331,697.23
		Related bank charges		18.00	331,679.23
	31	Chinese Taipei PKI & e-Authentication Consortium	10,000.00		341,679.23
		Related bank charges		15.00	341,664.23
11	16	Bangladesh PKI Forum	10,000.00		351,664.23
		Related bank charges		18.00	351,646.23
	27	Thailand PKI Forum	10,000.00		371,646.23
	28	Hong Kong PKI Forum	10,000.00		381,646.23
		Related bank charges		58.00	381,008.23
Total			581,772.23	164.00	381,008.23

Prepared by APKIC Secretariat Thailand

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



The Summary of 2019 APKIC Membership Fee and HK Remittance

No.	Country	Organization	Member Type	Annual Fee	Received Date	Received Amount (USD)	Exchange Rate (Date: 1 USD)	Balance of Annual Fee (USD)	Contribution Fee (USD)	Total Received Amount (USD)	
1	Bangladesh	Bangladesh PKI Forum	Principal	5	10/10/2018	5,000.00	22.84	217,000.00	300.00	217,300.00	
2	Hong Kong	Hong Kong PKI Forum		5	10/10/2018	5,000.00	22.84	217,300.00	300.00	217,300.00	
3	India	India PKI Forum		5	10/10/2018	5,000.00	22.84	217,300.00	300.00	217,300.00	
4	Iran	Iran Center for eCommerce Development (ICECD)		5	10/10/2018	5,000.00	22.84	217,300.00	300.00	217,300.00	
5	Korea	Korea PKI Forum		5	10/10/2018	10,000.00	22.84	217,300.00	300.00	217,300.00	
6	Macau	Macau Post and Telecommunications Bureau		5	9/12/2018	5,000.00	22.84	217,300.00	300.00	217,300.00	
7	Taiwan	Chinese Taipei PKI & e-Authentication Consortium		5	10/10/2018	10,000.00	22.84	217,300.00	300.00	217,300.00	
8	Thailand	Thailand PKI Association		5	10/10/2018	10,000.00	22.84	217,300.00	300.00	217,300.00	
9	China	Shanghai Certificate Authority Co., Ltd.		5	10/10/2018	5,000.00	22.84	217,300.00	300.00	217,300.00	
10	China	GDH Information Technology Co., Ltd.		5	6/20/2018	5,000.00					
11	Taiwan	Changfeng Telecom Co., Ltd.		5	6/20/2018	5,000.00					
12	Taiwan	Egn Technology Inc.		5	6/20/2018	5,000.00					
13	Japan	GlobalSign S. S.		Individual	5	8/10/2018	5,000.00				
Total Annual Fee				5		75,000.00		3,400,000.00	3,420.00	3,403,420.00	
14	Hong Kong	HK Remittance to THA		5	10/10/2018	387,702.23	22.84	16,124,200.27	500.00	16,124,702.27	
Total (Less Bank FTR)										16,124,702.27	

Prepared by APKIC Secretariat Thailand

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



2019 APKIC Proposed Budget

APKIC Annual Activities

- **Special SC Meeting**
 - o Budget USD 10,000
- **GA/SC Meetings and International Symposium**
 - o Budget: USD 35,000

Secretariat

- **Daily Operation**
 - o Budget: USD 1,000
- **Membership Recruitment Fund**
 - o Budget USD 3,000
 - o Balance carried forward: USD 381,608.23

WG Activities

- **BAWG Budget: USD 20,000**
- **LPWG Budget: USD 20,000**
- **TSWG Budget: USD 20,000**

Official Nomination of 2019-2020 APKIC Chairperson and Vice Chairpersons Candidates



Chairperson Candidate	Vice Chairperson Candidates
1. India PKI Forum Mr. Venkatraman Srivinasan	1. Hong Kong PKI Forum Mr. William Gee
	2. Iran Center of eCommerce Development Mr. Ali Rahbari
	3. Thailand PKI Association Mr. Chaichana Mitrpant

New Initiatives Continuation of Summary Out of Last New Delhi SSC Meeting



Resolutions of the 2018 SSC Meetings
Ase PKI Consortium
New Delhi, India
June 14th, 2018

1. Members adopted the proposed agenda and acknowledged the report of the status of APKIC members and membership fee payment in 2018.

2. The financial report of APKIC for the period of November 9th, 2017 – June 1st, 2018, indicates the income of USD 19,821.95, the expense of USD 19,125.34 and the annual balance of USD 696.61.

3. Members agreed on the inter working group structure as shown in the table below and considered establishing and facilitating members' interaction with CA Business Forum, regarding online meeting among the members on a regular basis, and increasing member interaction channels, for example, through PKI entities. Member also agreed that working group performance should be regularly updated.

Working Group	Members	Decisions
1. Finance	1. Mr. Venkatraman Srivinasan 2. Mr. William Gee	1. Mr. Venkatraman Srivinasan to be the Chairperson of the Finance Working Group. 2. Mr. William Gee to be the Vice-Chairperson of the Finance Working Group.
2. Marketing and Membership	1. Mr. Chaichana Mitrpant 2. Mr. William Gee	1. Mr. Chaichana Mitrpant to be the Chairperson of the Marketing and Membership Working Group. 2. Mr. William Gee to be the Vice-Chairperson of the Marketing and Membership Working Group.

4. Members nominated 1 candidate to be the PKI Forum for the APKIC Chairperson and 4 candidates from Iran Center of eCommerce Development (ICeED), Hong Kong PKI Forum, Mexico Post and Telecommunications Bureau, and Thailand PKI Association for APKIC Vice Chairpersons.

5. Members approved 10,000 USD budget allocation for the 2018 GA/SC Meeting and International Symposium to be held in Thailand.

6. Members approved the following working list: secret@asepkic.org, general@asepkic.org, baawg@asepkic.org, lpw@asepkic.org, tsw@asepkic.org for communication for all members, principal members, enterprise members, MNC operations and industrial members, respectively. For principal members, the following working lists will be used: baawg@asepkic.org, lpw@asepkic.org, tsw@asepkic.org, secret@asepkic.org and general@asepkic.org. For technology and standards business application and legal & policy framework working groups, the following working lists will be used: baawg@asepkic.org, lpw@asepkic.org, tsw@asepkic.org. The Secretariat will consider using email for public communication.

7. Members agreed to correct relevant domain name register for under the administrative control of the domain asia-pki.org.

8. Members also agreed to support the ongoing task to establish booklets on APKIC Strategic Roadmap 2015-2020 to member economies.

9. Members agreed to their appreciation to Hong Kong PKI Forum for taking care of APCIC's regional operations, which will be transferred to the new Chairpersons' custody. The details of the operation TRANSFER SHOULD BE DISCUSSED BETWEEN a representative from Hong Kong PKI Forum and the new Chairpersons.

