







### Information Paper

### APAC Funds Processing Automation and Standardisation Report

Tracking industry progress H1 2019 Report

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Over the past decade, the Asia Pacific region has observed impressive growth in the funds segments. Concurrently, there has been a strong demand to improve the levels of operational efficiency, particularly through the standardisation and automation in the funds processing space.

Recognising these drivers and trends, there has also been a call for greater harmonisation of financial standards and market practices. Along with the mandatory ISO 20022 migration in near foreseeable future, it is important for the industry to be aware and focus on the fund processing standardisation and automation rates across APAC.

The main objective of the APAC Funds Processing Automation and Standardisation report is to provide periodic information on key funds markets in the region of the industry's progress towards increased levels of automation of fund orders and the use of ISO standards. Users of this report include market players involved in funds processing transaction flow, asset managers, regulators & policy makers and other interested stakeholders.

This report covers data for the first half of 2019, collected from transfer agents based in key APAC fund processing centres - Hong Kong, Taiwan and Singapore. The report combines the data across these markets into a single fund processing report providing the following views:

- An aggregated view on these 3 fund processing centres together;
- A detailed overview per fund processing centre (Hong Kong, Singapore and Taiwan separately); and
- A regional perspective of fund processing STP rates per fund processing centre.
- The scope of funds coverage are both domestic & cross border

This inaugural publication of the APAC Fund Processing Automation and Standardisation report was developed with the support of the Asia Funds Automation Consortium (AFAC), the Hong Kong Investment Funds Association (HKIFA), the Association of the Luxembourg Fund Industry (ALFI) and their members. SWIFT and its supporting partners plan to publish two reports per year, which will be available on SWIFT and respective partners' official websites.

For the European region, SWIFT collaborates on a similar effort with the European Fund and Asset Management Association (EFAMA) to publish reports on trends since 2009, in standardisation and automation rates of fund orders received by transfer agents (TAs) in Luxembourg and Ireland. The published bi-yearly reports showing the evolution of standardisation and automation of fund orders are available on both EFAMA and SWIFT official websites.

#### 2. Report Highlights

#### I. Automation and standardisation of fund orders in Hong Kong, Taiwan and Singapore

- Survey coverage: 21 transfer agents<sup>1</sup>
   (TAs) contributed to the survey
  - a. 9 Hong Kong-based TAs
  - b. 7 Taiwan-based TAs
  - c. 5 Singapore-based TAs
- Total automation rate<sup>2</sup> of orders increased to 81.5% in Q2 2019 compared to 75.5% in Q4 2018.
- ISO automation rate<sup>3</sup> reached 36.6% in Q2 2019 compared to 33.2% in Q4 2018.
- Proprietary FTP rate reached 44.9% in Q2 2019 compared to 42.3% in Q4 2018.
- The order volumes processed by the 21 survey contributors reached 3.8 million orders in the first half of 2019.
- The 21 surveyed TAs manually processed 0.7 million orders in H1 2019. Manual process rates decreased to 18.5% in Q2 2019 compared to 24.5% in Q4 2018.

### II. Automation and standardisation of fund orders in Hong Kong

- H1 2019 survey coverage: 9 TAs contributed.
- The total automation rate of orders processed by Hong Kong TAs reached 73.5% in Q2 2019 compared to 63.8% in Q4 2018.
- The ISO automation rate reached 38.9% % in Q2 2019 compared to 27.2% in Q4 2018. The rate of proprietary FTP reached 34.6% in Q2 2019 compared to 36.5% in Q4 2018, and the manual orders decreased to 26.5% in Q2 2019 compared to 36.2% in Q4 2018.

 The order volumes processed by Hong Kong TAs reached 1.8 million during H1 2019.

### III. Automation and standardisation of fund orders in Taiwan

- H1 2019 survey coverage: 7 TAs contributed.
- The total automation rate of orders processed by Taiwan TAs reached 90.8% in Q2 2019 compared to 84.1% in Q4 2018.
- The percentage of automated orders based on ISO messaging standards reached 32.5% in Q2 2019 compared to 42.6% in Q4 2018. The rate of proprietary FTP orders increased to 58.3% in Q2 2019 from 41.5% in Q4 2018. The manual orders decreased to 9.2% in Q2 2019 compared to 15.9% in Q4 2018.
- The order volumes processed by Taiwan TAs remains at 1.8 million in H1 2019.

