Overview

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Version 1.0

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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 its internal application
   III. Extraction service in .txt format deposited on SFTP
   IV. InfoSync, transfer of data by specific to the Subscriber

**Subscriber** request information from **CPD (publisher)**. It will in turn return individual details to **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.
Web service made available by InfoHighway.

Connect on a Web Browser.

Insert Username/Password.

Web service accessed by local application.

Insert search field to access publisher data.

Search done directly from subscriber application.
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.
Dashboard showing live traffic and several important statistics at runtime.

High volume data transfer

Web based portal for InfoHighway queries.

Data transfer using push mechanism from Publisher to Subscriber

Database synchronization to extract only relevant data.

Extraction Module to extract data based on dates

InfoHighway Portal

Web Service

InfoPush

InfoWatch

InfoHighway Webservices integrated in Subscriber application with live queries

InfoExtract

Bulk Transfer

InfoSync
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.
1. 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.

Insert NID Only

InfoHighway WebService
### Registration Form

<table>
<thead>
<tr>
<th>NID:</th>
<th>S0808739500254</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname:</td>
<td>Specimen</td>
</tr>
<tr>
<td>First Name:</td>
<td>Specimen</td>
</tr>
<tr>
<td>Maiden Name:</td>
<td>Male</td>
</tr>
<tr>
<td>Gender:</td>
<td>Male</td>
</tr>
<tr>
<td>Date of Birth:</td>
<td>08/Aug/1973</td>
</tr>
<tr>
<td>Address:</td>
<td>Mon Fertile</td>
</tr>
<tr>
<td>Town:</td>
<td>Bonne Terre</td>
</tr>
</tbody>
</table>

#### Using Barcode Reader

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.
InfoHighway Principle

Publisher & Subscriber on GINS

Publisher

InfoHighway Monitoring

- IP Address
- Username Password
- SSL certificate

Subscriber

- IP Address
- Username Password
- 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
How to join InfoHighway

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

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

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

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

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

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

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

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

9. 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
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.
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.
Operational Requests Overview

E-Services per Publisher

<table>
<thead>
<tr>
<th>E-Services per Publishers</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate Business Registration Division</td>
<td>82</td>
</tr>
<tr>
<td>Central Population Database</td>
<td>44</td>
</tr>
<tr>
<td>Ministry of Education</td>
<td>15</td>
</tr>
<tr>
<td>Min. of Social Integration &amp; Economic Dev.</td>
<td>5</td>
</tr>
<tr>
<td>Ministry of Social Security</td>
<td>19</td>
</tr>
<tr>
<td>Local Authorities</td>
<td>58</td>
</tr>
<tr>
<td>National Transport Authority</td>
<td>76</td>
</tr>
<tr>
<td>Mauritius Police Force (TBP)</td>
<td>15</td>
</tr>
<tr>
<td>Mauritius Revenue Authority</td>
<td>3</td>
</tr>
<tr>
<td>Passport &amp; Immigration Office</td>
<td>15</td>
</tr>
<tr>
<td>Mauritius Post Limited</td>
<td>2</td>
</tr>
</tbody>
</table>


No. of Connections | No. of E-Services
Queries this month*  
12,480

897 consecutive days of smooth infoHighway experience in Mauritius*

Quotes to date*  
1,000,672

InfoHighway in Mauritius has:

87 Connections between publishers and subscribers
22 Publishing agencies
31 Subscribing agencies

Number of data-sharing e-services that can be used via the infoHighway  
335

5 most popular* queries performed in previous month

9,957 queries of company details by name
7,277 queries of site details searched by DATE_CREATED
3,499 queries of student master details, searched by DATE_CREATED
2,959 queries of class details, searched by DATE_CREATED
2,467 queries of student, class details, searched by DATE_CREATED

Since January 2017 savings while using infoHighway amounts to 1.43 year(s) of working time.

* Assuming that every query saves 15 minutes and 5% of queries submitted via the infoHighway involve communication between people, then use of e-services helped save 12,508.40 working hours from January 2017 to now.
Thank You