

DVD Pacific - Orders processing system

Transport: FTP

Version: 1.4

Both request and response should be composed by text lines of fixed format. US ASCII codepage is used in all files of DVD Pacific Orders processing system. It is possible to use UTF-8 encoding to encode international chars, but it is required to meet fixed field length even in encoded representation. So, please truncate the source string if encoded representation doesn't meet field size.

Each file contains one transaction. One transaction may contains one or more orders. Each order contains order-related information and one or more title lines.

Each line of file should be started with the line prefix which has the following format:

Field	Size (bytes)	Description
SectionType	2	
Version	2	'01' or '02' in current version
Separator	1	prefered to be '/' or ' '

The prefix defines format for whole line. Line may has a few fields with predefined fixed lengths. Separator char is used to separate data fields for visual purposes, it doesn't play the role of acutal separator as fields data will be retrieved from line by filed's position and fixed length. But such separator symbol will allow to quickly overview the data stored in files and would be usefull for debugging.

To place order(s) you should upload file with request transaction contains filled order sections. To escape file information corruption, you should prepare and upload file with extension '.tmp'. After successful upload you should rename file so its extenstion will be changed from '.tmp' to '.in' to inform our parser to get this file into processing system. File will be removed from your FTP folder and new file with same name but '.out' extension will be created after processing.

Numeric fields are prefered to be right justified and "space" or zero filled. Others are left justified and "space" filled. Costs are given as integer numbers in USD cents and no dot or comma allowed there.

Structure of request (*.in) file:

- 01 - Transaction Header
 - [10 - EncryptionSettings]
- 02 - Order Header
 - 03 - ShippingAddress
 - 04 - Order Line
 - [05 - BillingInformation]
- 12 - Order Footer
- 11 - Transaction Footer

Structure of response (*.out) file for orders:

- 01 - Transaction Header
 - 02 - Order Header
 - 03 - ShippingAddress
 - 04 - Order Line
 - 12 - Order Footer
- 11 - Transaction Footer
- [00 - Error Message]

Structure of response (*.inv) file for invoices:

- 01 - Transaction Header
 - 05 - Invoice Header
 - 03 - ShippingAddress
 - 06 - Invoice Line
 - 15 - Invoice Footer
- 11 - Transaction Footer
- [00 - Error Message]

Format of used structures:

Transaction Header		
Field	Size (bytes)	Description
SectionType	2	= '01'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '

Order Header		
Field	Size (bytes)	Description
SectionType	2	= '02'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '
ClientRefID	12	any alpha-numeric case insensitve ID used at client side to track each order (unique for new orders)
Separator	1	prefered to be '/' or ' '
OrderID	8	'00000000' - New order / Rejected order else the unique number of existing order
Separator	1	prefered to be '/' or ' '
DeliveryType	1	'H' - Hold till complete (individually) 'C' - Hold till complete & combine 'A' - Ship what is available
Separator	1	prefered to be '/' or ' '
DeliveryMethod	1	'A' - International Priority Air Mail 'S' - International Surface Mail 'F' - Air Courier (FedEx) 'D' - Air Courier (DHL) 'U' - Air Courier (UPS) '2' - 2nd day Air Courier 'M' - USPS Media Mail 'P' - USPS Priority Mail 'G' - Ground Courier 'O' - Overnight Air Courier 'B' - USPS International Priority Air Mail 'C' - USPS International Surface Mail 'T' - Swedish Post International Premium Mail 'H' - Swedish Post International Standard Mail
Separator	1	prefered to be '/' or ' '

TestMode	1	'T' - Test order 'R' - Real order
Separator	1	prefered to be '/' or ' '
OrderType	3	'000' - Regular Orders

Invoice Header		
Field	Size (bytes)	Description
SectionType	2	= '05'
Version	2	= '02' *** NOTE - NEW VERSION ***
Separator	1	prefered to be '/' or ' '
SourceOrderID	8	if invoice composed from single order and has Hold Till Complete (individually) status then unique OrderID will be used here, otherwise '00000000' value will be used
Separator	1	prefered to be '/' or ' '
ClientRefID	12	alpha-numeric ID used at client side to track the order generated this invoice. If invoice contains items from multiple orders or has other status than Hold Till Complete (individually), then ClientRefID will has value 'MULTI_ORDERS'
Separator	1	prefered to be '/' or ' '
InvoiceID	8	the unique number of invoice in DVD Pacific system
Separator	1	prefered to be '/' or ' '
DeliveryType	1	'H' - Hold till complete (individually) 'C' - Hold till complete & combine 'A' - Ship what is available
Separator	1	prefered to be '/' or ' '