Mr. Chaichana Mitrpant On behalf of Iran Center of eCommerce Development Thailand PKI Association	Mr. Venkatraman Srivinasan India PKI Forum	Mr. William Gee CTF Advisor
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Mr. William Gee On behalf of Hong Kong PKI Forum	Mr. Pao-Chung Hwang Director Taipei PKI Law & e-Authentication Consortium	Dr. Parvinder Mehta Secretary General Mexico Post and Telecommunications Bureau ICeED
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Continuation of Summary Out of Last New Delhi SSC Meeting



Domain Name - **In process**

Mailing List - **In process**

- Member Mailing List
 - All members - members@apkc.org including:
 - principal@apkc.org
 - enterprise@apkc.org
 - npo@apkc.org
 - individual@apkc.org
 - Principal members - principal@apkc.org
 - Enterprise members - enterprise@apkc.org
 - NPO members - npo@apkc.org
 - Individual members - individual@apkc.org
- Working Group Mailing List
 - Technology and Standards - TRWG@apkc.org
 - Business Application - BAWG@apkc.org
 - Legal & Policy Framework - LPWG@apkc.org

- Principal members:
- bangladesh@apkc.org
 - hongkong@apkc.org
 - india@apkc.org
 - iran@apkc.org
 - korea@apkc.org
 - macao@apkc.org
 - chinesetaipei@apkc.org
 - thailand@apkc.org

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Continuation of Summary Out of Last New Delhi SSC Meeting



APKIC Strategic Roadmap 2018-2020



No.	Economy	Quantity (Copies)	Distribution Option		Recipient
			During Meeting	Shipping	
1	Bangladesh Bangladesh PKI Forum	-			
2	China Beijing Certificate Authority Co., Ltd.	-			
4	Hong Kong Hong Kong PKI Forum	100		X	Vanessa Yui
5	India India PKI Forum	100	X		Vijay Kumar
6	Iran Iran Center for eCommerce Development (ICED)	100		X	Azadeh Bagheri
7	Japan GMO GlobalSign K.K.	40	X		Arsuzhi Inaba
8	Korea Korea PKI Forum	100		X	Cho Moonhee
9	Macao Macao Post and Telecommunications Bureau	100		X	Phoebe Ip
10	Taiwan Chinese Taipei PKI and e-Authentication Consortium	100		X	Vivian Liu
13	Thailand Thailand PKI Association	100			Thitikom
Total		740	2	5	

Total shipping cost is **USD 309.84**

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Continuation of Summary Out of Last New Delhi SSC Meeting



APKIC Strategic Roadmap 2018-2020



No.	Economy	Quantity (Copies)	Distribution Option		Recipient
			During Meeting	Shipping	
1	Bangladesh Bangladesh PKI Forum	-			
2	China Beijing Certificate Authority Co., Ltd.	-			
4	Hong Kong Hong Kong PKI Forum	100		X	Vanessa Yui
5	India India PKI Forum	100	X		Vijay Kumar
6	Iran Iran Center for eCommerce Development (ICED)	100		X	Azadeh Bagheri
7	Japan GMO GlobalSign K.K.	40	X		Arsuzhi Inaba
8	Korea Korea PKI Forum	100		X	Cho Moonhee
9	Macao Macao Post and Telecommunications Bureau	100		X	Phoebe Ip
10	Taiwan Chinese Taipei PKI and e-Authentication Consortium	100		X	Vivian Liu
13	Thailand Thailand PKI Association	100			Thitikom
Total		740	2	5	

Total shipping cost is **USD 309.84**

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Resolutions of the 2018 SSC Meetings
Asia PKI Consortium
New Delhi, India
June 14th, 2018

- Members adopted the proposed agenda and acknowledged the report of the status of APNIC operations and member data for the year 2018.
- The financial report of APNIC for the period of November 9th, 2017 – June 1st, 2018, including the figures of USD 24,823,181, the surplus of USD 10,103,39 and the annual balance of USD 206,13,02.
- Members agreed on the inter working group structure as stated in the table below and considered establishing and finalizing inter-actor interaction with CA Browser Forum, regarding online meeting service for members on a regular basis, and increasing member interaction channels, for example through APNIC website. Member also agreed that working group performance APNIC/ICANN related included:

Working Group	Chairman	Members
1. APNIC Operations	M. Chaitanya Mysore (India)	M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India)
2. APNIC Finance	M. Chaitanya Mysore (India)	M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India)
3. APNIC Legal and Compliance	M. Chaitanya Mysore (India)	M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India)
4. APNIC Marketing and Public Relations	M. Chaitanya Mysore (India)	M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India), M. Chaitanya Mysore (India)

- Members nominated 1 candidate for APNIC Chairman and 4 candidates from the Center of Internet Development (Caid), Hong Kong PKI Forum, Mexico PKI and Telecommunications Forum, and Thailand PKI Association for APNIC Vice Chairpersons.
- Members approved 10,000 USD budget allocation for the 2019 APNIC Meeting and International Symposium to be held in Thailand.

- Members agreed to use the following meeting list: apnic@apnic.org for communication for all members, principal members, emeritus members, NC/operations and technical contacts, respectively. For principal members, the following meeting lists will be used: principal@apnic.org, technical@apnic.org, operations@apnic.org, emeritus@apnic.org and admin@apnic.org. For technology and standards business application and legal & policy framework working groups, the following meeting lists will be used: standards@apnic.org, legal@apnic.org. The International will consider using email for public communication.
- Members agreed to correct incorrect domain name register for register the administrative contact of the domain apnic.org
- Members also agreed to support the ongoing bid to establish a satellite APNIC Strategic Roadmap 2019-2023 to member economies.
- Members agreed to their appreciation to Hong Kong PKI Forum for taking care of APNIC special operations, which will be transferred to the next Chairperson's custody. The details of the special project should be discussed between a representative from Hong Kong PKI Forum and the next Chairperson.

M. Chaitanya Mysore On behalf of Asia PKI Consortium	M. Chaitanya Mysore On behalf of Asia PKI Consortium	M. Chaitanya Mysore On behalf of Asia PKI Consortium
M. Wilson Ho On behalf of Hong Kong PKI Forum	M. Fook-Chung Hwang On behalf of Mexico PKI and Telecommunications Forum	D. Rajivkumar On behalf of Thailand PKI Association

Request Proposals for 2019 APKIC SSC and GA/SC Location and Hosting Countries



SSC Meeting:

- SSC Meeting in Q2 of 2019
- 10,000 USD budget allocation from the 2019 SSC Meeting Resolution:
 - includes airfare and accommodation for only one Principal member of each country and travel and accommodation for one person from the secretariat
- Bangladesh PKI Consortium has expressed interest in hosting the 2019 SSC Meeting

Request Proposals for 2019 APKIC SSC and GA/SC Location and Hosting Countries



GA/SC Meeting:

- GA/SC Meeting in Q3-Q4 of 2019
- 35,000 USD budget allocation from the 2019 GA/SC Meeting Resolution:
 - includes airfare and accommodation for at least one delegate from each Principal member and any invited speakers, as well as travel and accommodation for one person from the secretariat
- India PKI Forum has expressed interest in hosting the 2019 GA/SC Meeting

Any Other Business (AOB)

