

# FACTORS INFLUENCING FREIGHT FORWARDERS IN SELECTION OF AIRLINES

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#### Abstract:

The purpose of the study is to institute the factors influencing the freight forwarders on selection of airlines. The survey was conducted among the freight forwarders of different places. The study was focused to find whether there is any relationship with the profile of freight forwarders and services rendered by them. Through factor analysis four factors were identified such as swiftness, pre-emptiveness, Business tactics and vitality. The factors of services of freight forwarders were tested with the profile of the freight forwarders.

**Key Words:** Freight, Swiftness, Pre-Emptiveness, Tactics & Vitality

#### Introduction:

Indian economy is one of the fastest growing economies in the world and fourth largest in terms of purchasing power parity. In order to maintain this sustainable economic development, country has to improve its transportation and infrastructure sector. Air transportation is indispensable for crossing international and national boundaries and consequently stimulates expansion of trade and economic growth. According to Boeing, India is the largest submarket in Southwest Asia, comprising about 63% of international flows in the region, and it possesses a vibrant domestic market as well. (World air cargo forecast).

Airfreight is an essential mode of transport for many industry sectors, ranging from high end manufacturing, engineering, pharmaceuticals, retailing and the automotive sectors. It can take a month to take goods from Europe to the Far East by ship; it takes a day by air. There are also time-sensitive goods such as medicines and documents which cannot travel any other way. Yet, its importance to the global economy is often overlooked with the focus almost exclusively centered on passenger and business travel. Aviation is a key enabler of global economic growth and social development. (Global shipper's forum 2015). Thus the selection of airlines for the purpose of stuffing the cargo is a paramount importance for a freight forwarder.

#### **Review of Literature:**

According to the study that has been stated by Rieple& Helm (2008); the airline sector can be taken into consideration as segments depending on scope, scale, and type of operation. The concentration in that point is major international, full-service, legacy airlines which are close to comparing within the customer segments.

According to Kilpi and Vepsäläinen (2004) case study; in a perfectly reasonable pooling arrangement the stock levels can be decreased by over 30% by making a minor sacrifice in short time service levels. As seen that inventory level should not be zero to reduce the need emergency transshipments. Furthermore, first-in-first-out (FIFO) can be used as an inventory method in that bases to improve service levels also to reduce to reduce same number of spare components.

# **Objectives of the Study:**

The objective of the study is to find the factors influencing the freight forwarder in selecting a airline for stuffing the cargo.

### **Need for the Study:**

The present day business is mounting in terms of air cargo. The freight forwarder and clearing house agents are striving hard to achieve the business volume to a greater extent. For the purpose the freight forwarders coordinate with various airlines to book the cargo space and to avail value added services too. The present study aims at analyzing the opinion of the freight forwarders, in terms of selection of airport and the factors influencing them in selection.

### Methodology:

Research methodology is an approach to receive the needed information by discovering the data from various sources which may be primary and secondary. The adopted methodology is primary data collection **Sampling Size:** 

The Questionnaire was distributed to 400 freight forwarders all over Tamilnadu and only 329 returned which were valid and the remaining 71 were rejected.

#### **Data analysis and Interpretation:**

Table 1: Profile of the Freight forwarders

| Profile of the freight forwarders | Frequency | Percent |
|-----------------------------------|-----------|---------|
| Name of the air                   | port      |         |

| Chennai International Airport        | 79                             | 24.0 |  |  |  |  |  |
|--------------------------------------|--------------------------------|------|--|--|--|--|--|
| Coimbatore International Airport     | 83                             | 25.2 |  |  |  |  |  |
| Madurai Airport                      | 87                             | 26.4 |  |  |  |  |  |
| Tiruchirapalli International airport | 80                             | 24.3 |  |  |  |  |  |
| Nature of the fi                     | irm                            |      |  |  |  |  |  |
| National level private company       | 156                            | 47.4 |  |  |  |  |  |
| Multinational company                | 173                            | 52.6 |  |  |  |  |  |
| Number of years of fu                | Number of years of functioning |      |  |  |  |  |  |
| Less than 5 years                    | 77                             | 23.4 |  |  |  |  |  |
| 5-10 years                           | 83                             | 25.2 |  |  |  |  |  |
| 10-15 years                          | 85                             | 25.8 |  |  |  |  |  |
| 15 years and above                   | 84                             | 25.5 |  |  |  |  |  |
| Agent of multiple a                  | airlines                       |      |  |  |  |  |  |
| yes                                  | 187                            | 56.8 |  |  |  |  |  |
| No                                   | 142                            | 43.2 |  |  |  |  |  |
| Involvement                          | t                              |      |  |  |  |  |  |
| Export only                          | 129                            | 39.2 |  |  |  |  |  |
| Import only                          | 130                            | 39.5 |  |  |  |  |  |
| Both                                 | 70                             | 21.3 |  |  |  |  |  |

