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| <h2>Integration with Six Works Fulfilment Service for Automated Order Transfer</h2>                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                             |  |  |
| <p><i>This document should assist developers to understand and make us of the API offered by Six for the transfer of orders into the fulfilment system. The intended audience should have a basic understanding of REST APIs as detailed here:</i></p>                                             |                                                                                                                                                                                                                                                                             |  |  |
| <p><a href="http://en.wikipedia.org/wiki/Representational_State_Transfer#RESTful_web_services">http://en.wikipedia.org/wiki/Representational_State_Transfer#RESTful_web_services</a></p>                                                                                                           |                                                                                                                                                                                                                                                                             |  |  |
| <p><b>Six provides each client with a secure web service which is available 24/7 for the receipt of order information. The service is called from the client's server by means of an HTTP POST request, the body of this request should be the details for a single order to be fulfilled.</b></p> |                                                                                                                                                                                                                                                                             |  |  |
| <p>The format for this request is a JSON array [<a href="http://www.json.org/">http://www.json.org/</a>], a lightweight, readable and flexible alternative to XML. Data to be provided with this request is specified in the following sheet along with example data.</p>                          |                                                                                                                                                                                                                                                                             |  |  |
| <p>The service responds with a JSON payload of its own, confirming the successful transfer or identifying the reasons for a failed transfer</p>                                                                                                                                                    |                                                                                                                                                                                                                                                                             |  |  |
| <b>Authentication</b>                                                                                                                                                                                                                                                                              | Part of the JSON request is a unique API key which identifies the client submitting the request                                                                                                                                                                             |  |  |
| <b>Test Harness</b>                                                                                                                                                                                                                                                                                | Test requests can be placed on the live API through the use of the 'test' flag, providing real error responses for debugging without the need for sandboxing. The test flag must be explicitly set to false before an order can be placed.                                  |  |  |
| <b>Optional Flags</b>                                                                                                                                                                                                                                                                              | A number of option flags can be submitted along with the standard request. For example, these can be used to ensure an order is accepted even if there is insufficient stock to fulfil it immediately ('allow_preorder'), or to request the return of updated stock levels. |  |  |
| <p>Questions? Comments? Concerns? email <a href="mailto:tech@sixworks.co.uk">tech@sixworks.co.uk</a></p>                                                                                                                                                                                           |                                                                                                                                                                                                                                                                             |  |  |

| Six API Spec                          |    |                                                                                                                                                     |                            |                 |                                  |
|---------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|----------------------------------|
| url format                            |    | http://[client].sixworks.co.uk/api/1/                                                                                                               |                            |                 |                                  |
| fieldname                             | re | description                                                                                                                                         | value                      | default         | example                          |
| api_key                               |    | Client's API key, provided by Six                                                                                                                   | string(32)                 |                 | 3cac28674ca5c525af980b3cd92e9245 |
| test                                  |    | Test identifier, must equal false for order to be processed by Six                                                                                  | boolean                    | 1               | 0                                |
| allow_preorder                        |    | If true, permits acceptance of orders which contain lines currently out of stock. Disables Out-Of-Stock feedback in API response                    | boolean                    | 0               | 1                                |
| update_stock                          |    | If true, requests a response containing stock values for those lines which have changed since the last API order placed                             | boolean                    | 0               | 1                                |
| order[client_ref]                     |    | Your reference for this order                                                                                                                       | string(32), unique         |                 | 1234                             |
| order[po_number]                      |    | Your customer's purchase order number                                                                                                               | string(32)                 |                 | PO12345                          |
| order[date_placed]                    |    | Date the order was placed, perhaps when payment was taken or when purchase was approved                                                             | ISO 8601 date, GMT (+0:00) | [now]           | 12/30/2010 23:59:59              |
| order[postage_speed]                  |    | The speed of postage; where 1 is priority, 2 is standard, 3 is economy (absolute cheapest, slow) and 0 is urgent (absolute fastest, very expensive) | integer                    | 2               | 2                                |
| order[signed_for]                     |    | If true, the order will be despatched by a postage method which requires a signature at the point of delivery                                       | boolean                    | 0               | 1                                |
| order[postage_cost]                   |    | The price charged to the end customer for postage (& packing, where applicable)                                                                     | float                      |                 | 3.95                             |
| order[ShippingContact][name]          |    | Full name, as to appear on despatch label                                                                                                           | string(64)                 |                 | David Test                       |
| order[ShippingContact][company]       |    | Company name, as to appear on despatch label                                                                                                        | string(64)                 |                 | Demo Ltd                         |
| order[ShippingContact][email]         |    | email address                                                                                                                                       | string(64)                 |                 | david@demo.co.uk                 |
| order[ShippingContact][phone]         |    | phone number, required by some couriers                                                                                                             | string(32)                 |                 | 01234 567 890                    |
| order[ShippingContact][address]       |    | House number/name and street                                                                                                                        | string(32)                 |                 | 1 Road Street                    |
| order[ShippingContact][address_contd] |    | optional second address line                                                                                                                        | string(32)                 |                 | off Avenue Lane                  |
| order[ShippingContact][city]          |    | City                                                                                                                                                | string(32)                 |                 | Teston                           |
| order[ShippingContact][county]        |    | County/State/Province/Region                                                                                                                        | string(32)                 |                 | Exampleshire                     |
| order[ShippingContact][country]       |    | Country                                                                                                                                             | string(32)                 |                 | United Kingdom                   |
