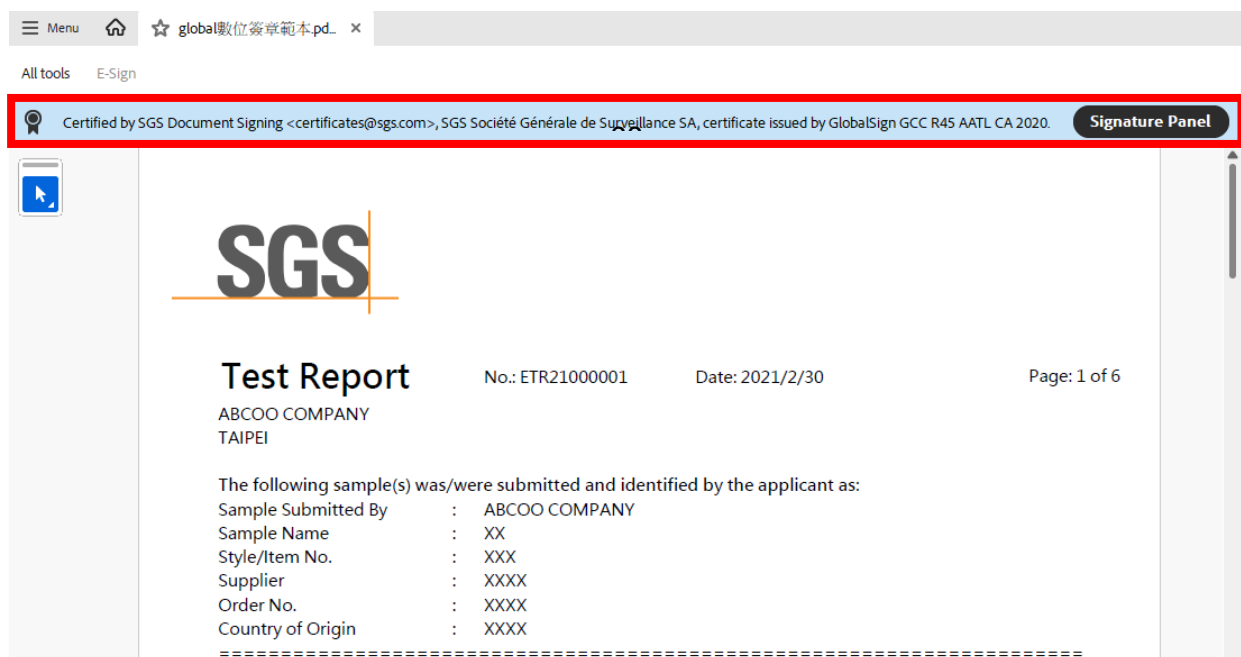


敬啟者，

首先，代表 SGS 表達我們衷心的感激 貴公司愛護及支持我們的服務，如同主旨敘述，簡單說明如下：

SGS TW 互聯與產品事業群—電子電器化學分析與永續發展服務部門 (C&P / EE C&S) 自 2008 年起便於 PDF 檔報告加入數位簽章。測試報告加簽數位簽章的用意旨在於保護該份文件，確保使用者在拿到測試報告時可即時辨識是否由 C&P / EE C&S 所發行，沒有經過變更或遭到竄改，以防止報告被偽造。

由於資訊科技日新月異為避免數位簽章遭到有心人士破解，C&P / EE C&S 也會更新數位簽章，以防止報告被竄改。C&P / EE C&S 曾使用過由 VeriSign 與 DigiCert 所核發的數位簽章。2025/07/01 前發行的報告，數位簽章依舊有效(簽章首次辨識須執行”新增至信任的認證”程序)；2025/07/01 (含)後發行的報告，無須執行”新增至信任的認證”程序，開啟 PDF 檔案後可於文件上方的信息欄看到 SGS 的數位簽章辨識資訊，如下圖所示。