From the above table, it was understood that 26.4 percent of the respondents choose Madurai airport, 25.2 percent of the respondents choose Coimbatore International airport, 24.3 percent of them choose Tiruchirapalli airport and 24.0 percent of the respondents choose Chennai International airport. When considering the Nature of the firm, 52.6 percent of the respondents have multinational company and 47.4 percent of the respondents have National level private company. When taking into account the number of years of functioning, 25.8 percent of the respondents service were for the past 10-15 years, 25.5 percent of the respondents service were for the past 5-10 years and 23.4 percent of the respondents service were for less than 5 years only. When considering the operations of agent for airlines in airport, 56.8 percent of them operate as agent for all airlines in the airport and 43.2 percent of them do not operate as agent for all airlines in the airport. When considering the involvement in service, 39.5 percent of them only import, 39.2 percent of them export only and 21.3 percent of them do both import and export.

# Factor Analysis of Factors Influencing Freight Forwarders in Selection of Airlines: Reliability Statistics:

Cronbach's alpha test of reliability is performed, and only those items are selected which have a Cronbach's alpha of at least 0.717 or more (Table 1).

Table 2: Reliability Statistics (Cronbach's Alpha)

| Construct        | Items | Cronbach's alpha | Overall Cronbach's Alpha |
|------------------|-------|------------------|--------------------------|
| Swiftness        | 4     | 0.798            |                          |
| Pre-emptiveness  | 4     | 0.749            |                          |
| Business Tactics | 2     | 0.717            | 0.798                    |
| Vitality         | 3     | 0.720            |                          |

To determine the underlying structure, the correlation matrix was initially examined to determine how appropriate it was for factor analysis. Factor analysis was performed with thirteen statements related to services of freight forwarders. The Kaiser-Meyer-Olkin (KMO) value for the collected data was 0.752 which was higher than the recommended minimum of 0.6 (Kaiser, 1974), indicating that the sample size was adequate for applying factor analysis, and significant Bartlett's test of sphericity supported the use of factor analysis to extract independent variables associated with supplier selection. The degree of common variance among the 13 variables is mediocre which reflects that if a factor analysis is concluded, the factors extracted will account for fair amount of variance but not a substantial amount.

Table 3: KMO and Bartlett's Test

| Kaiser-Meyer-Olkin Measure    | Kaiser-Meyer-Olkin Measure of Sampling Adequacy. |          |  |  |
|-------------------------------|--|----------|--|--|
|                               | Approx. Chi-Square                               | 1532.826 |  |  |
| Bartlett's Test of Sphericity | df   | 78       |  |  |
| 1                             | Sig.   | .000     |  |  |

Table 4: Communalities

|    | Short Description of Variables | Initial | Extraction |
|----|--------------------------------|---------|------------|
| S1 | Reputation of reliable service | 1.000   | .775       |
| S2 | On time delivery               | 1.000   | .730       |
| S3 | Safety & security for Cargo    | 1.000   | .572       |

| S4         | Tracking system for shipment                                | 1.000 | .596 |  |  |  |  |
|------------|---|-------|------|--|--|--|--|
| S5         | Service attitude of clearance staff                         | 1.000 | .752 |  |  |  |  |
| S6         | Responsiveness of clearing staff towards emerging situation | 1.000 | .730 |  |  |  |  |
| S7         | Air craft maintenance                                       | 1.000 | .699 |  |  |  |  |
| S8         | Damage claim service  | 1.000 | .728 |  |  |  |  |
| <b>S</b> 9 | Reasonable freight and frequency                            | 1.000 | .693 |  |  |  |  |
| S10        | On time availability  | 1.000 | .601 |  |  |  |  |
| S11        | Clear indication of container allotment                     | 1.000 | .633 |  |  |  |  |
| S12        | Clear indication of marked and directed to destination      | 1.000 | .709 |  |  |  |  |
| S13        | Global presence   | 1.000 | .527 |  |  |  |  |
|            | Extraction Method: Principal Component Analysis.            |       |      |  |  |  |  |

