Voice WMS Integration Guide (2011.2)

WMS Voice Integration Transaction Data Messages for 2011.2

Prepared by

Brad Wagner - Hardware Integration Engineer (brad.wagner@jda.com)
Adam Pouchert (adam.pouchert@redprairie.com)

Date Created

06/28/2012

Version 1.0

Table of Contents

Summary

The primary purpose of this document is to provide detailed information for the various voice transactions used for the RedPrairie Warehouse Management (WM) software. This document is written based on the 2011.1 release of the WM product.

This document is broken into nine parts. Part 1 - Voice Transaction Overview; this is a high level explanation of how a data message should be formatted and how the RedPrairie host is setup to handle the data communication. Part 2 – Core setup messages; these are needed to sign on and sign off, and setup vehicle, current location, and work area. The remaining sections are detailed walk through of each transaction they are grouped by WMS functionality (Selection, distribution, put away, replenishment, loading and cycle counting)

1. Voice Command Structure

The following is a brief overview of how the RedPrairie server is configured to handle voice events:
All voice events are device triggered and are sent in the form of a CSV text event from the terminal to the WM application server. A Connection Manager on the server listens for the incoming messages from the voice terminals on a particular port and properly identifies the inbound Integrator voice event and is passed to Integrator for handling.
Integrator maps the inbound data to transaction fields. It then calls a retrieval method (typically a moca command) to process the data in those fields, run queries against the database, and return results. Finally, it takes the command results and (in most cases) formats/generates an output message to return those results to the terminal.

1.1 WM Application Server Port setup

A RedPrairie host properly setup for voice will have 2 listening voice connection managers setup:
CONMGR_VOC_CONMGR - is the primary voice listening port. This can be referred to as the 2-way port, or the LUT port in this and other documentation. All voice messages that require a response are sent through this connection on the WM application server. It defaults to port 4200 but is configurable by the application to be any available port on the system. When the terminal sends a message to this port, it remains open while the application processes the message, and a response message is returned to the terminal and the port is closed.
CONMGR_VOC_CONMGR_ODR - is the secondary voice listening port. This may be referred to as the 1-way port, or the ODR port in this and other voice documents. This port is designed for 1-way status update messages sent from the terminal. The connection manager will respond with a single character ("R") to the device to indicate the message was properly received by the port. The default value for this port is 4202.

1.2 Voice Data Message Structure

1.2.1 Inbound Messages
The inbound messages themselves consist of a unique Segment Identifier referred to in the tables below as Transaction ID followed by a set series of comma separated values which will map to the corresponding data elements of the transaction. The first elements are typically the same and include a time stamp, a terminal identifier sending the message, and a Login ID corresponding to the operator currently using the terminal. Additional elements vary per transaction and are detailed in the tables below. The transaction will terminate with a carriage return (<CR> or ASCII character 0x0D) and 2 line feed characters (<LF> or ASCII character 0x0A).
1.2.2 Inbound Message Example
prTaskLUTTransactionID,MM-DD-YY HH:MM:SS, Terminal_ID, Operator, Field1, Field2, Field3, Field4<CR><LF><LF>

1.2.3 Response Messages
Response messages do not have an identifier as the socket remains opens until the response is sent back to the terminal that requested it. Each field in the response will be comma separated, and typically each response ends with an Error Code value and an Error Message. Any string elements will be sent in double quotation marks, and any number elements will be sent without the quotes. If a response message returns more than one data record, a carriage return character followed by a line feed character will be used as a record separator (<CR><LF>). The message transmission terminates with two sequential record separators in a row (<CR><LF><CR><LF>)
1.2.4 Response Message Example
"Record1_String1",Record1_Number2,Record1_Number3,"Record1_String4", Record1_Error_code,"Record1_Error Message",<CR><LF>"
Record2_String1", Record2_Number2,Record2_Number3,"Record2_String4",Record2_Error_code, "Record2_Error Message",
<CR><LF><CR><LF>

2. Core Setup Messages

Core Setup messages are used to setup the voice terminal, sign the user into (or out of) the RedPrairie system The will also setup equipment and location information needed by the user, in addition to providing key data on the voice devices for printers and discrepancy codes that may be needed during the course of working.

2.1 Get Config (SAL_VOC_GET_CONFIG)

The Get Config message is the first message sent from the terminal to WMS server to initiate a voice connection. This message sets up site wide parameters used the language code, site name, and Voice Code version the device is connecting with.
2.1.1 Get Config Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction identifier	String	30	prTaskLUTCoreConfiguration
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	**LANG_CD**	Language Code	String	5	Voice Language Code – defined in WMS Locale, typically en_US

6	SITE	Site	String	30	Not currently used – currently Default
7	TASK_VERSION	Voice Code Version	String	20	Current RP Voice Software version information should be provided for troubleshooting and logging.

MOCA command – "get voice configuration"

2.1.2 Get Config Event Output

#	EO Field	Comment	Type	Size	Description
1	CUST_NAME	Customer Name	String	100	VoiceWelcomeMsg nls text - should be spoken to the user during sign on message. E.g. "Welcome to the {Customer Name} system"
2	OPERATOR	Login ID	String	30	Login ID mirrored back to the user
3	CONFIRM_PASSWORD	Confirm Password	Number	1	A flag to indicate whether the device should confirm the operators spoken password back to them (e.g. ABC123 correct?) before sending the sign On message: 0 - do not confirm (no password echo) 1 - always confirm spoken password 2 - only confirm for new user or after a password change
4	START_LOC_PROMPT	Prompt for Starting Location	Number	1	Should the operator be prompted for their starting location (needed for labor travel time to first assignment) 0 - no starting location prompt 1 - prompt operator for starting location
5	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
6	ERROR_DESCR	Message	String	255	empty unless error code is present

2.1.3 Get Config Example

Inbound Event:

prTaskLUTCoreConfiguration,06-18-10 16:45:21,012345678,SUPER,en_US, Default,RP_XYZ02.04-147<CR><LF><LF>

Outbound Response:

"RedPrairie Voice","",0,1,0,"",<CR><LF><CR><LF>

2.2 Get Valid Indirect Activities (SAL_VOC_GET_VALID_INDACT_TYPES)

This transaction is used to retrieve the valid indirect activity codes (e.g. break codes) that are available to the user to call during the course of their work assignment.

2.2.1 Get Valid Indirect Activities Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction Identifier	String	30	prTaskLUTCoreBreakTypes
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID

MOCA command – "get voice indirect activity codes"

2.2.2 Get Valid Indirect Activities Event Output

#	EO Field	Comment	Type	Size	Description
1	IND_ACTCOD	Indirect Activity Code	Number	1	Voice ID number for the break type
2	IND_ACTCOD_DESCR	Indirect Activity Description	String	255	descriptive text tied to the number that the device will repeat back for the user to confirm the code the selected was correct

3	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
4	ERROR_DESCR	Error Message	String	255	empty unless error code is present

2.2.3 Get Valid Indirect Activities Example

Inbound Event:
prTaskLUTCoreBreakTypes,06-18-10 16:45:21,012345678,SUPER<CR><LF><LF>
Outbound Response:
1,"lunch",0,"",<CR><LF>2,"15 minute break",0,""<CR><LF><CR><LF>
Note: If the WMS is not tied into the labor tracking system and/or breaks are not being used, this response can be one empty record, e.g.:
,"",0,"",<CR><LF><CR><LF>

2.3 Process Sign On (SAL_VOC_PRC_SIGN_ON)

The device sends this message to the host to validate the operator's password, and login the user to the WMS system.

2.3.1 Process Sign On Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction identifier	String	30	prTaskLUTCoreSignOn
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	20	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	**PASSWORD**	Password	Number	60	Password of Operator

MOCA command – "process voice sign on"

2.3.2 Process Sign On Event Output

#	EO Field	Comment	Type	Size	Description
1	INTERLEAVE	Interleave	Number	1	This allows the host system to change the function an operator is performing after each completed task. (not currently supported) 1 - enabled 0 - disabled (default)
2	ERROR_CODE	Error Code	Number	10	0 - no error 2 - This terminal still has inventory on it. Proceed straight to delivery to deliver each assignment before continuing with sign on 1. 1. 1. -
3	ERROR_DESCR	Message	String	255	empty unless error code is present

2.3.3 Process Sign On Example

Inbound Event:
prTaskLUTCoreSignOn,06-18-10 16:45:21,012345678,SUPER,012<CR><LF><LF>
Outbound Response:
0,0,"",<CR><LF><CR><LF>

2.4 Process Current Location (SAL_VOC_PRC_CUR_LOC)

This message obtains the operator's current location before he or she begins work. This is only needed for labor tracking if the user's travel time to their first assignment needs to be recorded. This message can be disabled in a system policy if the starting location is not required.

2.4.1 Process Current Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction identifier	String	30	prTaskLUTVerifyLocation
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss

3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	VOICE_APPLICATION_ID	Voice Application ID	String	1	Always = 1
6	**LOC_NUM**	Location	String	100	The location the operator stated was his or her starting location. Only sent if the Starting Location flag was set in the Configuration message.
7	**LOC_CHK**	Check Digit	String	3	The check digit for the operator's starting location. Null if the location was scanned rather than spoken

MOCA command – "process voice current location"

2.4.2 Process Current Location Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
2	ERROR_DESCR	Error Message	String	255	empty unless error code is present

2.4.3 Process Current Location Example

Inbound Event:
prTaskLUTVerifyLocation,06-18-10 16:45:21,012345678,SUPER,B123,789<CR><LF><LF>
Outbound Response:
0,"",<CR><LF><CR><LF>

2.5 Get Printers (SAL_VOC_GET_PRINTERS)

This message is called at the start of voice picking to retrieve a list of valid printers from the host server. These printers will be called later if the user needs to print assignment labels. In certain circumstances, this message can also be called in the selection logic if the user needs to update this printer list before label printing.

2.5.1 Get Printers Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction Identifier	String	30	prTaskLUTValidPrinters
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment Identifier	String	100	This is the Assignment ID value returned in the **Get Assignment** message for this group of assignments. This will be Null for the initial sign-in call.
6	WORK_ID	Work Identifier	String	100	This is the Work ID that uniquely identifies a piece of work within an assignment. This is originally returned in the host response to the **Get Assignment** message. It will be null if printing labels for all assignments. Will be null if this is the first time this message is sent (after Option is specified), as no work has been assigned
7	**LABEL_COUNT**	Number of Labels	String	1	The number of labels spoken by operator. Only used when the Print Labels field in the host response to the **Picking Option** message is set to 3. This value is null if Print Labels is not set to 3.

MOCA command – "process voice label count; get voice printers"

2.5.2 Get Printers Event Output

#	EO Field	Comment	Type	Size	Description
1	PRINTER_NUMBER	Printer Number	Number	2	Numeric identifier for the printer
2	PRINTER	Printer	String	50	Spoken Name of the printer

3	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
4	ERROR_DESCR	Error Message	String	255	empty unless error code is present

2.5.3 Get Printers Example

Inbound Event:
prTaskLUTValidPrinters,06-18-10 16:45:21,012345678,SUPER,,,<CR><LF><LF>
Outbound Response:
"1","Dock Door 1 Printer","0","",<CR><LF>"2","Receiving Printer","0","",<CR><LF><CR><LF>

2.6 Get Vehicle Types (SAL_VOC_GET_VEH_TYP)

The device sends this message to retrieve all the valid vehicle types that the operator can attempt to sign into. Actual vehicle type eligibility determinations are done after the user selects one of the available vehicles in this list.

2.6.1 Get Vehicle Type Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	30	prTaskLUTCoreValidVehicleTypes
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	VOICE_APPLICATION_ID	Voice Application Identifier	Number	1	Allows host to send only valid vehicles that apply to the task the worker is signed in to do. 0 - All applications (default) 1 - Picking 2 - Replenishment 3 - Trailer loading

MOCA command – "list voice vehicle types"

2.6.2 Get Vehicle Type Event Output

#	EO Field	Comment	Type	Size	Description
1	VEH_TYP_TXT	Vehicle Type Code	Number	2	Unique vehicle type code that the operator must speak to request this vehicle type.
2	VEH_TYP_DESCR	Vehicle Type Description	String	100	A descriptive name for the vehicle type, such as "single pallet jack". The device says this name to confirm that the operator is requesting the appropriate vehicle type
3	CAPTURE_VEH_ID	Capture Vehicle ID Flag	Number	1	This flag determines if the application prompts the operator to specify a Vehicle ID for this vehicle type. 1 = yes 0 = no
4	ERR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
5	ERR_DESCR	Error Message	String	255	empty unless error code is present

2.6.3 Get Vehicle Type Example

Inbound Event:
prTaskLUTCoreValidVehicleTypes,06-18-10 16:45:21,012345678,SUPER,0 <CR><LF><LF>
Outbound Response:
1,"Handheld",0,0,"",<CR><LF>2,"Pallet Jack",0,0,"",<CR><LF>3,"Fork Lift Truck",0,0,"",<CR><LF>4,"Man Up Lift",0,0,"",<CR><LF>5,"Automatic Storage Retrieval System",0,0,"",<CR><LF><CR><LF>

2.7 Process Vehicle (SAL_VOC_PRC_VEH)

This transaction will provide the vehicle type choice the user made as well as the Vehicle ID (if required) to the host system. The response

message can also contain multiple safety checklist questions for the particular vehicle type that the operator needs to perform.

2.7.1 Process Vehicle Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	30	prTaskLUTCoreSendVehicleIDs
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	**VEH_TYP_TXT**	Vehicle Type Code	String	4	Spoken Vehicle Type code choice (from operator)
6	VEH_ID	Spoken Vehicle ID	String	10	The spoken Vehicle ID value (if required) from the operator

MOCA command – "process voice vehicle"

2.7.2 Process Vehicle Event Output

#	EO Field	Comment	Type	Size	Description
1	SAFETY_CHECK	Safety Check Description	String	255	A descriptive name for the safety check(s). The device speaks exactly what appears here, ex: "Tire pressure?"
2	ERROR_CODE	Error Code	Number	10	0 - no error 10288 - invalid vehicle type 1. 1. 1. -
3	ERROR_DESCR	Error Message	String	255	empty unless error code is present

2.7.3 Process Vehicle Example

Inbound Event:
prTaskLUTCoreSendVehicleIDs,06-18-10 16:45:21,012345678,SUPER,3,<CR><LF><LF>
Outbound Response:
"",0,"",<CR><LF><CR><LF>
Outbound Response showing safety checklist:
"Brakes Working?",0,""<CR><LF>"Lights Working?",0,""<CR><LF>"Horn Working?",0,""<CR><LF>"Hydraulics Functional?",0,""<CR><LF>"Tires OK?",0,""<CR><LF><CR><LF>

2.8 Process Safety Checklist (SAL_VOC_PRC_SFTY_CHK)

This message is only sent if there were safety checklist questions returned with the process vehicle message. The operator will be asked each question 1 at a time. If all the tests pass, a message is sent back indicating all tests passed. If any tests fail, the first failure is sent back along with any repair data (If a quick repair was done)

2.8.1 Process Safety Checklist Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	30	prTaskLUTSendSafetyCheckList
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	**YES_TO_ALL**	Operator has said yes to all safety checks	Number	1	Operator has said yes to all safety checks. 0 = no 1 = yes
6	FAILURE	Failure	String	50	Name of the failed test. This field will contain the name of the failed test, such as "horn" or "brake pads." This field will be blank if all tests passed.
7	REPAIR_ACTION	Repair Action	Number	1	Type of repair action requested by the operator. 0 = no action 1 = quick repair 2 = new equipment This field will be blank if all tests passed

MOCA command – "process voice safety checklist"

2.8.2 Process Safety Checklist Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	0 - no error **1.** **1.** **1.** -
2	ERROR_DESCR	Message	String	255	empty unless error code is present

2.8.3 Process Safety Checklist Example

Inbound Event:
prTaskLUTSendSafetyCheckList,06-18-10 16:45:21,012345678,SUPER,1,"",0,<CR><LF><LF>
Outbound Response:
0,"",<CR><LF><CR><LF>

2.9 Valid Functions (SAL_VOC_PRC_VALID_FUNCTIONS)

This transaction returns different work functions that are available for the user to choose when they login into the system. (picking, replenishment, cycle counting, etc.)

2.9.1 Valid Functions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	30	prTaskLUTCoreValidFunctions
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	VOICE_APPLICATION_ID	Voice application identifier	Number	1	In the future, this field will allow the voice application to lock down the choices that are returned with the valid functions response message. 0 - All applications (default) 1 - Picking 2 – Distribution 3 – Replenishment 4 – Putaway 5 – Cycle Counting 6 - Trailer loading

MOCA command – "get voice valid functions"

2.9.2 Valid Functions Event Output

#	EO Field	Comment	Type	Size	Description
1	FUNCTION_NUMBER	Function Number	Number	2	the function number the user will speak to pick the appropriate function
2	FUNCTION_NAME	Function Name	String	100	description text for the appropriate function
3	ERROR_CODE	Error Code	Number	10	0 - no error **1.** **1.** **1.** -
4	ERROR_DESCR	Error Message	String	255	empty unless error code is present

2.9.3 Valid Functions Example

Inbound Event:
prTaskLUTCoreValidFunctions,06-18-10 16:45:21,012345678,SUPER,0<CR><LF><LF>
Outbound Response:
1,"Picking",0,"",<CR><LF>2,"Distribution",0,"",<CR><LF>3,"Replenishment",0,"",<CR><LF>4,"Putaway",0,"",<CR><LF>5,"Cycle Counting",0,"",<CR><LF>6,"Loading",0,"", <CR><LF><CR><LF>

2.10 Get Discrepancy Types (SAL_VOC_GET_DISCR_TYP)

This message is used to send valid values for assets (if asset tracking is enabled), and any valid discrepancy codes available to the operator during picking (cancel codes, short codes, skip codes, etc.) This list will be reference later by the operator should they need to perform any of these tasks.

2.10.1 Get Discrepancy Types Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction identifier	String	30	prTaskLUTLookupValues
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	TASK_ID	Task ID	String	30	Not Used, Always 1

MOCA command – "list voice code descriptions"

2.10.2 Get Discrepancy Types Event Output

#	EO Field	Comment	Type	Size	Description
1	DSCRP_TYPE	Discrepancy Type	String	2	1 = Asset Type 2 = Cancel Pick Discrepancy Type 3 = Short to Zero Discrepancy Type 4 = Skip Slot Discrepancy Type
2	DSCRP_VAL	Discrepancy Value	Number	2	unique numerical value spoken by the operator to confirm the discrepancy or asset choice
3	DESCR_TYP_DESCR	Discrepancy Description	String	100	description read to the user for the particular code
4	ERROR_CODE	Error Code	Number	10	0 - no error **1.** **1.** **1.** -
5	ERROR_DESCR	Message	String	255	empty unless error code is present

2.10.3 Get Discrepancy Types Example

Inbound Event:

prTaskLUTLookupValues,06-18-10 16:45:21,012345678,SUPER,1<CR><LF><LF>

Outbound Response:

"02",1,"Cancel and Topoff",0,"",<CR><LF>"02",2,"Cancel and Replenish",0,"",<CR><LF>"02",3,"Cancel No Reallocation",0,"",<CR><LF>"02",4,"Cancel and Realloc",0,"",<CR><LF>"02",5,"Cancel and Realloc - Reuse Location",0,"",<CR><LF>"02",7,"Cancel for Close work order",0,"",<CR><LF>"03",1,"Short to zero",0,"",<CR><LF>"04",1,"Skip slot",0,"",<CR><LF><CR><LF>

2.11 Process Sign Off (SAL_VOC_PRC_SIGN_OFF)

This message is sent by the terminal whenever the operator has requested to sign off of the voice terminal. This will sign the user out of the RedPrairie WMS

2.11.1 Process Sign Off Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction identifier	String	40	prTaskLUTCoreSignOff
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID

MOCA command – "process voice sign off"

2.11.2 Process Sign Off Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error code	Number	10	2 - inventory still on device, force user to deliver it first. 99 - user signed off successfully - this is a clean signoff, no error message is returned.
2	ERROR_DESCR	Error Message	String	255	empty unless error code is present (except 99)

2.11.3 Process Sign Off Example

Inbound Event:
prTaskLUTCoreSignOff,06-18-10 16:45:21,012345678,SUPER<CR><LF><LF>
Outbound Response:
99,"",<CR><LF><CR><LF>

3. Core Selection Messages

Core Selection messages constitute the most used fundamental picking messages needed to perform standard picking operations on the voice terminal. Retrieval of the assignment, setting up pick to containers, getting the pick list, sending pick updates to the host and delivering the assignment

3.1 Get UDIA Translations (SAL_VOC_GET_TRANSLATIONS)

The device sends this message to retrieve all the mls text for the inventory attributes including the variable text information for the 20 User Defined Inventory Attributes (UDIA) which were added in 2010.2. This information is sent right away once when Selection is first entered. These are stored on the device and recalled as needed during picking. This avoids sending the mls text with each pick transaction and cleans up some fields there.

