# Depot to VBS-Stack Run In Interface



VBS Message Interface for Empty Stack Run IN Truck Manifest v1.2.2

## **Document Control**

Document Version	Date of Activity	Details	Author
0.1	09/03/2010	Initial Draft	J Zhang
0.2	12/03/2010	Update after first review with T Latella, D Belchenko and M Loo	J Zhang
0.3	15/03/2010	Final Draft Review – ready to send to external parties as a preliminary document.	T.Latella
0.4	27/04/2010	Added detailed description to each field. Updated the XSD and XML samples.	T.Latella
0.5	4/5/2010	Final Review – Release Version	J. Skurray
1.0	03/08/2010	Updated release (URLs)	J. McLoughlin
1.0	20/08/10	Updated message samples	J. McLoughlin
1.1	24/08/10	Updated document template	J. McLoughlin
1.2	22/01/13	<ul> <li>Added additional enhancements for Automated Terminals.</li> <li>Added new list of TruckType codes.</li> <li>TruckAttachments no longer used but left in for backward compatibility – can only use the value of N = NONE. Can no longer use values of 'S' or 'D' must use TruckType (H &amp; K) instead for Sideloader (H) or Dropdeck (K).</li> <li>Updated Message Layout</li> <li>Added new business rules to check that slots are available in the manifested Zone.</li> <li>Add new business rules and purpose of DateTime data field.</li> <li>Added a new ReceiverID for DPBNE.</li> <li>Added REGO is mandatory for DPBNE. If a BAT is sent and a REGO cannot be found then an error response is returned.</li> <li>Added new optional TrailerPosition element.</li> <li>Added new helper web service – GetNumSlotsRemaining.</li> <li>Added Appendix of Truck Type images</li> </ul>	T. Latella

1.2.1	27/2/2014	<ul> <li>Minor error in Appendix-TruckTypes Images where the Road Train 3<sup>rd</sup> trailer TrailerPosition was set to 2 instead of 3 in the diagram.</li> </ul>	T. Latella
1.2.2	23/09/2015	Updated 1029 error code description	K. Hasan

# **Tables of Contents**

1	Intro	oduction	5
2	Data	a Requirements	5
3	Inte	gration Overview	5
4	Stac	ck Run In Manifest High Level Business Process	6
5	Web	o Service – Location Details	7
5	5.1	Test Web Service Location	7
5	5.2	Production Web Service Location	7
6	Stac	ck Run In Manifest Request Message	8
6	6.1	Request Message Layout	8
6	6.2	Request Message Data Fields	9
7	Stac	ck Run In Manifest Response Message1	5
7	<b>'</b> .1	Response Message Layout 1	5
7	<b>7</b> .2	Response Data Fields 1	5
8	Get	StackRun In Details - Helper web service 1	7
ε	3.1	Web Service Calls 1	7
	8.1.1	1 GetStackRunDetails 1	7
	8.1	.2 GetNumSlotsRemaining1	8
8	3.2	Get Stack Run IN Details - Response Message Layout1	9
8	3.3	Get Stack Run In Details - Response Data Fields2	20
9	Errc	or Codes and Descriptions	<u>2</u> 4
10	S	tack Run In Web Service Message Choreography2	28
11	A	ppendix	0
1	1.1	c# .NET Code Snippet to Create_Stack_Run_IN_MANIFEST Web service	0
1	1.2	Using SoapIU for testing	0
1	1.3	Sample Stack Run In Manifest Request XML-single container	2
1	1.4	Sample Stack Run In Manifest Request XML-Multiple containers	4
1	1.5	Sample Accepted Stack Run In Manifest Response XML	6
1	1.6	/Sample Rejected Stack Run In Manifest Response XML	7
12	А	ppendix - TruckType Images	9

## INTRODUCTION

1

The document is intended to be used by Container Depots and Parks. It describes the message specification required to automatically create a Truck Manifest message for Empty Stack (or Bulk) Runs into the terminal. This will provide a means to integrate the Depot system directly and electronically, via web service, into 1-Stop's Vehicle Booking System (**VBS**). By doing this integration the **Stack Run In (SRI)** process can be further automated and therefore eliminates the need to manually enter the truck manifest data into VBS when the truck leaves the depot.

This document describes the data schema of the web service request message and the response message. Sample XML data is also included in this document.

When the **SRI** is manifested via this web service interface the business rules for the SRI are validated, the PRA, booking and manifest messages are generated and submitted to the terminal.

Once the Terminal responds that they have accepted the data then the VBS web service responds to the Depot system with relevant data (e.g. VBS Manifest Number and VBS PIN). This will then complete the SRI booking validation and the Truck can commence the trip to the terminal.

## 2 DATA REQUIREMENTS

The pre-condition of using this Depot to VBS interface is that the SRI must first be set up in 1-Stop VBS and authorised by the Container Terminal Operator (CTO) to be used.

The VBS internal ERN ID will be supplied in the request message to identify the SRI request in VBS.

## **3** INTEGRATION OVERVIEW



#### 4 STACK RUN IN MANIFEST HIGH LEVEL BUSINESS PROCESS



## 5 WEB SERVICE – LOCATION DETAILS

## 5.1 Test Web Service Location

The test site URL of the Stack Run In Manifest web service is located at:

https://vbs20-dev.1-stop.biz/vbswebservices/test/stackruninmanifest.asmx

#### StackRunInManifest

The following operations are supported.