若有其他相關疑問，歡迎來電詢問，本公司定當竭誠為您說明服務。

敬祝 商祺

黃進輝 Denny HUANG

互聯與產品事業群 / 電子電器化學分析與永續發展服務
副總

台灣檢驗科技股份有限公司

FORM-LAMP-CHP-002-02

版本日期：2025.05.20

Q1：何謂數位簽章？

A1：數位簽章（又稱公鑰數位簽章、電子簽章）。數位簽章不是指將簽名掃描成數位圖像，更不是落款。數位簽章使用公鑰加密的技術，來驗證數位資訊。例如文件、電子郵件訊息和巨集。數位簽章有：

驗證性 (Verification)：數位簽章有助於確保簽署者即為簽署者本人。

完整性 (Integrity)：數位簽章有助於確保內容在數位簽署之後，沒有經過變更或遭到竊改。

不可否認性 (Non-repudiation)：數位簽章有助於向各方證明所簽署內容的來源。換句話說某一資料的作者無法否認資料是由他所作。

Q2：如何信任數位簽章？

A2：請參考“如何確認 SGSTW 數位簽章.PDF”之說明，自 2008 年起會隨著報告電子檔附予客戶參考。

2025/07/01 後 SGS TW 發行的報告無須執行“新增至信任的認證”程序。

Q3：報告中加入數位簽章的目的為何？

A3：加數位簽章的用意是在於保護該份文件，使用者拿到此文件時可即時辨識是否由 SGS TW 所發行，以防止報告被偽造。

Q4：SGS TW C&P/EE C&S 自何時開始加入數位簽章在報告中？

A4：自 2008 年起送樣檢測的報告(例如：CE/2008/XXXXX)及 2008 年起發行的加發報告，均會加入數位簽章在報告 PDF 檔中。

Q5. 數位簽章是否具有有效期限？

A5：數位簽章有效期。但在效期內加簽的文件亦可被鑑別。由於資訊科技日新月異及為避免 SGS TW 數位簽章遭有心人士破解，SGS TW 也將更新數位簽章內容，以防止報告被偽造。SGS TW 曾使用過由 VeriSign 所核發的數位簽章 (2007/08/22, 2009/08/20、2011/08/18 及 2017/07/20) 與 DigiCert 所核發的數位簽章 (2020/08/17、2022/06/22、2023/06/19 及 2024/06/27)。2025/07/01 (含) 後發行的報告，無須執行“新增至信任的認證”程序，開啟 PDF 檔案後可於文件上方的信息欄看到 SGS 的數位簽章辨識資訊，如下圖所示。



由“SGS Document Signing <certificates@sgs.com>”, SGS Société Générale de Surveillance SA 認證, 由“GlobalSign GCC R45 AATL CA 2020”簽發認證。

Q6. SGS TW 數位簽章更新後須執行什麼動作？

A6：2025/07/01 (含) 後發行的報告，無須執行“新增至信任的認證”程序，開啟 PDF 檔案後可於文件上方的信息欄看到 SGS 的數位簽章辨識資訊；2025/07/01 前發行的報告，數位簽章依舊有效(簽章首次辨識須執行“新增至信任的認證”程序)。

Q7. 須使用何種軟體開啟具數位簽章的 PDF 檔？

A7：建議使用 Adobe Acrobat Reader DC 以上的版本。早期版本不具辨識數位簽章功能。

Q8：如何取得 Adobe Acrobat Reader 軟體？

A8：可至 Adobe 官方下載頁面下載免費軟體。

<http://get.adobe.com/tw/reader/>

Q9：若客戶原是使用舊版 Adobe 專業授權版本，安裝新版 Reader 是否會覆蓋原來的版本？

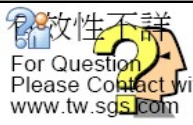
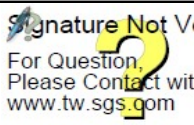
A9：不會，安裝之後會是兩個獨立的軟體。