3.1.1 Get UDIA Translations Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	40	prTaskLUTTranslations
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID

MOCA command – "get voice item attribute translations"

3.1.2 Get UDIA Translations Event Output

#	EO Field	Comment	Type	Size	Description
1	LOTNUM_PROMPT	Lot Number Prompt	String	50	Text Spoken at Lot Number Prompt
2	REVISION_PROMPT	Revision Level Prompt	String	50	Text Spoken at Revision Level Prompt
3	ORIGIN_PROMPT	Origen Code Prompt	String	50	Text Spoken at Country of Origin Prompt
4	SUPPLIER_PROMPT	Supplier Prompt	String	50	Text Spoken at Supplier Prompt
5	SUP_LOTNUM_PROMPT	Supplier Lot Number Prompt	String	50	Text Spoken at Supplier Lot Number Prompt
6	MANDTE_PROMPT	Manufacture Date Prompt	String	50	Text Spoken at Manufacture Date Prompt
7	EXPIRE_DTE_PROMPT	Expiration Date Prompt	String	50	Text Spoken at Expiration Date Prompt
8	RTTN_ID_PROMPT	Rotation ID Prompt	String	50	Text Spoken at Rotation ID Prompt
9	INV_ATTR_STR1_PROMPT	Inventory Attribute String 1 Prompt	String	50	Text Spoken at user defined String 1 Prompt
10	INV_ATTR_STR2_PROMPT	Inventory Attribute String 2 Prompt	String	50	Text Spoken at user defined String 2 Prompt
11	INV_ATTR_STR3_PROMPT	Inventory Attribute String 3 Prompt	String	50	Text Spoken at user defined String 3 Prompt
12	INV_ATTR_STR4_PROMPT	Inventory Attribute String 4 Prompt	String	50	Text Spoken at user defined String 4 Prompt
13	INV_ATTR_STR5_PROMPT	Inventory Attribute String 5 Prompt	String	50	Text Spoken at user defined String 5 Prompt
14	INV_ATTR_STR6_PROMPT	Inventory Attribute String 6 Prompt	String	50	Text Spoken at user defined String 6 Prompt
15	INV_ATTR_STR7_PROMPT	Inventory Attribute String 7 Prompt	String	50	Text Spoken at user defined String 7 Prompt
16	INV_ATTR_STR8_PROMPT	Inventory Attribute String 8 Prompt	String	50	Text Spoken at user defined String 8 Prompt

17	INV_ATTR_STR9_PROMPT	Inventory Attribute String 9 Prompt	String	50	Text Spoken at user defined String 9 Prompt
18	INV_ATTR_STR10_PROMPT	Inventory Attribute String 10 Prompt	String	50	Text Spoken at user defined String 10 Prompt
19	INV_ATTR_INT1_PROMPT	Inventory Attribute Integer 1 Prompt	String	50	Text Spoken at user defined Integer number 1 Prompt
20	INV_ATTR_INT2_PROMPT	Inventory Attribute Integer 2 Prompt	String	50	Text Spoken at user defined Integer number 2 Prompt
21	INV_ATTR_INT3_PROMPT	Inventory Attribute Integer 3 Prompt	String	50	Text Spoken at user defined Integer number 3 Prompt
22	INV_ATTR_INT4_PROMPT	Inventory Attribute Integer 4 Prompt	String	50	Text Spoken at user defined Integer number 4 Prompt
23	INV_ATTR_INT5_PROMPT	Inventory Attribute Integer 5 Prompt	String	50	Text Spoken at user defined Integer number 5 Prompt
24	INV_ATTR_FLT1_PROMPT	Inventory Attribute Float 1 Prompt	String	50	Text Spoken at user defined decimal number 1 Prompt
25	INV_ATTR_FLT2_PROMPT	Inventory Attribute Float 2 Prompt	String	50	Text Spoken at user defined decimal number 2 Prompt
26	INV_ATTR_FLT3_PROMPT	Inventory Attribute Float 3 Prompt	String	50	Text Spoken at user defined decimal number 3 Prompt
27	INV_ATTR_DTE1_PROMPT	Inventory Attribute Date 1 Prompt	String	50	Text Spoken at user defined date 1 Prompt
28	INV_ATTR_DTE2_PROMPT	Inventory Attribute Date 2 Prompt	String	50	Text Spoken at user defined date 2 Prompt
29	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
30	ERROR_DESCR	Description	String	255	empty unless error code is present

3.1.3 Get UDIA Translations Example

Inbound Event:

prTaskLUTTranslations,06-18-10 16:45:41,012345678,SUPER<CR><LF><LF>

Outbound Response:

"Lot","Revision Level","Origin Code","Supplier Number","Supplier Lot Number","Manufacture Date","Expiration Date","Rotation ID","Inventory Attribute Text 1","Inventory Attribute Text 2","Inventory Attribute Text 3","Inventory Attribute Text 4","Inventory Attribute Text 5","Inventory Attribute Text 6","Inventory Attribute Text 7","Inventory Attribute Text 8","Inventory Attribute Text 9","Inventory Attribute Text 10","Inventory Attribute Number 1","Inventory Attribute Number 2","Inventory Attribute Number 3","Inventory Attribute Number 4","Inventory Attribute Number 5","Inventory Attribute Decimal 1","Inventory Attribute Decimal 2","Inventory Attribute Decimal 3","Inventory Attribute Date 1","Inventory Attribute Date 2",0,"",<CR><LF><CR><LF>

3.2 Get Work Areas (SAL_VOC_GET_WRKARE)

The device sends this message to retrieve all the work areas available for the operator to choose from. A work Area choice is required and will dictate where in the warehouse the work will be performed.

3.2.1 Get Work Areas Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	30	prTaskLUTGetWorkAreas
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	FUNCTION_NUMBER	Selected Function	Number	2	The WMS function number that the operator specified (in the future will limit work areas returned to those related to the chosen function)

MOCA command – "list voice work areas"

3.2.2 Get Work Areas Event Output

#	EO Field	Comment	Type	Size	Description
1	WORK_AREA_NUMBER	Work Area Voice Code	Number	10	Unique numerical work area voice code spoken by the user (and passed to the WMS) to confirm their work area choice.
2	WORK_AREA_DESCR	Work Area Description	String	255	Work Area Description corresponding to the chosen voice code
3	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -

4	ERROR_DESCR	Message	String	255	empty unless error code is present

3.2.3 Get Work Area Example

Inbound Event:
prTaskLUTGetWorkAreas,06-18-10 16:45:21,012345678,SUPER,6<CR><LF><LF>
Outbound Response:
1,"Area 1",0,"",<CR><LF>2,"Loading Docks",0,"",<CR><LF>3,"Case Pick Area 1",0,"",<CR><LF>4,"Each Pick Area 1",0,"",<CR><LF>5,"Bulk Cluster Pick Area",0,"",<CR><LF><CR><LF>

3.3 Get Work Options (SAL_VOC_GET_WRKOPT)

The message returns the available work options the operator is allowed to perform for the selected function. These are also sometimes referred to as Region Permissions for Work Type. For instance, if the function is selection, the user can to List Picking, Directed Picking, Cluster Picking, etc. This transaction also provides the operator chosen Work Area value back to the host.

3.3.1 Get Work Options Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	**TRAN_ID**	Transaction ID	String	40	prTaskLUTRegionPermissionsForWorkType
2	**DT**	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	FUNCTION_NUMBER	Selected Work Type (Function)	Number	2	Function the operator selected 3 - Normal Assignments 4 - Chase Assignments 6 - Normal and Chase Assignments
6	**SEL_WORK_AREA**	Selected Work Area	Number	10	Work area number the operator selected

MOCA command – "list voice work options"

3.3.2 Get Work Options Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Work Option Number	Number	10	Unique work option number that the operator must speak to request this option.
2	REGION_NAME	Work Option Name	String	100	A descriptive name for the option, such as "Directed Picking" or "Cluster Picking". The device says this name to confirm that the operator is requesting the appropriate option.
3	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
4	ERROR_DESCR	Error Message	String	255	empty unless error code is present

3.3.3 Get Work Options Example

Inbound Event:
prTaskLUTRegionPermissionsForWorkType,06-18-10 16:45:21,012345678,SUPER,6,1<CR><LF><LF>
Outbound Response:
1,"Cluster Picking",0,"",<CR><LF>2,"Directed Picking",0,"",<CR><LF>3,"Load Pick Transfer",0,"",<CR><LF>4,"Undirected Picking",0,"",<CR><LF>5,"List Picking",0,"",<CR><LF>6,"Bulk Cluster Picking",0,"",<CR><LF>7,"Conveyer Cluster Picking",0,"",<CR><LF><CR><LF>

3.4 Process Work Option (SAL_VOC_PRC_WRKOPT)

The message retrieves the Selection configurable parameters for the specified work option. The wms response to this message will return a series of flags to control exactly how the orders are to be picked. Some of these variables are here for legacy purposes. The actual logic was moved to the assignment message to give more control over these variables from pick assignment to pick assignment.

3.4.1 Process Work Option Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTPickingRegion
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number	10	Numerical Work Option (REGION_NUM) the operator selected.
6	FUNCTION_NUMBER	Selected Function	String	2	The WMS function number that the operator specified (not currently used or needed)

MOCA command – "process voice work option"

3.4.2 Process Work Option Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION	Work Option Number	Number	10	Work option number for which these parameters apply.
2	DESCRIPTION	Description	String	100	A descriptive name for the work option
3	ASSIGNMENT _TYPE	Assignment Type	Number	1	Type of assignment to which the settings apply. 1 = Normal assignments. 2 = Chase assignments.
4	AUTOASSIGN	Auto Assign	String	1	Determines whether operators may choose their own work when starting an assignment or the work is automatically given to them. 0 - undirected - the operator requests work by saying a work identifier (such as a List ID). 1 - directed - the system automatically assigns the operator the next available assignment.
5	MAX_NUM _WORK_ID	Number of Assignments Allowed	Number	10	Sets the maximum number of assignments on which an operator can work at one time. Non-cluster work this will be set to 1.
6	SKIP_AISLE _ALLOWED	Skip Aisle Allowed	String	1	Determines whether a user can choose to skip an aisle when picking an assignment. Users may want to skip an aisle, for example, if an aisle is blocked. The device sends operators back to pick skipped items at the end of the assignment, or the operator can say, "Repick Skips" at any point to pick those items if Allow Repick Skips is set to yes. 0 - (default) operators cannot skip aisles 1 - operators can skip aisles
7	SKIP_SLOT _ALLOWED	Skip Slot Allowed	String	1	Determines whether a user can skip a slot when picking an assignment in this region. Users may want to skip a slot, for example, if they can see that it is short but that someone will replenish it soon. The device sends operators back to pick skipped items at the end of the assignment, or the operator can say, "Repick Skips" at any point to pick those items if Allow Repick Skips is set to Yes. 0 - users cannot skip individual pick locations 1 - (default) users can skip individual pick locations
8	REPICK_SKIPS	Repick Skips allowed	String	1	Determines if a user can choose to pick skipped items at any time during an assignment. 0 - users cannot use the repick skips command 1 - (default) users can use the repick skips command
9	PRINT_LABELS	Print Labels	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Determines where label

					printing will occur 0 - no label printing 1 - device prompts the operator to print container labels at the beginning of the assignment or upon opening a new container. 2 - device prompts the operator to print container labels at the end of the assignment or upon closing a container. 3 -print labels at end of assignment and prompt operator to verify.
10	PRINT_CHASE _LABELS	Print Chase Labels	String	1	Determines whether a chase assignment should print labels. 0 - (default) no chase item labels. 1 - device prompts the operator to print chase item labels.
11	PICK_PROMPT	Pick Prompt	String	1	Determines the pick prompt that will be spoken by the device: 0 - Single Prompt. The device prompts the operator with the location and the quantity to pick in one prompt. 1 - Single Pick Prompt, Suppress Quantity 1. This prompt is the same as that for the single prompt except the quantity is assumed to be 1 if the device does not say otherwise. 2 - (default) Multiple Prompts. The device prompts the operator with the location and waits for the operator to confirm the pick location. The operator cannot continue until the appropriate response is provided to the device. Once the pick location is confirmed, the device prompts the operator with the quantity to pick.
12	SIGNOFF _ALLOWED	Signoff Allowed	String	1	Determines whether an operator can choose to sign off an assignment before completing and delivering the assignment. 0 - sign off not allowed until completing the current assignment. 1 - (default) user can sign off any time before completing the current assignment.
13	CONTAINER _TYPE	Container Type	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Specifies whether the operator is picking to containers. 0 - pick to no container 1 - pick to containers with auto-sum (bulk cluster pick) 2 - pick to containers without auto-sum of the full pick quantity (cluster pick)
14	DELIV_PREV _CONTAINER	Deliver Container at Close	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Determines whether to prompt the user to deliver the container when it is closed. 0 - no delivery prompt at container close. 1 - (default) prompt delivery information at container closing.
15	PASS_ASSIGN	Pass Assignment	String	1	Determines whether a user can choose to stop working on an assignment in the middle of it and pass the rest of that assignment on to another user for completion. 0 - (default) user cannot pass work. 1 - user can pass work. (set for pick and pass a.k.a. conveyor cluster)
16	DELIVERY	Delivery Prompt style	String	1	How to prompt the operator for delivery when assignment is complete 0 - device prompts with delivery location and generic text. Operator confirms with ready 1 - device prompts with delivery location and generic

					text. Operator confirms with check digit 2 - no delivery prompt 3 - device prompts with Position {position}, deliver {Spoken Container text} {LPN} to {delivery location}, {generic text}. Confirm delivery location, but if the Check Digit field is null, let operator say "ready". 4 - device prompts with custom delivery prompt as described in 3 and loops through all the records returned. The operator says "ready" to confirm.
17	QTY_VERIFY	Quantity Verification	String	1	Is the user required to verify the quantity picked 0 - user does not verify quantities. 1 - (default) user verifies quantities.
18	WORK_ID _LENGTH	Work ID Length	Number	10	This field is only used when a work option is configured to allow manual assignment issuance. It is used to specify how many digits of the work ID must be spoken for the operator to manually request an assignment. The spoken work ID is matched to either the entire or the last X digits of the work ID field. If -1 = operator must say entire length of work ID to manually request that work ID. (default) If X, where X is a number, operator must say X digits of work ID to request that work ID.
19	GO_BACK_FOR _SHORTS	Go Back for Shorts	String	1	Determines whether a user is directed to go back and pick shorted items. This field can be set to the following: 0 - (default) no go backs. 1 - go back for all shorted items. 2 - go back for replenished items only.
20	ORDER_PICKING	Allow Reverse Picking	String	1	Indicates whether the operator will be asked to choose the order of picking---forward or reverse. 0 - (default) do not ask operator 1 - ask operator This feature is not currently supported on the host side and is intended for future use if needed.
21	USE_LUT	Use LUT	String	1	Determines whether the device should send one-way or two-way messages while picking. One-way messages may be preferred if RF coverage is not sufficient in picking areas. 0 - (default) always use **Picked** one-way message. 2 - always use **Picked** two-way message.
22	CUR_PRE _AISLE_DIR	Current Pre-aisle	String	20	Sets the maximum length for the Pre-aisle Direction field in the **Get Picks** message.
23	CUR_AISLE	Current Aisle	String	20	Sets the maximum length for the Aisle field in the **Get Picks** message.
24	CUR_POST _AISLE_DIR	Current Post-aisle	String	20	Sets the maximum length for the Post Aisle Direction field in the **Get Picks** message.
25	CUR_SLOT	Current Slot	String	20	Sets the maximum length for the Slot field in the **Get Picks** message.
26	PRE_CREATE _CONTAINERS	Pre-Create Containers	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. 0 - (default) Don't prompt for number of labels. 1 - prompt for number of labels.
27	PROMPT _OPERATOR _FOR_CNTR_ID	Prompt Operator for Container ID	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Flag to indicate whether operator should record the container ID when a new container is opened. 0 - (default) Do not prompt the

					operator for the container ID, the system ID will be used as the container ID. 1 - Prompt the operator for the container ID.
28	ALLOW_MULT _OPEN _CONTAINERS	Allow Multiple Open Containers per Assignment	String	1	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Specifies whether the user is allowed to open a new container without closing the current container. 0 - (default) Allows only one container to be open at a time for each assignment. 1 - Allows multiple containers to be open at a time for each assignment.
29	SPOKEN_CNTR _VLDT _LENGTH	Spoken Container Validation Length	Number	2	Note: This value is here for legacy purposes and actually will get overwritten by the same value in the Get Assignment message. Specifies the number of digits an operator must speak when validating a container to put, close, or reprint labels.
30	PICK_BY_PICK _MODE	Pick by Pick mode	Number	1	Determines how many picks will be sent to the terminal at a time 0 - Full pick list for the assignment is sent. 1 - (default) Picks sent one (or more) at a time.
31	SPOKEN _WORK_ID	Spoken Work ID Prompt	String	50	This string is the text prompt name sent to the user when manually requesting work. (e.g. List ID, Work Reference, Case Number, Load Number, etc.)
32	ALLOW_CANCEL _PICK	Allow Cancel Pick	Number	1	Determines whether a user can cancel a pick. 0 - do not allow 1 - (default) allow
33	FILTER _DIRECTED _WORK	Filter Direct Work	Number	1	Determines whether, if using system directed work the user will be prompted for a Building, Work Zone and Aisle to filter the work request to a particular area. 0 = Do not use filtered work logic 1 = Use filtered work logic
34	SIMPLE_PUT _CONFIRMATION	Simple Put Confirmation	Number	1	Determines whether the host will validate that the spoken or scanned container value matches that of the assignment's position number. 0 = do not use simple put confirmation (user required to speak all or part of the put to LPN) 1 = use simple put confirmation (user will use carton position number to verify the put)
35	REQUEST_VALID _PRINTERS_FLG	Request Valid Printers	Number	1	Determines whether the system will request an updated list of valid printers before prompting the operator to specify a printer. 0 - do not request a list of printers - use the printer list that came down during sign on 1 - (default) request an updated list of printers before printing labels
36	ALLOW _DELIVER_NOW	Allow Deliver Now	Number	1	Determines whether the operator can request to deliver early by saying "deliver now". 0 - (default) do not allow 1 - allow
37	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
38	ERROR_DESCR	Message	String	255	empty unless error code is present

3.4.3 Process Work Option Example

Inbound Event:

prTaskLUTPickingRegion,06-18-10 16:45:21,012345678,SUPER,2,6<CR><LF><LF>

Outbound Response:

"2","DIRECTED",1,"1",1,"0","1","1","0","0","2","1","0","1","0","3","1",-1,"0","0","0","XXXXXXXXXXXXXXXXXXXX","XXXXXXXXXXXXXXXXXXXX","XXXXXXXXXXXXXXXXXXXX","XXXXXXXXXXXXXXXXXXXX","0","0","0",00,1,"Work Reference",1,0,1,1,0,0,"",<CR><LF><CR><LF>

3.5 Get Work (SAL_VOC_GET_WORK)

The message is called when the user is using non-system directed work. It is used to send the work ID manually requested by the user to the WMS to confirm the Work Reference they specified is available. The user will be allow to proceed if the work is available, or told to re-enter the work reference if it was not correct. In certain Work Regions (like Cluster picking) the user will be allowed to specify multiple work IDs until the work option - max num of work ids field is reached, or the user says "no more"

3.5.1 Get Work Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTRequestWork
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	WORK_ID_VAL	Work ID value	String	100	User's spoken or scanned work ID.
6	PARITAL_WORK _ID_FLG	Partial work ID flag	Number	1	This parameter notifies the host system whether the operator specified the whole work identifier value (this is typically scanned) or only part of the work identifier value (this is typically spoken). 0 - whole work identifier value 1 - partial work identifier value
7	WORK_ID_TYPE	Work ID type	Number	1	Type of assignment being requested sent from current work option message. 1 - Normal Assignments 2 - Chase Assignments Note: this will always be set to 1 for the profiles supported by the system. Chase picking is always performed via directed work picking, and this message is not sent when using system directed work.