DeliveryMethod	1	'A' - International Priority Air Mail 'S' - International Surface Mail 'F' - Air Courier (FedEx) 'D' - Air Courier (DHL) 'U' - Air Courier (UPS) '2' - 2nd day Air Courier 'M' - USPS Media Mail 'P' - USPS Priority Mail 'G' - Ground Courier 'O' - Overnight Air Courier 'B' - USPS International Priority Air Mail 'C' - USPS International Surface Mail 'I' - Swedish Post International Premium Mail 'H' - Swedish Post International Standard Mail
Separator	1	preferred to be '/' or ' '
PaymentStatus	1	'A' - Active 'I' - Payment Requested/Invoiced 'D' - Credit Card Declined/Invoiced 'P' - Paid 'V' - VOID 'X' - Credit Card Verification is requested
Separator	1	preferred to be '/' or ' '
ShipmentStatus	1	'A' - Active/Awaiting 'P' - Packed (not yet shipped) 'S' - Shipped (transferred to courier/mail delivery company)
Separator	1	preferred to be '/' or ' '
TestMode	1	'T' - Test invoice 'R' - Real invoice
Separator	1	preferred to be '/' or ' '
InvoiceType	3	'000' - Regular Invoices
Separator	1	preferred to be '/' or ' '
TrackingNumber	40	Tracking number for shipped parcel if available for selected DeliveryMethod
Separator	1	preferred to be '/' or ' '
ShippedDate	8	in fixed-length format: YYYYMMDD ie 20060315 if unshipped, then zero-filled: 00000000
Separator	1	preferred to be '/' or ' '
ClientRefIDs	0..*	ClientRedID values of each used order separated by comma (,)

ShippingAddress		
Field	Size (bytes)	Description
SectionType	2	= '03'
Version	2	= '01'
Separator	1	preferred to be '/' or ' '
ShippingID	8	'00000000' - New record else - the unique number of stored record
Separator	1	preferred to be '/' or ' '

FullName	64	Full name of recipient
Separator	1	prefered to be '/' or ' '
Country	32	
Separator	1	prefered to be '/' or ' '
ZipCode	12	
Separator	1	prefered to be '/' or ' '
StateRegion	32	
Separator	1	prefered to be '/' or ' '
City	32	
Separator	1	prefered to be '/' or ' '
Address1	64	
Separator	1	prefered to be '/' or ' '
Address2	64	
Separator	1	prefered to be '/' or ' '
Organization	64	optional
Separator	1	prefered to be '/' or ' '
CustomerEmail	64	optional email address where shipping confirmations should be sent

EncryptionSettings		
Field	Size (bytes)	Description
SectionType	2	= '10'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '
Method	2	'00' - clear(no encryption) '01' - simple masking by shared secret (fixed password) '02' - simple masking by secret key (the RSA-encrypted keyword)
Separator	1	prefered to be '/' or ' '
KeyIndex	2	The index of predefined shared keys (or RSA pairs). Default = '01'
Separator	1	prefered to be '/' or ' '
EncryptedKey	0..2048	RSA-encrypted key for transaction

BillingInfoData		
Field	Size (bytes)	Description
The record has variable-length fields separated by single separator char ' '		
PaymentMethod	0..50	'Credit Card' or 'Wire Transfer' (if allowed) or 'Direct Bank Deposit' (if allowed) or 'Money Order' (if allowed)
Separator	1	=' '
CardType	0..20	'VISA' or 'Diners Club' or 'Discover' or 'American Express' or 'MasterCard'
Separator	1	=' '
CardHolder- Name	0..150	Exactly same as on the card
Separator	1	=' '
CardNumber	0..16	Numeric digits only
Separator	1	=' '
CardExpiration	0..5	Format: MM-YY
Separator	1	=' '
CardCVV2	0..6	
Separator	1	=' '
BankName	0..80	
Separator	1	=' '
IPAddress	0..15	like 123.12.11.123
Separator	1	=' '
Country	0..32	
Separator	1	=' '
ZipCode	0..12	
Separator	1	=' '
StateRegion	0..32	
Separator	1	=' '
City	0..32	
Separator	1	=' '
Address1	0..64	
Separator	1	=' '
Address2	0..64	

Order Line		
Field	Size (bytes)	Description
SectionType	2	= '04'
Version	2	= '02' *** NOTE - NEW VERSION ***
Separator	1	prefered to be '/' or ' '
ItemID	10	decimal number, ID as at website and catalogs
Separator	1	prefered to be '/' or ' '
ItemUPC	15	complete 12-digit UPC or 13-digit EAN-13 or 11-digit UPC without last checksum digit
Separator	1	prefered to be '/' or ' '
Qty	4	decimal number
Separator	1	prefered to be '/' or ' '
Price	7	USD cent-based cost (no dot, no comma)
Separator	1	prefered to be '/' or ' '
Status	1	'0' - add to order by ItemID '1' - add to order by ItemUPC '2' - skipped '3' - accepted for order
Separator	1	prefered to be '/' or ' '
Info	1	'0' - ok '1' - ok, price amended '2' - skipped, item not found
Separator	1	prefered to be '/' or ' '
Title	40	Left-aligned title. Just as information.

