

2010

Integra XML

Technical Specification

This document describes the functionality necessary to implement Integra XML.



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REVISIONS

Name	Version	Reason for Revision	Date
Mark Gleason	0.001	First Draft	June 21, 2007
Nour Khartabil	1.0	Rounded out first draft	January 29, 2008
Jason Cook	1.1	Included required fields	February 8, 2008
Nour Khartabil	1.2	Rounded out Second draft	February 15, 2008
Jason Preder	1.3	Added Event_Location information to the document.	April 17, 2008
Nour Khartabil	1.4	Changed the tag names to be all lowercase	June 2, 2008
Jeff Ozark	2.0	Corrected general errors	June 30, 2008
Jeff Ozark	2.1	Corrected small errors after sending out ver. 2.0	July 21, 2008
Barb Koren	2.2	Modified descriptions for jobaddress1, jobdescription and orderdescription in Ticket Node, In section 3.9 changed event_type=TextMsg to event_type=Textmsg	September 18, 2008
Jeff Ozark	2.3	Modified sample XML messages to remove event_sub_type in the following sections: 3.8, 3.10, 3.13, 3.14, 3.15	October 3, 2008
Jeff Ozark	2.4	Modified vendorname tag to be a datatype string(30) in the ticket node description section	November 20, 2008
Jeff Ozark	2.5	Added 2 tags to the Void ticket message: ticketid and shiplocation	June 1, 2010

1. INTRODUCTION

1.1 PURPOSE

This document describes the functionality necessary to implement Integra XML.

1.2 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

Integra XML interface is designed to eliminate the interdependencies that exist between Integra Dispatch system and signaling vendors.

The signaling vendors will place incoming messages into an inbound queue, to be read by the Dispatch System. Status updates and other messages related to the dispatching of vehicles will be placed in this queue for the Dispatch System to act upon. Once the Dispatch System has processed the messages, it is the responsibility of the Dispatch System to remove the messages from the inbound queue.

Outbound messaging from the Dispatch System to the signaling vendor works similarly. The Dispatch System places outbound messages, including new tickets, cancelled tickets, requests for positions, and messages to vehicle operators in an outbound queue. The signaling vendor will read from this queue and process the messages appropriately. Once a message has been processed, it will be removed from the queue by the signaling vendor.

This architecture will eliminate the dependencies that currently exist between the Dispatch Systems and signaling vendors. This will enhance the quality of integrations by reducing redundant support efforts and the difficulty customers and customer service providers have when attempting to identify why their vehicles are not displaying the correct status.

1.3 OVERVIEW

Microsoft Message Queuing (MSMQ) is a middleware technology that allows applications to send and receive message from each other, either synchronously or asynchronously. Because MSMQ guarantees message delivery, it provides reliability even for networks and systems that are offline.

Message queues can be created to be either transactional or non-transactional, in this environment by default we will be using transactional queues. If a queue is created transactional it will only process transactional messages. Likewise, if a message arrives as part of a transaction in a non-transactional queue it will be rejected.

By default, the entire MSMQ message flow is an in-memory operation. This means that a message is created on a client, sent to the destination message queue, and stored until code is ready to accept and process the message, all in memory. Although it is very fast, this method of message delivery holds certain risks. If the sender machine is taken down for some reason before the message is sent to the destination machine, or if the destination machine accepts the message into its message queue and then fails before it can process the message, the message is lost entirely.

2 XML TRANSPORT DEFINITION

The purpose of the Systech_Signal_Message will be to transport the messages to/from Integra dispatch systems and signaling vendors.

The header section of the message will allow the dispatch system to add information to track errors or events

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{307C5E8C-DA28-4BB5-8D84-38A7C5CA2155}</eventid>
  <vehicle_number>0023</vehicle_number>
```

The event data section contains the appropriate data for the event that just occurred. This message body will change with each message.

```
<event>
  <event_date_time>2008-06-27T11:24:48</event_date_time>
  <event_category>Signal</event_category>
  <event_type>Status</event_type>
  <event_sub_type>3</event_sub_type>
  <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
  <event_origin_machname>PCNAME</event_origin_machname>
  <event_origin_username>Tester</event_origin_username>
```

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```
<event_date_time_utc>2008-06-27T16:24:48</event_date_time_utc>  
<event_origin>Testing</event_origin>  
</event>
```

2.1 XML MESSAGE DESCRIPTION

The purpose of the systech_signal_message is to transport signaling data between signaling vendors and Integra Dispatch system.

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2.1.1 Section Usage

The header contains constant data that will be part of every message.