- CreateStackRunInManifest
- GetStackRunDetails
- GetNumSlotsRemaining

#### WSDL URL

https://vbs20-dev.1-stop.biz/vbswebservices/test/stackruninmanifest.asmx?WSDL

The URL will display the following page:-

Click on the 'CreateStackRunInManifest' link to display the details of the SOAP XML specification.

Click on the 'Service Description' link to display the WSDL specification. This WSDL contains the details of the Response XML message.

Web Service Call

CreateStackRunInManifest("UserID", "pwd", manifestRequest)

Where:

- UserID = your 1-Stop assigned VBS UserID
- pwd = your 1-Stop assigned VBS password
- manifestRequest is the XML payload

See Appendix for sample c# .Net code .

### 5.2 Production Web Service Location

The production site (date or release to be confirmed) URL of the Stack Run In Manifest web service is located at:

https://vbs.1-stop.biz/VBSWebservices/StackRunInManifest.asmx

and the production site for the WDSL is located at:

https://vbs.1-stop.biz/vbswebservices/stackruninmanifest.asmx?WSDL

## 6 Stack Run In Manifest Request Message

## 6.1 Request Message Layout



## 6.2 Request Message Data Fields

The following data fields are expected in the request message from the Depot to the VBS system.

Data Field	Mandatory/Optional/ Conditional	Comment
Run DateTime	Mandatory	Date and Time of when the request message is sent to 1-Stop VBS.
		Format: YYYY-MM-DDTHH:MM:SS
		Business Rules:
		The Terminal will be able to restrict the number of StackRun slots available per Zone. If no constraints are set then the 'Current Business Rules' will work.
		As the messaging is 'realtime' the time when the message is received is used to check against the StackRun Date and StartZone and EndZone.
		Once the Stack Run has started and the RunDateTime is in the future (& less than the ZoneEndTime) then the manifest is accepted as a planned manifest that will occur at the RunDateTime zone otherwise the current Date Time will be used as a "realtime" message ie the truck will arrive in the next few minutes.
		If the message is after the EndZone then the manifest message is rejected.
		If the message is before the StartZone then the manifest message is accepted and the truck is assumed to be coming to the terminal at the StartZone time. This allows manifest to be planned ahead e.g. Messages sent on a Friday for a Saturday truck trip.
		If the Zone Constraints are set by the terminal then they will take effect and reject any pre-advised manifests that are over the zone limit. In this scenario it is important that the Carrier uses the correct DateTime to indicate the planned Zone that the truck will arrive. This will allow the sender to plan which Zones the truck trips will happen in and avoid rejections due to Zone slot

		constraints.
		Example: A Stack Run In (SRI) has been setup for 100 containers for Saturday 2/2/2013 with a StartZone of 09:00 and run to an EndZone of 15:00. A carrier wants to pre-advice the 100 Stack Run In (SRI) manifests on a Friday for the next day. The Terminal has set a limit of 20 SRI slots per zone. The DateTime must be set to 2/2/2013 0900 for the first 20 containers and 2/2/2013 1000 for the next 20 containers and so on.
		If the terminal has not set any constraints then it is not critical to set the DateTime for each zone to indicate which Zone the containers will arrive in. For example, if the DateTime is set to Friday at 1700 (1/2/2013 1700) then all the container slots will be assigned to Zone 09 being the StartZone of the SRI.
ReceiverID	Mandatory	This field normally one of the VBS Terminal Codes: <b>Patrick:</b> PTFIT = Brisbane - Fisherman Is Terminal 7 ASLFR = Western Australia – Fremantle ASES1 = Melbourne - East Swanson NTLWD = Melbourne - Webb Dock ASLPB = Sydney - Port Botany <b>DP World:</b> CONFR = Western Australia – Fremantle CTLPB = Sydney - Port Botany CONWS = Melbourne - West Swanson DPBNE = DP World Brisbane – Automated Terminal
Truck Reference Type	Mandatory	Either 'BAT' or 'REGO' This is an attribute for TruckReference. REGO is mandatory for DPBNE as they do not accept BAT numbers however if a BAT is sent and a match can be made to REGO then both BAT and REGO will be sent to DPBNE. If no REGO is found then an error response is returned to the sender.
		If TruckReferenceType=BAT then the TruckReference must be a valid BAT Number as supplied by DP World. Invalid numbers will

		cause an error response.
		If TruckReferenceType=REGO then TruckReference must be a valid rego number.
		A truck registration (rego) number can be sent for all terminals. As of 11 March 2013 DPW West Swanson modified their system and now have a one to one match between BAT and REGO.
		The 1-Stop system can use the rego to find the BAT for DPW terminals and will send both (BAT and Rego) to the terminal. If no corresponding BAT number is found AND if the ReceiverID is a DP Terminal (except DPBNE where only the REGO will be sent) then an error response will occur.
		If the ReceiverID is a Patrick terminal and no BAT number exists then only the Rego will be passed onto the Patrick Terminal.
		As of 11 March 2013 DPW West Swanson modified their system and now have a one to one match between BAT and REGO.
TruckReference	Mandatory	The actual Truck Registration number (rego) or the actual BAT number.
		Rego is normally up to 6 char for all states except WA which can be up to 7 char.
MSICNumber	Optional	Maritime Security Identification Card number of the truck driver.
Truck Type	Mandatory	Truck Type:-
		See Appendix for images of Truck Types.
		O=Other - not to be used except for backward compatibility. Not allowed for DPBNE.
		A=A-Double B=B-Double C=Light Super B Double D=Dog Trailer E=Rigid 20 H=Side Loader K=Drop Deck M=Rigid 40 O=Other