Q10：2008 年之前的報告是否也可要求加入數位簽章？

A10：可以，只需向 SGS TW 提出申請。

Q11：具數位簽章的 PDF 檔是否可插入其他電子檔？

A11：數位簽章的報告一經插入其他文件，則會被視為檔案已被修改。Adobe 軟體辨識 SGS TW 數位簽章時，乃針對 SGS TW 公鑰進行辨識。通過信任驗證後，第一頁右上角會有打勾符號 (辨識結果不受呈現符號或文字影響)。2025/07/01 (含) 後發行的報告，無須執行“新增至信任的認證”程序，開啟 PDF 檔案後可於文件上方的信息欄看到 SGS 的數位簽章辨識資訊。

	2025/07/01 ~		
狀態	Adobe Reader		
SGS TW 數位簽章	 由 "SGS Document Signing <certificates@sgs.com>"、SGS Société Générale de Surveillance SA 認證，由 "GlobalSign GCC R45 AATL CA 2020" 簽發認證		
被修改或破壞的報告	 Certification by SGS Document Signing <certificates@sgs.com> is invalid.		
		2008/02/01~2025/06/30	
狀態	顯示說明	Adobe Reader (Chinese version)	Adobe Reader (English version)
尚未信任 SGS TW 數位簽章	簽章圖樣上顯示問號	 有效性不詳 For Question Please Contact with SGS www.tw.sgs.com	 Signature Not Verified For Question Please Contact with SGS www.tw.sgs.com
已信任 SGS TW 數位簽章有效	簽章圖樣上顯示打勾符號 (通過信任驗證)	 簽名有效 For Question Please Contact with SGS www.tw.sgs.com	 Signature valid For Question Please Contact with SGS www.tw.sgs.com
被修改或破壞的報告	簽章圖樣上顯示 X 符號	 簽名無效 For Question Please Contact with SGS www.tw.sgs.com	 Signature invalid For Question Please Contact with SGS www.tw.sgs.com
		2008/01/01~01/31	
狀態	顯示說明	Adobe Reader (Chinese version)	Adobe Reader (English version)
尚未信任 SGS TW 數位簽章	簽章圖樣上顯示問號	 有效性不詳 Digitally Signed by www.tw.sgs.com	 Validity unknown Digitally Signed by www.sgs.com Date: 29 Nov 2007 03:20:38 GMT
已信任 SGS TW 數位簽章有效	簽章圖樣上顯示打勾符號 (通過信任驗證)	 簽名有效 Digitally Signed by www.sgs.com Date: 11 Jan 2008 07:43:22 GMT	 Signature valid Digitally Signed by www.tw.sgs.com
被修改或破壞的報告	簽章圖樣上顯示 X 符號	 簽名無效 Digitally Signed by www.tw.sgs.com	 Signature invalid Digitally Signed by www.tw.sgs.com