Table 1: Systech_Signal_Message Node - XML Transport Field Requirements and Descriptions

eventid DataType STRING(38) REQUIRED	Unique GUID generated by either Dispatch system or the signal vendor
vehicle_number REQUIRED	Unique Vehicle Identifier

Signal Data

The signal data will contain specific information describing the signal event that is occurring. The Event Node is composed of the following information.

Table 2: Event Node - XML Transport Field Requirements and Descriptions

event_date_time REQUIRED	Date and Time when the event occurred (local vehicle time)
event_category REQUIRED	Category of message, TxtMessage, Signal, GPS, Informational, Ticket and Order
event_type REQUIRED	Type of event Status, Ticket, Order, TxtResponse, TruckStatus, IsOrderComplete, InputLatLongRadius, RequestOrderID, RequestTicket, GetPrintTicket, Textmsg, LeftOver, AddWater, SetArrivePlant and GetPlantInfo
event_sub_type string Sub type of event REQUIRED only for Event_type: Status	Status values -2: Not Responding -1: Bad Truck 1: Ticketed 3: Leave Plant 5: Begin Pour 7: Leave Job 9: In Service 11: To Shop 13: To Lunch 15: Start Misc 17: Pour Delay 19: Wash Out 21: Next Job 23: Customer Comp 25: Leftover Cnc 27: Show Message 29: Washout ON 31: Finish Load 33: Water Added 34: Ready To Load 0: Invalid Message 2: Loading 4: Arrive Job 6: End Pour 8: Arrive Plant/In Yard 10: OutService 12: Leave Shop 14: Leave Lunch 16: End Misc 18: Resume Pour 20: Emergency 22: Job Complete 24: Call 26: PTT 28: Driver Ack 30: Washout OFF 32: Outservice Wash Ticket Values 1: NEW = New Ticket 2: CHG = Change Ticket 3: VOID = Void Ticket
event_origin_ipaddr REQUIRED	If the vehicle has an IP address or the signal vendor's IP address; 0.0.0.0 if unknown
event_message_string	This is the way we pass data to and from the signal vendor
event_location	You can pass an optional location (3 bytes) in this field that will add additional functionality to some messages like an Arrive Plant truck status.

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event_origin_machname REQUIRED	Signal vendors machine name
event_origin_username REQUIRED	User name
time_to_live	Used if it's a timed event, most of the time it will be 0
Node	Types of nodes are: Order, Ticket, Trucks, and Plants. See tables below for further information. Some events may not have these nodes
event_date_time_utc	Universal time when the event occurred
event_origin	Originator of the event

2.1.2 Field Requirements and Descriptions

The following tables illustrate the data elements that are expected for inbound and outbound messages sent in between the signaling vendor and the Dispatch System. For the sake of consistency, a message is considered "inbound" if it is sent from the signaling vendor to the Dispatch System and "outbound" if it is sent from the Dispatch System to the signal vendor.

Table 3: Order Node - XML Transport Field Requirements and Descriptions

orderid DATATYPE INTEGER	ORDER ID
orderloc DATATYPE STRING(3)	ORDER LOCATION
schedloc DATATYPE STRING(3)	LOCATION NUMBER FROM WHICH THE ORDER IS SCHEDULED TO SHIP
billloc DATATYPE STRING(3)	LOCATION NUMBER FROM WHICH THE ORDER WILL BE BILLED
ordernbr DATATYPE STRING(8)	ORDER NUMBER
custname DATATYPE STRING(30)	CUSTOMER NAME
backcolor DATATYPE INTEGER	BACK COLOR ON THE ORDER STACK
textcolor DATATYPE INTEGER	TEXT COLOR ON THE ORDER STACK
bordercolor DATATYPE INTEGER	BORDER COLOR ON THE ORDER STACK
ordertypecode DATATYPE STRING(1)	ORDER TYPE (R=READY MIX OR A=AGGREGATE)
status DATATYPE STRING(1)	ORDER STATUS
paymethod DATATYPE STRING(1)	THE METHOD THE CUSTOMER WILL BE PAYING FOR MATERIAL
shipcode DATATYPE STRING(1)	SHIP CODE (P=PICKUP OR D=DELIVERY)
travelmins DATATYPE INTEGER	THE MINUTES IT TAKES TO GET TO THE JOB FROM THE PLANT
unloadmins DATATYPE INTEGER	ESTIMATED POUR TIME FOR EACH LOAD ON THE SPECIFIC ORDER
zone DATATYPE INTEGER	ZONE
pricecolcode DATATYPE STRING(1)	PRICE COLUMN FOR COD ORDERS
custnbr DATATYPE STRING(8)	CUSTOMER NUMBER