		P=B Triple R=Road Train S=Heavy Super B Double T=Semi Trailer V=B Double alternate
TruckAttachment	Mandatory	Attachments that may be affixed to the truck, N for None;
VBS_ERN_ID	Mandatory	Internal VBS ID for the Stack Run In set up. This number is created when a Stack Run is approved and will be supplied to the Depot in 3 ways: 1. in the SRI emails. 2. on the VBS screens 3. Web Service Helper.
Container Number	Mandatory	The container associated with the Empty Release Number (ERN) that is being manifested on the truck.
		It is possible that a truck can have multiple containers with different VBS_ERN_ID's i.e. different Stack Runs however this scenario is terminal specific and Depots must confirm with the specific Terminal if they allow this. At the time of writing no Patrick Terminal allow this scenario therefore a truck manifest can only be associated with a single Stack Run at a time.
		For Flat Rack transport the bottom 'Rack' is considered the 'Master' and would be used as the Container Number in this field.
ISO	Optional – If not sent then the default ISO from the SRI setup will be used	The ISO code of the container. Must be 4 char.
Position	Mandatory	The order position of the container on a truck. Position 1 is closest to the prime mover.
Door	Mandatory	The facing of the container door.
		ANY – the doors can face any direction. AFT – the doors are facing towards the back

		of the truck.
		FORWARD – the doors are facing the prime mover.
Attachment	Optional	Flat rack containers that are stacked together where the bottom Rack is considered the 'Master' and all other racks are considered attachments. There can be a maximum of 8 attachments plus 1 master for a total of 9 in a stack of flat racks.
TrailerPosition	Optional but depends on specific Terminal requirements.	Possibly required for Automated Terminals in the future. E.g. for DPBNE. A truck can have up to 3 trailers depending on the TruckType. Trailers are numbered 1 to 3 from the front to the back of the truck. A truck must have at least one trailer even if it is a fixed tray. TrailerPosition will be cross checked against TruckType. E.g. TrailerPosition of 3 cannot be used for TruckType other than R=RoadTrain for example.
TrailerSlotPosition	Optional but depends on specific Terminal requirements.	Possibly required for Automated Terminals in the future. E.g. for DPBNE. The container position on the truck trailer can be 1, 2 or 3. A 20' container can occupy position 1, 2 or 3 but a 40' container can only occupy position 2. TrailerSlotPosition will be cross checked against TruckType. E.g. TrailerSlotPosition of 2 cannot be used for TruckType = E=Rigid 20 because it can only take 1 container in Slot 1.
SMS Details	Optional	The SMS details are optional and do not have to be sent in the message.
SMS Flag	Conditional	Required if an SMS is to be sent and the SMS segment exists. The SMS Flag indicates if an SMS will be sent for the truck manifest. The value is Boolean TRUE or FALSE.
Mobile Number	Conditional – Required	The mobile number that the SMS will be sent

	if SMS flag is Y	to. Min 10 char
SMSText	Optional	SMS Text that will be appended to the system generated manifest message. When the overall text is too long (>160 char), it'll be truncated.

## 7 STACK RUN IN MANIFEST RESPONSE MESSAGE

## 7.1 Response Message Layout



## 7.2 Response Data Fields

The following data fields are in the response message from the VBS system to the Depot.

Data Field	Mandatory/Optional/ Conditional	Comment
DateTime	Mandatory	When the message is responded
Status	Mandatory	Overall message status or PRA status. Overall message status – Accepted or Rejected Status under PRA element for the PRA status of a particular container
RUN Number	Optional	Run number for the truck manifest.
ErrorCode	Optional	Error code of the response message. If message accepted, no ErrorCode returned.

ErrorDescription	Optional	Detailed Error Code description. If message accepted, no ErrorDescription returned.
Movement ID	Conditional, data provided if truck manifest created	Truck manifest movement ID
PIN	Conditional, data provided if truck manifest created	PIN for the truck manifest
Container Number	Mandatory	The container number for the stack run manifest
TimeSlotID	Conditional, data provided if booking time slot created	VBS Booking Reference Number
VBSERNID	Mandatory	VBS Internal ERN ID for the Stack Run In set up.

## 8 GET STACKRUN IN DETAILS - HELPER WEB SERVICE

The **GetStackRunInDetails** web service is a helper service that can be used to check the data of an approved Stack Run. Using just the Shipping Line ERN the container park system can get information from the VBS system about the Stack Run associated with the ERN.

Particularly important is that this helper WS can be used to find the **Internal VBS ID** for a Stack Run which must be used to send the truck manifest.

As industry Shipping Line ERNs may not be unique (some Lines re-cycle their ERNs after 12 months) multiple ERNs may be returned however this is unlikely to happen as the Helper WS will only search back 90 days for information.

The **GetNumSlotsRemaining** web service is a helper service that can be used to check how many Stack Run IN slots are remaining in a particular Zone. The Terminal will be able to restrict the number of StackRun slots available per Zone.

If no constraints are set then the response will return 999 (i.e. unlimited).

If the terminal sets the constraints then the response will return the number of remaining unused slots that are available to be booked.

If the Terminal sets slot constraints per Zone then the DateTime value will be used to determine the Date & Time the truck trip will occur and which Zone the Manifest is intended for. This will allow the sender to plan which Zones the truck trips will happen in and avoid rejections due to Zone slot constraints.