General Assembly Meeting

By Secretariat Office

Opening Address

Current APKIC Chairperson and Vice Chairpersons



CHAIRPERSON

SURANGKANA WAYUPARB

EXECUTIVE DIRECTOR AND CEO OF ELECTRONIC
TRANSACTIONS DEVELOPMENT AGENCY OF THAILAND



VICE CHAIRPERSON

WILLIAM GEE

STEERING COMMITTEE MEMBER & HONORARY
ADVISOR OF HONG KONG AND PARTNER OF
PWC/HONGKONGSCOPERS, CHINA



VICE CHAIRPERSON

VENKATRAMAN SRINIVASAN

SHARADAN (INDONESIA) LIMITED (L1) AND
SHARADAN INDIA PVT. LTD. INDIA



VICE CHAIRPERSON

DERRY LAU

DIRECTOR OF MACAO POST AND
TELECOMMUNICATIONS BUREAU

Adoption of the Agenda



General Assembly Meeting			
Venue: Pullman Hotel and Spa, Phuket, Thailand			
1400 – 1415	Opening Address	Chairperson and Vice Chairpersons	Chairperson
1415 – 1600	<ul style="list-style-type: none">Adoption of the agendaApproving WGC Co-leaders and regulationsApproving 2020 APIC WG's work and budget plansAPIC Financial summary<ul style="list-style-type: none">2018 APIC financial report2019 APIC budget plansVoting of 2019-2020 APIC Chairperson and Vice Chairpersons<ul style="list-style-type: none">Note on election and voting proceduresCandidate statements by candidatesAppointment of scrutineer(s) and teller(s)Ballots distributedVotingAnnouncement of the election resultInaugural addresses<ul style="list-style-type: none">New ChairpersonNew Vice ChairpersonsAppointment of the new Secretariat OfficeItem Initiatives<ul style="list-style-type: none">Continuation of summary out of last New Debt SSC MeetingProposals for 2020 APIC SSC and GASC location and meeting mandatesResolution of 2019 APIC GASC MeetingAny other business (AOB)	Secretariat Office New Chairperson and New Vice Chairpersons Secretariat Office	Chairperson New Chairperson
1630 – 1640	Closing Address	Chairperson and Vice Chairpersons	Chairperson



Approving WGs' Co-Leaders and Regulations

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING 38

WGs' Draft Regulations



- Terms of service
- Qualifications (optional)
- Membership dues (optional)

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING 39

Approving 2019 APKIC WGs' Work and Budget Plans

2019 APKIC WGs' Work and Budget Plans

WGs' Work Plan BAWG, LPWG, and TSWG

WGs' Budget Plan

- BAWG Budget
- LPWG Budget
- TSWG Budget

APKIC Financial Summary

2018 APKIC Finance Report For the Period from November 8, 2017 to June 1, 2018

2017		Description	Income (USD)	Expense (USD)	Balance (USD)
Month	Day				
11	8	Balance b/f			891,217.28
	8	India POC Forum - 2018 Annual Due	10,000.00		901,217.28
		Related bank charges		81.81	891,135.47
	22	Mt. Tishkum Traditional Fest of Thailand (PDOC Meeting) - Related bank charges		89.89	891,045.58
		Mt. Hwang of Taiwan (PDOC Meeting) - Related bank charges		38.28	890,706.81
		Mt. USTW/USP/USA of India (PDOC Meeting) - Related bank charges		89.89	890,616.92
	28	Congress Taiwan Co., Ltd. - 2018 Annual Due	4,000.00		894,616.92
		Related bank charges		8.81	894,528.11
	8	CSWG - Third China Traveler City International Race 2017 held in Sept 2017		25,000.00	869,528.11
	27	Taiwan POC Association - 2018 Annual Due	10,000.00		879,528.11
		Related bank charges		21.81	879,506.30
	31	Bank Interest Income	1.58		879,507.88
2018					
1	28	Banker's annual fee		1,000.00	878,507.88
		2017 SA/TC Meeting held in India - Reimbursement to India POC		23,510.00	854,997.88
		Related bank charges		33.82	854,964.06
		2017 SA/TC Meeting held in India - Reimbursement to Hong Kong		9,807.00	845,157.06
		2017 SA/TC Meeting held in India - Reimbursement to Taiwan		1,388.99	843,768.07
		Related bank charges		28.18	843,739.89
	8	PDOC Meeting held in January 2018 Monterey, USA - Taiwan representative		9,428.00	834,311.89
		Related bank charges		99.18	834,212.71
		PDOC Meeting held in January 2018 Monterey, USA - India representative		2,800.04	831,412.67
		Related bank charges		28.09	831,384.58
		PDOC Meeting held in January 2018 Monterey, USA - Hong Kong representative		2,110.00	829,274.58
	8	Jan. Order for e-Commerce Development - 2018 Annual Due (India)	10,000.00		839,274.58
	8	Balance b/f			839,274.58
Total			54,800.00	87,139.84	

APKIC Financial Summary



2018 APKIC Finance Report For the Period from June 1, 2018 to October 25, 2018

2018		Description	Income (USD)	Expense (USD)	Balance (USD)
Month	Day				
6	1	Balance b/f			308,113.50
	2	Exchange difference - Iran Center for eCommerce Development - 2018 Annual Due		3.47	308,110.03
8	31	Bank interest income	1.56		308,111.59
9	13	Electronic Transactions Development Agency of Thailand (Roadmap 2018-2010)		309.84	307,801.75
		Related bank charges		32.00	307,769.75
	29	Bank interest income	2.48		307,772.23
10	25	Remittance to Thailand PKI Association		307,772.23	-
Total			4.04	308,117.54	

Prepared by APKIC Secretariat Hong Kong

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



2018 APKIC Finance Report For the Period from October 16, 2018 to November 28, 2018

2018		Description	Income (USD)	Expense (USD)	Balance (USD)
Month	Day				
10	4	B/F			-
	16	China PKI Forum - 2019 Annual Due	4,000.00		4,000.00
		Related bank charges		35.00	3,965.00
	26	Korea PKI Forum - 2019 Annual Due	10,000.00		13,965.00
	26	Hong Kong Transfer to Thailand	307,772.23		321,737.23
		Related bank charges		40.00	321,697.23
	29	India PKI Forum - 2019 Annual Due	10,000.00		331,697.23
		Related bank charges		18.00	331,679.23
	31	Chinese Taipei PKI & e-Authentication Consortium	10,000.00		341,679.23
	1	Macau Post and Telecommunications Bureau	10,000.00		351,679.23
		Related bank charges		15.00	351,664.23
	16	Bangladesh PKI Forum	10,000.00		361,664.23
		Related bank charges		18.00	361,646.23
	27	Thailand PKI Forum	10,000.00		371,646.23
	28	Hong Kong PKI Forum	10,000.00		381,646.23
		Related bank charges		58.00	381,008.23
					381,008.23
Total			581,772.23	164.00	381,008.23

Prepared by APKIC Secretariat Thailand

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



The Summary of 2019 APKIC Membership Fee and HK Remittance

No.	Country	Organization	Member Type	Annual Fee	Received Date	Received Amount (USD)	Exchange Rate (Date: 1 USD)	Balance of Annual Fee (USD)	Contribution Fee (USD)	Total Received Amount (USD)
1	Bangladesh	Bangladesh PKI Forum	Principal	5	18/11/2018	5,000.00	22.84	217,000.00	300.00	217,300.00
2	Hong Kong	Hong Kong PKI Forum		5	15/09/2018	5,000.00	22.96	217,100.00	300.00	217,400.00
3	India	India PKI Forum		5	15/09/2018	5,000.00	22.96	216,100.00	300.00	216,400.00
4	Iran	Iran Center for eCommerce Development (ICECD)		5	15/09/2018	5,000.00	22.96	215,100.00	300.00	215,400.00
5	Korea	Korea PKI Forum		5	28/10/2018	10,000.00	22.96	215,100.00	300.00	215,400.00
6	Macau	Macau Post and Telecommunications Bureau		5	0/11/2018	5,000.00	22.96	214,100.00	300.00	214,400.00
7	Taiwan	Chinese Taipei PKI & e-Authentication Consortium		5	15/09/2018	5,000.00	22.96	213,100.00	300.00	213,400.00
8	Thailand	Thailand PKI Association		5	27/10/2018	5,000.00	22.97	212,100.00	300.00	212,400.00
9	China	Shanghai Certificate Authority Co., Ltd.		5	18/10/2018	5,000.00	22.98	211,100.00	300.00	211,400.00
10	China	GDH Information Technology Co., Ltd.		5	6/09/2018	5,000.00				
11	Taiwan	Changfeng Telecom Co., Ltd.		5	6/09/2018	5,000.00				
12	Taiwan	Egn Technology Inc.		5	6/09/2018	5,000.00				
13	Japan	Globallink S. S.		Individual	5	04/01/2018	5,000.00			
Total Annual Fee				5		75,000.00		3,401,000.00	3,421.00	3,404,421.00
14	Hong Kong	HK Remittance to THA		5	26/10/2018	367,702.23	22.96	16,124,200.27	500.00	16,124,700.27
Total (Less Bank CHF)										33,850,000.27