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jobnbr DATATYPE STRING(6)	JOB NUMBER
jobdesc DATATYPE STRING(40)	JOB DESCRIPTION
orderdesc DATATYPE STRING(40)	ORDER DESCRIPTION
jobcity DATATYPE STRING(16)	JOB CITY
jobstate DATATYPE STRING(16)	JOB STATE
mappage DATATYPE STRING(10)	MAP PAGE
block DATATYPE STRING(3)	BLOCK NUMBER ON BLOCK FORM
lot1 DATATYPE STRING(3)	LOT 1 ON BLOCK FORM (DISPATCH ONLY)
lot2 DATATYPE STRING(3)	LOT 2 ON BLOCK FORM (DISPATCH ONLY)
lot3 DATATYPE STRING(3)	LOT 3 ON BLOCK FORM (DISPATCH ONLY)
ponumber DATATYPE STRING(15)	PURCHASE ORDER NUMBER
pin DATATYPE STRING(4)	PERSONAL IDENTIFICATION NUMBER
projectref DATATYPE STRING(10)	ORDER PROJECT REFERENCE
creditcardnbr DATATYPE STRING(19)	CREDIT CARD NUMBER
creditexpiredate DATATYPE STRING(7)	CREDIT CARD EXPIRATION DATE
recstatus DATATYPE STRING(1)	MODIFIED STATE OF THE RECORD (U : UPDATED , D : DELETED)
waterreducerprod DATATYPE STRING(10)	WATER REDUCER PRODUCT ON ADDITIONAL ORDER INFORMATION
airproduct DATATYPE STRING(10)	AIR PRODUCT ON ADDITIONAL ORDER INFORMATION
acceleratorprod DATATYPE STRING(10)	ACCELERATOR PRODUCT ON ADDITIONAL ORDER INFORMATION
waterreducerqty DATATYPE DOUBLE	WATER REDUCER QUANTITY ON ADDITIONAL ORDER INFORMATION
acceleratorqty DATATYPE DOUBLE	ACCELERATOR QUANTITY ON ADDITIONAL ORDER INFORMATION
airentainment DATATYPE DOUBLE	AIR QUANTITY ON ADDITIONAL ORDER INFORMATION
priority DATATYPE STRING(2)	PRIORITY FOR THE ORDER
taxcode DATATYPE STRING(2)	TAX CODE ON ORDER
taxstate DATATYPE STRING(2)	TAX STATE ON ORDER
truckrequest DATATYPE STRING(2)	TYPE OF THE VEHICLE FOR DELIVERING
worktype DATATYPE STRING(2)	WORK TYPE
misctype1 DATATYPE STRING(2)	WEATHER (DISPATCH ONLY)

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misctype2 DATATYPE STRING(2)	MACHINE (DISPATCH ONLY)
miscfield1 DATATYPE STRING(2)	MISCELLANEOUS FIELD 1
miscfield2 DATATYPE STRING(2)	MISCELLANEOUS FIELD 2
miscfield3 DATATYPE STRING(2)	MISCELLANEOUS FIELD 3
miscfield4 DATATYPE STRING(2)	MISCELLANEOUS FIELD 4
custphonenbr STRING (10)	CUSTOMER PHONE NUMBER
staggered STRING (1)	IF POUR SPLIT BETWEEN TWO PLANTS, DETERMINES IF THE LOADS WILL BE ALTERNATED BETWEEN THE PLANTS OR QUANTITY REQUIRED FROM ONE PLANT BE SHIPPED IN ITS ENTIRETY BEFORE SHIFTING TO NEXT PLANT (T or F)
minloadtable STRING (2)	PRICING AND COSTING TIER FOR THE MINIMUM LOAD CHARGE
printweight STRING (1)	FLAG TO INDICATE IF BATCH WEIGHTS SHOULD BE PRINTED (T or F)
cementsource STRING (20)	CEMENT SOURCE FOR THE ORDER
salesmannbr STRING (8)	SALESMAN NUMBER ON ORDER
trucklimit DATATYPE INTEGER	THE NUMBER OF TRUCKS THAT ARE ASSIGNED TO THE ORDER ON THE MIXES LINE
qtypershour DATATYPE DOUBLE	THE AMOUNT OF CONCRETE PER HOUR THE CUSTOMER REQUESTED IN THE QTY/HR FIELD ON THE MIXES LINE
loads DATATYPE INTEGER	NUMBER OF LOADS THAT WERE SHIPPED
schedulertype DATATYPE STRING(1)	HOW SCHEDULE WAS GENERATED
overnightpour DATATYPE STRING(1)	CHECKBOX INDICATING THAT THE ORDER WILL GO ALL NIGHT (T or F)
permanent DATATYPE INTEGER	FLAG TO INDICATE IF IT IS A STANDING ORDER (1 or 0)
prevshippedlds DATATYPE INTEGER	TOTAL NUMBER OF SHIPPED LOADS FOR ORDER
prevorderid DATATYPE INTEGER	ORDER ID IF IT COMES FROM A PERMANENT ORDER
completed DATATYPE STRING(1)	INDICATING THAT THE ORDER IS DONE (MARKED BY END OF DAY PROCESS) (T or F)
plus DATATYPE STRING(1)	INDICATES THAT ONE "PLUS" LOAD WILL BE REQUIRED OVER AND ABOVE THE QUANTITY ENTERED ON ORDER (T or F)
pos DATATYPE STRING(1)	POINT OF SALE IDENTIFIER
metric DATATYPE STRING(1)	CHECKBOX FOR TRACKING AND PRICING THE ORDER AS A METRIC ORDER (T or F)
customertype DATATYPE STRING(1)	MARKET SEGMENT
latitude DATATYPE DOUBLE	JOB LATITUDE ON ADDITIONAL ORDER INFORMATION
longitude DATATYPE DOUBLE	JOB LONGITUDE ON ADDITIONAL ORDER INFORMATION
jobradius DATATYPE DOUBLE	JOB RADIUS FIELD ON ADDITIONAL ORDER INFORMATION
copyorderid DATATYPE INTEGER	ORDER ID IF IT IS A COPIED ORDER