Based on the output of above table, all the variables have the communalities of more than 0.5. This means that all the variables have significant portion of the variance that contributes to the common factors. As the communality is the sum of squares of the loadings of the variables and all the variables are contributing significantly, all are included for the analysis of the final data.

To support the result, an exploratory principal component analysis was done using SPSS. Varimax rotation was used to identify the underlying factors for services of freight forwarders. Items with Eigen values greater than one were extracted and all the factor loadings greater than 0.5 were retained. 13 items yielded four factors explaining 67.287% of variance were shown in the below table.

Table 5: Total Variance Explained

|           | In               | Initial Eigenvalues |                 |             | on Sums of       | f Squared       | Rotation Sums of Squared |                  |                 |
|-----------|------------------|---------------------|-----------------|-------------|------------------|-----------------|--------------------------|------------------|-----------------|
| ant       | minu Ligenvalues |                     |                 |             | Loadings         |                 |                          | Loadings         |                 |
| Component | Total            | % of<br>Variance    | Cumulative<br>% | Total       | % of<br>Variance | Cumulative<br>% | Total                    | % of<br>Variance | Cumulative<br>% |
| 1         | 3.897            | 29.978              | 29.978          | 3.897       | 29.978           | 29.978          | 2.527                    | 19.439           | 19.439          |
| 2         | 2.278            | 17.526              | 47.504          | 2.278       | 17.526           | 47.504          | 2.320                    | 17.847           | 37.286          |
| 3         | 1.440            | 11.075              | 58.579          | 1.440       | 11.075           | 58.579          | 1.976                    | 15.196           | 52.482          |
| 4         | 1.132            | 8.708               | 67.287          | 1.132       | 8.708            | 67.287          | 1.925                    | 14.805           | 67.287          |
| 5         | .857             | 6.594               | 73.882          |             |                  |                 |                          |                  |                 |
| 6         | .717             | 5.514               | 79.396          |             |                  |                 |                          |                  |                 |
| 7         | .542             | 4.169               | 83.565          |             |                  |                 |                          |                  |                 |
| 8         | .473             | 3.642               | 87.207          |             |                  |                 |                          |                  |                 |
| 9         | .405             | 3.116               | 90.323          |             |                  |                 |                          |                  |                 |
| 10        | .381             | 2.930               | 93.253          |             |                  |                 |                          |                  |                 |
| 11        | .332             | 2.555               | 95.808          |             |                  |                 |                          |                  |                 |
| 12        | .284             | 2.183               | 97.991          |             |                  |                 |                          |                  |                 |
| 13        | .261             | 2.009               | 100.000         |             |                  |                 |                          |                  |                 |
|           |                  | E                   | Extraction M    | lethod: Pri | incipal Cor      | nponent An      | alysis.                  |                  |                 |

Table 6: Rotated Component Matrix<sup>a</sup>

|     | Short Description of Variables                              |       | Com   | ponent |       | T abalad as      |
|-----|---|-------|-------|--------|-------|------------------|
|     | Short Description of Variables                              | 1     | 2     | 3      | 4     | Labeled as       |
| S5  | Service attitude of clearance staff                         | 0.854 |       |        |       |                  |
| S6  | Responsiveness of clearing staff towards emerging situation | 0.788 |       |        |       | Swiftness        |
| S4  | S4 Tracking system for shipment                             |       |       |        |       | -                |
| S7  | Air craft maintenance                                       | 0.617 |       |        |       |                  |
| S12 | Clear indication of marked and                              |       | 0.829 |        |       |                  |
| 312 | directed to destination                                     |       | 0.829 |        |       |                  |
| S11 | Clear indication of container allotment                     |       | 0.773 |        |       | Pre-emptiveness  |
| S13 | Global presence   |       | 0.694 |        |       |                  |
| S10 | On time availability  |       | 0.662 |        |       |                  |
| S8  | Damage claim service  |       |       | 0.815  |       | D                |
| S9  | Reasonable freight and frequency                            |       |       | 0.781  |       | Business Tactics |
| S1  | Reputation of reliable service                              |       |       |        | 0.819 | Vitalita         |
| S2  | On time delivery  |       |       |        | 0.790 | Vitality         |