MOCA command – "get voice work"

3.5.2 Get Work Event Output

#	EO Field	Comment	Type	Size	Description
1	WORK_ID	Work Identifier value	String	100	This value is blank unless the spoken/scanned work ID sent to the host matches to multiple work IDs in the host system. In this case, the host system should return a record for each matching work ID in this response.
2	ERROR_CODE	Error Code	Number	10	0 - No error 2 - informational - Speak the error message and continue 3 - This error informs system to quit prompting for additional work IDs. On receiving this error, the system will send the **Get Assignment** message. 4 - This error code is returned when the spoken/scanned work ID sent matches to multiple work IDs in the host system. On receiving this error, the operator can select one of the returned matches or specify a completely different work ID 10779 - work is assigned to another user 10824 - work for this carton has been acknowledged by another operator 10825 - the carton has already been completed 10826 - the pick have not been released for this kit 10742 - invalid List ID 10192 - invalid load number for work
3	ERROR_DESCR	Error Message	String	255	Empty unless the error code is non zero

3.5.3 Get Work Example

Inbound Event:

prTaskLUTRequestWork,12-09-09 17:12:22,012345678,SUPER,641,0,1<CR><LF><LF> Outbound Response:
"",0,"",<CR><LF><CR><LF>

3.6 Get Assignment (SAL_VOC_GET_ASGN)

The device sends get assignment to get details about the assignment, including how to use containers (if needed) how to setup the selection prompts, and how to deliver the work when finished. In directed work, this is the first message sent to get work on the terminal. Some messages here are duplicates of what was sent in the Get work option message. They were moved to the assignment message to control these variables on a assignment by assignment basis.

3.6.1 Get Assignment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	30	prTaskLUTGetAssignment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	**TERMINAL**	Terminal ID	String	40	Unique Device Identifier
4	**OPERATOR**	Login ID	String	30	Operator Login ID
5	MAX_ASSIGN_NUM	Maximum Number of Assignments Issuable	Number	10	During directed work, this is the number of assignments requested by the operator (typically 1), If not using directed work, this will be empty.
6	ASSIGNMENT_TYPE	Assignment Type	Number	1	Assignment Type 1 = Normal Assignments 2 = Chase Assignments
7	BUILDING_ID	Filtered Building	String	20	If the option is configured to get filtered work information, this will contain the building ID the operator provided. Otherwise, it is set to null.
8	WORK_ZONE_ID	Filtered Work Zone	String	20	If the option is configured to get filtered work information, this will contain the work zone spoken by the operator. Otherwise, it is set to null.
9	AISLE_ID	Filtered Aisle	String	10	If the option is configured to get filtered work information, this will contain the aisle spoken by the operator. Otherwise, it is set to null

MOCA command – "get voice assignment"

3.6.2 Get Assignment Event Output

#	EO Field	Comment	Type	Size	Description
1	ID	Assignment ID	String	100	Assignment identifier for the assignment that has been issued to this operator.
2	IS_CHASE	Is Chase	String	1	Identifies whether the assignment is a chase assignment. 0 - not a chase assignment 1 - is a chase assignment If multiple records are returned in this message, this value should be the same for every record.
3	WORK_ID	Work ID	String	100	Unique value to identify a single assignment within a group of assignments (identified by Assignment ID). This will match the Assignment ID if only one assignment is issued at a time.
4	WORK_ID_DESCR	Work ID Description	String	100	This is the description of the Work ID (within a group, even if the "group" consists of one assignment). This value is spoken in the assignment summary, various container dialogs, and the delivery prompt. The Work ID's description should be unique for each piece of work within a group; however, this is not required.
5	POSITION	Position	String	10	Numeric position where items for the work ID should be placed.
6	GOAL_TIME	Goal Time	String	10	Goal time (from labor system) in minutes for the work ID. If

					this value is > 0, it may be spoken at the assignment summary prompt.
7	ROUTE	Route		100	Route number for the work ID. Spoken during the summary prompt if provided
8	ACTIVE_CONTAINER	Active Target Container	String	10	Current Container number for the workID Internal variable; always 00
9	PASS_ASSIGN	Pass Assignment	String	1	Internal variable; always 0.
10	SUMMARY_PROMPT _TYPE	Summary Prompt Type	Number	1	Identifies what assignment summary to speak 0 - Default task prompt 1 - Skip Summary prompt (no summary) 2 - (default) Override default prompt with custom override text
11	OVERRIDE_PROMPT _TEXT	Override Prompt	String	255	The prompt to be spoken for assignment summary if Summary Prompt Type = 2 If this field is empty (i.e., a zero-length string) and Summary Prompt Type = 2, then the default assignment summary is spoken (as if Summary Prompt Type = 0).
12	SPOKEN_CONTAINER	Spoken Container	String	50	This will be spoken to the operator when being prompted for a container. When not provided, the operator will be prompted with "container ID".
13	SPOKEN_ASSET _PROMPT	Spoken Asset Prompt	String	30	This will be spoken to the operator when being prompted for an asset type. If not provided, the operator will be prompted with "asset type?"
14	PRINT_LABELS	Print Labels	String	1	Determines where label printing will occur . (overrides work option value) 0 - (default) no label printing 1 - device prompts the operator to print container labels at the beginning of the assignment or upon opening a new container. 2 - device prompts the operator to print container labels at the end of the assignment or upon closing a container. 3 -print labels at end of assignment and prompt operator to verify.
15	CONTAINER_TYPE	Container Type	String	1	Specifies whether the operator is picking to containers. (overrides work option value) 0 - pick to no container 1 - pick to containers with auto-sum (bulk cluster pick) 2 - pick to containers without auto-sum of the full pick quantity (standard cluster pick)
16	DELIVER_CONTAINER _AT_CLOSE	Deliver Container at Close	String	1	Determines whether to prompt the user to deliver the container when it is closed. (overrides work option value) 0 - no delivery prompt at container close. 1 - (default) prompt delivery information at container closing.
17	PRE_CREATE _CONTAINERS	Pre-Create Containers	String	1	(overrides work option value) 0 - (default) Don't prompt for number of labels. 1 - prompt for number of labels.
18	PROMPT_FOR _CONTAINER	Prompt Operator for Container ID	Number	1	Flag to indicate whether operator should record the container ID when a new container is opened. (overrides work option value) 0 - (default) Do not prompt the operator for the container ID, the system ID will be used as the container ID. 1 - Prompt the operator for the container ID.
19	ALLOW_MULT_OPEN_CONTA INER	Allow Multiple Open Containers per Assignment	String	1	Specifies whether the user is allowed to open a new container without closing the current container. (overrides work option value) 0 - (default) Allows only one container to be open at a time for each assignment. 1 - Allows multiple containers to be open at a time for each assignment.

20	SPOKEN_CONTAINER_VLDT_LGTH	Spoken Container Validation Length	Number	2	(overrides work option value) Specifies the number of digits an operator must speak when validating a container to put, close, or reprint labels.
21	ASSET_TYPE	Asset Type	Number	2	Placeholder for device to fill in later. Will always be populated with '00' from WMS
22	ERROR_CODE	Error Code	Number	10	0 - no error 11123 - no directed work available (user can try again or change their work option)
23	ERROR_DESCR	Error Message	String	255	Empty unless the error code is non zero

3.6.3 Get Assignment Example

Inbound Event:

prTaskLUTGetAssignment,06-18-10 16:45:21,012345678,SUPER,,1,,,<CR><LF><LF>

Outbound Response:

"CTN0000641","0","CTN0000641","CTN0000641","1","","","","0","0",0,"","","","","0","2","","",0,"",10,00,0,"",<CR><LF>"CTN0000642","0","CTN0000642","CTN0000642","2","","","","0","0",0,"","","","","0","2","","",0,"",10,00,0,"",<CR><LF>"CTN0000643","0","CTN0000643","CTN0000643","3","","","","0","0",0,"","","","","0","2","","",0,"",10,00,0,"",<CR><LF>"CTN0000651","0","CTN0000651","CTN0000651","4","","","","0","0",0,"","","","","0","2","","",0,"",10,00,0,"",<CR><LF><CR><LF>

3.7 Process Container (SAL_VOC_PRC_CONTAINER)

The device sends this message to manually open or close a container. For our purposes, the WMS will control almost all most of the container operations, not the voice system, so this message is typically sent at the start of a cluster pick assignment to tell the voice system the containers are open and ready to be picked to. One container transaction is sent regardless of the number of assignments the user begins. Carton information will be returned for all cartons assigned to the device.

3.7.1 Process Container Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTContainer
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment ID	String	50	Identifier for the Assignments assigned to the device.
6	WORK_ID	Work ID	String	50	The specific work identifier for this container.
7	TARGET_CONTAINER	Target Container	String	2	The target container for picking.
8	SYSTEM_CONTAINER_ID	System-Generated Container ID	String	100	This field is only populated when the operation = 1.
9	OPERATOR_CONTAINER_ID	Operator-Specified Container ID	String	100	This field is only populated when the operation is set to 2 and the system is set up to have operators specify container IDs. When populated, this is the container value an operator spoke or scanned.
10	OPERATION	Operation	String	1	0 - (not currently supported) Return a list of containers for the specified assignment id. 1 - (not currently supported) Close the specified system-generated container 2 - Open a new container 3 - (not currently supported) Pre-create the specified number of containers
11	NUMBER_OF_LABELS	1. of Labels	String	10	Only provided when the operation is 3. Occurs when the option is configured to pre-create containers and the operator chooses to pre-print labels for the pre-created containers.

MOCA command – "process voice container"

3.7.2 Process Container Event Output

#	EO Field	Comment	Type	Size	Description
1	SYSTEM_CONTAINER_ID	System Container ID	String	100	

					The containers unique identification. This value is internal only and is not spoken to or spoken by the operator.
2	SCANNED_CONTAINER_VALIDATION	Scanned Container Validation	String	100	This is the value the system uses for validation when the operator scans the container.
3	SPOKEN_CONTAINER_VALIDATION	Spoken Container Validation	String	100	This value is spoken to the operator when the container is opened. This is the value that must be spoken by the operator when verifying a container put (unless simple put is enabled)
4	WORK_ID	Work ID	String	100	This is the description of an piece of work (within an assignment, even if the "assignment" consists of one workID). Operator can only put items for a particular work ID in that workID's containers.
5	ID_DESCRIPTION	ID Description	String	100	This is the description of the Work ID.
6	TARGET_CONTAINER	Target Container	Number	1	This is the target container for the picks that go into this container. Set to zero when the work does not have a Target Containers Specified.
7	CONTAINER_STATUS	Container Status	String	1	"A" - Available container (to be manually opened by the user)--This container is available to be opened. It was pre-created because the operator chose to preprint labels for the Work ID. The operator cannot pick to it until it is opened, but can reprint labels for it. "O" - open container - container is open. The operator can place picks into it. (typically this is the only status sent by the WMS, although the others are supported) "C" - closed container – Operator can specify this container for reviewing and re-printing
8	PRINTED	Printed	Number	1	0 - container has not had a label printed 1 - container has had a label printed
9	ERROR_CODE	Error Code	Number	30	0 - no error 10784 - could not determine carton info for provided carton number 1. 1. 1. -
10	ERROR_DESCR	Error Message	String	255	Empty unless the error code is non zero

3.7.3 Process Container Example

Inbound Event:

prTaskLUTContainer,06-18-10 16:45:21,012345678,SUPER,CTN0000641,,,,,0,<CR><LF><LF>

Outbound Response:

"","CTN0000641","CTN0000641","CTN0000641","CTN0000641",0,"O",0,0,"",<CR><LF>"","CTN0000642","CTN0000642","CTN0000642","CTN0000642",0,"O",0,0,"",<CR><LF>"","CTN0000643","CTN0000643","CTN0000643","CTN0000643",0,"O",0,0,"",<CR><LF>"","CTN0000651","CTN0000651","CTN0000651","CTN0000651",0,"O",0,0,"",<CR><LF><CR><LF>

3.8 Get Picks (SAL_VOC_PRC_PICK)

The message retrieves individual pick item records for a picking assignment from the host system. The host should send one pick record for the quantity of picks that should be picked for a particular Work ID and pick location so that picks for the same Work ID and located at the same pick location can be picked at the same time. There is a system policy to control how many records are returned with this message. System default is one pick at a time. Skips and shorts are all controlled by RedPrairie and not the device.

3.8.1 Get Picks Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	40	prTaskLUTGetPicks
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGN_ID	Assignment ID	String	15	

					This is the Assignment ID value returned in the **Get Assignment** message for this group of assignments (even if the group contains only one assignment).
6	SHORTS_AND _SKIPS_FLG	Shorts and Skips Flag	String	1	This flag tells the host system to only send picks that have a status of G or S so that the operator can address those picks before passing the assignment. 0 - (default) standard pick pass 1 - (not currently supported) operator used "pass assignment" command.
7	GO_BACK_FOR _SHORTS	Go Back for Shorts Indicator	String	1	This is the go back for shorts value returned in the **Get Work Option** message.
8	ORDER	Pick list Order	Number	1	The order the user would like to receive the picks in. 0 - (default) normal order 1 - (not currently supported) reverse order
9	PASS _ASSIGNMENT	Pass Assignment	Number	1	0 - standard **Get Picks** message is being sent 1 - a "pass assignment" command was issued

MOCA command – "process voice pick"

3.8.2 Get Picks Event Output

Note: fields in **bold** are required

#	EO Field	Comment	Type	Size	Description
1	**STATUS**	Pick Status	String	1	The pick's status. N - not picked B - base item S - skipped G - go back for short
2	**BASE_ITEM**	Base Item	String	1	Determines whether an item is a base item. 0 = item is not a base item 1 = item is a base item
3	**WORK_REQ_ID**	Work Request ID	String	10	Voice system internal unique identifier for the pick.
4	**LOCATION**	Location ID	String	100	WMS full Identifier for the pick location. This is not usually spoken, but is a pass through that is transmitted back to the host in the Picked messages
5	**REGION**	Region	String	1	Current location's region identifier. Set to 0.
6	PRE_AISLE_DIRECTION	Pre-aisle Direction	String	20	Text spoken before an aisle change. Nothing spoken if blank
7	**AISLE**	Aisle	String	20	Aisle where the pick item is located. The terminal says this value to direct Operator to an aisle.
8	POST_AISLE _DIRECTION	Post-aisle Direction	String	20	Text spoken after the aisle change is finished. Nothing spoken if blank
9	**SLOT**	Slot	String	20	The pick's slot spoken to the user. This is typically is the location ID minus the building, aisle and any other redundant information. This data is not passed back with the picked status message
10	**QTY_TO_PICK**	Quantity to Pick	Number	10	The pick's quantity. The terminal says this value to tell Operator how many to pick.
11	UOM	Unit of measure	String	50	This is the unit of measure that is being picked.
12	ITEM_NUM	Item number	String	50	The pick's item number (available on request)
13	**VAR_WGT_FLG**	Variable Weight	Number	1	Flag to turn on variable (catch) weights for this pick 0 - no prompt for weight 1 - weight capture enabled
14	VAR_WGT_MIN	Variable Weight Minimum	String	10	The minimum weight allowed to be spoken by the operator for the pick. The device issues a warning message if the spoken weight is less than this value.
15	VAR_WGT_MAX	Variable Weight Maximum	String	10	

					The maximum weight allowed to be spoken by the operator for the pick. The device issues a warning message if the spoken weight exceeds this value.
16	**QTY_PICKED**	Quantity Picked	Number	10	Quantity Picked (default is zero) terminal uses this field to track the number the user picked.
17	CHK_DIGIT	Check Digits	String	3	Required verification Check digits spoken by the user for the pick's location.
18	SCAN_PRODUCT_ID	Scan Product ID	String	50	When scanning product ID, this is the identifier that must be scanned to identify this product
19	SPOKEN_PRODUCT_ID	Spoken Product ID	String	5	When speaking product ID, this is the identifier that must be spoken to identify this product.
20	DESCRIPTION	Description	String	100	Description of the item to be picked. Available on operator request
21	SIZE	Size	String	100	Size of the item to be picked. Available on request
22	UPC	UPC	String	100	Universal product code (UPC) of the item to be picked. Available on request
23	**WORK_ID**	Work ID	String	100	Pick's work identifier - should match what was provided in the Get Assignment message. This will identify which carton this pick should go to.
24	**WORK_ID_DESCR**	ID Description	String	100	Work ID Description
25	DELIVERY_LOCATION	Delivery Location	String	100	Delivery location for the pick. - really only needed for chase assignments.
26	**COMBINATION_FLG**	Combination Flag	Number	1	Internal variable used to track what records should be combined for picking and when. Set to 0.
27	STORE	Store	String	100	Store that ordered the pick item . Device says this when operator requests "Store Number"
28	CASE_LABEL _CHK_DIGIT	Case Label Check Digit	String	30	The case label check digit is the one from the pick having the lowest sequence number which is the first case label check digit for that location.
29	TARGET_CONTAINER	Target Container	Number	2	This field, if populated, tells the system that the system is directing where each pick is put (i.e., in which container). If the target container field is populated for each pick, the operator is not allowed to use the new container, close container, or partial commands because the system controls when containers are opened or closed. Set to Null if operator is supposed to direct where each pick is put. The operator is directed to pick each pick in the order they are sent to the device. When the target container value changes from one pick to the next, the operator is directed to the new container
30	**LOT_CTRL_FLG**	Capture Lot	Number	1	Capture lot numbers with this pick 0 - no 1 - yes
31	PICK_MESSAGE	Pick Message	String	255	Message for the operator about this pick
32	VERIFY_LOCATION	Verify Location	Number	1	Flag to indicate whether to confirm with the host if a location for a pick is empty or contains an invalid lot at the time of the request for pick data, and therefore needs its replenishment status or lot validity to be verified prior to allowing the operator to pick it. 0 - (default) do not verify 1 - verify
33	**CYCLE_COUNT_FLG**	Cycle Count	Number	1	Should the user count this location after the pick? 0 - no 1 - yes

34	**CAPTURE_SERIAL_FLG**	Capture Serial Flag	Number	1	Capture item serial numbers with this pick? 0 - no 1 - yes
35	**SPEAK_ITEM_DESCR**	Speak Item Description	Number	1	Should the system speak the item description for this pick in the pick prompt? This is typically set to yes if there are multiple items stored at this pick's location. 0 - Do not speak item description in pick prompt 1 - Speak item description in pick prompt
36	**CAPTURE_LPN**	Capture LPN	Number	1	Flag to indicate whether the LPNs should be captured for this pick. 0 - Do not capture LPN 1 - Capture LPN
37	DIRECTED_LPN	Directed LPN	String	30	LPN from which operator should pick. If populated, the LPN Text will be spoken, followed by this field during the pick prompt
38	LPN_TEXT	LPN Text	String	50	Variable name for the LPN prompt if the customer refers to LPNs by a different name
39	DIRECTED_LOT	Directed Lot	String	30	Lot from which the operator should pick. If populated, the Lot Text will be spoken, followed by this field.
40	**CAPTURE_REVISION**	Capture Revision Code	Number	1	Should revision codes be captured for this pick? 0 - Do not capture revision code 1 - Capture revision code
41	REVISION_CD	Directed Revision Code	String	30	Revision code the operator should pick from the location
42	**CAPTURE_ORIGIN**	Capture Origin Code	Number	1	Should origin codes be captured for this pick? 0 - Do not capture origin code 1 - Capture origin code
43	ORIGIN_CD	Directed Origin Code	String	30	Origin code operator should pick
44	**CAPTURE_SUPPLIER**	Capture Supplier Number	Number	1	Should supplier number be captured for this pick? 0 - Do not capture supplier numbers 1 - Capture supplier numbers
45	SUPPLIER_CD	Directed Supplier Number	String	30	Supplier number from which the operator should pick
46	**SERIAL_RANGE_FLG**	Range Allowed	Number	1	Flag to indicate whether serial numbers are sequential and the operator can pick a range. 0 - serial numbers must be individually captured. 1 - Operator can enter a range of serial numbers
47	**VALIDATE_SERIAL_FLG**	Validate Serial Number	Number	1	Flag to indicate whether captured serial numbers should be validated by the WMS 0 - Do not validate serial numbers 1 - Validate serial numbers
48	**CONFIRM_WORKFLOW_FLG**	Workflow Services	Number	1	Does this pick have a workflow service that needs to be requested (post pick) from host? 0 - Do not request workflow services 1 - Request workflow services
49	**WRKREF**	Work Reference ID	String	10	Unique host WorkReference value that needs to pass through this message and return with each picked status message to properly process the pick on the RedPrairie side.
50	**SER_NUM_MULT**	Serial number multiplier	Number	3	This used to calculate how many serial numbers to prompt the operator to capture. It is a numeric field up to 3 digits long and must be sent as 0 or greater. E.g. operator told to pick 3 cases with a multiplier of 6 items per case so they need to capture 18 serial numbers.
51	**CAPTURE_SUP_LOTNUM**	Capture Supplier Lot Number	Number	1	Should supplier lot numbers be captured for this pick? 0 - Do not capture supplier lot number 1 - Capture supplier lot number
52	**SUP_LOTNUM_CD**	Supplier Lot Number	String	25	Supplier Lot Number the operator should pick.