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zipcode DATATYPE STRING(10)	ZIP CODE ON ORDER
runningjobtotals DATATYPE STRING(1)	CHECKBOX RUNNING JOB TOTALS ON ADDITIONAL ORDER INFORMATION (T or F)
lastupdated DATETIME	DATE TIME STAMP OF LAST TIME RECORD WAS UPDATED
numberofproducts DATATYPE INTEGER	NUMBER OF PRODUCTS
OrderProducts Node	
productnumber DATATYPE STRING(10)	PRODUCT NUMBER
description DATATYPE STRING(3)	PRODUCT DESCRIPTION
quantity DATATYPE DOUBLE	SALES QUANTITY ON TICKET
um DATATYPE STRING(2)	PRODUCT UNIT OF MEASURE
unitprice DATATYPE DOUBLE	UNIT PRICE OF PRODUCT
price DATATYPE DOUBLE	UNIT PRICE TIMES SALES
tax DATATYPE DOUBLE	TAX AMOUNT
taxcode DATATYPE STRING(2)	PRODUCT TAX CODE
orderedquantity DATATYPE DOUBLE	TOTAL QUANTITY ORDERED
cumulativequantity DATATYPE DOUBLE	TOTAL QUANTITY DELIVERED
loadsize DATATYPE DOUBLE	SIZE OF PRODUCT ON TICKET
categorycode DATATYPE STRING(3)	CATEGORY CODE OF PRODUCT
slump DATATYPE DOUBLE	SLUMP OF MAIN PRODUCT
bagmix DATATYPE DOUBLE	PRODUCT NUMBER OF BAGMIX
pricequantity DATATYPE DOUBLE	PRICE QUANTITY
priceum DATATYPE STRING(2)	PRICE UM
mixnumber DATATYPE STRING(10)	MIX NUMBER
prevshippedquantity DATATYPE DOUBLE	PRODUCTS PREVIOUS SHIPPED QUANTITY
o_quantity DATATYPE DOUBLE	CUSTOMARY PRODUCT QUANTITY
o_pricequantity DATATYPE DOUBLE	CUSTOMARY PRODUCT PRICE
alt_description DATATYPE STRING(30)	PRODUCT ALTERNATE DESCRIPTION
tax DATATYPE DOUBLE	TAX AMOUNT

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Table 4: Ticket Node - XML Transport Field Requirements and Descriptions