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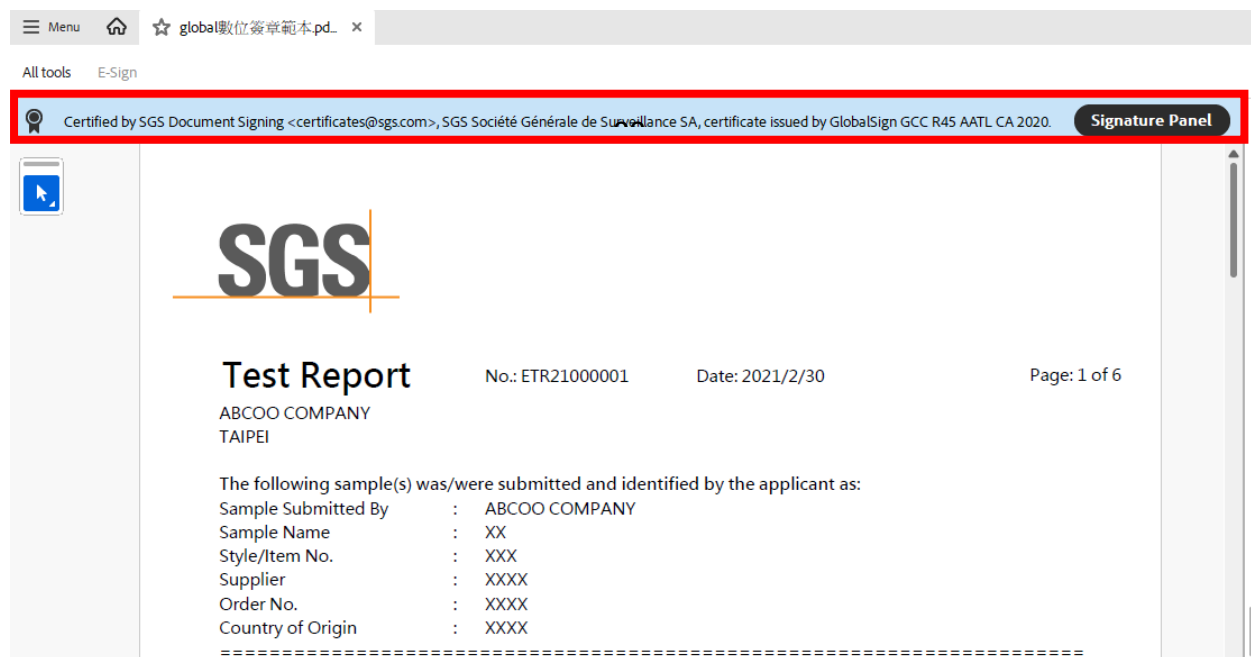
SGS C&P / EE C&S - DIGITAL SIGNATURE RENEW

To whom it may concern,

We hope your esteemed company is doing well with sincere regards, and truly appreciate your supports for our service.

The test report issued by SGS TW C&P / EE C&S had already added digital signature since 2008. The purpose of digital signature is to protect the report. Users can immediately identify and confirm that no changes or falsifications made to the content after signature attached.

Rapid advancement of information technology elevates the risk of cracking of digital signatures. In order to protect our client's best interests, SGS TW C&P / EE C&S will renew digital signatures on a timely basis to avoid forgery. We used to have four digital signatures issued by VeriSign and DigiCert under the title of SGS TW. For reports issued before July 1, 2025, digital signatures will remain valid. However, the first time you recognize the signature, you must perform the "Add to Trusted Identities" procedure. For reports issued on or after July 1, 2025, this procedure is not necessary. When you open the PDF file, you will see the SGS digital signature information in the information bar at the top of the document, as shown in the image below.



SGS does care whatever samples you wish to test. You entrust with us, which is the driving force for our progress.

Sincerely,

Denny HUANG
C&P / EE C&S
Director

SGS Taiwan LTD.

Version Date : 2025.05.20

FORM-LAMP-CHP-002-02

1. What is digital signature?

A : Digital signature (also called public key digital signature、electronic signature). Digital signature is neither to scan the signature into digital image nor to inscribe the signature in the report. Digital signature utilizes public key encryption to verify digital information such as documents、emails and macro. Digital signature has :

- Verification : helps to verify the subscriber oneself.
- Integrity : helps to confirm that no changes or falsifications made to the content after signature attached.
- Non-repudiation : helps to prove the source of content.

2. How to trust digital signature?

A : Please refer to "Validate Signature_E.pdf". Since 2008, this file will be attached with electro report files to clients for reference. Reports issued by C&P/EE C&S on or after July 1, 2025, do not require the "Add to Trusted Identities" procedure.

3. What is the purpose of digital signature in the report?

A : The purpose of digital signature is to protect the report. Users can immediately identify whether or not C&P/EE C&S issues the document to prevent falsified reports.