Invoice Line		
Field	Size (bytes)	Description
SectionType	2	= '06'
Version	2	= '02' *** NOTE - NEW VERSION ***
Separator	1	prefered to be '/' or ' '
ItemID	10	decimal number, ID as at website and catalogs
Separator	1	prefered to be '/' or ' '
ItemUPC	15	complete 12-digit UPC or 13-digit EAN-13 or 11-digit UPC without last checksum digit
Separator	1	prefered to be '/' or ' '
Qty	4	decimal number
Separator	1	prefered to be '/' or ' '
Price	7	USD cent-based cost (no dot, no comma)
Separator	1	prefered to be '/' or ' '
SourceOrderID	8	DVD Pacific OrderID where this title came from
Separator	1	prefered to be '/' or ' '
ClientRefID	12	alpha-numeric ID used at client side to track the order which title used in this invoice
Separator	1	prefered to be '/' or ' '
Title	40	Left-aligned title. Just as information.

Order Footer		
Field	Size (bytes)	Description
SectionType	2	= '12'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '
Placeholder	6	placeholder, prefered to be 'TOTAL:.'
TotalOrderLines	5	decimal number
Separator	1	prefered to be '/' or ' '
TotalOrderQty	5	decimal number
Separator	1	prefered to be '/' or ' '
Placeholder	9	placeholder, prefered to be 'ACCEPTED:.'
AcceptedLines	5	decimal number
Separator	1	prefered to be '/' or ' '
AcceptedQty	5	decimal number
Separator	1	prefered to be '/' or ' '
EstimatedFreight	7	USD cent-based estimated shipping cost (no dot, no comma), never mind value for request

Invoice Footer		
Field	Size (bytes)	Description
SectionType	2	= '15'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '
Placeholder	6	placeholder, prefered to be 'TOTAL:.'
TotalInvoiceLines	5	decimal number
Separator	1	prefered to be '/' or ' '
TotalInvoiceQty	5	decimal number
Separator	1	prefered to be '/' or ' '
Placeholder	7	placeholder, prefered to be 'AMOUNT:.'
InvoiceValue	7	USD cent-based total value for invoice (no dot, no comma)
Separator	1	prefered to be '/' or ' '
InsuranceValue	7	USD cent-based included insurance value (no dot, no comma)
Separator	1	prefered to be '/' or ' '
DiscountValue	7	USD cent-based used discount value (no dot, no comma)
Separator	1	prefered to be '/' or ' '
FreightValue	7	USD cent-based used shipping cost (no dot, no comma)

Transaction Footer		
Field	Size (bytes)	Description
SectionType	2	= '11'
Version	2	= '01'
Separator	1	prefered to be '/' or ' '

Error Message		
Field	Size (bytes)	Description
SectionType	2	= '00'
Version	2	= '00'
Separator	1	prefered to be '/' or ' '
Error message	0..1024	usually indicate the LINE No of .in file and short error description

For each request (.in) transaction our processing system will produce one response (.out) transaction which will have similar format but will fill up incomplete data and records IDs. So if order passed ok, it will obtain new OrderID which will be placed into Order Header section. Client should provide own unique PO# of order using ClientRefID field. It is alpha-numeric **case insensitive** value. This value will be used for any .out information related to this order. If you don't need own PO# then just left this field empty (filled with blank spaces). ClientRefID should be unique for each new order placed. Error will be reported and new order will be rejected if required ClientRefID already in use for your account.

System will make a search for existing shipping address record to be able to link orders shipped into the same physical place. All fields should match to satisfy search. Each shipping address records has own ID in our system. This ID will be returned within ShippingAddress structure in response transaction.

Order titles may be specified by two ways. Using our internal ItemID available at our website and catalogs or using Industry standard UPC-12 or EAN-13 (or even UPC/EAN codes without last checksum digit). You should select what type of title identification you prefer using Status code for each line of order.

Both fields (status and info) should be analyzed when you got response transaction for each title in order. The line will be accepted for order even if your price doesn't match to current price in our database, but you will be notified by code '1' in Info field of response for such product line.

To ensure that all lines are confirmed, please compare summary order information in Order Footer of response. (the Total and Accepted amounts)

The estimated shipping cost is subject to change and listed in response as estimation only.

Please review provided sample request file: test.in

Response file can have Error Message record(s). Such record doesn't have fixed length, so EOL should indicate the end of record.

Note: Critical error message will interrupt .out file and may do this without adding order trailing or transaction footer sections.

Please review provided sample response file with error message: test.out

Our system generates invoices for each order you place. A few orders may be combined into same invoice if source orders have same shipping address and DeliveryType 'C' - "Hold till complete & combine" or 'A' - "Ship what is available".

You will have additional .out files available with list of generated/changed invoices daily. Files will be named by date and time of generation and will include all invoices which shipping status has been changed since last generation.