53	**CAPTURE_MANDTE**	Capture Manufactured Date	Number	1	Should manufacture date be captured for this pick? 0 - Do not capture manufacture date 1 - Capture manufacture date
54	**MANDTE_CD**	Manufactured Date	String	14	Manufactured Date the operator should pick.
55	**CAPTURE_EXPIRE_DTE**	Capture Expiration Date	Number	1	Should expiration date be captured for this pick? 0 - Do not capture expiration date 1 - Capture expiration date
56	**EXPIRE_DTE_CD**	Expiration Date	String	14	Expiration Date the operator should pick.
57	**CAPTURE_RTTN_ID**	Capture Rotation ID	Number	1	Should rotation ID be captured for this pick? 0 - Do not capture rotation ID 1 - Capture rotation ID
58	**RTTN_ID_CD**	Rotation ID	String	10	Rotation ID the operator should pick.
59	**CAPTURE_INV_ATTR_STR1**	Capture Inventory Attribute Text 1	Number	1	Should user defined text field 1 be captured for this pick? 0 - Do not capture 1 - Capture
60	**INV_ATTR_STR1_CD**	Inventory Attribute Text 1	String	40	Inventory Attribute Text 1 the operator should pick.
61	**CAPTURE_INV_ATTR_STR2**	Capture Inventory Attribute Text 2	Number	1	Should user defined text field 2 be captured for this pick? 0 - Do not capture 1 – Capture
62	**INV_ATTR_STR2_CD**	Inventory Attribute Text 2	String	40	Inventory Attribute Text 2 the operator should pick.
63	**CAPTURE_INV_ATTR_STR3**	Capture Inventory Attribute Text 3	Number	1	Should user defined text field 3 be captured for this pick? 0 - Do not capture 1 – Capture
64	**INV_ATTR_STR3_CD**	Inventory Attribute Text 3	String	40	Inventory Attribute Text 3 the operator should pick.
65	**CAPTURE_INV_ATTR_STR4**	Capture Inventory Attribute Text 4	Number	1	Should user defined text field 4 be captured for this pick? 0 - Do not capture 1 – Capture
66	**INV_ATTR_STR4_CD**	Inventory Attribute Text 4	String	40	Inventory Attribute Text 4 the operator should pick.
67	**CAPTURE_INV_ATTR_STR5**	Capture Inventory Attribute Text 5	Number	1	Should user defined text field 5 be captured for this pick? 0 - Do not capture 1 – Capture
68	**INV_ATTR_STR5_CD**	Inventory Attribute Text 5	String	40	Inventory Attribute Text 5 the operator should pick.
69	**CAPTURE_INV_ATTR_STR6**	Capture Inventory Attribute Text 6	Number	1	Should user defined text field 6 be captured for this pick? 0 - Do not capture 1 – Capture
70	**INV_ATTR_STR6_CD**	Inventory Attribute Text 6	String	40	Inventory Attribute Text 6 the operator should pick.
71	**CAPTURE_INV_ATTR_STR7**	Capture Inventory Attribute Text 7	Number	1	Should user defined text field 7 be captured for this pick? 0 - Do not capture 1 – Capture
72	**INV_ATTR_STR7_CD**	Inventory Attribute Text 7	String	40	Inventory Attribute Text 7 the operator should pick.
73	**CAPTURE_INV_ATTR_STR8**	Capture Inventory Attribute Text 8	Number	1	Should user defined text field 8 be captured for this pick? 0 - Do not capture 1 – Capture
74	**INV_ATTR_STR8_CD**	Inventory Attribute Text 8	String	40	Inventory Attribute Text 8 the operator should pick.
75	**CAPTURE_INV_ATTR_STR9**	Capture Inventory Attribute Text 9	Number	1	Should user defined text field 9 be captured for this pick? 0 - Do not capture 1 – Capture
76	**INV_ATTR_STR9_CD**	Inventory Attribute Text 9	String	40	Inventory Attribute Text 9 the operator should pick.
77	**CAPTURE_INV_ATTR_STR10**	Capture Inventory Attribute Text 10	Number	1	Should user defined text field 10 be captured for this pick? 0 - Do not capture 1 – Capture
78	**INV_ATTR_STR10_CD**	Inventory Attribute Text 10	String	40	Inventory Attribute Text 10 the operator should pick.
79	**CAPTURE_INV_ATTR_INT1**	Capture Inventory Attribute Number 1	Number	1	Should user defined Integer field 1 be captured for this pick? 0 - Do not capture 1 - Capture
80	**INV_ATTR_INT1_CD**	Inventory Attribute Number 1	String	10	Inventory Attribute Number 1 the operator should pick.

81	**CAPTURE_INV_ATTR_INT2**	Capture Inventory Attribute Number 2	Number	1	Should user defined Integer field 2 be captured for this pick? 0 - Do not capture 1 – Capture
82	**INV_ATTR_INT2_CD**	Inventory Attribute Number 2	String	10	Inventory Attribute Number 2 the operator should pick.
83	**CAPTURE_INV_ATTR_INT3**	Capture Inventory Attribute Number 3	Number	1	Should user defined Integer field 3 be captured for this pick? 0 - Do not capture 1 – Capture
84	**INV_ATTR_INT3_CD**	Inventory Attribute Number 3	String	10	Inventory Attribute Number 3 the operator should pick.
85	**CAPTURE_INV_ATTR_INT4**	Capture Inventory Attribute Number 4	Number	1	Should user defined Integer field 4 be captured for this pick? 0 - Do not capture 1 – Capture
86	**INV_ATTR_INT4_CD**	Inventory Attribute Number 4	String	10	Inventory Attribute Number 4 the operator should pick.
87	**CAPTURE_INV_ATTR_INT5**	Capture Inventory Attribute Number 5	Number	1	Should user defined Integer field 5 be captured for this pick? 0 - Do not capture 1 – Capture
88	**INV_ATTR_INT5_CD**	Inventory Attribute Number 5	String	10	Inventory Attribute Number 5 the operator should pick.
89	**CAPTURE_INV_ATTR_FLT1**	Capture Inventory Attribute Decimal 1	Number	1	Should user defined Decimal field 1 be captured for this pick? 0 - Do not capture 1 - Capture
90	**INV_ATTR_FLT1_CD**	Inventory Attribute Decimal 1	String	19	Inventory Attribute Decimal 1 the operator should pick.
91	**CAPTURE_INV_ATTR_FLT2**	Capture Inventory Attribute Decimal 2	Number	1	Should user defined Decimal field 2 be captured for this pick? 0 - Do not capture 1 - Capture
92	**INV_ATTR_FLT2_CD**	Inventory Attribute Decimal 2	String	19	Inventory Attribute Decimal 2 the operator should pick.
93	**CAPTURE_INV_ATTR_FLT3**	Capture Inventory Attribute Decimal 3	Number	1	Should user defined Decimal field 3 be captured for this pick? 0 - Do not capture 1 - Capture
94	**INV_ATTR_FLT3_CD**	Inventory Attribute Decimal 3	String	19	Inventory Attribute Decimal 3 the operator should pick.
95	**CAPTURE_INV_ATTR_DTE1**	Capture Inventory Attribute Date 1	Number	1	Should user defined Date field 1 be captured for this pick? 0 - Do not capture 1 - Capture
96	**INV_ATTR_DTE1_CD**	Inventory Attribute Date 1	String	14	Inventory Attribute Date 1 the operator should pick.
97	**CAPTURE_INV_ATTR_DTE2**	Capture Inventory Attribute Date 2	Number	1	Should user defined Date field 2 be captured for this pick? 0 - Do not capture 1 - Capture
98	**INV_ATTR_DTE2_CD**	Inventory Attribute Date 2	String	14	Inventory Attribute Date 2 the operator should pick.
99	**ERROR_CODE**	Error code	String	10	0 - no error 2 - picking is complete, go to delivery logic 3 - picking is complete, no items were picked, so delivery is bypassed 4 - pick results still processing, wait 1 second and try again 1. 1. 1. -
100	ERROR_DESCR	Error Message	String	255	any non zero error will return a status message to be spoken to the user.

3.8.3 Get Picks Example

Inbound Event:

prTaskLUTGetPicks,06-18-10 16:45:21,012345678,SUPER,CTN00000641,0,0,0,0<CR><LF><LF>

Outbound Response:

*"N","","1","BF03A","","","BF ","","03A ", 0000000010,"Each","AR747","0","0","0",0000000000,"982","","","3/8 Heavy Duty Ratchet","","","
CTN0000641","","",0,"","",,"0","",0,0,0,0,0,"","LPN","", 0,"",0,"",0,"",0,0,0,"W00000015R",00,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",
0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0,"",0, "","0","",<CR><LF><CR><LF>*

3.9 Validate Inventory Info (SAL_VOC_VALIDATE_INV_INFO)

This message is sent by the device to validate the captured LPN, lot, revision code, origin code, supplier number, supplier lot number, manufacture date, expiration date, rotation ID, or any of the User definable Inventory Attributes (UDIA) that are enabled to confirm that this inventory identifier is valid for the pick location. If the WMS confirms the user's specified capture data matches the inventory in the location, a 0 is returned, and picking can proceed. Any non-zero error number indicates a capture problem. The user should loop around and capture values again.

3.9.1 Validate Inventory Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTValidateInventory
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LOT_ID	Lot ID	String	30	Captured lot number
6	QUANTITY	Quantity	Number	10	Quantity of inventory that matches the captured inventory information.
7	WORK_ID	Assignment ID	String	100	Work ID
8	WORK_REQ_ID	Work request ID	Number	10	Work Request ID (sequence) number from get picks
9	LPN	LPN	String	30	Captured pick from LPN
10	ORIGIN	Origin Code	String	30	Captured origin code
11	REVISION	Revision Code	String	30	Captured revision level
12	SUPPLIER	Supplier Number	String	30	Captured supplier number.
13	WRKREF	Work Reference ID	String	10	Work Reference
14	SUP_LOTNUM	Supplier Lot Number	String	25	Captured Supplier Lot Number
15	MANDTE	Manufactured Date	String	14	Captured Manufactured Date
16	EXPIRE_DTE	Expiration Date	String	14	Captured Expiration Date
17	RTTN_ID	Rotation ID	String	10	Captured Rotation ID
18	INV_ATTR_STR1	Inventory Attribute Text 1	String	40	Captured Inventory Attribute Text 1
19	INV_ATTR_STR2	Inventory Attribute Text 2	String	40	Captured Inventory Attribute Text 2
20	INV_ATTR_STR3	Inventory Attribute Text 3	String	40	Captured Inventory Attribute Text 3
21	INV_ATTR_STR4	Inventory Attribute Text 4	String	40	Captured Inventory Attribute Text 4
22	INV_ATTR_STR5	Inventory Attribute Text 5	String	40	Captured Inventory Attribute Text 5
23	INV_ATTR_STR6	Inventory Attribute Text 6	String	40	Captured Inventory Attribute Text 6
24	INV_ATTR_STR7	Inventory Attribute Text 7	String	40	Captured Inventory Attribute Text 7
25	INV_ATTR_STR8	Inventory Attribute Text 8	String	40	Captured Inventory Attribute Text 8
26	INV_ATTR_STR9	Inventory Attribute Text 9	String	40	Captured Inventory Attribute Text 9
27	INV_ATTR_STR10	Inventory Attribute Text 10	String	40	Captured Inventory Attribute Text 10
28	INV_ATTR_INT1	Inventory Attribute Number 1	String	10	Captured Inventory Attribute Number 1
29	INV_ATTR_INT2	Inventory Attribute Number 2	String	10	Captured Inventory Attribute Number 2
30	INV_ATTR_INT3	Inventory Attribute Number 3	String	10	Captured Inventory Attribute Number 3
31	INV_ATTR_INT4	Inventory Attribute Number 4	String	10	Captured Inventory Attribute Number 4
32	INV_ATTR_INT5	Inventory Attribute Number 5	String	10	Captured Inventory Attribute Number 5
33	INV_ATTR_FLT1	Inventory Attribute Decimal 1	String	19	Captured Inventory Attribute Decimal 1
34	INV_ATTR_FLT2	Inventory Attribute Decimal 2	String	19	Captured Inventory Attribute Decimal 2
35	INV_ATTR_FLT3	Inventory Attribute Decimal 3	String	19	Captured Inventory Attribute Decimal 3
36	INV_ATTR_DTE1	Inventory Attribute Date 1	String	14	Captured Inventory Attribute Date 1
37	INV_ATTR_DTE2	Inventory Attribute Date 2	String	14	Captured Inventory Attribute Date 2

MOCA command – "process voice inventory information"

3.9.2 Validate Inventory Event Output

#	EO Field	Comment	Type	Size	Description
1	LOT_NUM	Lot Number	String	30	Full Lot number.
2	ERROR_CODE	Error Code	Number	30	0 - no error, inventory verification succeeded 1. 1. 1. -
3	ERROR_DESCR	Error Message	String	255	Error Description

3.9.3 Validate Inventory Example

Inbound Event:

prTaskLUTValidateInventory,06-18-10 16:45:21,012345678,SUPER,,1,CTN0000651,1,1180,,,,W00000016D,,,,,,,,,,,,,,,,,,,,,,,,<CR><LF><LF>

Outbound Response:

"",0,"",<CR><LF><CR><LF>

3.10 Process Picked (SAL_VOC_PRC_PICK_ODR) or (SAL_VOC_PRC_PICKED)

The process picked message is sent as a status update immediately after each pick is completed by the user. There are two options, controlled by a "work option" flag, for this message; 1-way transaction (ODR) and 2-way transaction (LUT).
The 1-way message is the default behavior and goes through the alternate 1-way listening port on the server. (ODR port) This is a one way status update transaction from the device to the host with only a one letter response to indicate the host received the message. This is the default behavior and is meant to keep the main 2-way port open for other transactions that require database lookups to generate a response.
The other option is to use the 2-way LUT style message to provide this update on the main voice port. This will ensure the host has got the message and processed it, an outbound response with any error codes and error messages are returned.
Note: the device should send multiple versions of this message to capture all data an operator was told to record. e.g. For a quantity of 40, the user specifies 4 quantities of 10 with each having a different lot value. The task will send 4 socket transmissions (1 for each lot) and only the last data segment for each transmission will have a status of 1.

3.10.1 Process Picked (1-way and 2-way) Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction Id	String	40	prTaskODRPicked or prTaskLUTPicked
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGN_ID	Assignment ID	String	100	Assignment ID value returned in the get assignment message.
6	WORK_ID	Work ID	String	100	Work ID value returned in the get assignment message
7	LOCATION_ID	Voice Code Version	String	100	This is the location ID value returned in the Get Picks message.
8	QTY_PICKED	Quantity Picked	Number	10	the quantity the operator picked. This needs to be the full quantity of the pick, even when capturing data and multiple records for the same items are sent.
9	PICKED_STATUS	Picked Status	Number	1	0 - Not Picked 1 - Picked Skips and shorts will set this flag and vary the quantity picked appropriately. If capturing unique data (lot, LPN, Revision, Origin, Supplier, etc.) that spans more than one, only the very last Picked message sent will have the Status set to one to let the host know the last pick is being sent from the device.
10	CONTAINER_ID	Container ID	String	50	Container the pick was placed into
11	WORK_REQ_ID	Work Request ID	Number	10	WORK_REQ_ID sent with Get Picks.
12	LOT_NUM	Lot number	String	30	The lot number that that was identified by the operator during the pick. Will blank if the item being picked is not lot-controlled.
13	CATCH_QTY	Catch Weight quantity	String	10	

					Pick's weight recorded by the operator. If weights are captured for this pick, a Picked message is sent for each quantity of 1 so that each item's weight can be reported separately.
14	SERIAL_NUM	Serial Number	String	50	Picked item's serial number recorded by the operator. If serial numbers are captured for this pick, a Picked message is sent for each quantity of 1 so that each item's serial number can be reported separately.
15	LPN	Picked from LPN	String	50	LPN the user picked from.
16	REVISION_CD	Revision Code	String	25	Valid revision that the operator selected.
17	ORIGIN_CD	Origin Code	String	25	Valid origin that the operator selected.
18	SUPPLIER_CD	Supplier ID	String	32	Supplier of the inventory selected by the user.
19	DISCREPANCY_TYPE	Lookup Value	String	2	Discrepancy code chosen by the operator for this pick
20	ENDING_SERIAL_NUM	Ending Serial Number	String	50	Ending Serial Number - only used when capturing a range, otherwise NULL
21	ASSET_TYPE	Asset Type	String	2	Asset Type
22	WRKREF	Work Reference ID	String	10	Work Reference
23	SUP_LOTNUM_CD	Supplier Lot Number	String	25	Supplier Lot Number of the inventory selected by the user.
24	MANDTE_CD	Manufactured Date	String	14	Manufactured Date of the inventory selected by the user.
25	EXPIRE_DTE_CD	Expiration Date	String	14	Expiration Date of the inventory selected by the user.
26	RTTN_ID_CD	Rotation ID	String	10	Rotation ID of the inventory selected by the user.
27	INV_ATTR_STR1_CD	Inventory Attribute Text 1	String	40	Inventory Attribute Text 1 of the inventory selected by the user.
28	INV_ATTR_STR2_CD	Inventory Attribute Text 2	String	40	Inventory Attribute Text 2 of the inventory selected by the user.
29	INV_ATTR_STR3_CD	Inventory Attribute Text 3	String	40	Inventory Attribute Text 3 of the inventory selected by the user.
30	INV_ATTR_STR4_CD	Inventory Attribute Text 4	String	40	Inventory Attribute Text 4 of the inventory selected by the user.
31	INV_ATTR_STR5_CD	Inventory Attribute Text 5	String	40	Inventory Attribute Text 5 of the inventory selected by the user.
32	INV_ATTR_STR6_CD	Inventory Attribute Text 6	String	40	Inventory Attribute Text 6 of the inventory selected by the user.
33	INV_ATTR_STR7_CD	Inventory Attribute Text 7	String	40	Inventory Attribute Text 7 of the inventory selected by the user.
34	INV_ATTR_STR8_CD	Inventory Attribute Text 8	String	40	Inventory Attribute Text 8 of the inventory selected by the user.
35	INV_ATTR_STR9_CD	Inventory Attribute Text 9	String	40	Inventory Attribute Text 9 of the inventory selected by the user.
36	INV_ATTR_STR10_CD	Inventory Attribute Text 10	String	40	Inventory Attribute Text 10 of the inventory selected by the user.
37	INV_ATTR_INT1_CD	Inventory Attribute Number 1	String	10	Inventory Attribute Number 1 of the inventory selected by the user.
38	INV_ATTR_INT2_CD	Inventory Attribute Number 2	String	10	Inventory Attribute Number 2 of the inventory selected by the user.
39	INV_ATTR_INT3_CD	Inventory Attribute Number 3	String	10	Inventory Attribute Number 3 of the inventory selected by the user.
40	INV_ATTR_INT4_CD	Inventory Attribute Number 4	String	10	Inventory Attribute Number 4 of the inventory selected by the user.
41	INV_ATTR_INT5_CD	Inventory Attribute Number 5	String	10	Inventory Attribute Number 5 of the inventory selected by the user.
42	INV_ATTR_FLT1_CD	Inventory Attribute Decimal 1	String	19	Inventory Attribute Decimal 1 of the inventory selected by the user.
43	INV_ATTR_FLT2_CD	Inventory Attribute Decimal 2	String	19	Inventory Attribute Decimal 2 of the inventory selected by the user.
44	INV_ATTR_FLT3_CD	Inventory Attribute Decimal 3	String	19	Inventory Attribute Decimal 3 of the inventory selected by the user.
45	INV_ATTR_DTE1_CD	Inventory Attribute Date 1	String	14	Inventory Attribute Date 1 of the inventory selected by the user.

46	INV_ATTR_DTE2_CD	Inventory Attribute Date 2	String	14	Inventory Attribute Date 2 of the inventory selected by the user.

MOCA command – "process voice pick"

3.10.3 Process Picked (1-way) Example

Inbound Event:

Standard pick no data capture:

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641,BF04E,5,1,,1,,,,,,,,,,W00000015P<CR><LF><LF>

Pick Quantity 6, lot capture across 2 lots:

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641,BF05E,2,1,,1,Lot001,,,,,,,,,W00000015Q<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641,BF05E,4,1,,1,Lot002,,,,,,,,,W00000015Q<CR><LF><LF>

Pick Quantity 6, lot capture across 2 lots, with serial capture enabled

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,2,0,,1,Lot001,,Serial001,,,,,,,
W00000015R<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,2,1,,1,Lot001,,Serial002,,,,,,,
W00000015R<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,4,0,,1,Lot002,,Serial501,,,,,,,
W00000015R<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,4,0,,1,Lot002,,Serial502,,,,,,,
W00000015R<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,4,0,,1,Lot002,,Serial503,,,,,,,
W00000015R<CR><LF><LF>

prTaskODRPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641, BF07E,4,1,,1,Lot002,,Serial504,,,,,,,
W00000015R<CR><LF><LF>

3.10.4 Process Picked (2-way) Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	0 - no error 10 - Directs operator to cycle count (as a count near zero condition 1. 1. 1. -
2	ERROR_DESCR	Error Message	String	255	Error Description text only present when error code is not zero.