The URL for this helper web service is the same as the main URL...

https://vbs20.test.1-stop.biz/vbswebservices/stackruninmanifest.asmx

This URL will display the following ...

#### StackRunInManifest

The following operations are supported.

- CreateStackRunInManifest
- GetStackRunDetails
- GetNumSlotsRemaining

### 8.1 Web Service Calls

### 8.1.1 GetStackRunDetails

• GetStackRunDetails ("UserID", "pwd","terminal", "ERN")

Where:

- UserID = your 1-Stop assigned VBS UserID
- pwd = your 1-Stop assigned VBS password
- Terminal is the terminal codes (see the list of ReceiverID Codes in the table above)
- ERN is the Empty Release Number.

## 8.1.2 GetNumSlotsRemaining

RemainingSlots = **GetNumSlotsRemaining** ("UserID", "pwd","Terminal", "BookingDate", TimeZone, ErrorCode)

### Where:

- UserID = (format: string) your 1-Stop assigned VBS UserID
- pwd = (format: string) your 1-Stop assigned VBS password
- Terminal is the terminal codes (format: string) (see the list of ReceiverID Codes in the table above)
- BookingDate (format: string: DD-MM-YYYY) is the date that the truck trip will take place.
- TimeZone (0 to 23) (format: integer 0 to 23) is the hour when the truck will arrive at the terminal.
- ErrorCode (format: integer)

If any of the parameters are incorrect then 0 is return in the RemainingSlot result with an ErrorCode (possible errors are: 1001, 1014, 1028, 1029)

If there are no Slot constraints in the zone then return 999.

If there are slot constraints then return the number of slots remaining.

#### 8.2 Get Stack Run IN Details - Response Message Layout





## 8.3 Get Stack Run In Details - Response Data Fields

The following data fields are in the response message from the VBS system to the Depot.

Data Field	Mandatory/Optional /Conditional	Comment
VBS_ERN_ID	М	The Internal VBS ERN ID is the unique key that identifies the ERN. This is the key that must be sent to the VBS system in the CreateManifest web service call.
ERN	Μ	The Empty Release Number usually supplied by a Shipping Line and is the Shipping Line order number for releasing containers from a depot. This number is sent by the Depot when requesting these details and is also returned in this response.
ShippingLineRef	М	Shipping Line reference codes which may be the same as the ERN. This code is usually used to book a spot on the vessel for the container.
NumberOfContainer s	М	The total number of containers to be released and delivered to the terminal for the ERN. The VBS will check against this number and will not accept manifest for containers than was originally approved in the stack run setup.
CntrSize	М	Size of container (20, 40, 45). Mandatory when confirming booking

ISO_Code	M	ISO_Code - The International Standards Organisation code describing the type of container, this is the 4 character code usually painted below the container number in the side of the container. The VBS system will return the Code that was in the original Stack Run setup.
CntrComdty	М	Mandatory when confirming booking. Commodity code values: MT=Empty or NEST- Flat Racks.
ContainerDesc	М	Description of the container that was given when the Stack Run was originally setup.
VesselName	М	Name of the vessel that was given when the Stack Run was originally setup.
LloydNum	М	Ship identifier from the vessel schedule. Vessel ID using Lloyd's Numbering. Mandatory when confirming booking
VoyageNum	М	Voyage Number that was given when the Stack Run was originally setup. For export containers use the OUT Bound Voyage number.
ReceivalStartDate	C If the date exists it will be returned in the response.	The start date for receiving containers for the particular vessel as shown in the vessel schedule.
CutOffDate	C If the date exists it will be returned in the response.	The cutoff date when containers for the particular vessel cannot longer be received (without a late receival arrangement) as shown in the vessel schedule.
EstimateArrivalDate	C If the date exists it will be returned in the response.	The vessel estimated time of arrival as shown in the vessel schedule.

EstimateDepartureD ate	C If the date exists it will be returned in the response.	The vessel estimated time of departure as shown in the vessel schedule.
DischargePort	М	The first port of discharge that was given when the Stack Run was originally setup.
FinalDestination	М	The final port of discharge or destination that was given when the Stack Run was originally setup. This may be the same as the DischargePort.
Status	М	The current status of the Stack Run at time that this web service was called. One of the following statuses will be returned:- Pending Confirmed Confirming Rejected
ManifestedCount	0	The number of containers already manifested.
StackRunID	М	Stack Run ID description assigned to the stack run by the Terminal.
StackRunStartDate	М	The start date of the Stack Run that was originally setup when the stack run was Confirmed. A stack run could go over multiple dates.
StackRunEndDate	М	The end date of the Stack Run that was originally setup when the stack run was Confirmed. A stack run could go over multiple dates.
ZoneStart	М	VBS Time zone start that was originally setup when the stack run was Confirmed. Format: HHmm. Examples: Zone 1 then 0100, Zone 10 then 1000
ZoneEnd	М	VBS Time zone end that was originally setup when the stack run was Confirmed. Can be equal to ZoneStart. For Stack Runs the

		ZoneEnd can be greater than ZoneStart. Format: HHmm Examples: Zone 1 then 0100, Zone 10 then 1000
ErrorCode	Ο	A number means there is an error and an ErrorDescription must be returned. See list of Error Codes and Descriptions below.
ErrorDescription	0	When an ErrorCode is returned then there must be an ErrorDescription. See list of Error Codes and Descriptions below.