| S3            | Safety & security for Cargo |        |        |        | 0.642  |                                   |
|---------------|-----------------------------|--------|--------|--------|--------|-----------------------------------|
|               | Eigen values                | 3.897  | 2.278  | 1.440  | 1.132  | D-4-4' C 6                        |
| % of Variance |                             | 19.439 | 17.847 | 15.196 | 14.805 | Rotation Sums of squared Loadings |
|               | Cumulative %                |        | 37.286 | 52.482 | 67.287 | squarea Loadings                  |

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.a. Rotation converged in 7 iterations.

All the variables extracted under group 1 are related to fastness accompanying the services of freight forwarders. Therefore, factor 1 is named as 'Swiftness'. The variables extracted under factor 2 are related to strength, hence it is named as 'Pre-emptiveness'. The third factor is named as 'Business tactics' and fourth factor as 'Vitality'. The factors thus extracted were tested for reliability. The factor swiftness scored 0.798, Pre-emptiveness scored 0.749, Business tactics scored0.717 and Vitality scored 0.720. All the factors were found to be reliable.

## **Factors Influencing Freight Forwarders in Selection of Airlines:**

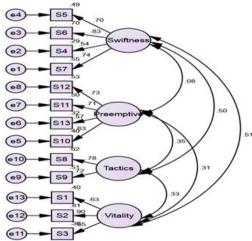


Figure 1: CFA of factors influencing freight forwarders in selection of airlines

## **Assessing Overall Measurement Model Fitness:**

The results shown in the below table provide a quick overview of the model fit, which includes the value (346.566), together with its degrees of freedom (59) and probability value (0.000). In the table NPAR stands for Number of Parameters, and CMIN ( $\chi^2$ ) is the minimum discrepancy and represents the discrepancy between the unrestricted sample covariance matrix S and the restricted covariance matrix. Df stands for degrees of freedom and P is the probability value.

Table 7: AMOS output showing Model Fit

| Model              | NPAR | $\chi^2$ | DF | P     | CMIN/DF |
|--------------------|------|----------|----|-------|---------|
| Default Model      | 32   | 346.566  | 59 | 0.000 | 5.874   |
| Saturated Model    | 91   | .000     | 0  |       |         |
| Independence Model | 13   | 1557.358 | 78 | 0.000 | 19.966  |

In SEM a relatively small chi-square value supports the proposed theoretical model being tested. In this model the  $\chi^2$  value is 346.566 and is small compared to the value of the independence model (1557.358). Hence the  $\chi^2$  value is good.

Although the  $\chi^2$  seems good, it is also appropriate to check the value of  $\chi^2$  divided by df (Wheaton, Muthen, Alwin and Summers, 1977) as the  $\chi^2$  statistic is particularly sensitive to sample sizes (that is, the probability of model rejection increases with increasing sample size, even if the model is minimally false), and hence chi-square ( $\chi^2$ ) divided by degrees of freedom is suggested as a better fit metric (Bentler and Bonnett, 1980). It is recommended that this metric not exceed five for models with good fit (Bentler, 1989). For the current CFA model, as shown in the above table,  $\chi^2$ /df was 2.849 ( $\chi^2$ = 346.566; df = 59), suggesting acceptable model fit.

The other different common model-fit measures used to assess the models overall goodness of fit are Goodness of Fit Index (GFI) obtained is 0.854, AGFI is 0.774, NFI, RFI, CFI, TLI are 0.777, 0.706, 0.806 and 0.743 respectively. RMSEA is 0.122 and RMR is 0.139. The Confirmatory factor analysis showed an acceptable overall model fit and hence, the theorized model fit well with the observed data.