3.10.5 Process Picked (2-way) Example

Inbound Event:

prTaskLUTPicked,06-18-10 16:45:21,012345678,SUPER, CTN0000641,CTN0000641,BF04E,5,1,,1,,,,,,,,,,W00000015P<CR><LF><LF>

Outbound Response:

0,"",<CR><LF><CR><LF>

3.11 Print Labels (SAL_VOC_PRC_PRINT_LABELS)

This optional message is sent when the work option requires the user print labels for the assignment. It is either triggered before the picks start, or after the last pick is finished, but before delivery.

3.11.1 Print Labels Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPrint
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment ID	String	100	Assignment ID value returned in the **Get Assignment** message for this group of assignments.
6	WORK_ID	Work ID	String	100	Work ID value returned in the Get assignment message
7	OPERATION	Operation	Number	1	0 - Print chase labels for the assignment 1 - Print container label for specified system-generated container ID 3 - the Print Labels field in the host response to the **work option** message is set to 3.
8	SYSTEM _CONTAINER_ID	System Container ID	String	100	The system container ID of a specific container label to be

					printed. This value is populated when reprinting labels from the delivery prompt. In all other Operations, this will be empty.
9	PRINTER	Printer Number	Number	2	Printer Number the operator specified for printing labels.
10	REPRINT_LABELS	Reprint Label	Number	1	Were these labels already printed? 0 = Printing labels for the first time 1 = Reprinting labels
11	NUMBER_OF _LABELS	Number of Labels	Number	10	Number of labels requested by the operator. Only used when Process Work Option --> PRINT_LABELS is 3.

MOCA command – "process voice print labels"

3.11.2 Print Labels Event Output

#	EO Field	Comment	Type	Size	Description
1	CONFIRMATION_CODE	Label Confirmation	String	5	Check digit spoken by operator to confirm the label. If Process Work Option --> PRINT_LABELS is 3 and printer label confirmation is required.
2	ERROR_CODE	Error code	Number	10	0 - no error 1. 1. 1. -
3	ERROR_DESCR	Error Message	String	255	empty unless error code is present.

3.11.3 Print Labels Example

Inbound Event:

prTaskLUTPrint,06-18-10 16:45:21,012345678,SUPER,LST000000354,LST000000354,3,,2,0,1<CR><LF><LF>

Outbound Response:

"",0,"",<CR><LF><CR><LF>

If verification codes are enabled, there will be one record returned for each label printed each with a unique label check digit.

3.12 Get Delivery Location (SAL_VOC_GET_DEP_LOC)

This message retrieves the delivery location for any Work items that are currently on the user's terminal. This message enables the system to respond to last-minute changes to delivery location. Only one delivery request will be sent regardless of how many Work IDs or containers a user is working on. The response message will contain a record for each item to be delivered.

3.12.1 Get Delivery Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTGetDeliveryLocation
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment ID	String	100	Assignment ID
6	WORK_ID	Work ID	String	100	Work Identifier

MOCA command – "get voice deposit location"

3.12.2 Get Delivery Location Event Output

#	EO Field	Comment	Type	Size	Description
1	LPN	LPN	String	20	The LPN the operator is to deliver. If this value is null, the delivery process will be skipped.
2	DELIVERY_LOC	Delivery Location	String	100	The location where this LPN will be delivered
3	CHECK_DIGIT	Delivery Location Check Digits	String	3	The check digit for the delivery location

4	DIRECT_LOAD	Direct Load	Number	1	Should this delivery be direct loaded to the trailer? 0 - (default) no 1 - yes, this is a direct load.
5	OVERRIDE _ALLOWED	Allow override	String	1	Is the user is allowed to override the staging lane location with a different location or to a direct load to the trailer location (aka fluid load)? 0 - No, override not allowed 1 - allow "override" command to a direct load trailer only 2 - (default) allow "change delivery" command only to put the load in a different user directed delivery location
6	LICENSE	License	String	50	Only used for direct loading, which isn't currently supported.
7	PICKUP _ANOTHER _ALLOWED	Pick Another Allowed	String	1	This value indicates if the user should be allowed to suspend delivery and first pick another work assignment before delivering the LPNs on their vehicle. 0 - pick another not allowed 1 - pick another allowed
8	INV_SUM_TEXT	Inventory Summary text	String	100	This string will be spoken in the delivery prompt. If null, nothing is spoken.
9	WORK_ID	Work ID	String	100	The Work ID which will match a Work ID the user is carrying.
10	ERROR_CODE	Error code	Number	10	0 - no error 1. 1. 1. -
11	ERROR_DESCR	Error Message	String	255	empty unless error code is present

3.12.3 Get Delivery Location Example

Inbound Event:
prTaskLUTGetDeliveryLocation,06-18-10 16:45:21,012345678,SUPER, CTN0000651,<CR><LF><LF>
Outbound Response:
"CONV001","",0,"2","","1","","L00000001045","L00000001045",0,"",<CR><LF><CR><LF>

3.13 Process Delivery (SAL_VOC_PRC_INV_DEP)

This message is sent to process the delivery by moving the LPN in the WMS from the device to the delivery location. This can also alert the WMS to any user changes made to the delivery location.

3.13.1 Process Delivery Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTDeliver
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment ID	String	100	Assignment Identifier
6	WORK_ID	Work ID	String	100	Work Identifier
7	OVERRIDE	Override	String	1	Was the delivery location changed 0 - No, system specified location was used 1 - yes, override or change delivery command was issued.
8	LPN	LPN	String	20	This is sent to indicate which LPN is being requested to deliver
9	LOC_NUM	Location	String	100	This is the location the LPN was delivered to
10	CHECK_DIGIT	Location Check Digit	String	3	Check digit for the location. Only required if the location is different because of an operator override.

MOCA command – "process voice inventory deposit"

3.13.2 Process Delivery Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	

					0 - no error, deposit successful 10 - Deposit successful, Post-deposit workflow triggered. Send user to workflow logic. 1. 1. 1. -
2	ERROR_DESCR	Error Message	String	255	empty unless error number is non zero

3.13.3 Deliver Example

Inbound Event:
prTaskLUTDeliver,06-18-10 16:45:21,012345678,SUPER,CTN0000651,CTN0000651,0,L00000001045,SS402,,<CR><LF><LF>
Outbound Response:
"0","",<CR><LF><CR><LF>

4. Additional Selection Messages

These selection messages are all fully supported, but are supplemental messages to the core selection messages above. Some are only used if WM is tied into the Labor tracking software to give users performance data.

4.1 Process Indirect Activity (SAL_VOC_PRC_IND_ACT_ODR)

This message is sent when the user requests to take a break. It is used mainly for labor to send break time information, such as who is taking a break of what type and at what time. This message is a one-way transaction to the 1-way ODR listening port.

4.1.1 Process Indirect Activity Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskODRCoreSendBreakInfo
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	BREAK_TYPE	Break Type	Number	2	Type of break being taken by the operator.
6	START_END_FLG	Start End Flag	Number	1	Indicates whether a break start time or end time is being reported. 0=Reporting break start time 1=Reporting break end time
7	BREAK_DESCRIPTION	Break Description	String	255	Description of break being taken by the operator.

MOCA command – "process voice indirect activity"

4.1.2 Process Indirect Activity Example

Inbound Event:
prTaskODRCoreSendBreakInfo,06-18-10 16:45:21,012345678,SUPER,1,0,Lunch<CR><LF><LF>

4.2 Get Performance (SAL_VOC_GET_PERF)

This transaction is only sent when the WM system is tied into labor and the user requests performance data for their current labor performance against the labor standard time.

4.2.1 Request Performance Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTRequestPerformance
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA command – "get voice performance"

4.2.2 Request Performance Event Output

#	EO Field	Comment	Type	Size	Description
1	LAST_PERFORMANCE	Last Assignment Performance	Number	4	This is the percent performance to goal for the last assignment completed by the user
2	DAY_PERFORMANCE	Performance for Day	Number	4	This is the percent performance the operator is, to date, for the entire day of work so far.
3	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
4	ERROR_DESCR	Error Message	String	255	empty unless error code is present

4.2.3 Example

Inbound Event:
prTaskLUTRequestPerformance,06-18-10 16:45:21,012345678,SUPER<CR><LF><LF>
Outbound Response:
105,98,0,"",<CR><LF><CR><LF>

4.3 Get Picks Remaining (SAL_VOC_GET_PCK_REM)

The user can say "how much more" at various places while work to trigger this message. This will check the system for how many items remain for the assignment as well as how many physical locations they still need to visit.

4.3.1 Get Picks Remaining Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	30	prTaskLUTHowMuchMore
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGN_ID	Assignment ID	String	100	assignment ID from the get assignment message
6	WORK_ID	Work ID	String	100	Work ID from the get assignment message

MOCA command – "get voice remaining work"

4.3.2 Get Picks Remaining Event Output

#	EO Field	Comment	Type	Size	Description
1	REMQTY	Quantity Remaining	Number	10	Remaining Quantity
2	UOM	UOM	String	100	Unit of Measure
3	REMLOC	Locations Remaining	Number	100	Remaining Location
4	ERROR_CODE	Error Code	Number	10	0 - no error 1. 1. 1. -
5	ERROR_DESCR	Error Message	String	255	empty unless error code is present

4.3.3 Example

Inbound Event:
prTaskLUTHowMuchMore,06-18-10 16:45:21,012345678,SUPER,LST0000000204,WRK0000000102<CR><LF><LF>
Outbound Response:
12,"Cases",4,0,"",<CR><LF><CR><LF>

4.4 Get Workflow Info (SAL_VOC_GET_WORKFLOW_INFO)

This message is triggered by the device after a pick is completed or after a delivery is staged based on an error code returned or a workflow flag set by the WMS response message to the appropriate message. The WMS has alerted the user that 1 (or more) workflow items may need to be

performed. (such as wrap this pallet in saran wrap, or put this pick in a garment bag) This message will get the details of the workflow for the user.

4.4.1 Get Workflow Info Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTGetWorkflow
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID	Assignment ID	String	100	The assignment ID value of the pick or delivery that just occurred with the workflow attached to it
6	WORK_ID	Work ID	String	100	The Work ID value of the pick or delivery that just occurred with the workflow attached to it
7	LOCATION_ID	Location ID	String	100	This is the current location ID of the user (either pick slot or stage lane) when the workflow was triggered.
8	WORKFLOW_TYPE	Workflow Type	String	1	The type of workflow that was triggered. Only 2 are currently supported: 0 - Post Pick Workflow 1 - Post Delivery Workflow
9	WRKREF	Work Reference	String	100	Work Reference

MOCA command – "get voice workflow information"

4.4.2 Get Workflow Info Event Output

#	EO Field	Comment	Type	Size	Description
1	WORKFLOW_ID	Workflow ID	String	20	Alphanumeric RP Identifier for the workflow for which the operator is being prompted
2	WORKFLOW_PROMPT	Workflow Prompt	String	255	The prompt spoken to the operator for this workflow
3	INSTRUCTION_ID	Instruction ID	String	20	Alphanumeric RP Identifier for the instruction for which the operator is being prompted This is set to null if there are no instructions
4	PROMPT	Instruction Prompt	String	255	Instruction prompt spoken to the operator
5	RESPONSE_TYPE	Response Type	Number	1	Indications how the operator may respond to the Instruction prompt 0 = info only (ready to continue) 1 = yes or no response 2 = capture information
6	STOP_WORKFLOW_FLAG	Stop Workflow flag	Number	1	Only used for yes or no response types (type 1) to workflow instruction records. 0 - a "no" response does not stop additional workflows from being performed. 1 - If the operator says "no", the Workflow Response message is sent to the host and no additional workflow records with this workflow ID will be acted upon
7	AUTO_CONFIRM_FLG	Auto Confirm flag	String	1	0 - Ask the operator if he wants to perform the workflow 1 - The operator is required to perform the workflow
8	CNFRM_SERV_ID		String	20	
9	ERROR_CODE		Number	30	0 - no error 1. 1. 1. -
10	ERROR_DESCR		String	255	empty unless error code is present

4.4.3 Get Workflow Info Example

Inbound Event:

prTaskLUTGetWorkflow,06-18-10 16:45:21,012345678,SUPER,CTN000000145,CTN00000145,BF501,0,<CR><LF><LF>

Outbound Response:

"VAR-CALIBRATION","Calibrate Part","VAR-CALIBRATE-PART","Customer requests you Calibrate this item",0,0,"1",0,"",<CR><LF><CR><LF>

4.5 Process Workflow Response (SAL_VOC_PRC_WRKFLW_RESULTS_ODR)

This 1-way message is sent back to confirm the results of the workflow that was performed.

4.5.1 Process Workflow Response Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskODRWorkflowResponse
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	WORKFLOW_ID	Workflow ID	String	20	Workflow ID that the operator performed
6	INSTRUCTION_ID	Instruction ID	String	20	Instruction identifier for the workflow on which the operator is working
7	RESPONSE_TYPE	Response Type	Number	1	The response type for the workflow 0 = ready, 1 = yes or no, 2 = capture information
8	PASS_FAIL_FLG	Pass Fail Flag	Number	1	The operator's response, as follows: If Response Type = 0 1 - operator said ready If Response Type = 1 0 - no response 1 - yes response if Response Type = 2 0 - operator said "cancel" 1 - operator spoke data in response field
9	RESPONSE	Response	String	100	If Response Type = 2, set to value spoken by operator. If the operator canceled a type 2, this field will be set to CANCEL
10	LAST_RECORD _FLG	Last Record Flag	String	1	0 - other workflow response for the Workflow_ID are coming 1 - this is the last response for this Workflow_ID
11	CNFRM_SERV_ID	Unique Workflow Identifier	String	20	

MOCA command – "process voice workflow results"

4.5.2 Process Workflow Response Example

Inbound Event:

prTaskODRWorkflowResponse,06-18-10 16:45:21,012345678,SUPER,VAR-CALIBRATION,VAR-CALIBRATE-PART,0,1,,1,<CR><LF><LF>

4.6 Validate Serial Number (SAL_VOC_VALIDATE_SERIAL_NUMBER)

This message is only sent if a pick item has enabled serial number capture enabled. The main purpose is to validate a captured serial number (or range of numbers) to confirm it is known and valid.

4.6.1 Validate Serial Number Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	30	prTaskLUTValidateSerialNumber
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	ASSIGNMENT_ID		String	100	Assignment ID
6	WORK_ID		String	100	Work ID
7	SERIAL_NUMBER	Serial Number	String	50	Serial number or start serial number if there's a range.
8	END_SERIAL_NUMBER	Serial Number End	String	50	End number of the serial number in a range if a range is being used.
9	WRKREF	Work Reference	String	10	Work Reference

MOCA command – "process voice validate serial number"

4.6.2 Validate Serial Number Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	30	

					0 - serial number processing successful 1. 1. 1. -
2	ERROR_DESCR	Error Message	String	255	empty unless error code is non zero

4.6.3 Validate Serial Number Example

Inbound Event:
prTaskLUTValidateSerialNumber,06-18-10 16:45:21,012345678,SUPER,,,,<CR><LF><LF>
Outbound Response:
0,"",<CR><LF><CR><LF>

4.7 Get Cycle Count Assignment (SAL_VOC_GET_CYCLE_COUNT_ASGN)

When an inline cycle count is triggered, this transaction is sent to retrieve data associated with that count. Multiple records to be counted may be returned with this message (one record for each unique UOM and item) records will be grouped by item number.

4.7.1 Get Cycle Count Assignment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	40	prTaskLUTCycleCountingAssignment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	SCANNED	Spoken or Scanned Indicator	Number	1	0 = The location to verify value was spoken. 1 = The location to verify value was scanned
6	LOC_NUM	Location number	String	100	Alphanumeric location spoken or scanned by the operator. This field is empty for inline cycle counts.
7	CHECK_DIGIT	Check Digit	String	20	Location check digit. This field will be empty for inline cycle counts.
8	WRKREF	Work Reference	String	10	Work Reference to get the cycle count against.

MOCA command – "get voice inline cycle count assignment"

4.7.2 Get Cycle Count Assignment Event Output

#	EO Field	Comment	Type	Size	Description
1	LOC_NUM	Location	String	100	Location Id of the pick location with the cycle count flag enabled
2	PRE_AISLE_DIRECTION	Pre Aisle Direction	String	50	Pre Aisle Direction
3	AISLE	Aisle	String	50	Aisle
4	POST_AISLE_DIRECTION	Post Aisle Direction	String	50	Post Aisle Direction
5	SLOT	Slot	String	50	Slot
6	CHECK_DIGIT	Check Digit	String	5	Check Digit for the location
7	PVID	Product Verification ID	Number	5	exact full PVID to verify correct item location
8	ITEM_NUMBER	Item Number	String	100	Part Number being counted.
9	ITEM_DESCRIPTION	Item Description	String	100	Description of part being counted.
10	UPC	UPC code	String	50	Alternate part number of part being counted
11	EXPECTED_QTY	Expected quantity	Number	9	number of UOMs expected to be found at this location
12	UOM	Unit of measure	String	50	exact UOM being counted
13	COUNT_MODE	Count Mode	String	1	Count Mode K = Known e.g. "are there five cases?" B = Blind e.g. "how many cases?"
14	CATCH_WEIGHT	Catch Weight	Number	1	0 = Don't capture weight 1 = Capture weight
15	MIN_WGT	Minimum weight	Number	5	Minimum catch weight
16	MAX_WGT	Maximum weight	Number	5	Maximum catch weight
17	ERROR_CODE	Error code	Number	10	0 - no error returned 1 - speak message, wait for

					response, request new cycle count 2 - picks are still processing, wait 2 seconds and resend this message again. 3 - cycle count for this location not required, or count is complete, continue with picking. 11 - error occurred during last pick processing, skip cycle counting for now and request a new pick list. 99 - speak information message and continue with normal task flow
18	ERROR_DESCR	Error Message	String	255	empty unless error code is non zero

4.7.3 Get Cycle Count Assignment Example

Inbound Event:
prTaskLUTCycleCountingAssignment,06-18-10 16:45:21,012345678,SUPER,en_US, Default,RP_XYZ02.04-147
Outbound Response:
"RedPrairie Voice","",0,1,0,"",<CR><LF><CR><LF>

4.8 Process Cycle Count (SAL_VOC_PRC_CYCLE_COUNT)

This message will be sent after the user performs their inline cycle count. Users' counts will be validated by sending this message to the WMS. Typically all UOM and item counts will be combined into one update message

4.8.1 Process Cycle Count Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction identifier	String	40	prTaskLUTItemCountUpdate
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LOC_NUM	Location Number	String	100	Location ID
6	ITEM_NUMBER	Item Number	String	100	Part Number
7	QUANTITY	Quantity	Number	9	Counted Quantity
8	UOM	Unit of Measure	String	50	Unit of Measure
9	SKIPPED_SLOT	Skipped Slot flag	String	1	Indication that the slot was skipped. Not used for inline counting.
10	WRKREF	Work Reference	String	10	Work Reference ID from the picks message
11	CATCH_WEIGHT	Catch Weight	Number	5	Combined catch weight for the full quantity at the UOM
12	RESIDUALS	Residuals flag	Number	1	Only filled for the last record sent for the full count assignment. Indicates other inventory is in the location. 0 - no residuals in location 1 - residuals remain
13	STATUS	Status Flag	Number	1	0 - in progress 1 - count complete A status of '1' indicates that this is the last UOM entered for the current part for the current counting assignment.

MOCA command – "process voice inline cycle count"

4.8.2 Process Cycle Count Example

Inbound Event:
prTaskODRItemCountUpdate,06-18-10 16:45:21,012345678,SUPER,en_US, Default,RP_XYZ02.04-147

5. Distribution Messages

In RedPrairie 2010.2, Distribution (sometimes called Put to Store) was added as a voice function. During this process, users are directed by the system to take one or more pallets and distribute the inventory to different store locations. Upon arriving at a store location, the system directs

users to deposit the appropriate amount of each item to the store location. Upon completion of the store deposits, the users are directed by the system to the next store location and the process continues. Remaining inventory after the store pass is complete is taken to a residual location to be put away

5.1 Get Distribution Regions (SAL_VOC_GET_PTS_REGION)

This message is sent when the operator specifies a distribution (PTS) function. This message is also sent when the operator says the change region command when performing distributions. This message will return the valid regions where the operator is allowed to perform the distribution operation.