### IV.Automation and standardisation of fund orders in Singapore

- H1 2019 survey coverage: 5 TAs contributed.
- The total automation rate of orders processed by Singapore TAs decreased to 72% in Q2 2019 compared to 83.8% in Q4 2018.
- The percentage of automated orders based on ISO messaging standards reached 50.3% in Q2 2019 compared to 22.1% during Q4 2018. The rate of proprietary FTP orders decreased to 21.7% in Q2 2019 compared to 61.7% in Q4 2018. The manual orders increased to 28% in Q2 2019 compared to 16.2% in Q4 2018.
- The order volumes processed by Singapore TAs reached 0.2 million in H1 2019.

<sup>1</sup> Two transfer agents could not participate for this mid-year report.

<sup>2</sup> The 'total automation rate' is the sum of the 'ISO automation rate' + the 'proprietary formatted ftp' rate. This is based on combined figures of the surveyed markets.

<sup>3</sup> The 'ISO automation rate' corresponds to the standardisation rate, i.e. the rate of automated orders using an ISO format (ISO 20022 or ISO 150222 'fund template').

# 3. Automation and Standardisation of Fund Orders in Hong Kong, Taiwan and Singapore

#### 3.1 Total order volume evolution

During the first half of 2019, 3.8 million orders have been processed by the 21 survey contributors across Hong Kong, Taiwan and Singapore<sup>44</sup>. This represents an average volume of 0.64 million orders per month.

| (in millions)          | H1 2019 |
|------------------------|---------|
| Total number of orders | 3.8     |
| Monthly average        | 0.64    |

Table 1 - Total order volume H1 2019

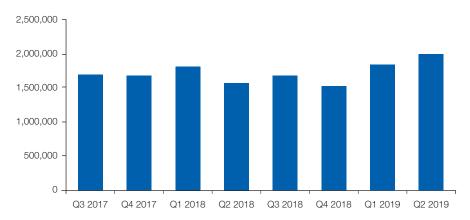


Figure 1 - Total order volume evolution 2017 - 2019

<sup>4</sup> Survey data collected are based on voluntary contributions by participating entities. Estimated market coverage is currently not available in this edition of the report publication.

# 3. Automation and Standardisation of Fund Orders in Hong Kong, Taiwan and Singapore

#### 3.2 Total automation and standardisation rates

#### **Total automation rate**

The total automation rate reached 81.5% in Q2 2019 compared to 75.5% in Q4 2018.

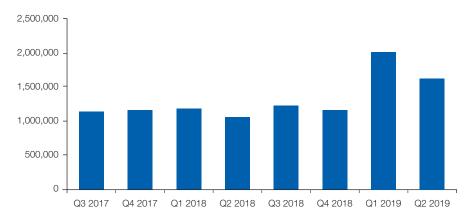


Figure 2 - Total automation order volume evolution 2017 - 2019

#### Total standardisation rate

The use of the ISO messaging standard reached 81.5% in Q2 2019 compared to 75.5% in Q4 208. The adoption of proprietary FTPs reached 44.9% in Q2 2019 compared to 42.3% in Q4 2018, and the share of manual orders reached 18.5% in Q2 2019 compared to 24.5% in Q4 2018.

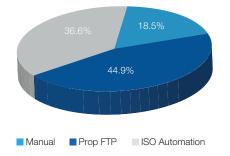


Figure 3 – Total fund order processing rates Q2 2019

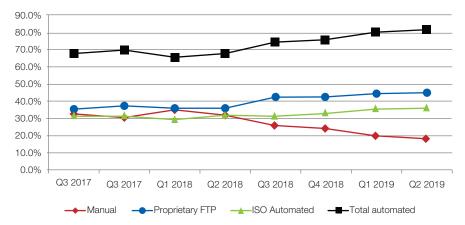


Figure 4 – Total fund order processing volume evolution 2017 - 2019

# 4. Automation and Standardisation of Fund Orders in Hong Kong

# **4.1 Hong Kong order volume evolution** In H1 2019, the 9 Hong Kong survey contributors processed 1.8 million orders. This represented a monthly average of 0.31 million

orders

| (in millions)          | H1 2019 |
|------------------------|---------|
| Total number of orders | 1.8     |
| Monthly average        | 0.31    |