The factors of 'factors influencing freight forwarders in selection of airlines' are tested with profile of freight forwarders through ANOVA.

H0: There is no significant difference in Swiftness factor and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement.

|                   | one omproyed, and m | ANOVA             |     |                |       |       |        |
|-------------------|---------------------|-------------------|-----|----------------|-------|-------|--------|
| Source            | of variance         | Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  | Result |
| A import          | Between Groups      | 23.912            | 16  | 1.494          | 1.239 | .236  | NS     |
| Airport preferred | Within Groups       | 376.301           | 312 | 1.206          |       |       |        |
| preferred         | Total               | 400.213           | 328 |                |       |       |        |
| Noture of the     | Between Groups      | 3.267             | 16  | .204           | .809  | .676  | NS     |
| Nature of the     | Within Groups       | 78.763            | 312 | .252           |       |       |        |
| firm              | Total               | 82.030            | 328 |                |       |       |        |
| Number of         | Between Groups      | 17.408            | 16  | 1.088          | .878  | .595  | NS     |
| years of          | Within Groups       | 386.440           | 312 | 1.239          |       |       |        |
| functioning       | Total               | 403.848           | 328 |                |       |       |        |
| Agent of          | Between Groups      | 2.492             | 16  | .156           | .621  | .867  | NS     |
| multiple          | Within Groups       | 78.220            | 312 | .251           |       |       |        |
| airlines          | Total               | 80.711            | 328 |                |       |       |        |
|                   | Between Groups      | 16.785            | 16  | 1.049          | 1.907 | .019* | S      |
| Involvement       | Within Groups       | 171.635           | 312 | .550           |       |       |        |
|                   | Total               | 188.419           | 328 |                |       |       |        |

<sup>\*</sup>Significant at 0.05 level NS – Not Significant

From the table it can be concluded that there is no significant difference in Swiftness factor among and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvementas the p value is greater than 0.05 but the swiftness factor is significant with the 'involvement' profile as the p value is less than 0.05.

H0: There is no significant difference in Pre-emptiveness factor and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement

|                            |                    | ANOVA   |     |                |       |       |        |
|----------------------------|--------------------|---------|-----|----------------|-------|-------|--------|
| Source                     | Source of variance |         | df  | Mean<br>Square | F     | Sig.  | Result |
| Name of the                | Between Groups     | 29.540  | 16  | 1.846          | 1.554 | .080  | NS     |
| Name of the                | Within Groups      | 370.672 | 312 | 1.188          |       |       |        |
| airport                    | Total              | 400.213 | 328 |                |       |       |        |
| Noture of the              | Between Groups     | 3.828   | 16  | .239           | .954  | .507  | NS     |
| Nature of the              | Within Groups      | 78.203  | 312 | .251           |       |       |        |
| firm                       | Total              | 82.030  | 328 |                |       |       |        |
| Number of                  | Between Groups     | 10.290  | 16  | .643           | .510  | .942  | NS     |
| years of                   | Within Groups      | 393.558 | 312 | 1.261          |       |       |        |
| functioning                | Total              | 403.848 | 328 |                |       |       |        |
| A sout of                  | Between Groups     | 2.477   | 16  | .155           | .617  | .870  | NS     |
| Agent of multiple airlines | Within Groups      | 78.234  | 312 | .251           |       |       |        |
| multiple airlines          | Total              | 80.711  | 328 |                |       |       |        |
|                            | Between Groups     | 18.112  | 16  | 1.132          | 2.074 | .009* | S      |
| Involvement                | Within Groups      | 170.307 | 312 | .546           |       |       |        |
|                            | Total              | 188.419 | 328 |                |       |       |        |

<sup>\*</sup>Significant at 0.05 level NS – Not Significant

From the table it can be concluded that there is no significant difference in pre-emptiveness factor and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement as the p value is greater than 0.05 but the Pre-emptiveness factor is significant with the 'involvement' profile as the p value is less than 0.05.

