



# " Digital Validation Gateway "



## "Digital Validation Gateway"... The Window to the Future

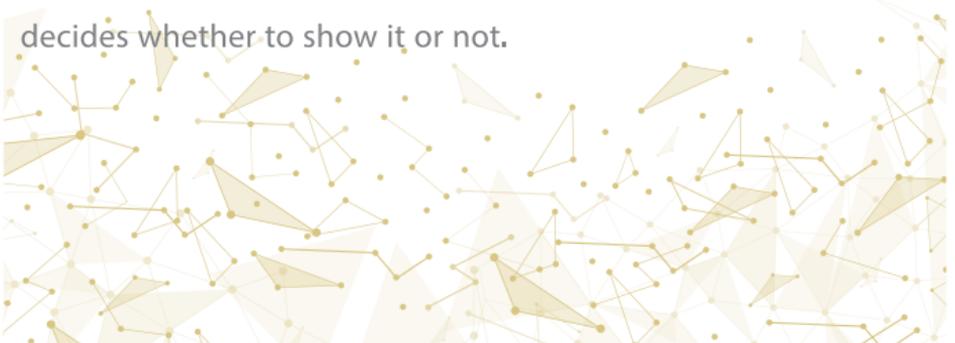
The digital Validation Gateway is a service provided by the Emirates ID Authority online in order to enable the government and private entities and individuals to use the smart ID card issued by the Authority to complete transactions through cyberspace.

The Validation Gateway (<http://vg.emiratesid.ae>) offers a broad range of digital services related to the ID card that users and entities can access (after obtaining the approval of the Authority) and take advantage of their different features by accessing the electronic services that require the use of ID card for identity verification and electronic signature, without the need to any programming information or encryption experience.

## The Validation Gateway Benefits for Individuals and Entities

### The benefits for the ID holder:

- Saving time in verifying the identity whenever needed.
- Providing access to government electronic services more securely and efficiently.
- Facilitating business operations by providing a reliable source of data.
- The Gateway provides the ID card holder the possibility to verify his identity by using one card, whether in entities, departments, companies or online
- The Gateway services prevent the ID card holder from holding several personal cards or passport or other means of ID verification cards to obtain services whether in government entities or private institutions.
- Increasing the number of services available online day after day, making it more accessible for any ID card holder.
- Providing a higher level of security to the ID card holder, and reducing the risk of fraud and identity theft.
- The Gateway provides a reliable base allowing the users to prove their identities without the need to submit a lot of personal information stored in many entities, such as: hospitals, doctors , credit card companies, banks, insurance companies and other entities.
- The Gateway provides the ID card holder with full control, as he decides whether to show it or not.



**As for the government entities and private sector institutions the Validation Gateway offers many benefits such as the following:**

- Enabling the government entities and private sector institutions to verify securely the identity of the users of online services through government portals, online banking services, electronic applications... etc.
- Providing the ID card holders with more online services, thus achieving a higher level of efficiency.
- Reducing the need for multiple databases, each containing specific information of the person's data, thus reducing the chances of error while filling or collecting the data.
- Enhancing the level of security for the ID card holder while using online services, through the signing and encryption of the data.
- Reducing the amount of paper used, by scanning documents and handling the same electronically.
- The use of certificates included in the ID card in addition to the Validation Gateway services enable the institutions to offer more online services, without the need to complex upgrades to the existing systems.
- The Validation Gateway removes all the difficulties that face any organization that wants to use the ID card in its electronic transactions.



## The Services Offered by the Validation Gateway:

### 1. Card Authenticity and Status Verification

The Validation Gateway allows the ID card holder or the organization to verify the authenticity and validity of the ID card, through a number of technical steps by reading the general data and verifying the security features in the card, then reading the digital certificates and verifying the validity thereof through the Online Certificate Status Protocol (OCSP), and displaying the result to the user through easy-to-read codes, where the result is (the card is valid or invalid).

**Example:** When opening a bank account, the card used by the user in the process of opening an account shall be verified to confirm it is true and not falsified. The data contained in the electronic chip is read then used in the process of completing the user's data in the bank account file.



## 2. Biometric Fingerprint Verification

During the registration process, the ID card holder registers his fingerprints, which are stored on the card for later use as second evidence that guarantees the use of the same by the actual holder. During the "vital conformity" process, the Validation Gateway verifies the fingerprints, then the fingerprints read through the e-reader are compared to the fingerprints stored on the card, and the result is displayed to verify the matching. Through this process, the ID card holder can use the digital certificates embedded in the card, and can use his card securely in order to identify himself when completing the online transactions or applications. This contributes in facilitating the use and enhancing the level of security and efficiency for ID card holder or government entities or institutions.

**Example:** Abu Dhabi Retirement Pensions and Benefits Fund takes advantage of this service in the self-service kiosks, through the verification of the fingerprint, so that the kiosk allows the user to take advantage of the many self-services, such as making payments, printing certain certificates... etc.