5.1.1 Get Distribution Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsValidRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "list voice pts regions"

5.1.2 Get Distribution Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Number for which the operator has permission to perform the current function.
2	REGION_NAME	Region Name	String	100	Descriptive name for the region.
3	ERROR_CODE	Error Code	Number	10	If the operator has work in progress for a specific region, the host return an informational message telling them the region which they have work in.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.2 Process Distribution Region (SAL_VOC_PRC_PTS_REGION)

This message is sent once the operator specifies a valid put-to-store region. This message retrieves the put-to-store configurable parameters for the specified region.

5.2.1 Process Distribution Region Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsGetRegionConfiguration
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number	10	Operator's response to the distribution region prompt.

MOCA Command – "process voice pts region"

5.2.2 Process Distribution Region Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Number for which the operator has permission to perform the current function.
2	REGION_NAME	Region Name	String	100	Descriptive name for the region.
3	SKIP_AISLE_ALLOWED	Skip aisle allowed	Number	1	Determines whether an operator can choose to skip an aisle when performing this task function in this region. The

					device sends operators back to the skipped aisles at the end of the assignment, or (if allowed) the operator can say, "Repick Skips" at any point to return to skipped slots. 0 = operators cannot skip aisles 1 = operators can skip aisles
4	SKIP_SLOT_ALLOWED	Skip slot allowed	Number	1	Determines whether an operator can choose to skip a slot when performing this task function in this region. The device sends operators back to the skipped aisles at the end of the assignment, or (if allowed) the operator can say, "Repick Skips" at any point to return to skipped slots. 0 = operators cannot skip slots 1 = operators can skip slots
5	REPICK_SKIPS	Repick Skips	Number	1	Determines whether an operator can choose to return to skipped items at any time during an assignment. 0 = operators cannot use the re-pick skips command 1 = operators can use the re-pick skips command
6	SIGNOFF_ALLOWED	Signoff Allowed	Number	1	Determines whether an operator can sign off in the middle of an assignment 0 = operators cannot sign off in the middle of an in-progress assignment 1 = operators can sign off during an in-progress assignment
7	PASS_ASSIGN	Pass Assignment	Number	1	Determines whether an operator is allowed to pass the assignment 0 = operator is not allowed to pass assignment 1 = operator is allowed to pass assignment
8	ALLOW_MULT_OPEN_CONTAINERS	Allow multiple open containers	Number	1	Determines if there can be multiple open containers at a location 0 = Only 1 open container permitted 1 = Multiple open containers permitted
9	MAX_LICENSES	Maximum number of Licenses	Number	10	Determines the maximum number of licenses that can be grouped
10	SYS_GEN_CTN_ID	System Generates container ID	Number	1	Determines whether the operator is prompted for the container ID when opening a new container or if the system generates the container ID 0 = operator is prompted for a container number. 1 = operator is not prompted and the system generates the container number
11	SPOKEN_LICENSE_LEN	Spoken License Length	Number	2	Number of digits the operator must speak to specify a license. 0 indicates any length is valid.
12	CONFIRM_LICENSE	Confirm License	Number	1	Determines if the operator is prompted to confirm the spoken license plate number during license induction 0 = Prompt operator to confirm spoken license 1 = Do no prompt operator to confirm spoken license
13	VALIDATE_CNT_ID	Validate Container ID	Number	1	Determines when an operator must validate the container number 0 = operator only needs to validate the container number when there are multiple open containers 1 = operator must always validate put container
14	VALIDATE_CNT_ID_LEN	Validate container ID Length	Number	2	The number of digits the operator must speak to confirm a container. 0 indicates any length is allowed.
15	CONFIRM_SPOKEN_LOC	Confirm Spoken Location	Number	1	Determines if the operator will be prompted to confirm the spoken location at the location prompt. 0 = operator does not confirm the spoken location 1 = operator must confirm spoken location

16	SPOKEN_LOC_LEN	Spoken Location Length	Number	2	The number of digits the operator must speak to confirm a location. 0 indicates any length is allowed.
17	CHECK_DIGIT_LEN	Check Digit Length	Number	2	The number of digits the operator must speak to confirm the location check digit.
18	USE_LUT	Use LUT	Number	1	Determines if the voice application should send status updates using a LUT versus an ODR. 0 = Do not use LUT for update status data messages 1 = Use LUT for update status data messages
19	CUR_PRE_AISLE_DIR	Current Pre-Aisle	String	50	Task variable. Sets the maximum length for the pre-aisle in the Get Puts message. The length is defined by the number of X's in the field. For example, if the field length is 3, the field should contain XXX
20	CUR_AISLE	Current Aisle	String	50	Task variable. Sets the maximum length for the current aisle in the Get Puts message. The length is defined by the number of X's in the field. For example, if the field length is 3, the field should contain XXX
21	CUR_POST _AISLE_DIR	Curent Post Aisle	String	50	Task variable. Sets the maximum length for the post-aisle in the Get Puts message. The length is defined by the number of X's in the field. For example, if the field length is 3, the field should contain XXX.
22	CUR_SLOT	Current Slot	String	50	Task variable. Sets the maximum length for the slot in the Get Puts message. The length is defined by the number of X's in the field. For example, if the field length is 3, the field should contain XXX
23	PRINT_EXCEPTION _LABEL	Print Exception Label	Number	1	Determines if a label will be printed when un-expected residual items remain when an assignment is complete. 0 = Do not print an exception label. 1 = Print an exception label.
24	PRINT_RESIDUAL _LABEL	Print Residual Label	Number	1	Determines if a label will be printed when expected residual items remain when an assignment is complete. 0 = Do not print a residual label. 1 = Print a residual label.
25	FILTER_DIRECTED _WORK	Filter Directed Work	Number	1	Determines if the user should be prompted for additional directed work filters. 0 = Do not prompt. 1 = Prompt for additional filters
26	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
27	ERROR_DESCR	Error Message	String	255	Error Message to be spoken to the user.

5.3 Get PTS Flow-Through Location (SAL_VOC_GET_PTS_FT_LOC)

This message is sent after the operator selects a region. The device sends this message so the host can return the suggested flow-through location where the licenses are staged.

5.3.1 Get PTS Flow-Through Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsGetFTLocation
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number	10	Region number the user currently has selected and is requesting the flow through location for.
6	BUILDING_ID	Building ID	String	20	

					The building ID used to filter directed work operations.
7	WORK_ZONE_ID	Work Zone ID	String	20	The work zone ID used to filter directed work operations.
8	AISLE_ID	Aisle ID	String	10	The aisle ID used to filter directed work operations.

MOCA Command – "get voice pts flow through location"

5.3.2 Get PTS Flow-Through Location Event Output

#	EO Field	Comment	Type	Size	Description
1	FLOW_THROUGH_LOC	Flow Through Location	String	10	Suggested flow-through location spoken to the operator. Note that if a value for this field is a double-digit number, like 14, or alphanumeric, like AB14, there should be spaces between the characters. For example, AB14 should be populated as A B 1 4. Note that all letters should be in upper case.
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.4 PTS Verify License (SAL_VOC_VALIDATE_PTS_LPN)

This message is sent when the operator speaks or scans a license number. The device sends this message so the system can verify the selected license.

5.4.1 PTS Verify License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsVerifyLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LICENSE	License	String	50	License plate that was spoken or scanned by operator.
6	PARTIAL_LICENSE	Partial License	String	1	0 = License is a full license number. 1 = License is a partial license number.

MOCA Command – "process voice pts lpn"

5.4.2 PTS Verify License Event Output

#	EO Field	Comment	Type	Size	Description
1	LICENSE	License	String	10	The requested license number, if found. Will be the full license number.
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred. 4 indicates multiple licenses were found. A record will be returned for each license and the user will be able to review the list of licenses.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.5 Get Distribution Assignment (SAL_VOC_GET_PTS _ASGN)

This message is sent when the operator finishes selecting licenses. The system can build the assignment and send assignment information to the device.

5.5.1 Get Distribution Assignment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsGetAssignment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "get voice pts assignment"

5.5.2 Get Distribution Assignment Event Output

#	EO Field	Comment	Type	Size	Description
1	GROUP_ID	Group ID	String	100	The group identifier that is assigned to each license in the group. The group ID is transmitted with all subsequent transactions to the host. Note that all assignments are considered grouped assignments even if there is only one license in the group.
2	TOTAL_SLOTS	Total Slots	Number	10	Number of slots for this assignment. This value is spoken at the assignment summary prompt.
3	TOTAL_ITEMS	Total Items	Number	10	Number of unique item numbers for this assignment. This value is spoken at the assignment summary prompt.
4	TOTAL_EXPECTED_RESIDUAL	Total Expected Residual	Number	10	Total residual quantity for each item expected for this assignment
5	EXP_RET_LOC	Expected Return Location	String	50	Location where expected residuals should be returned. If defined, this value is spoken to the operator at the end of the assignment when residuals are expected. Note that if a value for this field is a double-digit number, like 14, or alphanumeric, like AB14, there should be spaces between the characters. For example, AB14 should be populated as A B 1 4. Note that all letters should be in upper case.
6	RET_CHK_DIGIT	Return Check Digit	String	5	Check digit the operator must speak when returning expected residuals.
7	UNEXP_RET_LOC	Unexpected Return Location	String	50	Location where unexpected residuals should be returned. If defined, this value is spoken to the operator at the end of the assignment when unexpected residuals remain. Note that if a value for this field is a double-digit number, like 14, or alphanumeric, like AB14, there should be spaces between the characters. For example, AB14 should be populated as A B 1 4. Note that all letters should be in upper case.
8	UNEXP_CHK_DIGIT	Unexpected Check Digit	String	5	Check digit the operator must speak when returning unexpected residuals.
9	PERFORMANCE_LAST	Last Assignment Performance	Number	10	Performance for the last assignment. This value is spoken at the assignment summary prompt if requested.
10	PERFORMANCE_DAILY	Daily Performance	Number	10	Performance for the day. This value is spoken at the assignment summary prompt if requested.
11	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
12	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.6 Get PTS Puts (SAL_VOC_GET_PTS _PUTS)

This message is sent following a successful Get Assignment host response. The device sends this message so the host can send individual put records.

5.6.1 Get PTS Puts Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsGetPuts
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.

MOCA Command – "list voice pts puts"

5.6.2 Get PTS Puts Event Output

#	EO Field	Comment	Type	Size	Description
1	STATUS	Status	String	1	The put status. This field identifies whether the item has been put or skipped. N = Not put P = Put S = Skipped Note: Will be sent as N for all puts. Used for internal tracking on the device.
2	SEQUENCE	Sequence	Number	10	Unique identifier for the put.
3	LOC_NUM	Location Identifier	String	50	Identifier for the put location. This value is transmitted back to the system in the put transaction.
4	LICENSE	License	String	50	License plate number of the related specified license.
5	PRE_AISLE_DIRECTION		String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the task exactly as provided, so if you want the pre-aisle direction to be Building 1, you must provide "Building 1" in this field. Note that you should put spaces between digits if you want the device to speak each number of the value separately. For example, this field is set to 1 2, device says, "one two", but if it set to 12, device says, "twelve".
6	AISLE	Aisle	String	50	Aisle where item count should occur. The word "aisle" is part of the prompt where aisle is stated, so you only have to provide the aisle identifier, such as 42 for Aisle 42. Note that you should put spaces between digits if you want the device to speak each number of the value separately. For example, this field is set to 1 2, device says, "one two", but if it set to 12, device says, "twelve".
7	POST_AISLE_DIRECTION		String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the task exactly as provided, so if you want the post-aisle direction to be Bay 1, you must provide "Bay 1" in this field. Note that you should put spaces between digits if you want the device to speak each number of the value separately. For example, this field is set to 1 2, device says, "one two", but if it set to 12, device says, "twelve".
8	SLOT	Slot	String	50	Identification for the slot. The word "slot" is part of the prompt where slot is stated, so you only have to provide the slot identifier, such as 23 for Slot 23. Note that you should put spaces between digits if you want the device to speak each number of the value

					separately. For example, this field is set to 1 2, device says, "one two", but if it set to 12, device says, "twelve".
9	CHK_DIGIT	Check Digit	String	5	Check digits for the location. The operator must verify that he or she is at the appropriate slot by speaking the value in this field exactly, including leading 0s.
10	SPOKEN_LOC_VALIDATION	Unused	String	5	Not currently used
11	SCANNED_LOC_VALIDATION	Unused	String	5	Not currently used
12	QTY_TO_PUT	Quantity to Put	Number	9	The number of items the operator should transfer from the specified license to the container.
13	QTY_PUT	Quantity Put	Number	9	Then number put for this item. This field is initially set to zero. If this put has been partially put, the partial value should be sent in this field to the device.
14	ITEM_NUM	Item Number	String	50	The item number for the item being put.
15	ITEM_DESCR	Item Description	String	255	The description of the item being put. Spoken at the put prompt if multiple items are currently being put.
16	UOM	Unit of Measure			Unit of measure of the product being put. This is spoken at the put prompt.
17	OVERPACK_ALLOWED	Overpack Allowed	Number	1	Determines if this put can be overpacked 0 = the put cannot be overpacked 1 = the put can be overpacked
18	RESIDUAL_QTY	Residual Quantity	Number	9	The total expected residual quantity for the item. This value must be the same for each distinct item within the license. If overpacking of a put is allowed, this value will be the amount of product that can be overpacked for the put. If an operator overpacks a put, the overpacked amount will be deducted from this value. The new value will be used to determine the how many items can be overpacked for subsequent puts of this item within the license.
19	VAR_WGT_FLG	Variable Weight Flag	Number	1	Whether the pick is a variable-weight item. Determines whether variable weight(s) should be requested for this pick. 0 = terminal does not prompt for weight. 1 = terminal prompts for weight.
20	VAR_WGT_MIN	Minimum Weight Allowed	String	10	The minimum weight allowed to be spoken by the operator for the put.
21	VAR_WGT_MAX	Maximum Weight Allowed	String	10	The maximum weight allowed to be spoken by the operator for the put.
22	READY_ALLOWED	Ready Allowed	Number	1	Determines if the operator can confirm a put using the command ready when a complete load is destined for a single distribution location. 0 = Ready not allowed. 1 = Ready allowed.
23	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
24	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.7 Process PTS Put (SAL_VOC_PRC_PTS _PUT)

This message is sent each time an item is put to a slot or shorted. This message reports how much of the item was put to the slot. If weights are being captured, a separate entry will be sent for each weight captured.

5.7.1 Process PTS Put Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsPut

2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.
6	LOC_NUM	Location ID	String	100	The ID of the location returned in a put record by the Get Puts message.
7	ITEM_NUM	Item Number	String	50	The item number that is returned in the Get Puts message.
8	PUT_ID	Unique Put ID	Number	10	Unique identifier for the put that is returned in the Get Puts message.
9	QTY_PUT	Quantity Put	Number	10	The quantity put to slot.
10	CONTAINER_ID	Container Number	String	50	The number for the container into which the item was put.
11	LICENSE	License Number	String	50	The license number the item was put from.
12	PARTIAL	Partial Flag	Number	1	Indicates if this is the final quantity for this put or if more will be put 0 = Final amount put 1 = Partial amount put
13	CATCH_QTY	Weight per quantity	Number	10	The weight spoken by the user for each quantity during the capture weight. Blank for non-weight tracked items.
14	STATUS	Status	Number	1	Indicates if processing should occur. If multiple records are sent in for weight capture, the status will indicate when the last weight is sent in. 0 = Do not process, more weights coming. 1 = Process, all information received.
15	SCANNED_WEIGHT	Weight Scanned	String	100	The weight scanned for each quantity during the capture weight. Blank for non-weight scanned items.

MOCA Command – "process voice pts put"

5.7.2 Process PTS Put Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.8 Process PTS Update Status ODR (SAL_VOC_PRC_PTS _UPDATE_ODR)

This message is sent at two points in the put-to-store VoiceApplication flow when a location is skipped:

- This message is sent immediately after the operator skips a location.
- If one or more locations are skipped by an operator, the device sends this message again when it reaches the end of the put list before it starts at the beginning again.

Depending on when this message is sent , it does the following:

- When the operator skips a location, one message is sent, and the message identifies that a location was skipped. In this case, the What to Update To field is set to S so that the host system is notified that the appropriate locations were skipped.
- When sent at the end of the put list, one message is sent, and it identifies that all the skipped locations in the assignment should be updated. In the case, the What to Update To field is set to N so that the skipped locations are reset to no put and the operator is redirected to those locations.

5.8.1 Process PTS Update Status ODR Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsUpdateStatus

2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.
6	LOC_NUM	Location ID	String	50	If skipped aisle or slot, location identifier for the current put; otherwise, blank.
7	UPDATE	Update	Number	1	0 = update slot (this is sent when an operator skips a slot) 1 = update aisle (this is sent when an operator skips an aisle) 2 = update entire assignment (this is sent to set all skipped items back to not put)
8	UPDATE_TO	Update To	String	1	N = update status to not put (currently, this is set to N when the what to update field = 2) S = update status to skipped

MOCA Command – " process voice pts update"

5.9 Process PTS Update Status LUT (SAL_VOC_PRC_PTS _UPDATE)

This message is sent at two points in the put-to-store VoiceApplication flow when a location is skipped:

- This message is sent immediately after the operator skips a location.
- If one or more locations are skipped by an operator, the device sends this message again when it reaches the end of the put list before it starts at the beginning again.

Depending on when this message is sent, it does the following:

- When the operator skips a location, one message is sent, and the message identifies that a location was skipped. In this case, the What to Update To field is set to S so that the host system is notified that the appropriate locations were skipped.
- When sent at the end of the put list, one message is sent, and it identifies that all the skipped locations in the assignment should be updated. In this case, the What To Update To field is set to N so that the skipped locations are reset to not put and the operator is redirected to those locations.

5.9.1 Process PTS Update Status LUT Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsUpdateStatus
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.
6	LOC_NUM	Location ID	String	50	If skipped aisle or slot, location identifier for the current put; otherwise, blank.
7	UPDATE	Update	Number	1	0 = update slot (this is sent when an operator skips a slot) 1 = update aisle (this is sent when an operator skips an aisle) 2 = update entire assignment (this is sent to set all skipped items back to not put)
8	UPDATE_TO	Update To	String	1	N = update status to not put (currently, this is set to N when the what to update field = 2) S = update status to skipped

MOCA Command – "process voice pts update"

5.9.2 Process PTS Update Status LUT Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.10 Pass Distribution Assignment (SAL_VOC_PRC_PTS _PASS_ASGN)

This message is sent when the operator requests to pass the assignment. The device sends this message to let the system pass the assignment.

5.10.1 Pass Distribution Assignment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsPassAssignment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.

MOCA Command – "process voice pts pass assignment"

5.10.2 Pass Distribution Assignment Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.11 Get Expected Residuals (SAL_VOC_GET_PTS_RESID)

This message is sent after the operator indicates that they have residuals. The device sends this message so the system can provide a list of expected residual values to the device. Due to overpacking, what was expected as a residual at the beginning of a put-to-store assignment may not be the expected residual value at the end of the assignment. As puts occur, the expected residual value is updated. When the operator indicates that they have residuals, the device requests this list from the host so that it can step the operator through the residuals license by license, item by item.

5.11.1 Get Expected Residuals Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsGetExpectedResidual
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.

MOCA Command – "get voice pts residuals"

5.11.2 Get Expected Residuals Event Output

#	EO Field	Comment	Type	Size	Description
1	LICENSE	License	String	10	The requested license number, if found. Will be the full license number.
2	ITEM_NUM	Item Number	String	50	The item number of the residual.
3	RESIDUAL_QTY	Residual Quantity	Number	10	The current expected residual value for this license/item.
4	PROCESSED	Processed	String	1	Literal string "N" - reserves space for the task to use.
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.12 Process PTS Stop Assignment (SAL_VOC_PRC_PTS_STOP_ASGN)

The message indicates to the system that the operator has completed the specified assignment. This message is sent when a PTS assignment is complete – all product is put-to-store, all skips resolved, and all residuals handled.

5.12.1 Process PTS Stop Assignment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsStopAssignment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	The group ID value returned in the Get Assignment transaction.

MOCA Command – "process voice pts stop assignment"

5.12.2 Process PTS Stop Assignment Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.13 Process PTS Container (SAL_VOC_PRC_PTS_CONTAINER)

This message is sent when the operator requests to pen, close or review containers. When the operator requests to open a container, the devices sends this message so the host can open a new container. When the operator requests to close a container, the device sends this message so the host can validate and close the specified container.

