

Overview

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Subscriber/Publisher

Subscriber Publisher Request Response

- 1. A **subscriber** is an agency requiring information from another government institution.
- 2. A **subscriber** request information based on a set of search criteria.
- 3. The **subscriber** can obtain the requested information using:
 - I. The InfoHighway Portal
 - II. Web service directly from it's internal application
 - III. Extraction service in .txt format deposited on SFTP
 - IV. InfoSync, transfer of data by specific to the Subscriber

- 1. A **publisher**, publishers specific set of data to the subscriber.
- 2. Currently the **publisher** is required to be on GINS to be able to share data.
- 3. The publisher provides read only data to the subscriber.
- 4. The data is available at run-time.
- 5. Only data agreed between the two parties is allowed to be shared.

Subscriber request information from **CPD** (publisher). It will in turn return individual details to Subscriber.

Search by NID

Details of Citizen



InfoHighway Connectivity





Insert search field to access publisher data.







Web service made available by InfoHighway.

Web service accessed by local application.

Search done directly from subscriber application.

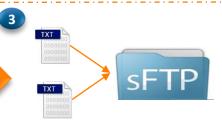
InfoHighway Connectivity



Extract scheduled based on specific criteria.



Data extracted in .txt format at schedule intervals to be shared.



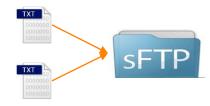
Extracted data deposited on Subscriber SFTP folder.



Compare list of records from Publisher & Subscriber, to send only relevant data for the subscriber.



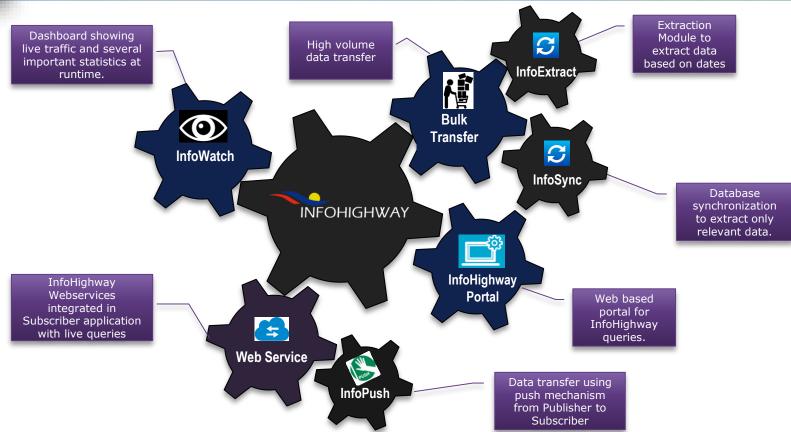
Subscriber specific data extracted in .txt format at schedule intervals to be shared.



Extracted data deposited on Subscriber SFTP folder.



InfoHighway Modules





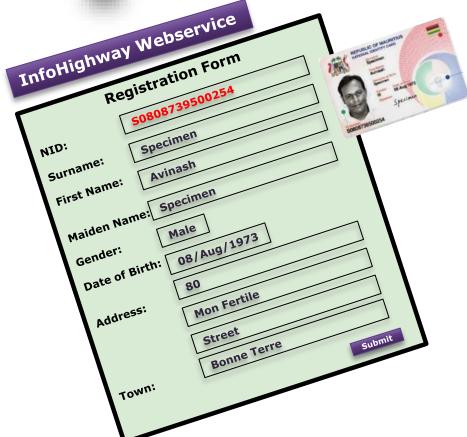
Webservice Integration

Manual Data Entry

- 1. Several documents required.
- 2. Information are inputted manually in the system.
- 3. Risk of errors very high.
- 4. The process is time consuming.



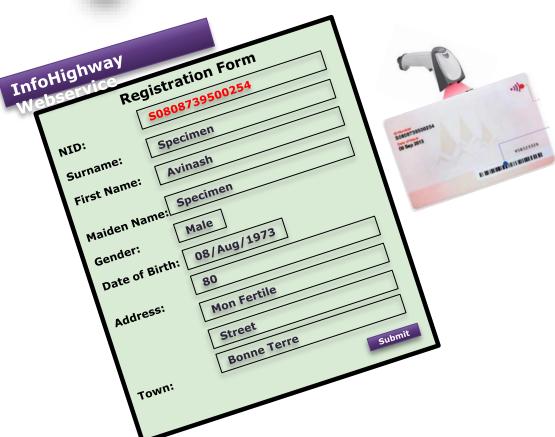
Webservice Integration



Insert NJD Only

- No need to capture citizen details, only NID is needed.
- 2. Information retrieved at runtime from CPD via InfoHighway.
- 3. Saves time and risk of errors minimized.