ticketid DATATYPE INTEGER	TICKET ID NUMBER
shipcode1 DATATYPE STRING(1)	SHIP CODE
tickettype1 DATATYPE STRING(1)	TICKET TYPE
plant DATATYPE INTEGER	PLANT FROM WHICH THE TICKET WAS SHIPPED
ticketnumber DATATYPE STRING(6)	TICKET NUMBER
ordernumber DATATYPE STRING(8)	ORDER NUMBER
load DATATYPE INTEGER	LOAD SIZE
loads DATATYPE INTEGER	NUMBER OF LOADS THAT WERE SHIPPED
leftover DATATYPE DOUBLE	LEFTOVER
ticketdate DATATYPE TIMESTAMP	TICKET DATE
tickettime DATATYPE TIMESTAMP	TICKET TIME
shiplocation DATATYPE STRING(3)	SHIP LOCATION NUMBER
shiplocationname DATATYPE STRING(20)	SHIP LOCATION NAME
worktype1 DATATYPE STRING(30)	WORK TYPE
ponumber DATATYPE STRING(15)	PURCHASE ORDER NUMBER
zone DATATYPE INTEGER	ZONE
mappage DATATYPE STRING(10)	MAP PAGE
ticketsubtotal DATATYPE DOUBLE	TICKET SUBTOTAL
tickettax DATATYPE DOUBLE	TICKET TAX
tickettotal DATATYPE DOUBLE	TICKET TOTAL
trucknumber DATATYPE STRING(8)	TRUCK NUMBER
drivernumber DATATYPE STRING(8)	DRIVER NUMBER
drivername1 DATATYPE STRING(42)	DRIVER NAME IE: SMITH, JOHN
driverlastname DATATYPE STRING(20)	DRIVER LAST NAME (DISPATCH ONLY)
driverfirstname DATATYPE STRING(20)	DRIVER FIRST NAME (DISPATCH ONLY)
shippinginstructions DATATYPE STRING(160)	SHIPPING INSTRUCTIONS
dispatchinstructions DATATYPE STRING(160)	DISPATCH INSTRUCTIONS
customernumber DATATYPE STRING(8)	CUSTOMER NUMBER

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customeraddress1 DATATYPE STRING(30)	CUSTOMER ADDRESS LINE 1
customeraddress2 DATATYPE STRING(30)	CUSTOMER ADDRESS LINE 2
customeraddress3 DATATYPE STRING(30)	CUSTOMER ADDRESS LINE 3
customercity DATATYPE STRING(16)	CUSTOMER CITY
customerstate DATATYPE STRING(2)	CUSTOMER STATE
customerzip DATATYPE STRING(10)	CUSTOMER ZIP CODE
jobnumber DATATYPE STRING(6)	JOB NUMBER
jobdescription DATATYPE STRING(40)	DESCRIPTION FROM ORDER ENTRY FORM
jobcity DATATYPE STRING(16)	JOB CITY
block DATATYPE STRING(3)	BLOCK NUMBER ON BLOCK FORM
lot1 DATATYPE STRING(3)	LOT 1 ON BLOCK FORM (DISPATCH ONLY)
lot2 DATATYPE STRING(3)	LOT 2 ON BLOCK FORM (DISPATCH ONLY)
lot3 DATATYPE STRING(3)	LOT 3 ON BLOCK FORM (DISPATCH ONLY)
printcount DATATYPE INTEGER	NUMBER OF TIMES TICKET WAS PRINTED
paymethodcode DATATYPE STRING(1)	METHOD OF PAYMENT CODE (DISPATCH ONLY)
paymethodtext2 DATATYPE STRING(21)	METHOD OF PAYMENT DESCRIPTION (DISPATCH ONLY)
previousbalance DATATYPE DOUBLE	BALANCE OF PREVIOUS TICKETS (DISPATCH ONLY)
metric DATATYPE STRING(1)	SYSTEM OF MEASUREMENT (T OR F)
misctype1 DATATYPE STRING(30)	WEATHER (DISPATCH ONLY)
misctype2 DATATYPE STRING(30)	MACHINE (DISPATCH ONLY)
boairproduct DATATYPE STRING(10)	AIR PRODUCT ON ADDITIONAL ORDER INFORMATION
boaccelpercent DATATYPE DOUBLE	PERCENT OF ACCELERATOR PRODUCT ON ADDITIONAL ORDER INFORMATION
boairentpercent DATATYPE DOUBLE	PERCENT OF AIR PRODUCT ON ADDITIONAL ORDER INFORMATION
bowaterreducpercent DATATYPE DOUBLE	PERCENT OF WATER REDUCER PRODUCT ON ADDITIONAL ORDER INFORMATION
boaccelproduct DATATYPE STRING(10)	ACCELERATOR PRODUCT ON ADDITIONAL ORDER INFORMATION
bowaterreducproduct DATATYPE STRING(10)	WATER REDUCER PRODUCT ON ADDITIONAL ORDER INFORMATION
boprintweights DATATYPE STRING(1)	PRINT WEIGHTS CHECKBOX ON ADDITIONAL ORDER INFORMATION (T OR F)
ordertaxcode DATATYPE STRING(2)	TAX CODE ON ORDER
orderstate DATATYPE STRING(2)	STATE ON ORDER