H0: There is no significant difference in Business tactics factor and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement

| ANOVA               |                |                   |     |                |      |      |        |
|---------------------|----------------|-------------------|-----|----------------|------|------|--------|
| Sources of Variance |                | Sum of<br>Squares | df  | Mean<br>Square | F    | Sig. | Result |
| Name of the airport | Between Groups | 5.257             | 8   | .657           | .532 | .832 | NS     |
|                     | Within Groups  | 394.956           | 320 | 1.234          |      |      |        |
|                     | Total          | 400.213           | 328 |                |      |      |        |

| Nature of the firm             | Between Groups | 2.380   | 8   | .298  | 1.195 | .301  | NS |
|--------------------------------|----------------|---------|-----|-------|-------|-------|----|
|                                | Within Groups  | 79.650  | 320 | .249  |       |       |    |
|                                | Total          | 82.030  | 328 |       |       |       |    |
| Number of years of functioning | Between Groups | 3.151   | 8   | .394  | .315  | .960  | NS |
|                                | Within Groups  | 400.697 | 320 | 1.252 |       |       |    |
|                                | Total          | 403.848 | 328 |       |       |       |    |
| Agent of multiple airlines     | Between Groups | 2.426   | 8   | .303  | 1.240 | .275  | NS |
|                                | Within Groups  | 78.285  | 320 | .245  |       |       |    |
|                                | Total          | 80.711  | 328 |       |       |       |    |
| Involvement                    | Between Groups | 12.649  | 8   | 1.581 | 2.879 | .004* | S  |
|                                | Within Groups  | 175.770 | 320 | .549  |       |       |    |
|                                | Total          | 188.419 | 328 |       |       |       |    |

<sup>\*</sup>Significant at 0.05 level NS – Not Significant

From the table it can be concluded that there is no significant difference in Business tactics factor and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvementas the p value is greater than 0.05 but the Business tactics factor is significant with the 'involvement' profile as the p value is less than 0.05.

H0: There is no significant difference in Vitality factor among and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement.

| ANOVA                      |                |                   |     |                |       |       |        |
|----------------------------|----------------|-------------------|-----|----------------|-------|-------|--------|
| Sources of Variance        |                | Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  | Result |
| Name of the airport        | Between Groups | 9.205             | 12  | .767           | .620  | .825  | NS     |
|                            | Within Groups  | 391.008           | 316 | 1.237          |       |       |        |
|                            | Total          | 400.213           | 328 |                |       |       |        |
| Nature of the firm         | Between Groups | 3.216             | 12  | .268           | 1.074 | .381  | NS     |
|                            | Within Groups  | 78.815            | 316 | .249           |       |       |        |
|                            | Total          | 82.030            | 328 |                |       |       |        |
| Number of                  | Between Groups | 13.747            | 12  | 1.146          | .928  | .519  | NS     |
| years of                   | Within Groups  | 390.101           | 316 | 1.234          |       |       |        |
| functioning                | Total          | 403.848           | 328 |                |       |       |        |
| Agent of multiple airlines | Between Groups | 3.809             | 12  | .317           | 1.304 | .215  | NS     |
|                            | Within Groups  | 76.903            | 316 | .243           |       |       |        |
|                            | Total          | 80.711            | 328 |                |       |       |        |
| Involvement                | Between Groups | 17.653            | 12  | 1.471          | 2.722 | .002* | S      |
|                            | Within Groups  | 170.766           | 316 | .540           |       |       |        |
|                            | Total          | 188.419           | 328 |                |       |       |        |

<sup>\*</sup>Significant at 0.05 level NS – Not Significant

From the table it can be concluded that there is no significant difference in Vitality factor among and the airport preferred, nature of the firm, years of experience, type of agent employed, and Involvement as the p value is greater than 0.05 but the Vitality factor is significant with the 'involvement' profile as the p value is less than 0.05.

From the ANOVA it is concluded that there is significant difference of factors influencing freight forwarders in selection of airlines with involvement only as other profile factors are not statistically significant.

#### **Conclusion:**

The freight forwarder is so particular while selecting airline, the air line should provide various services which are affirmative for the shipment of the cargo. The services dimensions should include Swiftness, Pre-emptiveness, Business Tactics, Business Tactics and Vitality.

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