Using Barcode Reader1

- 1. No manual input needed.
- 2. Citizen NID captured using Bar Code reader
- 3. Remaining information retrieved at run-time from Civil Status Division.
- 4. Saves time and risk of errors minimized/eliminated.





Security Layers

Dashboard Monitoring

IP Filtering –
Government Intranet
IP Filtering –
InfoHighway Network
Dedicated SSL Certificate

Government Intranet Network

- · Multi-layers security enforced
- Approval resides at several independent bodies
- Publisher has full control of their database and can stop connection at any point in time
- Whole setup on the GINS network
- None of the IH servers are available on the internet
- External connections done and secured by VPN
- Constant monitoring performed using InfoHighway Dashboard

IH Infrastructure hosted at Government Data Centre



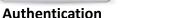




(Internet)

Security

VPN





Virtual Private Network

INFOHIGHWAY WSIS PRIZES PRIZES CHAMPION Long Arts Inc.

How to join InfoHighway



- Publisher and Subscriber meet up
- Agree on data to be shared
- Sign the Application Form



- Subscriber required to fill requirements document
- InfoHighway request information from publisher



- Configure local machine/servers
- Consume web service in internal application



- MTCI review requests
- Request considered during High Level
 Management Meeting



- Obtain approval for network configuration
- Configure network
- Test connectivity



- Test E-Services/Web Services on local network
- Highlight any bug or issues to InfoHighway Team
- InfoHighway to support as required



- Requests goes to a priority list
- Based on priority requests assigned to InfoHighway Team



- Implement E-Services
- Test E-Services
- Create/share credentials with Subscribers



- 3
- Confirm service working as expected
- Close request

InfoHighway is governed by a number of legislations. The InfoHighway team only acts as a bridge between the Publisher and Subscriber.

- The InfoHighway team has only a read-only access to the Publisher's DB and cannot add, update or delete any information from the Publisher's DB
- Any inconsistencies, in the data need to be reported to the Publisher
- The InfoHighway does not store any data in transit
- The InfoHighway does not transform or modify any data before submitting to Subscriber
- The InfoHighway team can only see the data packet being shared but not the internal information shared
- The InfoHighway team only shares information as per agreement signed between Publishers and Subscribers



- 1. Computer Misuse and Cybercrime Act
- 2. Data Protection Act (Section 28(1)(b))
- 3. Electronic Transactions Act
- 4. Information and Communication Technologies Act
- 5. Civil Status Act (Section 17A(2)(a) and (b))
- 6. Business Registration Act (Sections 9B(1A) and 14(1A)(a) and (b))
- 7. Immigration Act (Section 9D(5)(a) and (b))
- 8. Non-Citizens (Employment Restriction) Act





InfoHighway Monitoring



InfoWatch Dashboard

- Dashboard monitoring of all E-Services.
- Statistics of the number of E-Services available.
- Any service down is highlighted.
- Live feeds with all request and login monitored.
- Top users and any user connected can be seen.
- Abnormal or high number of queries can be seen and tracked upon.



InfoHighway Monitoring

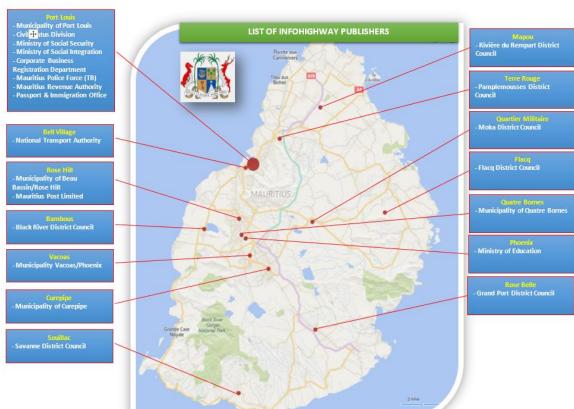


Hardware Monitoring

- All Infohighway servers are monitored.
- Any unusual traffic is highlighted.
- CPU/Memory usage can be observed live.
- Any issues or any machine unreachable is highlighted as a problem on the dashboard.



InfoHighway Publishers

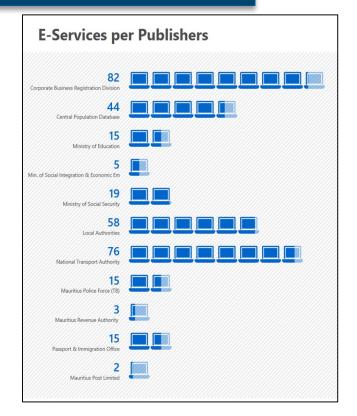




Operational Requests



E-Services per Publisher





Factsheet