Table 2 - Hong Kong order volume H1 2019

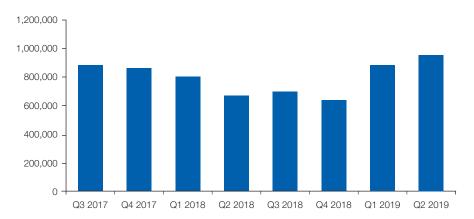


Figure 5 – Hong Kong order volume evolution 2017 - 2019

# 4. Automation and Standardisation of Fund Orders in Hong Kong

#### 4.2 Hong Kong automation and standardisation rates

#### Hong Kong automation rate\_

The total automation rate increased to 73.5% in Q2 2019 compared to 63.8% in Q4 2018.

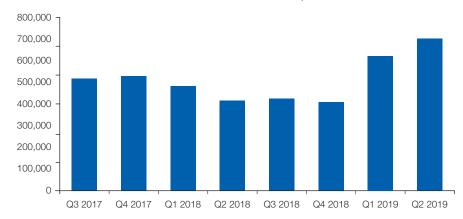


Figure 6 - Hong Kong total automation order volume evolution 2017 - 2019

#### Hong Kong standardisation rate

The use of ISO increased to 38.9% in Q2 2019 compared to 27.3% in Q4 2018, and the adoption of proprietary formats decreased to 34.6% in Q2 2019 compared to 36.5% in Q4 2018. The share of manual orders decreased to 26.5% in Q2 2019 compared to 36.2% in Q4 2018.

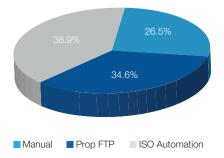


Figure 7 - Hong Kong fund order processing rates Q2 2019

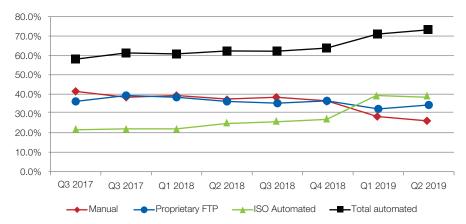


Figure 8 - Hong Kong total fund order processing volume evolution 2017 - 2019

### 5. Automation and Standardisation of Fund Orders in Taiwan

#### 5.1 Taiwan order volume evolution

In H1 2019, the 7 Taiwan survey contributors processed 1.8 million orders. This represented a monthly average of 0.3 million orders.

| (in millions)          | H1 2019 |
|------------------------|---------|
| Total number of orders | 1.8     |
| Monthly average        | 0.3     |

Table 7 - Taiwan order volume 2018

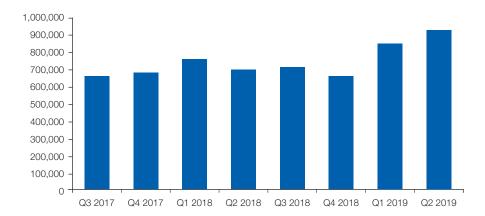


Figure 9 - Taiwan order volume evolution 2017 - 2019

### 5. Automation and Standardisation of Fund Orders in Taiwan

#### 5.2 Taiwan automation and standardisation rates

#### Taiwan automation rate

The total automation rate increased to 90.8% in Q2 2019 compared to 84.1% in Q4 2018<sup>55</sup>.