5.13.1 Process PTS Container Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsContainer
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REQUEST	Request	Number	1	Indicates the type of request being sent in this message. 0 = Return a list of containers for the specified location. 1 = Close the specified container. 2 = Open the new container.
6	LOC_NUM	Location ID	String	50	The identifier for the put location. The system then uses this value t identify the correct put location.
7	CONTAINER_ID	Container ID	String	100	Scanned or Spoken Container ID

MOCA Command – "process voice pts container"

5.13.2 Process PTS Container Event Output

#	EO Field	Comment	Type	Size	Description
1	LOC_NUM	Location ID	String	50	The location containing the container.
2	CONTAINER_ID	Container ID	String	100	The container ID
3	SPOKEN_CONTAINER_ID	Unused	String	100	Not currently used
4	ERROR_CODE	Error Code	Number	10	Error code. After an open container: 0 = open successful 1 = attempted to open – container already exists After a close container: 0 = close successful 3 = attempt to close when container number is not specified and multiple open

					containers. No error message spoken. 4 = attempt to close with no open container at location 5 = attempt to close already closed container 8 = attempt to close when container specified and multiple found. Make operator loop through list. No error message spoken. After a list containers: 6 = No open containers found at location 7 = Multiple open containers found. Make operator review the list.
5	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.14 Process PTS Container Label (SAL_VOC_PRC_PTS_PRT_LABEL)

This message is sent when the operator requests to open a container. The device sends this message so the host can print a container label.

5.14.1 Process PTS Container Label Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsPrintContainerLabel
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	Unique identifier for the group of licenses.
6	PRINTER_NUM	Printer Number	Number	10	The printer number spoken by the operator when requesting a new container. This is the printer where the system sends print jobs.
7	LOC_NUM	Location ID	String	50	The location containing the container.
8	CONTAINER_ID	Container ID	String	100	The container for which the label should be printed.

MOCA Command – "process voice pts container label"

5.14.2 Process PTS Container Label Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.15 Process PTS Residual Label (SAL_VOC_PRC_PTS_RES_LABEL)

This message is sent when the operator reports residuals and the system is configured to print residual labels. The device sends this message so the system can print a label for the residuals.

5.15.1 Process PTS Residual Label Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsPrintResidualLabel
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	PRINTER_NUM	Printer Number	Number	10	The printer number spoken by the operator when requesting a new container. This is the printer where the system sends print jobs.
6	LICENSE	License	String	50	

					The license that contains the residuals.
7	ITEM_NUM	Item Number	String	50	The item number for the residuals. This is only filled for exception labels.
8	TYPE	Label Type	Number	1	Indicates if this is a label for expected or unexpected residual. 0 = expected residual 1 = unexpected residual.

MOCA Command – "process voice pts residual label"

5.15.2 Process PTS Residual Label Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.15 Validate Distribution Location (SAL_VOC_VALIDATE_PTS_LOC)

This message is sent when the operator attempts to close a container when they are not at a location. The device sends this message so the system can verify that the location spoken or scanned by the operator is a valid location. The location returned by this call will be sent on the

5.15.1 Validate Distribution Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsVerify Location
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	SCANNED	Scanned	Number	1	Determines if the location to verify was spoken or scanned by the operator. 0 = The location to verify value was spoken. 1 = The location to verify value was scanned.
6	LOC_NUM	Location Number	String	50	The spoken or scanned location to be validated.
7	LOC_CHK	Location Check Digit	String	3	The spoken location check digit.

MOCA Command – "validate voice location"

5.15.2 Validate Distribution Location Event Output

#	EO Field	Comment	Type	Size	Description
1	LOC_NUM	Location Number	String	50	The validated location number.
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

5.16 Process Distribution Delivery (SAL_VOC_PRC_PTS_DELIVERY)

This message is sent after the user confirms the deposit of the residual inventory. The device sends this message to inform the system that residual inventory has been deposited and where. If there are separate locations for expected and unexpected residuals, this will allow the system to track where the inventory was taken. Also, if a user signs off prior to completing the deposit of all inventory, the inventory that has already been deposited will be tracked.

5.16.1 Process Distribution Delivery Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsDelivery
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier

4	OPERATOR	Login ID	String	30	Operator Login ID
5	GROUP_ID	Group ID	String	50	Unique identifier for the group of licenses.
6	LICENSE	License	String	50	The license number that is being deposited
7	LOC_NUM	Location Number	String	50	The location number where the inventory was deposited. Will either be the expected or unexpected residual location.
8	ITEM_NUM	Item Number	String	50	Item number that contained an incorrect count. Used only if unexpected inventory was found and multiple items exist on the LPN
9	UNEXPECTED	Unexpected Residuals	Number	1	Indicates if there were unexpected residuals. 0 = No unexpected residuals. 1 = Unexpected residuals
10	QTY	Residual Quantity	Number	10	Residual quantity spoken by the user. Only used if user is counting residuals and an unexpected quantity is found.

MOCA Command – "process voice pts delivery"

5.16.2 Process Distribution Delivery Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6. Putaway Messages

The putaway function allows a voice operator to perform standard putaway operations after the product has been received. These include identifying a staging location, selecting an alternate deposit location and cancelling a putaway assignment. This functionality was added with RedPrairie 2011.1

6.1 Get Putaway Regions (SAL_VOC_GET_PA_REGION)

This message is sent when the operator specifies the putaway function. This message is also sent when the operator says the Change Region command when performing putaway. This message returns the regions where the operator is allowed to perform putaway.

6.1.1 Get Putaway Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsValidPutAwayRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "list voice pa regions"

6.1.2 Get Putaway Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Regions number of the region where the operator has permission to perform putaway work. Note that this value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says

					this name to confirm that the operator is requesting the appropriate region.
3	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6.2 Process Putaway Region (SAL_VOC_PRC_PA_REGION)

This message is sent when the operator specifies a valid putaway region. The message allows the user to confirm a Putaway region to the WMS

6.2.1 Process Putaway Region Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsRequestPutAway Regions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number	2	Region Number of region requested by the operator.
6	ALL_REGIONS	All Regions	Number	1	Indicates if operator specified to work in all regions. 0 = No 1 = Yes

MOCA Command – "process voice region"

6.2.1 Process Putaway Region Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6.3 Putaway Region Configuration (SAL_VOC_PRC_PA_REGION_CFG)

This message is sent once the operator specifies one or more valid regions (and the operator is performing the putaway function). This message retrieves the putaway configurable parameters for the region(s) specified in the Request Region message.

6.3.1 Putaway Region Configuration Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsPutawayRegionConfiguration
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number	2	Region Number of region requested by the operator.

MOCA Command – "process voice pa region config"

6.3.2 Putaway Region Configuration Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Regions number of the region where the operator has permission to perform putaway work. Note that this value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the

					operator is requesting the appropriate region.
3	CAPTURE_START_LOC	Capture Start Location	Number	1	Determines when the VoiceApplication captures the start location.If multiple records are sent to the VoiceApplication, the VoiceApplication uses the value specified for the first record when determining VoiceApplication flow. 1 = Once before specifying license (s) for the first time 2 = Every time before specifying license (s) 3 = Every time before each license is putaway Any other value = never
4	ALLOW_RELEASE _PLATE	Allow Release Plate	Number	1	Determines if the operator can use the release license plate command. 1 = Yes Any other value = No
5	ALLOW_CANCEL _LICENSE_PLATE	Allow Cancel License Plate	Number	1	Determines if the operator can use the cancel license plate command. 1 = Yes Any other value = No
6	ALLOW_OVERRIDE _PUT_LOC	Allow override put location	Number	1	Determines if the operator can use the override location command. 1 = Yes Any other value = No
7	ALLOW_OVERRIDE _QTY_PICK	Allow override quantity pick	Number	1	Determines if the operator can override a quantity they were told to pick up. 1 = Yes Any other value = No
8	ALLOW_PARTIAL_PUT	Allow Partial Put	Number	1	Determines if the operator can use the partial command. 1 = Yes Any other value = No
9	CAPTURE_PICK_QTY	Capture Pick Quantity	Number	1	Determines if the VoiceApplication prompts the operator to enter the quantity picked up. 1 = Yes Any other value = No
10	CAPTURE_PUT_QTY	Capture Put Quantity	Number	1	Determines if the VoiceApplication prompts the operator to enter the quantity put. 1 = Yes Any other value = No
11	VOC_SPOKEN _LICENSE_LEN	Spoken License Length	Number	2	This parameter determines how many digits of the license plate are spoken to the operator whenever the device says the license plate. The VoiceApplication speaks the last n digits of the license plate. If this is a number less than 1 or greater than 99, the VoiceApplication speaks all digits of the license plate
12	SPOKEN_LICENSE_LEN	Spoken License Length	Number	2	This parameter determines how many digits the operator must speak when specifying the license plate to putaway. The VoiceApplication proceeds after the operator speaks the specified number of digits. If this is a number less than 1 or greater than 99, the operator must say "ready" for the VoiceApplication to accept the spoken value.
13	SPOKEN_LOC_LEN	Spoken Location Length	Number	2	This parameter determines how many digits the operator must speak when specifying the start location or putaway location. The VoiceApplication proceeds after the operator speaks the specified number of digits. If this is a number less than 1 or greater than 99, the operator must say "ready" for the VoiceApplication to accept the spoken value.
14	CHECK_DIGIT_LEN	Check Digit Length	Number	2	This parameter determines how many digits the operator must speak when specifying the location check digits. If this is a number less than 1 or greater than 99, the operator must say "ready" for the VoiceApplication to accept the spoken value.

15	MAX_LICENSES	Maximum Licenses	Number	2	This parameter determines the maximum number of license plates an operator can request to putaway. If this value is a number less than 1 or greater than 99, the VoiceApplication allows the operator to request 1 license plate to putaway.
16	EXCEPTION_LOC	Exception Location	String	100	Determines if the VoiceApplication asks the operator to confirm spoken license and location values. 1 = Yes Any other value = No
17	CONFIRM_SPOKEN	Confirm Spoken Values	Number	1	Determines if the VoiceApplication asks the operator to confirm spoken license and location values. 1 = Yes Any other value = No
18	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
19	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6.4 Verify Putaway License (SAL_VOC_VALIDATE_PA_LPN)

This message is sent when the operator is performing putaway and specifies a license plate. The purpose of this message differs, depending on whether licenses in this region are verified or not. If licenses should not be verified, this message is used to simply report the license to the host system. In this scenario, putaway work flow is always operator-directed. If licenses should be verified, this message is used to send the license to the host system so that it can be validated. In this scenario, putaway work flow is system-directed as long as the host returns a value for slot in the Get PutAway message (otherwise, it is operator-directed).

6.4.1 Verify Putaway License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsVerifyPutAway
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LICENSE	License	String	100	Alphanumeric license plate spoken or scanned by the operator
6	SCANNED	Scanned	Number	1	0 = license was spoken by the operator 1 = license was scanned by the operator

MOCA Command – "process voice pa lpn"

6.4.2 Verify Putaway License Event Output

#	IFD Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred. 4 indicates multiple licenses were found. A record will be returned for each license and the user will be able to review the list of licenses.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6.5 Get PutAway Info (SAL_VOC_GET _PUT_AWAY)

This message is sent once the operator has specified all the valid license plates that either the operator wants to specify or that the system allows the operator to specify. Note: This message only occurs if the host is verifying license plates. This message retrieves the information associated with the license plate(s) the operator reserved in the Verify License message(s). Note that the order in which the host system sends license plates will be the order in which the operator will be directed to put them away.

6.5.1 Get Putaway Info Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTPtsVGetPutAway

2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "get voice pa information"

6.5.2 Get Putaway Info Event Output

#	EO Field	Comment	Type	Size	Description
1	LICENSE	License	String	100	Unique identifier for a putaway license.
2	REGION_NUM	Region Number	Number	10	Region number of the region where the operator has permission to perform putaway work. Note that this value that the operator must speak to request this region.
3	LOC_NUM	Location Number	String	100	This is the location identifier that is eventually sent to host in the Put License message. The reason for this parameter is that it's possible for the host system to maintain a unique location identifier that corresponds to both the spoken and scanned location values. This should simplify the host's logic for the Put License message so the host doesn't have to test the Put License location parameter against both the spoken and scanned values in their database.
4	SCANNED_VALIDATION	Scanned Validation	Number	100	Exact value the operator must scan to verify that he/she is at the correct location.
5	PRE_AISLE_DIR	Pre Aisle Direction	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i.e., left-justified). Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
6	AISLE	Aisle	String	100	Aisle where the item should be put. The value sent in this field should be right-padded (i.e., left-justified). The device says this value to direct operator to an aisle. Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve"). The host should not include the word "aisle" in the value.
7	POST_AISLE_DIR	Post Aisle Direction	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i.e., left-justified). Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
8	SLOT	Slot	String	100	Slot where license plate should be putaway. The value sent in this field should be right-padded (i.e., left-justified). The value in this field is spoken by the VoiceApplication exactly as provided. If a value is not specified for slot, the device will prompt the operator to specify the putaway location for this license plate. Note that you should put spaces between digits if you want the

					device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
9	CHK_DIGIT	Check Digit	String	5	Numeric check digits associated to the slot where license plate should be putaway. The operator must speak this value exactly – including leading 0's.
10	ITEM_NUM	Item Number	String	100	Item number of product associated to that license plate.
11	ITEM_DESCR	Item Description	String	100	Item description of product associated to that license plate.
12	QTY	Quantity	Number	9	Quantity to putaway. This is only required when slot is null. This value should take into account previous puts for a particular license plate. For example: if an operator put 8 out of 10 away then signed off and back on, this value should be 2 when the operator requests the license plate again.
13	GOAL_TIME	Goal Time	Number	10	The VoiceAppplication speaks this value when requested by the operator.
14	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
15	ERROR_DESCR	Error message	String	255	Error message to be spoken to the user.

6.6 Process Put away Deposit (SAL_VOC_PRC_PA_DEPOSIT)

This message is sent once the operator puts away either (a) the entire quantity of a license plate or (b) all the quantity an operator specifies can be put a location for a license plate. The device sends this message to inform the host how much of the item associated with the license plate was putaway and where it was putaway.

6.6.1 Process Put away Deposit Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLUTForkPutAwayLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LICENSE	License	String	50	This is the license plate the operator has putaway. This value is either: • The license plate value received from the Get PutAway message • The license plate value specified by the operator.
6	QTY_PUT	Quantity Put	Number	10	This value is either: • 0 (zero) when host is not verifying license plates and Quantity Verification is off. • The Quantity value received from the Get PutAway message (Capture Pick-Up Qty is off and Capture Put QTY is off) • The quantity specified by the operator (Capture Pick-Up Qty is on or Capture Put QTY is on)
7	LOC_NUM	Location Number	String	100	This value is either: • The location identifier value received from the Get PutAway message if the host is validating licenses (system-directed). • The location identifier value received from the Verify Location message in an operator-directed region. • The location identifier value received from the Get

					Alternate Put Location message when the operator used the override or partial command in a system directed region. • Blank if the operator used the cancel license command.
8	PUT_STATUS	Put Status	Number	1	Indicates if the put is complete. 0 = Partial Put – only some of the quantity was put in a location. Another Put License message will occur for this license plate. 1 = complete put – the remaining quantity was put. No additional Put License messages will occur for this license plate. 2 = canceled put – the operator used the Cancel command. No additional Put License messages will occur for this license plate. 3 = released put – the operator used the release license command. No additional Put License messages will occur for this license.
9	REASON_CODE	Reason Code	Number	2	This is the reason code specified by the operator during the cancel process. Otherwise this value is blank.
10	START_TIME	Start Time	String	50	This is the time the operator started putting away this license. Operators can request multiple licenses with the Get PutAway data message, so this field is necessary to record the time the operator started putting away this specific license. Format: mm-dd-yy hh:mm:ss

6.6.2 Process Put away Deposit Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

6.7 Verify Location (SAL_VOC_VALIDATE_LOC)

This transaction is a copy of a transaction defined in the sigon messages. The same transaction will be called in both places. It is just repeated here for clarity as it is used in the putaway process. This will not be used when an operator is system directed to a location. The transaction is used to verify a location specified by the operator during undirected putaway.

6.7.1 Verify Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTCoreVerifyLocation
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	SCANNED	Scanned	String		0 = spoken by operator 1 = scanned
6	LOC_NUM	Location Number	String		Location spoken by the operator
7	LOC_CHK	Location Check Digit	Number		Check digits spoken by the operator if operator also provided the location
8	VERIFY_START	Verify Start Location	String		0 = not verifying the start location 1 = verify start location.

MOCA Command – "validate voice location"

6.7.2 Verify Location Event Output

#	EO Field	Comment	Type	Size	Description
1	LOC_NUM	Location	String	50	Location Number verified by the user
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7. Replenishment Messages

Facilities that use voice terminals now have the ability to perform pallet and case (if tracked at the load level) replenishments. In a simple pallet and case replenishment process, the operator picks up a pallet and delivers it to the required location. Voice putaway functionality lets the operator perform the pickup and deposit activities without having to navigate an RF screen or carry an RF device during the process. This functionality was added with RedPrairie 2011.1

7.1 Valid Replenishment Regions (SAL_VOC_GET_RPL_REGION)

This message is sent when the operator specifies the replenishment function. This message is also sent when the operator says the Change Region command when preforming replenishment. The message returns the regions where the operator is allowed to perform replenishment.

7.1.1 Valid Replenishment Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTFORKValidReplenishmentRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "list voice rpl regions"

7.1.2 Valid Replenishment Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Region number of the replenishment region the Operator has permission to work. Note that this value is the value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the operator is requesting the appropriate region.
3	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.2 Request Replenishment Regions (SAL_VOC_PRC_RPL_REGION)

This message is sent when the operator specifies a valid replenishment region. The message allows the host to record each of the regions requested by an operator.

7.2.1 Request Replenishment Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTForkRequestReplenishmentRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "process voice region"

7.2.2 Request Replenishment Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.3 Replenishment Region Configuration (SAL_VOC_PRC_RPL_REG_CFG)

This message is sent once the operator specifies one or more valid regions (and the operator is performing the replenishment function). This message retrieves the Replenishment configurable parameters for region(s) specified in the Request Region message.

7.3.1 Replenishment Region Configuration Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTFORKReplenishmentRegionConfiguration
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number		Region number of region requested by the operator.

MOCA Command – "process voice rpl region config"

7.3.2 Replenishment Region Configuration Event Output

#	IFD Field	Comment	Type	Size	Description
1	**REGION_NUM**	**Region Number**	**Number**	**10**	**Region number of the region where the operator has permission to perform put away work. Note that this value is the value that the operator must speak to request this region.**
2	**REGION_NAME**	**Region Name**	**String**	**100**	**A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the operator is requesting the appropriate region.**
3	**ALLOW_CANCEL_LICENSE**	**Allow License Cancel**	**Number**	**1**	**Determines if the operator can use the cancel license plate command. 1 = Yes Any other value = No**
4	**ALLOW_OVERRIDE_LOC**	**Allow location override**	**Number**	**1**	**Determines if the operator can use the override location command. 1 = Yes Any other value = No**
5	ALLOW_OVERRIDE_QTY_PICK	Allow Quantity Pick Override	Number	1	Determines if the operator can override a quantity they were told to pick up. 1 = Yes Any other value = No
6	ALLOW_PARTIAL_PUT	Allow Partial Put	Number	1	Determines if the VoiceApplication prompts the operator to enter the quantity picked up. 1 = Yes Any other value = No
7	CAPTURE _PICK_QTY	Capture Pick Quantity	Number	1	Determines if the VoiceApplication prompts the operator to enter the quantity picked up. 1 = Yes Any other value = No
8	CAPTURE_RPL_QTY	Capture Replenishment Quantity	Number	1	Determines if the VoiceApplication prompts the operator to enter the quantity

					replenished. 1 = Yes Any other value = No
9	VOC_SPOKEN_LICENSE_LEN	Spoken License Length	Number	2	This parameter determines how many digits of the license plate are spoken to the operator whenever the device says the license plate. The VoiceApplication speaks the last n digits of the license plate. If this is a number less than 1 or greater than 99, the VoiceApplication speaks all digits of the license plate
10	SPOKEN_LOC_LEN	Spoken Location Length	Number	2	This parameter determines how many digits the operator must speak when specifying the start location or put away location. The VoiceApplication proceeds after the operator speaks the specified number of digits. If this is a number less than 1 or greater than 99, the operator must say "ready" for the VoiceApplication to accept the spoken value.
11	CHECK_DIGIT_LEN	Check Digit Length	Number	2	This parameter determines how many digits the operator must speak when specifying the location check digits. If this is a number less than 1 or greater than 99, the operator must say "ready" for the VoiceApplication to accept the spoken value.
12	EXCEPTION_LOC	Exception Location	String	100	This value is spoken to direct the operator to the exception location during the cancel license plate process. The dialog is "deliver to <Exception location>" The VoiceApplication doesn't speak the prompt if blank.
13	CONFIRM_SPOKEN_LOC	Confirm Spoken Location	Number	1	Determines if the VoiceApplication asks the operator to confirm spoken location values. 1 = Yes Any other value = No
14	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
15	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.4 Get Replenishment (SAL_VOC_GET_RPL)

This message is sent when the VoiceApplication needs to get the next replenishment for an operator. This message retrieves the information required to direct an operator through the replenishment process.