Prepared by APKIC Secretariat Thailand

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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APKIC Financial Summary



2019 APKIC Budget Plans

APKIC Annual Activities

- Special SC Meeting
 - Budget USD 10,000
- GA/SC Meetings and International Symposium
 - Budget: USD 35,000

WG Activities

- BAWG Budget: USD 20,000
- LPWG Budget: USD 20,000
- TSWG Budget: USD 20,000

Secretariat

- Daily Operation
 - Budget: USD 1,000
- Membership Recruitment Fund
 - Budget USD 3,000
 - Balance carried forward: USD 381,608.23

Voting of 2019-2020

APKIC Chairperson and Vice Chairpersons



Chairperson Candidate	Vice Chairperson Candidates
1. India PKI Forum Mr. Venkatraman Srivinasan	1. Hong Kong PKI Forum Mr. William Gee
	2. Iran Center of eCommerce Development Mr. Ali Rahbari
	3. Thailand PKI Association Mr. Chaichana Mitrpant

Election Processes:

- Note on election and voting procedures
- Self-promotion statements by candidates
- Appointment of scrutineer(s) and teller(s)
- Ballots distributed
- Voting
- Announcement of the election result

Inaugural Addresses



- New Chairperson
- New Vice Chairpersons

Appointment of the New Secretariat Office

By New Chairperson

New Initiatives Continuation of Summary Out of Last New Delhi SSC Meeting

**Resolutions of the 2018 SSC Meetings
Asia PKI Consortium
New Delhi, India
June 14th, 2018**

- Members adopted the proposed agenda and acknowledged the spirit of the status of APNIC members and membership fee payment in 2018.
- The financial report of APNIC for the period of November 9th, 2017 – June 1st, 2018, including the figures of USD 14,821,181, the surplus of USD 17,125,34 and the annual balance of USD 205,113.02.
- Members agreed on the inter working group structure as shown in the table below and considered establishing and facilitating necessary interaction with CA Business Forum, regarding online meeting among the members on a regular basis, and increasing member interaction channels, for example through APNIC website. Member also agreed that working group performance should be regularly updated.

Working Group	Chairperson	Members
1. Finance and Administration	1. M. Chhatrapati Mignot 2. M. Chhatrapati Mignot	1. M. Chhatrapati Mignot 2. M. Chhatrapati Mignot 3. M. Chhatrapati Mignot 4. M. Chhatrapati Mignot 5. M. Chhatrapati Mignot 6. M. Chhatrapati Mignot 7. M. Chhatrapati Mignot 8. M. Chhatrapati Mignot 9. M. Chhatrapati Mignot 10. M. Chhatrapati Mignot
2. Technology and Standards	1. M. Chhatrapati Mignot	1. M. Chhatrapati Mignot 2. M. Chhatrapati Mignot 3. M. Chhatrapati Mignot 4. M. Chhatrapati Mignot 5. M. Chhatrapati Mignot 6. M. Chhatrapati Mignot 7. M. Chhatrapati Mignot 8. M. Chhatrapati Mignot 9. M. Chhatrapati Mignot 10. M. Chhatrapati Mignot
3. Business Application	1. M. Chhatrapati Mignot	1. M. Chhatrapati Mignot 2. M. Chhatrapati Mignot 3. M. Chhatrapati Mignot 4. M. Chhatrapati Mignot 5. M. Chhatrapati Mignot 6. M. Chhatrapati Mignot 7. M. Chhatrapati Mignot 8. M. Chhatrapati Mignot 9. M. Chhatrapati Mignot 10. M. Chhatrapati Mignot
4. Legal & Policy Framework	1. M. Chhatrapati Mignot	1. M. Chhatrapati Mignot 2. M. Chhatrapati Mignot 3. M. Chhatrapati Mignot 4. M. Chhatrapati Mignot 5. M. Chhatrapati Mignot 6. M. Chhatrapati Mignot 7. M. Chhatrapati Mignot 8. M. Chhatrapati Mignot 9. M. Chhatrapati Mignot 10. M. Chhatrapati Mignot

- Members agreed to use the following mailing list: members@apnic.org, principal@apnic.org, enterprise@apnic.org, npo@apnic.org, individual@apnic.org for communication for all members, principal members, enterprise members, NPO members and individual members, respectively. For practical reasons, for following meeting title will be given: members@apnic.org, principal@apnic.org, enterprise@apnic.org, npo@apnic.org, and individual@apnic.org. For technology and standards business application and legal & policy framework working group, the following meeting title will be given: technology@apnic.org, business@apnic.org, legal@apnic.org. The information will consider using email for public communication.
- Members agreed to correct relevant domain name register for proper the administrative control of the domain apnic.org.
- Members also agreed to support the ongoing task to establish backbone of APNIC Strategic Roadmap 2015-2020 in member countries.
- Members agreed to their representation for Hong Kong PKI Forum for taking care of APNIC regional operations, which will be transferred to the next Chairperson's history. The details of the operation transfer should be discussed between a representative from Hong Kong PKI Forum and the next Chairperson.

M. Chhatrapati Mignot On behalf of M. Chhatrapati Mignot Thailand PKI Association	M. Chhatrapati Mignot 31800000 India PKI Forum	M. Chhatrapati Mignot 1111111111 1111111111
M. Chhatrapati Mignot On behalf of M. Chhatrapati Mignot Hong Kong PKI Forum	M. Chhatrapati Mignot Director Taipei PKI and e-APNIC/ASIA Consortium	M. Chhatrapati Mignot Secretary General OSIRIS CAAC

Continuation of Summary Out of Last New Delhi SSC Meeting

Domain Name - **In process**

Mailing List - **In process**

- Member Mailing List
 - All members - members@apnic.org including:
 - principal@apnic.org
 - enterprise@apnic.org
 - npo@apnic.org
 - individual@apnic.org
 - Principal members - principal@apnic.org
 - Enterprise members - enterprise@apnic.org
 - NPO members - npo@apnic.org
 - Individual members - individual@apnic.org
- Working Group Mailing List
 - Technology and Standards - TRWG@apnic.org
 - Business Application - BAWG@apnic.org
 - Legal & Policy Framework - LPWG@apnic.org

Principal members:

- bangladesh@apnic.org
- hongkong@apnic.org
- india@apnic.org
- iran@apnic.org
- korea@apnic.org
- macao@apnic.org
- chinesetaipei@apnic.org
- thailand@apnic.org