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databasename DATATYPE STRING(10)	NAME OF DATABASE BEING ACCESSED
crossreference DATATYPE STRING(20)	CROSS REFERENCE IN MIX
unloadminutes DATATYPE INTEGER	UNLOAD MINUTES IN ORDER
company DATATYPE STRING(2)	COMPANY NUMBER
customername DATATYPE STRING(30)	CUSTOMER NAME ON ORDER
trucktype DATATYPE STRING (10)	TYPE OF TRUCK ON TICKET
mixposition DATATYPE INTEGER	POSITION OF MAIN MIX ON ORDER
caller1 DATATYPE STRING(30)	CALLER IN FIRST POSITION ON CONTACTS FORM
callerphone1 DATATYPE STRING(10)	PHONE NUMBER IN FIRST POSITION ON CONTACTS FORM
deliverydate DATATYPE TIMESTAMP	DELIVERY DATE BASED ON SETTINGS FORM
deliverytime DATATYPE TIMESTAMP	DELIVERY TIME BASED ON SETTINGS FORM
orderdescription DATATYPE STRING(40)	ADDRESS1 FIELD FROM ORDER ENTRY FORM
grossweight DATATYPE DOUBLE	GROSS WEIGHT ON AGGREGATE TICKET (DEPRECATED)
tareweight DATATYPE DOUBLE	TARE WEIGHT ON AGGREGATE TICKET (DEPRECATED)
netweight DATATYPE DOUBLE	NET WEIGHT ON AGGREGATE TICKET (DEPRECATED)
vendorname DATATYPE STRING(30)	VENDOR NAME ON AGGREGATE TICKET
pos DATATYPE STRING(1)	QUICK TICKET POINT OF SALE IDENTIFIER (T OR F)
weighmastername DATATYPE STRING(30)	WEIGHMASTER NAME AT LOCATION
scalenummer DATATYPE STRING(10)	SCALE ID AT LOCATION
scalename DATATYPE STRING(30)	SCALE NAME AT LOCATION
vendornumber DATATYPE STRING(8)	VENDOR NUMBER ON AGGREGATE TICKET
orderzipcode DATATYPE STRING(10)	ZIP CODE ON ORDER
totaldeliverycharge DATATYPE DOUBLE	TOTAL DELIVERY CHARGE ON ORDER (DISPATCH ONLY)
zonename DATATYPE STRING(20)	ZONE NAME BASED ON MAP PAGE
vehiclenumber DATATYPE STRING(8)	TRUCK NUMBER
vehicledescription DATATYPE STRING(30)	TRUCK DESCRIPTION
companyname DATATYPE STRING(30)	COMPANY NAME
companyaddress DATATYPE STRING(30)	COMPANY ADDRESS
locationname DATATYPE STRING(20)	SHIPPING LOCATION NAME

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locationaddress DATATYPE STRING(30)	SHIPPING LOCATION ADDRESS
locationphone DATATYPE STRING(20)	SHIPPING LOCATION PHONE
numberofproducts DATATYPE INTEGER	NUMBER OF PRODUCTS ON TICKET
waittime DATATYPE INTEGER	WAIT TIME PER YARD FROM SYSTEM CONFIG
bagmixpounds DATATYPE DOUBLE	BAG MIX POUNDS FROM SYSTEM CONFIG
gal DATATYPE STRING(30)	CHARGE (GLOBAL, AREA, OR LOCAL) FROM SYSTEM CONFIG
deliveryproductnbr DATATYPE STRING(10)	PRODUCT NUMBER ON TICKET
creditdescription DATATYPE STRING(20)	CREDIT CODE DESCRIPTION FOR ORDER
vendorabbreviation DATATYPE STRING(3)	VENDOR NAME ABBREVIATION
jobsiteradius DATATYPE DOUBLE	JOB RADIUS FIELD ON ADDITIONAL ORDER INFORMATION
zipcode2 DATATYPE STRING(10)	ZIP CODE ON ORDER
joblatitude DATATYPE DOUBLE	JOB LATITUDE ON ADDITIONAL ORDER INFORMATION
joblongitude DATATYPE DOUBLE	JOB LONGITUDE ON ADDITIONAL ORDER INFORMATION
orderid DATATYPE INTEGER	ORDER ID
runningjobtotals DATATYPE STRING(1)	CHECKBOX RUNNING JOB TOTALS ON ADDITIONAL ORDER INFORMATION
totalaggprodsqty DATATYPE DOUBLE	TOTAL AGGREGATE PRODUCTS ON ORDER
loads4mainproduct DATATYPE INTEGER	NUMBER OF LOADS WITH MAIN PRODUCT
totalrmprodsqty DATATYPE DOUBLE	TOTAL READY MIX PRODUCTS ON ORDER
totalorderrmqty DATATYPE DOUBLE	TOTAL ORDER READY MIX QUANTITY
prevtruckonorder DATATYPE STRING(8)	PREVIOUS TICKET TRUCK NUMBER
prevtruckforlocation DATATYPE STRING(8)	PREVIOUS TRUCK THAT CAME FROM CURRENT TICKETS SHIP LOCATION
jobaddress1 DATATYPE STRING(40)	ADDRESS1 FIELD FROM JOBMASTER
prevtaxbalance DATATYPE DOUBLE	TOTAL TAXES ON PREVIOUS TICKETS (DISPATCH ONLY)
estimatedloadnbr DATATYPE INTEGER	NUMBER OF LOADS NOT INCLUDING VOIDS
jobstate DATATYPE STRING(16)	STATE FIELD ON ORDER
runningjobqty DATATYPE DOUBLE	RUNNING JOB QUANTITY IN AGGREGATE BILLING INSTRUCTIONS
mixformulaid DATATYPE INTEGER	PRODUCT MIX FORMULA ID
prevshippedloads DATATYPE INTEGER	TOTAL NUMBER OF SHIPPED LOADS FOR ORDER
salesmanfirstname DATATYPE STRING(20)	SALESMAN FIRST NAME ON ORDER