## 9 ERROR CODES AND DESCRIPTIONS

Error	Error Description	Reason for Error
Code		
1001	Invalid Username or Password!!	During the test phase a valid Username and Password can be obtained from the 1-Stop Connections Project Manager.
		After the production release a valid username and password can be obtained from 1-Stop Connections by contacting the Helpdesk.
1002	General Error - 1-Stop Error Tracking ID = xxxxxxx	For 'unknown' general errors the Error Tracking ID can be passed onto 1-Stop for analysis and investigation for resolution.
1003	Truck Reference is mandatory field.	The truck reference is either a BAT number or a Truck REGO number and should match the data in TruckReferenceType which is either 'BAT' or 'REGO'.
1004	Unknown Truck Type	Only the codes listed on the Appendix are valid. Not all terminals will accept all codes. Automated Terminals (e.g. DPBNE) will not accept O-Other. A=A-Double B=B-Double C=Light Super B Double D=Dog Trailer E=Rigid 20 H=Side Loader K=Drop Deck M=Rigid 40 O=Other P=B Triple R=Road Train
		S=Heavy Super B Double T=Semi Trailer V=B Double alternate
1005	Unknown Truck Attachment Type	These codes are valid: N-None S-SideLoader D-Dropdeck
		If there is no truck attachment then do not include the XML element in the request. S and D are included for backward compatibility but are no longer required as these are now included as Truck Types.
1006	VBSERNID does not exist.	The primary key (IDSRERN) doesn't exist in VBS.SR ERN table

1007	Container Number is mandatory field with the maximum of 12 characters long.	
1008	Container ISO code has a maximum of 4 characters long.	The Container ISO code give information about the container size and type e.g. 2200 is a 20' General container.
1009	Attached Container Number cannot exceed 12 characters long.	
1010	The maximum number of the Attachment Containers is 8.	The master rack is entered as the Container Number and the other 8 are attachments. For Flat Rack containers there can be 8 attached flat racks to the master which is the bottom flat rack to give a maximum of 9 flat racks per 'container'.
1011	Container Position is mandatory field and between 1 and 6.	The container position on the truck can only be 1 to 6 with 1 being closest to the prime mover.
1012	Door Direction is mandatory field and must be either ANY, AFT, FORWARD.	There are only 3 valid values for Door Direction - ANY, AFT or FORWARD.
1013	Mobile Number must contain at least 10 characters long.	A mobile number cannot be less than 10 digits.
1014	Receiver Code is mandatory field - this is a 5 char terminal code (e.g. ASLPB)	The terminal codes are used to determine which terminal is receiving the container (and the truck manifest message) and is required and must be a valid VBS terminal code. See the Message Specification for further info.
1015	Invalid Receiver Code for provided VBSERNID.	A double check is made to ensure that the Receiver (Terminal) Code matches the Receiver code recorded against the internal VBS ERN ID.
1016	Invalid Rego number. (Cannot find Rego number for given BAT number.)	For DPW terminals only the BAT number is sent to the terminal however the container park can send the rego number or the BAT number and the VBS system will find the corresponding BAT as long as the BAT- REGO combination is registered in VBS. As of 11 March 2013 DPW West Swanson modified their system and now have a one to one match between BAT and REGO.
1017	PRA rejected by the terminal.	The PRA for the empty container was REJECTED by the terminal. This should never happen for empty containers but if it does this is the error returned.
1018	System unable to save the manifest.	VBS system unable to save the manifest into db. This would mean some drastic is
		wrong e.g. not enough storage in the Tablespace.
1019	Invalid Rego number. (Cannot find BAT number for given Rego number.)	wrong e.g. not enough storage in the Tablespace. See Error 1016 for more details.

		approval have been manifested.)
1021	No data found for ERN: 'xxxxx'	
1022	Container is the mandatory field.	
1023	The maximum number of containers can be manifested on this truck type is 'x~x'.	
1024	Terminal/ReceiverID is a mandatory field.	
1025	The container number cannot be duplicated in the manifest.	
1026	The position number cannot be duplicated in the manifest.	
1027	Manifest is after the Stack Run end time	
1028	Unable to process. Manifest contains ERNs from multiple Stack Runs	A Stack Run can have multiple ERNs and the manifest can only contain ERNs for a single Stack Run. ERN's across multiple Stack Runs cannot be processed.
1029	Unable to call terminal web service. Please try again later.	VBS has failed to call terminal web service due to outage.
1030	No Slots available in the Zone. Manifest for another TimeZone	If the Terminal sets slot constraints per Zone then the system will check to see if there are any Stack Run slots available. The number of Slots available must be sufficient for the entire truck or the whole manifest will be rejected. E.g. If the truck has 4 containers then there must be 4 slots available.
1031	Truck Type is invalid for this terminal.	Truck types can be setup for individual terminals and if the Stack Run manifests assigns a truck type that doesn't exist at the terminal then the manifest will be rejected. E.g. If TruckType = O (other) and the terminal doesn't allow this truck type then the manifest will be rejected.
1032	TrailerPosition invalid	The Trailer Position, if supplied, can only have values of either 1,2 or 3. All other values will result in the manifest being rejected.
1033	TrailerSlotPosition invalid	The TrailerSlotPosition, if supplied, can only have values of either 1,2 or 3. All other values will result in the manifest being rejected.