### 3. PIN Reset

In case of entering the PIN number incorrectly three times, the card is blocked to protect it against misuse or unauthorized use. In this case, the ID card holder shall visit the Customer Service Center affiliated to the Emirates ID Authority to re-activate the ID card and reset the PIN number. In order to reset the PIN number, the ID card holder shall verify his identity in another way as the PIN number can no longer be used for this purpose. The Gateway allows resetting the PIN number by allowing the ID card holder to prove his identity through his fingerprint so that the Gateway verifies his identity and allows him to enter a new PIN number. Then the ID card holder may start using his ID card again. This process is usually used in case the ID Card holder forgot his PIN number or needs to amend the same.

**Example:** Dubai Smart Government has launched this service in its self-service kiosks, allowing the users to change the PIN number of their cards, and take advantage of all the services provided by the "government" in the emirate through (MyID) Initiative, without any need to access each service separately by using the user ID and password for each service. (Applying the concept of single sign-on for all services from various entities).



#### 4. Data Provisioning - Reading Public Data from Card

The digital certificates embedded in the ID card contain detailed information about the identity of the ID card holder and the card itself, such as the card number, ID number, name, nationality and other information that can be considered general data. The Validation Gateway verifies the authenticity of the card and reads the information embedded therein then displays the same in the form of easy-to-read codes. This information involves a high value in relation to the speed of data collection required for any transaction, such as verifying the data when completing any government transaction. Through reading the data of the ID card holder in an automated manner through a reliable source, such as the Emirates ID Authority, the possibility of any error to occur is limited. This also contributes to accelerating the process of data collection and filling in any document or application easily. Upon removal of the ID card, all the information disappears from the device used (zero trace).

**Example:** All service providers linked with the Validation Gateway can take advantage of this service, such as “Etisalat” and “DU” which read and manage the users’ data in an automated way within their systems of users’ registration within (My Number My Identity) Initiative.



## 5. Online Certificate Status Protocol (OCSP)

To verify the validity of the digital certificate, i.e. to verify if the card is valid or cancelled, the Validation Gateway connects to the online certificate status protocol (OCSP) to verify the status of the certificate. The OCSP application is a question sent from the application / user to the OCSP responder which in turn verifies the status of the digital certificate and reverts on the same, i.e. to confirm if it is valid or not.

**Example:** This service is used in the correspondence systems operating in the Executive Council of the emirate of Abu Dhabi, where the status of the digital certificates of the registered persons in the correspondence system is verified in a quick and easy way. This service is also used in the electronic voting systems provided by the Authority.



## 6. Digital Signature Validation

This service allows the verification of the documents that have been digitally signed through the Validation Gateway. The applicant is provided with the details of the digital certificates used in the signature and some other technical details, which are represented in an expressive and easy way.



## 7. Timestamp Service -TSS

The timestamp is used to determine the time of the electronic signature, which is necessary to verify the signature properly. When the timestamp is available, the Validation Gateway verifies the authenticity of the signature by verifying if the digital certificates used were valid at the time of signature or no. In case of electronic signature, the Validation Gateway sends a request to the infrastructure of the timestamp to include the timestamp with the signature, to use the same later in order to verify the signature on any document at a specific time.

**Example:** This service is used by Abu Dhabi Systems and Information Center by including the timestamp on the documents to be signed electronically in order to verify later the validity of such documents.



## 8. Digital Signing Service PDF

The completion of services online requires the signature of documents and transactions electronically. The digital certificates embedded in the ID card and the Validation Gateway allow the creation of an encrypted electronic signature. This way, the electronic signature may be added to any electronic document, which ensures that the ID card holder has signed such document in a legal way and such document is protected against tampering. Through the use of the Validation Gateway, the institutions that offer their services online can complete the electronic signature process easily. The Validation Gateway contributes in overcoming any obstacles and in taking the necessary steps to create an electronic signature to be attached to the electronic document, knowing that the use of the same helps institutions promote their work, enhance their security measures and increase their productivity. A timestamp may be added to the electronic signature to ensure verification of the electronic signature on any transaction, which helps determine the time of such signature, ensuring that such signature remains always legal.

**Example:** This service is used by Abu Dhabi Systems and Information Centre within the correspondence system "Tarish" where the documents are signed electronically by using the ID card by the users of the system and the documents sent through the system are protected.



## 9. PKI Authentication Service

This service is considered a service supporting the process of electronic transition in the provision of services in a safe and credible way, as the technical elements in the infrastructure available in the ID card and the infrastructure of the Validation Gateway are used to verify the identity based on multiple verification factors (PIN number + digital certificate). The process is done through the use of the ID card by the user via the Internet or the electronic channel through which the service provider provide the service. Once the user enters the PIN number of the ID card, the Validation Gateway verifies the authenticity of the ID card and PIN number.

**Example:** This service is used by Abu Dhabi Systems and information Center and allows users using the online services to access the website [www.abudhabi.ae](http://www.abudhabi.ae) using the ID Card and PIN number to interact with all the services available of the website by single sign-on.



## 10. Reading Family Book Data

The service allows reading the detailed data related to the family book stored on the electronic chip of the card, which is available only to citizens. This data is protected by your card's PIN number, as the reading process requires entering the PIN number by the user.

**Example:** Abu Dhabi Housing Authority takes advantage of this service, reads the data of the ID, review the data and provides services to customers.