| order[ShippingContact][postcode]      |    | Postal Code/ZIP                                                                                                                                     | string(16)                 |                 | EG1 2EG                          |
| order[ShippingContact][dear]          |    | Salutation name, to be used in correspondence                                                                                                       | string(32)                 | [name] as above | Dave                             |
| order[BillingContact][name]           |    | Full name, as to appear on despatch label                                                                                                           | string(64)                 |                 | Vera Test                        |
| order[ShippingContact][company]       |    | Company name, as to appear on despatch label                                                                                                        | string(64)                 |                 |                                  |
| order[BillingContact][email]          |    | email address                                                                                                                                       | string(64)                 |                 | vera@home.com                    |

|                                      |                                                                                                                                                                       |                                                          |                              |                                                                                                                               |  |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| order[BillingContact][phone]         | phone number, required by some couriers                                                                                                                               | string(32)                                               |                              | 01234 567 890                                                                                                                 |  |
| order[BillingContact][address]       | House number/name and street                                                                                                                                          | string(32)                                               |                              | 1 Road Street                                                                                                                 |  |
| order[BillingContact][address_contd] | optional second address line                                                                                                                                          | string(32)                                               |                              | off Avenue Lane                                                                                                               |  |
| order[BillingContact][city]          | City                                                                                                                                                                  | string(32)                                               |                              | Teston                                                                                                                        |  |
| order[BillingContact][county]        | County/State/Province/Region                                                                                                                                          | string(32)                                               |                              | Exampleshire                                                                                                                  |  |
| order[BillingContact][country]       | Country                                                                                                                                                               | string(32)                                               |                              | United Kingdom                                                                                                                |  |
| order[BillingContact][postcode]      | Postal Code/ZIP                                                                                                                                                       | string(16)                                               |                              | EG1 2EG                                                                                                                       |  |
| order[ShippingContact][dear]         | Salutation name, to be used in correspondence                                                                                                                         | string(32)                                               | [name] as above              | Veronica                                                                                                                      |  |
| order[items][0][client_ref]          | Your reference for this product line                                                                                                                                  | string(32)                                               |                              | SKU-0001                                                                                                                      |  |
| order[items][0][quantity]            | The number of this item to be despatched in this order                                                                                                                | integer                                                  |                              | 3                                                                                                                             |  |
| order[items][0][price]               | The price, per unit, for which these items were sold                                                                                                                  | float                                                    |                              | 10.99                                                                                                                         |  |
| order[items][1][client_ref]          | Your reference for this product line                                                                                                                                  | string(32)                                               |                              | SKU-0002                                                                                                                      |  |
| order[items][1][quantity]            | The number of this item to be despatched in this order                                                                                                                | integer                                                  |                              | 1                                                                                                                             |  |
| order[items][1][price]               | The price, per unit, for which these items were sold, after any line discount                                                                                         | float                                                    |                              | 4.5                                                                                                                           |  |
| order[total_amount]                  | The total order value, excluding postage, after all discounts are applied                                                                                             | float                                                    | [the sum of the line totals] | 52.3                                                                                                                          |  |
| <b>Response Format</b>               |                                                                                                                                                                       |                                                          |                              |                                                                                                                               |  |
| test                                 | repeats the test boolean submitted                                                                                                                                    | boolean                                                  |                              | 0                                                                                                                             |  |
| success                              | Indicates successful receipt of the order. Will be FALSE if valid is FALSE, but may also be FALSE if insufficient available stock                                     | boolean                                                  |                              | 1                                                                                                                             |  |
| valid                                | Indicates validity of the submitted information, eg Incorrect Post Codes, Missing Details                                                                             | boolean                                                  |                              | 1                                                                                                                             |  |
| error                                | List of error messages raised, will be empty if success is TRUE                                                                                                       | array(string [, ..., string])                            |                              | ['[Product Name] cannot be fulfilled: 1 requested, 0 available.', 'An order with reference 5572 has already been submitted.'] |  |
| update_stock                         | repeats the update_stock boolean submitted                                                                                                                            | boolean                                                  |                              | 1                                                                                                                             |  |
| last_order_placed                    | If update_stock set to true, this will return the date since the last API order                                                                                       | ISO 8601 date, GMT (+0:00)                               |                              | 12/30/2010 23:59:59                                                                                                           |  |
| stock_changes                        | If update_stock set to true, this will return an associative array of client_ref to current stock for all lines which have seen stock changes since last_order_placed | array( client_ref1 => stock1 [, client_ref3 => stock2] ) |                              | array( "prod1" => 200, "prod2" => 400)                                                                                        |  |