1034	TrailerSlotPosition invalid for the container size.	The TrailerSlotPosition, if supplied, can only have a value 2 for a 40', 45', 48', container. All other values will result in the manifest being rejected.
1035	Truck Type and TrailerPosition mismatch.	If the Truck type only has 2 trailers and the manifest indicated the container is on trailer 3 then the manifest will be rejected. E.g. If TruckType is a B=B-Double which has 2 trailers and the TrailerPosition = 3 then the manifest will be rejected.
1036	Invalid date format	Check the correct date format has been requested.
1037	Invalid Timezone	Timezone should be 0 to 23
1038 to 1049	Future use	
1050	No data found.	
1051	User authentication failure at authentication Server.	
1052	ReceiverID is invalid.	
1053	User does not have appropriate permissions for the Stack run interface.	
1054	Invalid method call.	

## **10 STACK RUN IN WEB SERVICE MESSAGE CHOREOGRAPHY**



#### **11 APPENDIX**

#### 11.1 c# .NET Code Snippet to Create\_Stack\_Run\_IN\_MANIFEST Web service

#### [TestMethod]

```
public void AuthenticationSRILoginFail()
            //create a webservice instance
            StackRunInManifest vbsSRIManifestWS = new StackRunInManifest();
            //create Manifest request object
            CreateStackRunInManifestSRIManifestRequest manifestRequest = new
CreateStackRunInManifestSRIManifestRequest();
           manifestRequest.DateTime = System.DateTime.Now;
            manifestRequest.ReceiverID = "ASLPB";
            CreateStackRunInManifestSRIManifestRequestTruck truck = new
CreateStackRunInManifestSRIManifestRequestTruck();
            truck.TruckAttachment =
(CreateStackRunInManifestSRIManifestRequestTruckAttachment)Enum.Parse(typeof(CreateStackR
unInManifestSRIManifestRequestTruckTruckAttachment), "N");
            CreateStackRunInManifestSRIManifestRequestTruckTruckReference truckRef = new
CreateStackRunInManifestSRIManifestReguestTruckTruckReference();
            truckRef.type =
(CreateStackRunInManifestSRIManifestRequestTruckTruckReferenceType)Enum.Parse(typeof(CreateSta
ckRunInManifestSRIManifestRequestTruckTruckReferenceType), "REGO");
            truckRef.Value = "KML765";
            truck.TruckReference = truckRef;
            truck.TruckType =
(CreateStackRunInManifestSRIManifestRequestTruckTruckType)Enum.Parse(typeof(CreateStackRunInMa
nifestSRIManifestRequestTruckTruckType), "B");
            List<ArrayOfSRIManifestTruckSRIContainerSRIContainer> conts = new
List<ArrayOfSRIManifestTruckSRIContainerSRIContainer>();
            ArravOfSRIManifestTruckSRIContainerSRIContainer cont = new
ArrayOfSRIManifestTruckSRIContainerSRIContainer();
            cont.VBSERNID = 4668;
            cont.ContainerNumber = "Containerxxx";
            cont.ISO = "ISO9";
            cont.Position = 1;
            cont.Door =
(ArrayOfSRIManifestTruckSRIContainerSRIContainerDoor) Enum. Parse (typeof (ArrayOfSRIManifestTruck
SRIContainerSRIContainerDoor), "ANY");
            conts.Add(cont);
            truck.Containers = conts.ToArray();
            manifestRequest.Truck = truck;
            CreateStackRunInManifestResponseCreateStackRunInManifestResult manifestResponse =
vbsSRIManifestWS.CreateStackRunInManifest("dummyUser", "pwd", manifestRequest);
            Assert.AreEqual("REJECTED", manifestResponse.Status.ToString());
        }
```

#### 11.2 Using SoapIU for testing.

SoupUI is a freely available tool that can be easily found on the internet to assist with testing web services. These screen shots are provided as a guide only. 1-Stop cannot provide any further assistance in how to use SoapUI and users should familiarise themselves with the SoapUI help documentation.



🕌 soapUI 2.0.2	
<u>F</u> ile <u>T</u> ools <u>D</u> esktop <u>H</u> elp	
🖲 🕤 😭 💥 🍺	
10 =	🕄 Request 1
🗑 🖭 Projects	
SRIManifest UAT Test	<pre>ctac:CreateStackNunInInnifest&gt;</pre>
은 CreateStackRunInManife 응 Request 1 윤 I StackRunInManifestSoap 이 SRIManifestLocal	<pre>X </pre>
StackRunInManifestSoap12	<pre><stac:slimanifestrequest></stac:slimanifestrequest></pre>
is Request 1 is Request 1 in−I StackRunInManifestSoap	<pre>dOptional:&gt;</pre>
	<stac:attachment>/stac:Attachment&gt;</stac:attachment>
Request Properties Property Value	<pre></pre>
Name Request 1  Description	<pre></pre>
Encoding UTF-8	Aut Haaders (0) (22) (22
Endpoint http://vbs20.te	results (o) Auduments (o) results (o) Auduments (o) Audume
Properties	saaniliaa httplaa istoo astroo laa memory laa

This screen shot is a request to CreateStackRunManifest.