Continuation of Summary Out of Last New Delhi SSC Meeting



APKIC Strategic Roadmap 2018-2020



No.	Economy	Quantity (Copies)	Distribution Option		Recipient
			During Meeting	Shipping	
1	Bangladesh Bangladesh PKI Forum	-			
2	China Beijing Certificate Authority Co., Ltd.	-			
4	Hong Kong Hong Kong PKI Forum	100		X	Vanessa Yui
5	India India PKI Forum	100	X		Vijay Kumar
6	Iran Iran Center for eCommerce Development (ICED)	100		X	Acadeh Bagheri
7	Japan GMO GlobalSign K.K.	40	X		Atsushi Inaba
8	Korea Korea PKI Forum	100		X	Cho Moonhee
9	Macao Macao Post and Telecommunications Bureau	100		X	Phoebe Ip
10	Taiwan Chinese Taipei PKI and e-Authentication Consortium	100		X	Vivian Liu
13	Thailand Thailand PKI Association	100			Thitikom
Total		740	2	5	

Total shipping cost is **USD 309.84**

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Continuation of Summary Out of Last New Delhi SSC Meeting



APKIC Strategic Roadmap 2018-2020



No.	Economy	Quantity (Copies)	Distribution Option		Recipient
			During Meeting	Shipping	
1	Bangladesh Bangladesh PKI Forum	-			
2	China Beijing Certificate Authority Co., Ltd.	-			
4	Hong Kong Hong Kong PKI Forum	100		X	Vanessa Yui
5	India India PKI Forum	100	X		Vijay Kumar
6	Iran Iran Center for eCommerce Development (ICED)	100		X	Acadeh Bagheri
7	Japan GMO GlobalSign K.K.	40	X		Atsushi Inaba
8	Korea Korea PKI Forum	100		X	Cho Moonhee
9	Macao Macao Post and Telecommunications Bureau	100		X	Phoebe Ip
10	Taiwan Chinese Taipei PKI and e-Authentication Consortium	100		X	Vivian Liu
13	Thailand Thailand PKI Association	100			Thitikom
Total		740	2	5	

Total shipping cost is **USD 309.84**

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Proposals for 2019 APKIC SSC and GA/SC Location and Hosting Countries



SSC Meeting:

- SSC Meeting in Q2 of 2019
- 10,000 USD budget allocation from the 2019 SSC Meeting Resolution:
 - includes airfare and accommodation for only one Principal member of each country and travel and accommodation for one person from the secretariat
- Bangladesh PKI Consortium has expressed interest in hosting the 2019 SSC Meeting

2018 STEERING COMMITTEE AND GENERAL ASSEMBLY MEETING

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Proposals for 2019 APKIC SSC and GA/SC Location and Hosting Countries



GA/SC Meeting:

- GA/SC Meeting in Q3-Q4 of 2019
- 35,000 USD budget allocation from the 2019 GA/SC Meeting Resolution:
 - includes airfare and accommodation for at least one delegate from each Principal member and any invited speakers, as well as travel and accommodation for one person from the secretariat
- India PKI Forum has expressed interest in hosting the 2019 GA/SC Meeting



Resolutions of 2018 APKIC GA/SC Meeting



Any Other Business (AOB)

附錄5 國際研討會研討簡報



Building a standard for cloud signatures

A new industry consortium to pioneer open digital signatures for mobile and the web

#OpenSignature

Meet the Cloud Signature Consortium

- The **Cloud Signature Consortium** was originally founded in 2016 by an international cooperation group of industry and academic experts, including solutions, technology and trust service providers
 - Promoting cloud-based Electronic Trust Services.
 - Design a common architecture and building blocks to facilitate their interaction
 - Develop technical specifications for protocols and APIs to make these interactions easy and interoperable.
 - Publish technical specifications as open standards.



Secure transactions,
on the go



Cloud storage,
no download



Single certificate
ownership



Easy deployment
for end users

The Members

Adobe	USA/Ireland
Asceco Data Systems	Poland
BuyPass	Norway
Certinomis	France
CertSign	Romania
DigiCert	USA
D-Truist/Bundesdruckerei	Germany
eMudhra	India
GlobalSign	USA/Japan
KPMG	Norway
InfoCert	Italy
Infarcys	Germany
Intesi Group	Italy
Notarius	Canada
QuoVadis/WiseKey	Switzerland/Belux
SafeLayer	Spain
Selko	Japan
Technische Universität Graz	Austria
Trans Sped	Romania
UniverSign	France
Validated ID	Spain



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Current activities

- **In January 2018 the Consortium became a Not For Profit Association**
 - Acquired legal personality to support membership expansion and advocacy worldwide
- **Cooperation**
 - Establishing a Cooperation Agreement with ETSI to allow mutual exchange of contributions for the development of standards for trust services.
 - The CSC API specification is referenced in ETSI TS 119 432 "Protocols for remote digital signature creation"
 - Active cooperation with Government agencies involved in public policies about remote signatures.
- **Making the CSC API V1 Specification publicly available**
 - <https://cloudsignatureconsortium.org/specifications>
 - JSON schema available
 - OpenAPI schema available

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Why join?

- **Three levels of Membership: Associate / Premium / Executive**
 - Become part of an active Community of adopters and endorsers:
 - Service Providers, Solution Providers, Technology Providers, System Integrators, Consultants, Auditors.
 - Contribute to develop the standard:
 - Influence and drive strategic directions
 - Benefit from early access to API specifications.
 - Marketing initiatives, Public policies
- **Conformity Checker**
 - The Consortium has developed a Conformity Checker software to help testing service implementations for interoperability and performance analysis.

Interested to join? <https://cloudsignatureconsortium.org/contacts>



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The CSC Technical Specifications in a nutshell

- **The CSC Specification V1 covers architectures, protocols and APIs for Remote Signature Creation**
 - Web Service API based on REST protocol and JSON data-interchange. Modern and easy to implement.
- **Designed for growth. Self-discovery capacity**
 - Supports modular services, in line with the mission/capacity of providers and consumers.
 - Services may implement only a particular subset of the API. Clients can easily discover the supported APIs.
- **Native support of client and user authentication**
 - Covers multiple implementation contexts: desktop and mobile apps, cloud-based and on-premise services.
 - Supports Basic/Digest auth, TLS, OAuth, SAML, OpenID Connect.
- **Flexible support of credential authorization mechanisms**
 - Supports static secrets, synchronous and asynchronous OTP, OAuth, SAML, OIDC.
 - Multi-Factor-Authentication can be obtained by combining multiple mechanisms.
- **Designed to support eIDAS requirements and CEN / ETSI standards**
 - But flexible to support a broader set of requirements for Global adoption.

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Standardization roadmap

- **Expand the API to support additional Trust Services**
 - Core API for Cloud Signatures (Remote Digital Signatures)
 - Identity Verification and Authentication
 - Certificate enrollment automation
 - Signature validation and augmentation
 - Long-term Preservation
- **All future services will benefit from a common API framework and unified design**
 - Client and user authentication
 - Flexible resource authorization
 - REST+JSON API
 - Open Standard and interoperable
 - Privacy by design

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Fast deployment.

Our web and mobile apps are ready when you are. Your users will get a quick-start email. They can learn through our awesome tutorials. Or dive right in with our easy interface.



Mobile power.

Send, track, and manage signing processes on the go. Collect in-person signatures. Or scan paper docs with your mobile camera and send them for signature in a flash.



Error-proof workflows.

Design business processes that everyone can follow, every time. Just drag and drop to create workflow templates that reduce mistakes and improve compliance.



Branded experiences.

Your organization's brand is important — to you, your team, and your customers. Adobe Sign reflects your brand, not ours, so you can position your company as the leader. It is.



Self-serve forms.

Put forms on your website, so customers can fill, sign, and return in seconds. Or create an internal portal for employees to find the right form quickly.



Document templates.