4. When does C&P/EE C&S start adding digital signature into the report?

A : Digital signature will be added to all PDF files on testing reports issued since 2008 (for example: CE/2008/XXXXX) and extra copy of reports issued since 2008.

5. Does digital signature have an expiry date?

A : Rapid advancement of information technology elevates the risk of cracking of digital signatures. In order to protect our client's interests, C&P/EE C&S will renew digital signatures on a timely basis to avoid forgery. We used to have four digital signatures (2007/08/22, 2009/08/20, 2011/08/18 and 2017/07/20) issued by VeriSign and DigiCert (2020/08/17, 2022/06/22, 2023/06/19 and 2024/06/27) under the title of SGS TW. For reports issued on or after July 1, 2025, when you open the PDF file, you will see the SGS digital signature information in the information bar at the top of the document, as shown in the image below.



Certified by SGS Document Signing <certificates@sgs.com>, SGS Société Générale de Surveillance SA, certificate issued by GlobalSign GCC R45 AATL CA 2020.

6. What actions need to be taken after updating the SGS TW digital signature?

A : For reports issued before July 1, 2025, digital signatures will remain valid. However, the first time you recognize the signature, you must perform the "Add to Trusted Identities" procedure. For reports issued on or after July 1, 2025, this procedure is not necessary. When you open the PDF file, you will see the SGS digital signature information in the information bar at the top of the document.

7. What software is required to open the PDF files containing digital signature?

A : Adobe Acrobat Reader DC or above required to function the digital signature.

8. How to get Adobe Acrobat Reader software?

A : Go to Adobe official downloading website to obtain free software.

<https://get.adobe.com/tw/reader/>

9. If the client used old Adobe professional Authorized Version, will the new Reader version replace old one?

A : No, there will be two independent software.

10. Can digital signature be added to reports issued before 2008?

A : Yes, you only need to apply to SGS TW C&P / EE C&S.

11. Is it possible to sign an additional signature to PDF files already containing digital signature?

A : If an additional signature processed to PDF files already containing digital signature, the file will be regarded as altered condition. Therefore, please avoid this action.

		2025/07/01 ~	
Status	Adobe Reader		
SGS Digital signature valid	 Certified by SGS Document Signing <certificates@sgs.com>, SGS Société Générale de Surveillance SA, certificate issued by GlobalSign GCC R45 AATL CA 2020.		
Signature invalid	 Certification by SGS Document Signing <certificates@sgs.com> is invalid.		
		2008/02/01~2025/06/30	
Status	Symbol	Adobe Reader (Chinese version)	Adobe Reader (English version)
Unverified SGS TW digital signature	Question mark	 有效性不詳 For Question Please Contact with SGS www.tw.sgs.com	 Signature Not Verified For Question Please Contact with SGS www.tw.sgs.com
SGS TW Digital signature valid	Check mark	 簽名有效 For Question Please Contact with SGS www.tw.sgs.com	 Signature valid For Question Please Contact with SGS www.tw.sgs.com
SGS TW Digital Signature invalid	Cross mark	 簽名無效 For Question Please Contact with SGS www.tw.sgs.com	 Signature invalid For Question Please Contact with SGS www.tw.sgs.com
		2008/01/01~01/31	
Status	Symbol	Adobe Reader (Chinese version)	Adobe Reader (English version)
Unverified SGS TW digital signature	Question mark	 有效性不詳 Digitally Signed by www.tw.sgs.com	 Validity unknown Digitally Signed by www.sgs.com Date: 29 Nov 2007 03:20:38 GMT
SGS TW Digital signature valid	Check Mark	 簽名有效 Digitally Signed by www.sgs.com Date: 11 Jan 2008 07:43:22 GMT	 Signature valid Digitally Signed by www.tw.sgs.com
SGS TW Digital Signature invalid	Cross mark	 簽名無效 Digitally Signed by www.tw.sgs.com	 Signature invalid Digitally Signed by www.tw.sgs.com

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