This screen shot is a request to the GetStackRunDetails helper Web Service.

soapUI 2.0.2		
File Tools Desktop Help		
	Request 1	ජ ජ ⊠
Ber Projects     Britanifest Local     SRIManifest LIAT VRS20 test	★ t= \$? ID □ □ http://vbs20.test1-stop.biz/vbswebservices/stackruninmanifest.asmx	- Time to the second se
<ul> <li>Studianiest Oarl V5202651</li> <li>StackRuninManifestSoap12</li> <li>CreateStackRuninManifest</li> <li>StackRuninDetail</li> <li>StackRuninManifestSoap</li> </ul>	<pre>Stop:Header/&gt; <foop:body> <foop:body> <foop:columnation <="" pre=""></foop:columnation></foop:body></foop:body></pre>	<pre>start = start = s</pre>
Request Properties		<shippinglineref>sln2</shippinglineref> <numberofcontainers>20</numberofcontainers>
Property Value Name Request 1		<chrtsize>20</chrtsize> <iso_code>2003</iso_code> <chrtcomdtypmt< chrtcomdty=""></chrtcomdtypmt<>
Description		
Message Size 561		
Endpoint http://vbs20.test.1	Aut Headers (0) Attachments (0) Header	s (8) Attachments (0) SSL Info WSS (0)
Bind Address	response time: 138ms (3177 bytes)	68:20
Properties	soapUI log http log jetty log error log memory log	



### 11.3 Sample Stack Run In Manifest Request XML-single container

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:stac="http://vbs.1-stop.biz/VBSWebservices/StackRunInManifest">

<soap:Header/>

<soap:Body>

<stac:CreateStackRunInManifest>

<!--Optional:-->

<stac:UserName>wsUsername</stac:UserName>

<!--Optional:-->

<stac:Password>wsPwd</stac:Password>

<!--Optional:-->

<stac:SRIManifestRequest>

<stac:DateTime>2013-03-30T11:00:00</stac:DateTime>

<!--Optional:-->

<stac:ReceiverID>CTLPB</stac:ReceiverID>

<!--Optional:-->

<stac:Truck>

<stac:TruckType>B</stac:TruckType>

<!--Optional:-->

<stac:TruckReference type="REGO">VNQ929</stac:TruckReference>

<!--Optional:-->

<stac:MSICNumber></stac:MSICNumber>

<stac:TruckAttachment>N</stac:TruckAttachment>

<!--Optional:-->

<stac:Containers>

<!--Zero or more repetitions:-->

<stac:SRIContainer>

<stac:VBSERNID>70518</stac:VBSERNID>

<!--Optional:-->



<stac:ContainerNumber>CONT111122</stac:ContainerNumber>

<!--Optional:-->

<stac:ISO>22G1</stac:ISO>

<stac:Position>1</stac:Position>

<stac:Door>ANY</stac:Door>

<!--Optional:-->

<stac:Attachments>

<!--Zero or more repetitions:-->

<stac:Attachment></stac:Attachment>

</stac:Attachments>

<!--Optional:-->

<stac:TrailerPosition>2</stac:TrailerPosition>

<!--Optional:-->

<stac:TrailerSlotPosition>3</stac:TrailerSlotPosition>

</stac:SRIContainer>

</stac:Containers>

</stac:Truck>

<!--Optional:-->

<stac:SMSDetails>

<stac:Flag>false</stac:Flag>

<!--Optional:-->

<stac:Mobile></stac:Mobile>

<!--Optional:-->

<stac:SMSText></stac:SMSText>

</stac:SMSDetails>

</stac:SRIManifestRequest>

</stac:CreateStackRunInManifest>

</soap:Body>

</soap:Envelope>



### 11.4 Sample Stack Run In Manifest Request XML-Multiple containers

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:stac="http://vbs.1-stop.biz/VBSWebservices/StackRunInManifest">