Upload any popular document type or get it from online storage. Easily add signature or form fields, and then send for signature or save it as a reusable template.



Online payments.

Connect to your Braintree account (a PayPal service) to securely collect payments — right when customers fill and sign forms.

Adobe Sign adopts the CSC specifications

- **Adobe Sign implements the V0 of the CSC specifications**
 - Works from any laptop or mobile devices, using a web browser or dedicated app
 - Supports OAuth for user-centric authentication
 - Advanced and Qualified Signature
 - Supports RSASSA-PSS for algorithm compliance to Germany
 - Supports ETSI PAdES-B-LT for long term validity. Expanding to support PAdES-B-LTA
- **The CSC advantage**
 - A new CSC provider can be onboarded in 2 working days (Configure and Test)
 - Authentication and authorization mechanisms are under the control of the Provider
 - Unique market coverage for the Enterprise market
 - Work with multiple providers supporting multiple Regions and languages
 - Wide support of operational models
 - Wide Industry and regulatory compliance (e.g. Pharma / Finance)



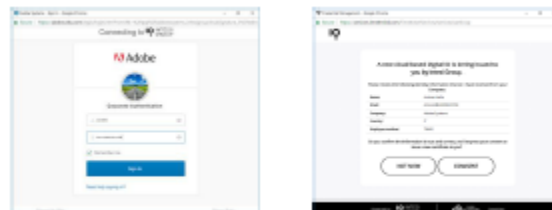
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Solution: Cloud Signature based on a Corporate Identity

- ❖ Almost all enterprises have an internal identity service for employees' authentication.
- ❖ Adobe's Okta corporate identity provider has been integrated into Intesi Group's CSC Cloud Signature service to automate the generation of certificates for employees.
- ❖ Adobe operates the RA role and verifies the identity of employees.
- ❖ This provides a great user experience through a familiar authentication and low costs.



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Solution: Cloud Signature based on BankID electronic identity

- ❖ BankID is a public electronic identity service used by 7.5 million citizen in Sweden
- ❖ Intesi Group has integrated BankID authentication to identify users and issue one-shot certificates for applying advanced electronic signatures in Adobe Sign.
- ❖ The signature experience is simple, fast and secure.
- ❖ The solution is being expanded to other relevant public eID services.



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Adobe's CSC roadmap

- **Adobe Cloud Signature Partner program**
 - Co-sell and co-marketing opportunity for TSPs
 - Develop custom solutions with Adobe Sign APIs
- **Support of OAuth for signature authorization**
 - Gives the Provider full control of the authorization process
- **Add CSC remote signing to Adobe Acrobat and Reader**
 - Create remote signatures from ubiquitous desktop applications with *Zero Footprint Setup*
 - For TSPs: Join the Adobe Cloud Signature Partner program and make Acrobat Reader your free digital signature application!
- **Expand Cloud Signature services with Dynamic Identity Verification**
 - Currently supporting BankID in Sweden and Norway, extending to other eID schemes in the EU Nordics
 - Simplified integration with Corporate Identity Services with dynamic certificate generation.
- **User Experience enhancements**
- **Onboard additional Trust Service Providers**

2019

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Thank you!

Tushit Bharthuar | tbharthu@adobe.com





Law Relate e-Tax Invoice?



- Electronic Transactions Act B.E. 2544 (2001)
- Notification of the Director-General of Revenue Department on e-Tax Invoice by Email B.E. 2560 (2017)
- Notification of the Director-General of Revenue Department on e-Tax Invoice B.E. 2560 (2017)



Timeline of e-Tax Invoice?



2012



e-Tax Invoice

- Applicable to VAT companies with paid up capital more than 10 million THB
- PKI digital signature had been applied
- 26 users**

MAR 2017



e-Tax Invoice by EMAIL

- Applicable to VAT companies with annual revenue not greater than 30 million THB
- PKI Time-stamping has been applied
- 125 users*

JUN 2017



e-Tax Invoice and e-Receipt

- Applicable to ANY VAT companies.
- PKI digital signature has been applied
- 175 users*



* all of them registered to e-tax invoice and e-Receipt

** Data as of Nov 26, 2018

E-TAX INVOICE & RECEIPT

- Applicable to VAT companies with annual revenue not greater than 30 million THB
- PKI Time-stamping has been applied
- Seller does NOT need to own any certificate for digital signature
- PDF/A-3 and UN/CEFACTXML invoice format
- Invoices are delivered from seller to RD and buyervia email

E-TAX INVOICE & RECEIPT

- Applicable to ANY VAT companies
- PKI digital signature has been applied
- Seller must own certificate that issued under NRCA for digital signature
- UN/CEFACTXML invoice format
- Invoices are delivered to RD via either
 - 1) Host-to-Host over ebXML
 - 2) Web file upload
 - 3) Service provider



Components to be considered as e-Tax Invoice in e-Tax Invoice by Email

PDF/A-3 + XML + TEDA

PDF for Archiving version-3 Invoice in XML file ETDA Recommendation 3-2560 TEDA e-Timestamping (TSA) operated by ETDA

How to Make Emailing Secure by Not Using SMIME

- Sender Policy Framework (SPF)**
An email authentication protocol that allows the owner of a domain to specify which mail servers they use to send mail from that domain.
- DomainKeys Identified Mail (DKIM)**
A cryptographic approach to authenticating email. Email message will be signed in order to prevent email message to be altered during transmission.

Only Well Known Email Or Senders with SPF/DKIM Only



Components to be Considered as e-Tax Invoice and e-Receipt



How to Keep the Private Key!



HSM

USB Token



How to Keep the Private Key 4.0!



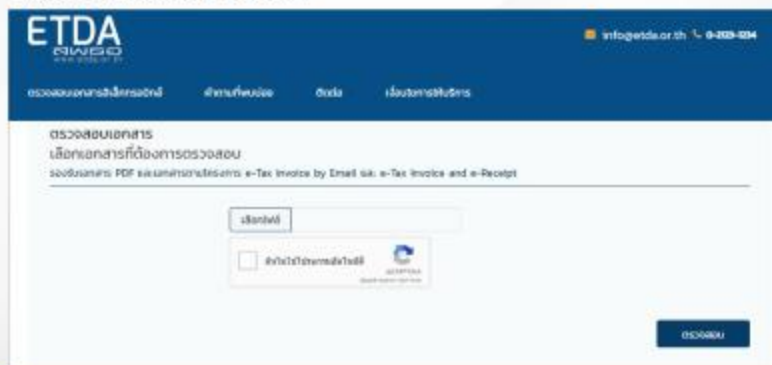
Mobile PKI by ETDA

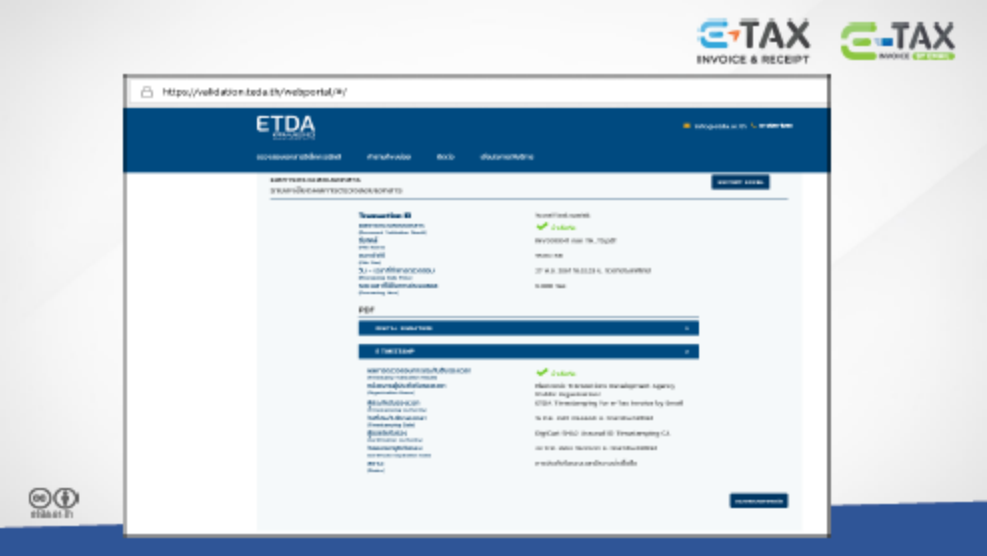
- Key not stored in SIM
- Key-pair generated on the device
- Private key stored in secure element of the device
- Digital signature created on the device
- Work with mobile application and web application
- FIDO Compliance
- Pilot in Q1 2019!