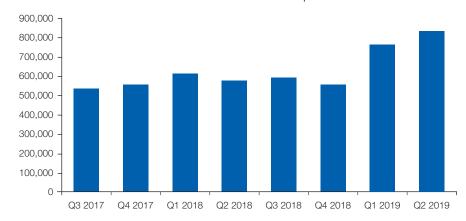


Figure 10 - Taiwan total automation order volume evolution 2017 - 2019

#### Taiwan standardisation rate

The use of ISO reached 32.5% in Q2 2019 compared to 42.6% in Q4 2018, and the adoption of proprietary formats increased to 58.3% in Q2 2019 compared to 41.5% in Q4 2018. The share of manual orders decreased to 9.2% in Q2 2019 compared to 15.9% in Q4 2018.

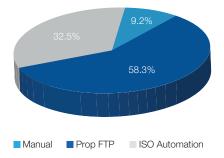


Figure 11 - Taiwan fund order processing rates Q2 2019

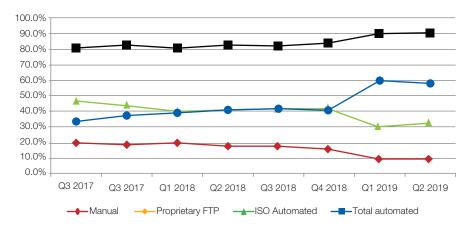


Figure 12 - Taiwan total fund order processing volume evolution 2017 - 2019

<sup>5</sup> The percentage of total automation rate recorded for Taiwan is likely due to the automated funds order service offered by the Taiwan Depository & Clearing Corporation (TDCC).

# **6. Automation and Standardisation of Fund Orders in Singapore**

#### 6.1 Singapore order volume evolution

In H1 2019, the 5 Singapore survey contributors processed 0.22 million orders. This represented a monthly average of 0.036 million orders.

| (in millions)          | H1 2019 |
|------------------------|---------|
| Total number of orders | 0.22    |
| Monthly average        | 0.036   |

Table 4 - Singapore order volume H1 2019

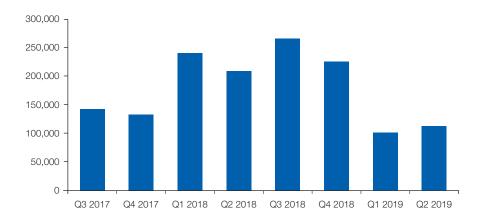


Figure 13 – Singapore order volume evolution 2017 - 2019

# 6. Automation and Standardisation of Fund Orders in Singapore

#### 6.2 Singapore automation and standardisation rates

#### Singapore automation rate

The total automation rate decreased to 72% in Q2 2019 compared to 83.8% in Q4 2018.

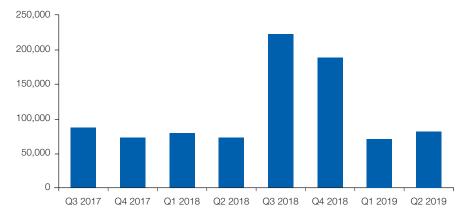


Table 11 - Singapore total automation rate evolution 2017 - 2018 (by quarter)

#### Singapore standardisation rate

The use of ISO reached 50.3% in Q2 2019 compared to 22.1% in Q4 2018, and the adoption of proprietary formats drop to 21.7% in Q2 2019 compared to 61.7% in Q4 2018. The share of manual orders increased to 28% in Q2 2019 compared to 16.2% in Q4 2018.

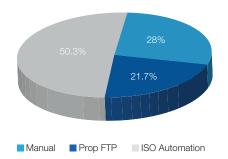


Figure 11 – Singapore fund order processing rates Q4 2018

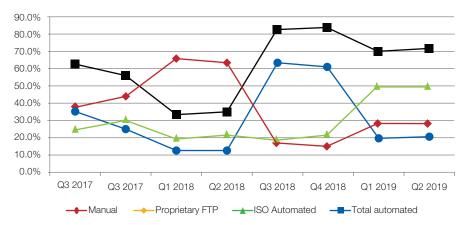


Figure 12 – Singapore total fund order processing volume evolution Q3 2017 - 2018

7. Next report

APAC Funds Processing
Automation and Standardisation Report

The next joint SWIFT APFAS Report is planned for publication in Q2 2020 and will cover the July 2017 – December 2019 progress in standardisation rates across the three funds processing centres, Hong Kong, Taiwan and Singapore.



#### **About SWIFT**

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