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salesmanlastname DATATYPE STRING(20)	SALESMAN LAST NAME ON ORDER
orig_load_time DATATYPE TIMESTAMP	ESTIMATED TIME OF ORIGINAL LOAD
employeeicensenbr DATATYPE STRING(30)	DRIVER LICENSE NUMBER
employeeicexpireddate DATATYPE TIMESTAMP	DRIVER LICENSE EXPIRATION DATE
employeefirstname DATATYPE STRING(20)	DRIVER FIRST NAME ON TICKET
employeeelastname DATATYPE STRING(20)	DRIVER LAST NAME ON TICKET
companyid DATATYPE INTEGER	COMPANY NUMBER IN SYSTEM SECURITY
leassornumber DATATYPE STRING(8)	LEASOR NUMBER ON AGGREGATE TICKET
leassorname DATATYPE STRING(30)	LEASOR NAME ON AGGREGATE TICKET
locationaddress2 DATATYPE STRING(30)	SHIP LOCATION ADDRESS2
locationcity DATATYPE STRING(16)	SHIP LOCATION CITY
locationstate DATATYPE STRING(2)	SHIP LOCATION STATE
locationzip DATATYPE STRING(10)	SHIP LOCATION ZIP CODE
billdepartmentnbr DATATYPE STRING(4)	BILLING DEPARTMENT NUMBER
billdepartmentname DATATYPE STRING(30)	BILLING DEPARTMENT NAME
shippinginstructions2 DATATYPE STRING(32)	LINE 2 OF SHIPPING INSTRUCTIONS IN ULIM
shippinginstructions3 DATATYPE STRING(32)	LINE 3 OF SHIPPING INSTRUCTIONS IN ULIM
customername2 DATATYPE STRING(32)	CHARACTERS 9-16 OF CUSTOMER NAME IN ULIM
customername3 DATATYPE STRING(32)	CHARACTERS 17-24 OF CUSTOMER NAME IN ULIM
minloadchgprt DATATYPE STRING(24)	MINIMUM LOAD CHARGE IN ULIM
minloadchgamt DATATYPE DOUBLE	MINIMUM LOAD CHARGE AMOUNT IN ULIM
specialinst1 DATATYPE STRING(32)	LINE 1 OF SPECIAL INSTRUCTIONS IN ULIM
specialinst2 DATATYPE STRING(32)	LINE 2 OF SPECIAL INSTRUCTIONS IN ULIM
localtkchange DATATYPE STRING(unlimited)	FLAG ALLOWING TICKET TO BE CHANGED IN ULIM
projectnumber DATATYPE STRING(16)	PROJECT NUMBER IN ULIM
projectphone DATATYPE STRING(12)	PROJECT PHONE NUMBER IN ULIM
boaccelpercent2 DATATYPE STRING(4)	ACCELERANT PERCENT IN ULIM
boairpercent2 DATATYPE STRING(4)	AIR ENTRAINMENT PERCENT IN ULIM
bowaterreducpercent2 DATATYPE STRING(4)	WATER REDUCER PERCENT IN ULIM