Is this the Real Invoice?

e-Tax Invoice Web Validation
<https://validation.teds.th/webportal/>





Current PKI Trends

The Rise of the IoT

The IoT is the fastest growing trend driving the deployment of applications that use PKI

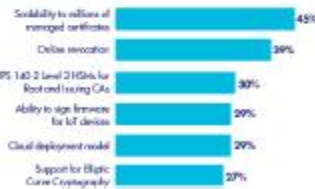


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42% of IoT devices in use will use digital certificates for identification/authentication in the next two years.

The most important PKI capabilities for IoT deployments are:

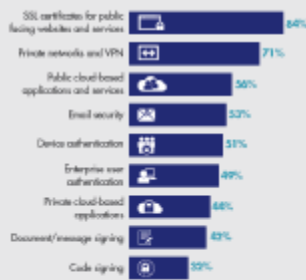


Source: 2018 Global PKI Trends Study, Ponemon Institute LLC

Dec 2018

Current Applications and Challenges

APPLICATIONS THAT MOST COMMONLY USE DIGITAL CERTIFICATES



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Ongoing PKI challenges

TOP CHALLENGES IN DEPLOYING/MANAGING PKI



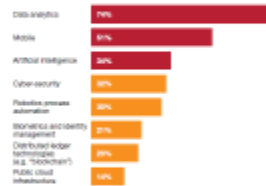
Source: 2018 Global PKI Trends Study, Ponemon Institute LLC

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Developments in Fintech ...

Technological areas of investment

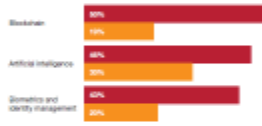
What are the most relevant technologies for your business that you plan to invest in within the next 12 months?



Source: PwC Global FinTech Survey 2017

Focus on emerging technologies

Percentage of large companies that identified these emerging technologies as the most relevant to invest in over the next 12 months.



Source: PwC Global FinTech Survey 2017. Note: We include only responses of companies with more than 500 employees.

Source: <https://www.pwc.com/govaffairs/financial-services/tech-survey/2017.html>

- **Blockchain Technology**
- **Artificial Intelligence & Machine Learning**
- **Cloud Computing & Advanced Data Analytics**
- **Social Trading and Financial Wellness Platforms**
- **Mobile Technology**

Source: <https://www.pwc.com/govaffairs/financial-services/tech-survey/2017.html>

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and Trends in Emerging Technology...



- 1: Autonomous things
- 2: Augmented analytics
- 3: AI-driven development
- 4: Digital twins
- 5: Empowered edge
- 6: Immersive technologies
- 7: Blockchain
- 8: Smart spaces
- 9: Digital ethics and privacy
- 10: Quantum computing

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<https://www.pki.gov.hk/en/infocentre/pki-for-hk-no-33-strategic-technology-trends-for-2019/>

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Case Study: Enabling Cross-Border Identity Verification



- Mainland China government identity database
- Recognised CAs in Mainland China
- Licensed third party payment services providers
- Natural persons whose identity has been verified



- Recognized CAs by the HKSAR Government
- Registered HK Financial Institutions
- HK Smart City Consortium
- HK PKI Forum

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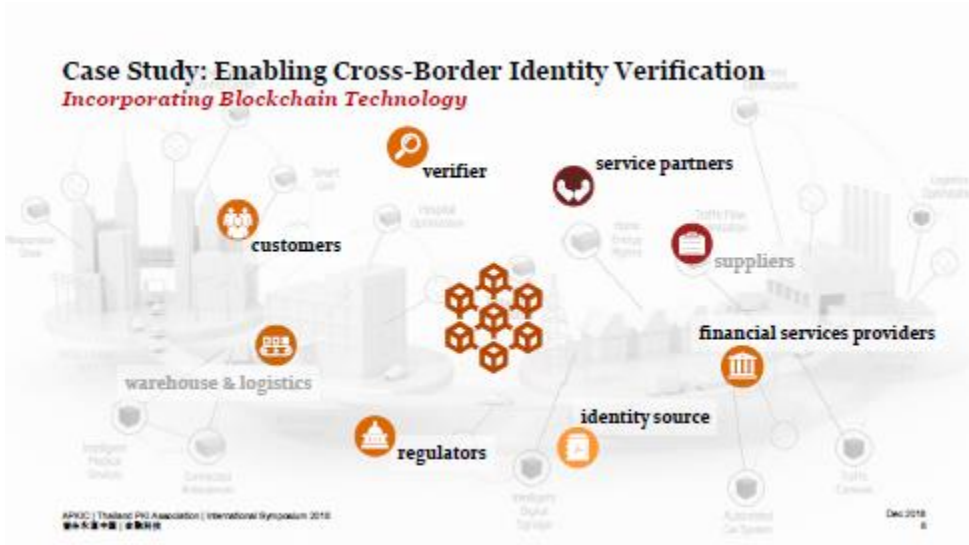
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Case Study: Enabling Cross-Border Identity Verification *Legal Enforceability*



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PKI: Realising a Trust Framework for Commerce



Adopting International Verification Framework



Legal and Policy Framework

The Need for Proactive Dialogue and International Collaboration

The pace of technology development and adoption ...



... discussions on technology, standards, protocols, and practices key to future adoption

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●●●●●●●● ●●●●●

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Beyond Identification and Authentication



William Gee

Vice Chairman, APKIC

Partner, PwC China | Risk Assurance Innovation Leader
Member, PwC Global Emerging Technology Leadership Team
Member, IAGB Technology Consultation Group

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eMudhra
Trust Delivered

Digital ID - Foundation to an Integrated Digital Society
APKIC International Symposium, Phuket, December 4th 2018
Presented by: Mr. V. Srinivasan, Chairman, eMudhra

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All transactions between parties are **face to face**

Parties to the transaction **know each other**

Trust established through **personal knowledge**

Transactions predominantly through **paper** and **wet signatures**

Not conducive for anywhere anytime transactions where parties do not know each other



The Physical World

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Paper driven processes take a toll on the **environment**

Paper intensive processes drive **inefficiency** and **bad customer experience**

Generally higher probability of **impersonation** and **fraud**

Expensive to run, monitor, manage, and maintain



The Physical World...continued..