<soap:Header/>

<soap:Body>

<stac:CreateStackRunInManifest>

<!--Optional:-->

<stac:UserName>wsUsername</stac:UserName>

<!--Optional:-->

<stac:Password>wsPwd</stac:Password>

<!--Optional:-->

<stac:SRIManifestRequest>

<stac:DateTime>2013-03-30T11:00:00</stac:DateTime>

<!--Optional:-->

<stac:ReceiverID>CTLPB</stac:ReceiverID>

<!--Optional:-->

<stac:Truck>

<stac:TruckType>B</stac:TruckType>

<!--Optional:-->

<stac:TruckReference type="REGO">VNQ929</stac:TruckReference>

<!--Optional:-->

<stac:MSICNumber></stac:MSICNumber>

<stac:TruckAttachment>N</stac:TruckAttachment>

<!--Optional:-->

<stac:Containers>

<!--Zero or more repetitions:-->

<stac:SRIContainer>

<stac:VBSERNID>70518</stac:VBSERNID>

<!--Optional:-->



<stac:ContainerNumber>CONT111123</stac:ContainerNumber>

<!--Optional:-->

<stac:ISO>22G1</stac:ISO>

<stac:Position>1</stac:Position>

<stac:Door>ANY</stac:Door>

<!--Optional:-->

<stac:Attachments>

<!--Zero or more repetitions:-->

<stac:Attachment></stac:Attachment>

</stac:Attachments>

<!--Optional:-->

<stac:TrailerPosition>2</stac:TrailerPosition>

<!--Optional:-->

<stac:TrailerSlotPosition>1</stac:TrailerSlotPosition>

</stac:SRIContainer>

<stac:SRIContainer>

<stac:VBSERNID>70518</stac:VBSERNID>

<!--Optional:-->

<stac:ContainerNumber>CONT111124</stac:ContainerNumber>

<!--Optional:-->

<stac:ISO>22G1</stac:ISO>

<stac:Position>2</stac:Position>

<stac:Door>ANY</stac:Door>

<!--Optional:-->

<stac:Attachments>

<!--Zero or more repetitions:-->

<stac:Attachment></stac:Attachment>

</stac:Attachments>

<!--Optional:-->



<stac:TrailerPosition>2</stac:TrailerPosition>

<!--Optional:-->

<stac:TrailerSlotPosition>3</stac:TrailerSlotPosition>

</stac:SRIContainer>

#### </stac:Containers>

</stac:Truck>

- <!--Optional:-->
- <stac:SMSDetails>

<stac:Flag>false</stac:Flag>

<!--Optional:-->

<stac:Mobile></stac:Mobile>

<!--Optional:-->

<stac:SMSText></stac:SMSText>

</stac:SMSDetails>

</stac:SRIManifestRequest>

</stac:CreateStackRunInManifest>

</soap:Body>

</soap:Envelope>

## 11.5 Sample Accepted Stack Run In Manifest Response XML

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<soap:Body>

<CreateStackRunInManifestResponse xmIns="http://vbs.1stop.biz/VBSWebservices/StackRunInManifest">

<CreateStackRunInManifestResult>

<DateTime>2013-03-25T14:22:50.6604985+11:00</DateTime>

<Status>ACCEPTED</Status>

<Truck>



<MovementID>481727</MovementID>

<PIN>1985</PIN>

<RunNumber>655</RunNumber>

<Containers>

<SRIRContainer>

<VBSERNID>70518</VBSERNID>

<ContainerNumber>CONT111122</ContainerNumber>

<TimeSlotID>11J006508</TimeSlotID>

<PRA>

<Status>ACCEPTED</Status>

</PRA>

</SRIRContainer>

</Containers>

</Truck>

</CreateStackRunInManifestResult>

</CreateStackRunInManifestResponse>

</soap:Body>

</soap:Envelope>

### 11.6 /Sample Rejected Stack Run In Manifest Response XML

<soap:Envelope xmlns:soap="https://www.w3.org/2003/05/soap-envelope" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="https://www.w3.org/2001/XMLSchema">

<soap:Body>

<CreateStackRunInManifestResponse xmlns="https://vbs.1stop.biz/VBSWebservices/StackRunInManifest">

<CreateStackRunInManifestResult>

<DateTime>2010-07-01T16:33:17.5394037+10:00</DateTime>

<Status>REJECTED</Status>



<Truck>

<Containers>

<SRIRContainer>

<VBSERNID>0</VBSERNID>

<ContainerNumber> C S Q U 3 0 5 4 3 8 3</ContainerNumber>

</SRIRContainer>

</Containers>

</Truck>

<Errors>

<Error>

<ErrorCode>1006</ErrorCode>

<ErrorDescription>VBSERNID does not exist.</ErrorDescription>

</Error>

</Errors>

</CreateStackRunInManifestResult>

</CreateStackRunInManifestResponse>

</soap:Body>

</soap:Envelope>



## **12 APPENDIX - TRUCKTYPE IMAGES**

## A=A-Double



## **B=B-Double**

	Traile	erPosition 2	Trai	lerPosition 1	
TrailerSlotPosition	3	2	1	1	
	(20')	(20' or 40')	(20')	(20')	
	000	V	000	00	×()

## C=Light Super B Double

		TrailerPositio	n 2	Tra	ilerPosition 1	
TrailerSlotPosition	3	2	1	3	2	1
	(20')	(20' or 40')	(20')	(20')	(20' or 40')	(20')
	66		10	/©	V	

D=Dog Trailer		
	TrailerPosition 2	TrailerPosition 1
TrailerSlotPosition	1 (20')	1 (20')

## E=Rigid 20

TrailerSlotPosition





# H=Side Loader TrailerSlotPosition TrailerSlotPosition TrailerSlotPosition

## K=Drop Deck

	TrailerPosition 1					
TrailerSlotPosition	3	2	1			
	(20')	(20' or 40')	(20')			
	000		- 00			

	TrailerPosition 1
TrailerSlotPosition	3 2 1 (20') (20' or 40') (20')

O=Other	
	TrailerPosition 1
TrailerSlotPosition	3 2 1 (20') (20' or 40') (20')



P=	=B Triple								
	TrailerPosition	3	Tra	ailerPosition 2		Trail	erPosition 1		
<mark>3</mark> (20')	<mark>2</mark> (20' or 40')	<mark>1</mark> (20')	<mark>3</mark> (20')	<mark>2</mark> (20' or 40')	1 (20')	<mark>3</mark> (20')	<mark>2</mark> (20' or 40')	1 (20')	
66	<b>(</b>	100	00		100	<b>0</b> 0 <sup>7</sup>		100×	

## R=Road Train

	TrailerPosition 3		TrailerPosition 2			Tra	ilerPosition 1		1
<b>3</b> (20')	<mark>2</mark> (20' or 40')	1 (20')	<b>3</b> (20')	<mark>2</mark> (20' or 40')	1 (20')	<b>3</b> (20')	<mark>2</mark> (20' or 40')	1 (20')	
		/00		(20 01 10)	700		(20 01 10)		

## S=Heavy Super B Double

		TrailerPosition 2		TrailerPosition 1			
TrailerSlotPosition	3	2	1	3	2	1	
	(20')	(20' or 40')	(20')	(20')	(20' or 40')	(20')	
		6	V 100	<b>0</b> 0 <sup>7</sup>	¥	00	

## T=Semi Trailer



# V=B Double alternate TrailerSlotPosition TrailerSlotPosition TrailerOsition 2 TrailerPosition 2 TrailerPosition 1 TrailerOsition 2 TrailerOsition 2 TrailerOsition 1 TrailerOsition 2 TrailerOsi