7.4.1 Get Replenishment Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTForkGetReplenishment
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "get voice rpl information"

7.4.2 Get Replenishment Event Output

#	EO Field	Comment	Type	Size	Description
1	RPL_NUM	Replenishment Number	String	100	Unique identifier for this replenishment. This value is sent to the host in the Replenish License message.
2	LICENSE	License	String	100	License to replenish
3	REQ_SPC_LPN	Require License Plate Number	Number	1	Determines if the operator is prompted with license plate value when directed to pick up

					the replenishment. 1 = Yes Any other value = No
4	REGION_NUM	Region Number	Number	10	Specifies which region to use for the configurable parameters.
5	ITEM_NUM	Item Number	String	100	Item Number of product associated to that license.
6	ITEM_DESC	Item Description	String	100	Item Description of product associated to that license.
7	QTY	Quantity	Number	9	Quantity to pick up.
8	RESERVE_PRE_AISLE_DIR	Reserve Pre-Aisle Directed	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i.e., left-justified).Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
9	RESERVE_AISLE	Reserve Aisle	String	100	Aisle where the item should be picked up. The value sent in this field should be right-padded (i.e., left-justified). The device says this value to direct Operator to an aisle. Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve"). The host should not include the word "aisle" in the value.
10	RESERVE_POST_AISLE_DIR	Reserve Post Aisle Directed	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i.e., left-justified). Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
11	RESERVE_SLOT	Reserve Slot	String	100	Slot to pick up the product The device says this value to direct operator to a slot. Slot does not have to be unique among other slots. The value sent in this field should be right-padded (i.e., left-justified). The value in this field is spoken by the VoiceApplication exactly as provided. Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
12	RESERVE_SPOKEN_VALIDATION	Reserve Spoken Validation	String	99	The operator must speak this value exactly – including leading 0's to verify he/she is at the correct pick up location. If this value is blank, the VoiceApplication accepts, "Ready."
13	RESERVE_SCANNED_VALIDATION	Reserve Scanned Validation	String	100	Exact value the operator must scan to verify he/she is at the correct pick up location.
14	DST_PRE_AISLE_DIR	Destination Pre-Aisle Directed	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i.e., left-justified). Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
15	DST_AISLE	Destination Aisle	String	100	

					Aisle where the product should be put away. The value sent in this field should be right-padded (i.e., left-justified). The device says this value to direct operator to an aisle. Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve"). The host should not include the word "aisle" in the value.
16	DST_POST_AISLE_DIR	Destination Post Aisle Directed	String	50	Extra piece of information that can be spoken to the operator when directing the operator to a location. The value in this field is spoken by the VoiceApplication exactly as provided. The value sent in this field should be right-padded (i. e., left-justified). Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
17	DST_SLOT	Destination Slot	String	100	Slot to put the product The device says this value to direct Operator to a slot. Slot does not have to be unique among other slots. The value sent in this field should be right-padded (i.e., left-justified). The value in this field is spoken by the VoiceApplication exactly as provided. If the first record returned has a blank slot, the VoiceApplication allows the operator to specify the alternate put location. Note that you should put spaces between digits if you want the device to speak each number of the value (i.e., if set to 1 2, device says, "one two"; but if set to 12, device says, "twelve").
18	DST_SPOKEN_VALIDATION	Destination Spoken Validation	String	99	The operator must speak this value exactly – including leading 0's to verify he/she is at the correct reserve location. If this value is blank, the VoiceApplication accepts, "Ready."
19	DST_SCANNED_VALIDATION	Destination Scanned Validation	String	100	Exact value the operator must scan to verify he/she is at the correct destination location.
20	DST_LOC_NUM	Destination Location Number	String	100	Sent back to the host in the Replenish License message if Destination Location isn't overridden.
21	GOAL_TIME	Goal Time	Number	10	The VoiceApplication speaks this value when requested by the operator.
22	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
23	ERROR_DESCR	Error Message	String	255	Error message to be spoken to the user.

7.5 Validate License (SAL_VOC_VALIDATE_RPL_LPN)

This message is sent when the device receives the next replenishment and the location is verified by the user. This message sends the location, license, replenishment number, quantity and location to the host in order to validate and move inventory to the voice device.

7.5.1 Validate License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTValRplLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	RPL_NUM	Replenishment Number	String		This is the Replenishment number received from the Get Replenishment message.

6	LICENSE	License	String		This is the spoken License number, can be a partial.
7	QTY	Quantity	Number		Quantity actually picked by operator.

MOCA Command – "validate voice rpl license"

7.5.2 Validate License Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.6 Replenish License (SAL_VOC_PRC_RPL_LPN)

This message is sent once the operator specifies one or more valid regions (and the operator is performing the replenishment function). This message retrieves the Replenishment configurable parameters for region(s) specified in the Request Region message.

7.6.1 Replenish License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTForkReplenishmentLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	RPL_NUM	Replenishment Number	String		This is the Replenishment number received from the Get Replenishment message.
6	QTY_NUM	Quantity Number	Number		The quantity specified by the operator (Capture Pick-Up Qty is on or Capture Put Qty is on).
7	LOC_NUM	Location Number	String		This value is either: • The Destination Location Identifier value received from the Get Replenishment message. • Blank if the operator used the cancel license command.
8	RPL_STATUS	Replenishment Status	Number		Indicates if the Replenish is complete. 0 = Partial Replenish – only some of the quantity was put in a location. Another Replenish License message will occur for this license plate. 1 = Complete Replenish – the remaining quantity was put. No additional Replenish License messages will occur for this license plate2 = Canceled Replenish – the operator used the Cancel command. No additional Replenish License messages will occur for this replenishment.
9	REASON_CODE	Reason Code	Number		This is the reason code specified by the operator during the cancel process. Otherwise this value is blank.
10	START_TIME	Start Time	String		This is the time the operator started this replenishment. Format: mm-dd-yy hh:mm:ss.

MOCA Command – "process voice rpl license"

7.6.2 Replenish License Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.7 Get Reason Codes (SAL_VOC_GET_REASON_CODE)

This transaction is received after the voice operator uses the Cancel command. The transaction creates the valid reason codes for the specified exception. Currently our system doesn't support any reason codes and we return empty for now. User could customize it to return the valid reason codes for their site.

7.7.1 Get Reason Codes Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTCoreGetReasonCodes
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "get voice reason code"

7.7.2 Get Reason Codes Event Output

#	EO Field	Comment	Type	Size	Description
1	REACOD	Reason Code	Number	2	Reason code that the operator could specify for the cancel action.
2	REACOD_DSP	Reason Code Description	String	100	Description of the reason code.
3	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.8 Verify Location (SAL_VOC_VALIDATE_LOC)

This transaction is received after the voice operator specifies a start location or a put location. This will not be received when an operator is directed to a location. The transaction is used to verify a location specified by the operator during replenishment and putaway.

7.8.1 Verify Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTCoreVerifyLocation
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	SCANNED	Scanned	String		0 = location spoken by operator 1 = scanned by operator
6	LOC_NUM	Location Number	String		Location spoken by the operator
7	LOC_CHK	Location Check Digits	Number		Check digits spoken by the operator if operator also provided the location.
8	VERIFY_START	Verify Start	String		0 = not verifying the start location. 1 = verifying the start location.

MOCA Command – "validate voice location"

7.8.2 Verify Location Event Output

#	EO Field	Comment	Type	Size	Description
1	LOCATION_ID	Location ID	String	100	The location identifier that is sent in the Put License or Replenish License transactions.
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

7.9 Get Alternate Put Location (SAL_VOC_GET_ALT_PUT_LOC)

This transaction is received after the voice operator uses the partial (not currently allowed) or the override command. The transaction returns an alternate location to put the remaining quantity.

7.9.1 Get Alternate Put Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLUTForkGetAlternatePut Location
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	FUNCTION_NUMBER	Function Number	Number	2	Function Number user is performing.
6	LICENSE_RPL_NUM	License or Replenishment Number	String	50	License Number or Replenishment Number.
7	LOC_NUM	Location Number	String	100	Location the operator was unable to put the quantity remaining.
8	REMQTY	Remaining Quantity	Number	10	Remaining quantity to put somewhere else.

MOCA Command – "get voice alt put loc"

7.9.2 Get Alternate Put Location Event Output

#	EO Field	Comment	Type	Size	Description
1	PRE_AISLE_DIR	Pre-Aisle Direction	String	50	Extra Piece of information that can be spoken to the operator when directing the operator to a location. Not used by WMS, will always be blank.
2	AISLE	Aisle	String	50	Aisle associated with the location number.
3	POST_AISLE_DIR	Post Aisle Direction	String	50	Extra Piece of information that can be spoken to the operator when directing the operator to a location. Not used by WMS, will always be blank.
4	SLOT	Location's Slot	String	50	This is typically part of the location Number.
5	LOC_CHK_DIGIT	Location Check Digits	String	5	Location's short code can be used to identify a location.
6	SCANNED_VALIDATION	Scanned Validation	String	100	Exact value the operator must scan to verify that he/she is at the correct location.
7	LOC_NUM	Location Identifier	String	100	This is the location identifier returned by the WMS to the voice device for Put Away and Put Replenishment.
8	ERROR_CODE	Error Code	Number	10	Error Code. 0 indicates no error occurred.
9	ERROR_DESCR	Error Message	String	255	Error message to be spoken to the user.

8. Loading Messages

2011.1 RedPrairie functionality added the ability for voice users to load pallets into a trailer. This functionality includes, Retrieving trailer load work based on either the dock ID or trailer number, perform directed and undirected trailer loading, unload a loaded trailer, speak a configuration number of digits to identify a trailer, and speak or scan identifiers when required during loading.

8.1 Valid Loading Regions (SAL_VOC_GET_LDG_REGION)

This message is sent when the operator selects the loading function. The device sends this message to get the valid loading region(s).

8.1.1 Valid Loading Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutLoadingValidRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "list voice ldg regions"

8.1.2 Valid Loading Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Region number where the operator has permission to perform the current function. Note that this value is the value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the operator is requesting the appropriate region.
3	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.2 Request Loading Region (SAL_VOC_PRC_LDG_REGION)

This message is sent when the operator selects a valid loading region. The device sends this message to allow the host system to record the region requested by the operator.

8.2.1 Request Loading Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutLoadingRequestRegion
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	String		Region where the operator has permission to perform the current function

MOCA Command – "process voice region"

8.2.2 Request Loading Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.3 Loading Region Configuration (SAL_VOC_PRC_LDG_REGION)

This message is sent when the system receives the user-selected valid region number from the device. This message gets the parameters for the returned region number and then sends them to the device.

8.3.1 Loading Region Configuration Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutLoadingRegionConfiguration

2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "process voice region"

8.3.2 Loading Region Configuration Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Region number where the operator has permission to perform the current function. Note that this value is the value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the operator is requesting the appropriate region.
3	USE_DIRECTED_WORK	Use directed work	Number	1	A flag that determines whether or not the region is for directed or undirected work. If one, we have directed work and the system will assign the user the next available load. If zero, we have undirected work and the user must specify work by saying a load number.
4	SPOKEN_LICENSE_LEN	Spoken License Length	Number	10	The number of digits the user must speak to specify a license number.
5	SPOKEN_TRAILER_LEN	Spoken Trailer Length	Number	2	The number of digits the user must speak to specify a trailer number.
6	MAX_CONSOLIDATION	Max Consolidation	Number	2	Currently unsupported. Is hard coded to 1. If the value is less than 2, license consolidation is not allowed.
7	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
8	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.4 Request Load (SAL_VOC_GET_LDG_ASGN)

This message is sent when in a region configured for undirected work and the operator requests a carrier move id or a dock door location. This message is also sent when the region is configured for directed work and WMS issues a carrier_move_id. This message gets the details for the carrier move id assigned to the operator.

8.4.1 Request Load Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutLoadingRegionConfiguration
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	SPOKEN_CODE	Spoken Code	String		Code spoken by operator

MOCA Command – "get voice ldg assignment"

8.4.2 Request Load Event Output

#	EO Field	Comment	Type	Size	Description
1	CAR_MOVE_ID	Carrier Move ID	String	50	A unique identifier for the carrier move that the license is on.
2	SPOKEN_CODE	Spoken Code	String	50	A code the operator speaks that indicates either a carrier move id or a dock door location. NOTE: If in a directed work region, this field is populated with the carrier move id.
3	CAPTURE_TRAILER_ID	Capture Trailer Number	Number	1	

					Flag that indicates whether or not the user will be required to provide a trailer number.
4	DOOR_LOC	Door Location	Number	50	The location of the dock door where the operator is directed to deliver the load.
5	VOC_CHKDGT	Voice Check Digits	Number	5	The voice check digits associated with the dock door, spoken by the user to confirm he is that the dock door.
6	LOD_SUM_TEXT	Loading Summary Text	String	255	The summary prompt the device will speak to the user when loading is initializing.
7	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
8	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.5 Get Load License (SAL_VOC_GET_LDG_LICENSE)

This message is sent when the device is requesting information about the license being loaded. It can also be called during picking when a user is performing a fluid load operation.

8.5.1 Get Load License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLutLoadingRequestLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	LICENSE	License (LPN)	String	50	LPN that is being Loaded
6	PARTIAL	Partial Flag	String	1	Determines whether the operator scanned or spoke the license number and whether the operator must speak the full license number.0 = scanned license number or fluid load in picking1 = partial or spoken license numberWill always be 0 for fluid loading

MOCA Command – "get voice loading license"

8.5.2 Get Load License Event Output

#	EO Field	Comment	Type	Size	Description
1	CAR_MOVE_ID	Carrier Move ID	String	50	A unique identifier for the carrier move that the license is on
2	LICENSE	License (LPN)	String	50	The full license number. Should be unique within a carrier move
3	PARTIAL	Partial LPN	String	50	The license as spoken by the user. If a full license was scanned or spoken, the full license will be returned
4	STATUS	LPN Status	String	1	The LPN's status. It may be one of the following:N - Not LoadedC - ConsolidatedL - Loaded
5	CAPTURE_POS	Capture Position Flag	String	1	Determines whether the operator must capture the load position. 0=Do not capture load position 1=Capture load positionWill always be 0 for fluid loading.
6	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
7	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.6 Process Load License (SAL_VOC_PRC_LDG_LICENSE)

This device sends this message when the license has been loaded so the WMS can process to inventory movement. This transaction can also be called in picking during a fluid loading operation.

8.6.1 Process Load License Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	40	prTaskLutLoadingUpdateLicense
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	STATUS	Status	String	1	New status. Can be one of the following:N = Not loadedL = Loaded (Always sent when fluid loading during picking)C = Consolidated
6	LICENSE	License (LPN)	String	50	The license being updated. This may be blank if fluid loading is performed during picking.
7	MASTER_LPN	Master LPN	String	50	If status is being set to C (Consolidated), this is the load into which it is being consolidated. Otherwise this field is blank.
8	POSITION	Position	String	50	If the position was captured, this will be the position of the load. Otherwise, it is blank.
9	TRAILER_ID	Carrier Move ID	String	20	Trailer ID from the captured trailer ID, if applicable. This is only sent when Status is L (Loaded). May be blank if fluid loading during selection

MOCA Command – "process voice loading license"

8.6.2 Process Load License Event Output

#	EO Field	Comment	Type	Size	Description
1	CAR_MOVE_CMPL	Carrier Move Complete	Number	1	Flag to indicate if the carrier move is complete 0 = Carrier Move is not complete. More LPN's to load. 1 = Carrier Move is complete
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

8.7 Complete Load (SAL_VOC_GET_LDG_STATUS)

This message is sent when the operator specifies that the carrier move is complete by speaking 'complete load' when prompted to speak in a license number. This message sends the carrier move's status to the host system.

8.7.1 Complete Load Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutLoadingCompleteLoad
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	CAR_MOVE_ID	Carrier Move ID	String	50	Code spoken by operator

MOCA Command – "get voice ldg status"

8.7.2 Complete Load Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	

					Error message to be spoken to the user.

9. Cycle Count Messages

Added in 2011.1 Voice devices have the ability to perform directed and undirected cycle count operations. The messages below extend the cycle count operation that was added to picking (as an inline operation) in 2009.1

9.1 Get Cycle Counting Regions (SAL_VOC_GET_CYCCNT_REGION)

This transaction is received when the operator specifies the cycle counting function. This message is also sent when the operator says the Change Region command when performing cycle counting. The message returns the regions where the operator is allowed to perform cycle counting.

9.1.1 Get Cycle Counting Regions Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutCycleCountingRegions
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "list voice cnt regions"

9.1.2 Get Cycle Counting Regions Event Output

#	EO Field	Comment	Type	Size	Description
1	REGION_NUM	Region Number	Number	10	Region number where the operator has permission to perform the current function. Note that this value is the value that the operator must speak to request this region.
2	REGION_NAME	Region Name	String	100	A descriptive name for the region, such as "Freezer" or "Dry Grocery." The device says this name to confirm that the operator is requesting the appropriate region.
3	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
4	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

9.2 Process Cycle Counting Region (SAL_VOC_PRC_CYCCNT_REGION)

This transaction is received when the voice operator specifies a valid cycle counting region. The transaction is used to record each of the regions requested by an operator.

9.2.1 Process Cycle Counting Region Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutCycleCountingRegion
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID
5	REGION_NUM	Region Number	Number		Region number of region requested by the operator.
6	ALL_REGIONS	All regions	Number		

					Indicates if operator specified to work in all regions. 0 = No 1 = Yes

MOCA Command – "process voice region"

9.2.2 Process Cycle Counting Region Event Output

#	EO Field	Comment	Type	Size	Description
1	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
2	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

9.3 Cycle Counting Mode (SAL_VOC_GET_CYCCNT_MODE)

This transaction is received after the regions have been specified by the voice user. This transaction is used to get the work mode (directed or undirected) for the voice operator.

9.3.1 Cycle Counting Mode Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutCycleCountingMode
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "process voice cycle count mode"

9.3.2 Cycle Counting Mode Event Output

#	EO Field	Comment	Type	Size	Description
1	MODE_INDICATOR	Mode Indicator	String	1	Indicator for the cycle counting mode. P = undirected H = directed
2	ERROR_CODE	Error Code	Number	10	Error code. 0 indicates no error occurred.
3	ERROR_DESCR	Error Description	String	255	Error message to be spoken to the user.

9.4 Get Cycle Counting Location (SAL_VOC_GET_CYCCNT_LOC)

This transaction is received when the voice operator requests the next cycle counting location during directed cycle counting by saying, "Ready," at the "Next location?" prompt. This transaction is used to return the location's information for the next item count. If no locations are returned, the operator will be informed that here are no more assignments.

9.4.1 Get Cycle Counting Location Inbound IFD

#	IFD Field	Comment	Type	Size	Description
1	TRAN_ID	Transaction ID	String	30	prTaskLutCycleCountingLocation
2	DT	Date Time	String	17	mm-dd-yy hh:mm:ss
3	TERMINAL	Terminal ID	String	40	Unique Device Identifier
4	OPERATOR	Login ID	String	30	Operator Login ID

MOCA Command – "get voice cycle count location"

9.4.2 Get Cycle Counting Location Event Output

#	EO Field	Comment	Type	Size	Description
1	PRE_AISLE_DIR	Pre-Aisle Direction	String	50	Extra Piece of information that can be spoken to the operator when directing the operator to a location. Not used by WMS, will always be blank.
2	AISLE	Aisle	String	50	Aisle associated with the location number.
3	POST_AISLE_DIR	Post Aisle Direction	String	50	Extra Piece of information that can be spoken to the operator when directing the operator to a location. Not used by WMS, will always be blank.
4	SLOT	Location's Slot	String	50	This is typically part of the location Number.
5	LOC_CHK_DIGIT	Location Check Digits	String	5	Location's short code can be used to identify a location.
6	LOC_NUM	Location Identifier	String	100	This is the location identifier returned by the WMS to the voice device for Put Away and Put Replenishment.
7	PVID	Product Verification ID	Number	5	The field is not used for WMS and will always by empty.
8	ERROR_CODE	Error Code	Number	10	Error Code. 0 indicates no error occurred.
9	ERROR_DESCR	Error Message	String	255	Error message to be spoken to the user.