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Digital world is borderless

Parties to transaction do not know each other

Anywhere anytime 24/7 transaction is the need of the hour

Expectation of people from government and businesses have increased manifold

Mobility is the order of the day

These can be catered only through digital transactions and digital transformation



Digital transactions/ transformation has opened up a huge challenge on identification and authenticity

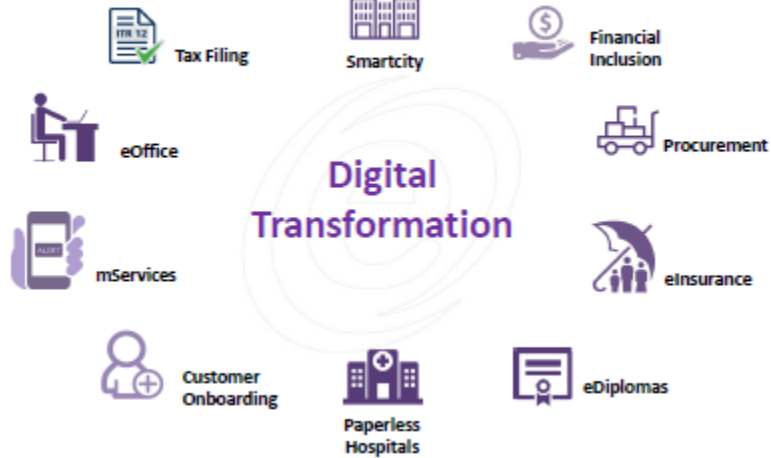
Physical ID cannot cater to digital world

Hence digital ID is critical for government and enterprise ecosystems.

PKI can be the baseline technology to facilitate digital transformation through digital authentication of IDs and transactions.

PKI based digital ID can also be used in Blockchain networks for further improvement in provision of services.





- Non PKI cards **do not provide adequate security** in the identification process
- Chip-based PKI cards require physical presence of citizen...**outdated!**
- Standalone card-based systems are **inflexible** in their security and assurance levels
- Scalability is **expensive and time-consuming** due to complicated provisioning
- The **overall vision of digital transformation** cannot be achieved through **physical ID** as **some physical touch point** is required for completing any transaction
- Hence **not conducive** to borderless digital world



- Digital IDs are the electronic equivalents to peoples' identity cards.
- You can present a Digital ID electronically to prove your identity or your right to access information or services online.
- Digital Identities have to be certified by Trusted third parties. It can be Government or any other Trusted party subjected to due accreditation.
- It contains certain details of the person's identity duly certified by the Trusted party.

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- One of the forms of Digital ids is Digital Signature certificates issued by Certifying Authorities.
- Digital certificates, bind an identity to a pair of cryptographic keys. This pair (the private and public key) can be used to sign and encrypt digital information. Digital ID technology is based on public key infrastructure (PKI) .
- In public key cryptography systems, every entity has two complementary keys, a public key and private key, which function only when they are held together.

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- The purpose of a Digital ID is to reliably link a public/private key pair with its owner
- A *Digital ID* makes it possible to verify someone's claim that they have the right to use a given key
- Used in conjunction with encryption, Digital IDs provide a more complete security solution, assuring the identity of all parties involved in an electronic transaction and authenticity of the transaction
- A Digital IDs are issued by a Certification Authority (CA) and signed with the CA's private key



What is Digital ID?

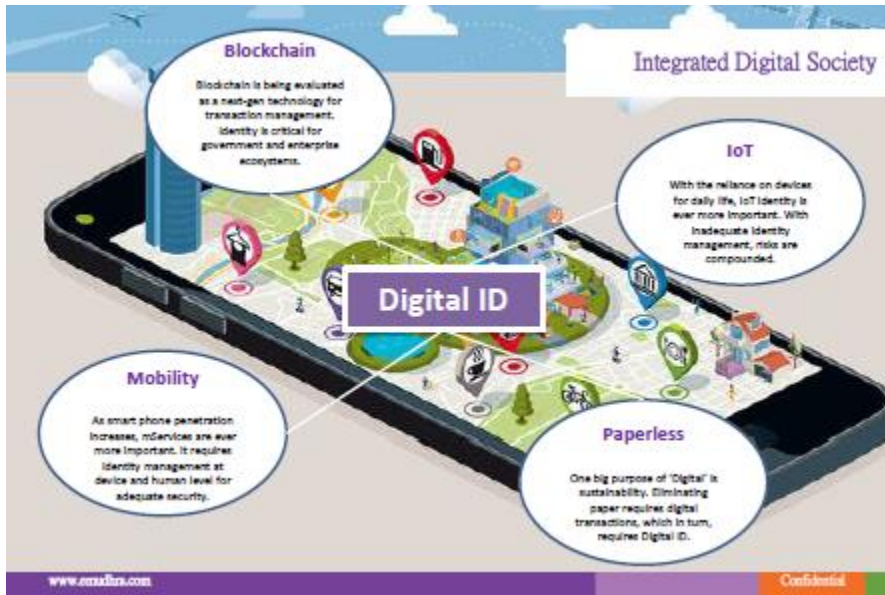
- A Digital ID typically contains the:
 - Owner's public key
 - Owner's name
 - Expiration date of the public key
 - Name of the issuer (the CA that issued the *Digital ID*)
 - Serial number of the Digital ID
 - Digital signature of the issuer



What is Digital ID?

- PKI based Digital ID enables mobility in a growing 'Smartphone' world
- Digital ID enables greater efficiencies in eServices across multiple sectors
- Digital ID helps map users AND devices & users TO devices which is required
- Digital ID facilitates greater environmental sustainability
- Digital ID empowers flexibility in Levels of Assurance that syncs customer convenience with use case

- Digital ID is ever more important in identifying devices as we move towards Smartcities
- Data Privacy, Paperless Transformation, and Blockchain all require Digital ID
- Digital ID, once evolved, has the potential to replace all physical ID documents, eg, passports
- Like identity is the pillar of today's society, Digital ID will be the pillar of tomorrow's society



Use cases of tomorrow

Paperless Immigration	Presence-less Banking	Cross-border Trading
Sophisticated Surveillance	Autonomous Transportation	Smart Homes

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INDIA MODEL – AADHAAR

- 1.2bn citizens issued a digitally signed electronic ID card upon enrollment
- Card contains a QR code that has key citizen data

For online transactions

- AADHAAR Number + Authentication used to prove identity of user
- Remote electronic signatures built on top of this ID for signing

For offline transactions

- Scanning of QR Code

ESTONIA MODEL -

- 98% of citizens given a ID card and crypto SIM
- Cards and SIM contain digitally signed information

For online transactions

- Mobile ID can be used for authentication and signing
- Electronic signatures built on top of this ID for signing using locally stored keys

For offline transactions

- Requires physical ID card and card reader

INDIA MODEL – AADHAAR**Key Highlights**

- Extremely low cost of issuance and operation
- Managed by a central public authority resulting in widespread adoption
- Built on completely open standards (QR Codes etc)
- No physical infrastructure required for verification of user
- Promotes layered innovation

ESTONIA MODEL -**Key Highlights**

- High cost of issuance and maintenance
- Open to both public and private sector for issuance of ID's
- Requires expensive physical infrastructure required for verification of user
- As telco's move to eSIM's, Crypto SIM may not be viable over time
- Layered innovation difficult since ID issuance is decentralized

An Integrated Digital Society relies on effective and efficient forms of Digital ID

Digital ID framework requires considerations on scalability, effectiveness, and usability

Future technologies will always rely on identity as a baseline requirement to facilitate digital services

This calls for

more public supervision of digital identification systems

Even more National ID card and eID programs, national ID initiatives and implementations

PKI is the best form of Digital ID in today's and tomorrow's world

Thank You

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