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boboth2opercent DATATYPE INTEGER	HOT WATER PERCENT IN ULIM
bocoldh2opercent DATATYPE INTEGER	COLD WATER PERCENT IN ULIM
boadmixturecode DATATYPE STRING(3)	ADMIXTURE CODE IN ULIM
mixertime DATATYPE INTEGER	MIXER TIME IN ULIM
maxloadsize DATATYPE DOUBLE	MAX LOAD SIZE IN ULIM
maxdryload DATATYPE DOUBLE	MAX DRY LOAD SIZE IN ULIM
maxasynclload DATATYPE DOUBLE	MAX ASYNC LOAD SIZE IN ULIM
aggmoistref DATATYPE INTEGER	AGGREGATE MOISTURE REFERENCE IN ULIM
zonetravel DATATYPE INTEGER	ZONE TRAVEL MILEAGE IN ULIM
beginunloadtime DATATYPE STRING(32)	STARTING UNLOAD TIME IN ULIM
userdefined4 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined5 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined6 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined7 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined8 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
pocketnumber DATATYPE STRING(32)	POCKET NUMBER IN ULIM
cementtype DATATYPE STRING(32)	CEMENT TYPE IN ULIM
userdefined11 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
maxwater DATATYPE STRING(32)	MAX WATER ALLOWED IN ULIM
maxwaterxqty DATATYPE STRING(32)	MAX WATER ALLOWED TIMES PRODUCT QUANTITY IN ULIM
aggwater DATATYPE STRING(32)	AGGREGATE WATER IN ULIM
aggwaterxqty DATATYPE STRING(32)	AGGREGATE WATER TIMES PRODUCT QUANTITY IN ULIM
plant_aggwater DATATYPE STRING(32)	PLANT WATER MINUS AGGREGATE WATER IN ULIM
plant_aggwaterxqty DATATYPE STRING(32)	(PLANT WATER MINUS AGGREGATE WATER) TIMES (PRODUCT QUANTITY) IN ULIM
max_plant_aggwater DATATYPE STRING(32)	(MAXIMUM WATER MINUS PLANT WATER) MINUS (AGGREGATE WATER) IN ULIM
max_plant_aggwaterxqty DATATYPE STRING(32)	((MAXIMUM WATER MINUS PLANT WATER) MINUS (AGGREGATE WATER)) TIMES (PRODUCT QUANTITY) IN ULIM
userdefined20 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined21 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined22 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM

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userdefined23 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined24 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined25 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
customername4 DATATYPE STRING(32)	CHARS 33-40 OF CUSTOMER NAME IN ULIM
deliveryaddress3 DATATYPE STRING(32)	CHARS 65-96 ON DELIVERY ADDRESS IN ULIM
deliveryaddress4 DATATYPE STRING(32)	CHARS 97-128 ON DELIVERY ADDRESS IN ULIM
userdefined31 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
shiptocustcode DATATYPE STRING(32)	SHIP TO CUSTOMER CODE IN ULIM
shiptocustname DATATYPE STRING(32)	SHIP TO CUSTOMER NAME IN ULIM
shiptocustadd1 DATATYPE STRING(32)	SHIP TO CUSTOMER ADDRESS1 IN ULIM
shiptocustadd2 DATATYPE STRING(32)	SHIP TO CUSTOMER ADDRESS2 IN ULIM
shiptocustpostcode DATATYPE STRING(32)	SHIP TO CUSTOMER POSTAL CODE IN ULIM
shiptocustcity DATATYPE STRING(32)	SHIP TO CUSTOMER CITY IN ULIM
refcustcode DATATYPE STRING(32)	REFERENCE CUSTOMER CODE IN ULIM
projectname1 DATATYPE STRING(32)	CHARS 1-32 OF PROJECT NAME IN ULIM
projectname2 DATATYPE STRING(32)	CHARS 33-40 OF PROJECT NAME IN ULIM
refcustname DATATYPE STRING(32)	REFERENCE CUSTOMER NAME IN ULIM
currencycode DATATYPE STRING(32)	CURRENCY CODE IN ULIM
userdefined43 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined44 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined45 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined46 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined47 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
userdefined48 DATATYPE STRING(32)	USER DEFINED FIELD IN ULIM
shippinginstructions4 DATATYPE STRING(32)	LINE 4 OF SHIPPING INSTRUCTIONS IN ULIM
shippinginstructions5 DATATYPE STRING(32)	LINE 5 OF SHIPPING INSTRUCTIONS IN ULIM
shippinginstructions6 DATATYPE STRING(32)	LINE 6 OF SHIPPING INSTRUCTIONS IN ULIM
heatchgprt DATATYPE STRING(24)	HEAT CHANGE FLAG IN ULIM
heatchgamt DATATYPE DOUBLE	HEAT CHANGE AMOUNT IN ULIM

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grandtotal DATATYPE DOUBLE	TICKET GRAND TOTAL (DISPATCH ONLY)
prevordcumtotal DATATYPE DOUBLE	PREVIOUS ORDERS CUMULATIVE TOTAL (ULIM ONLY)
mixmaxwateryd DATATYPE DOUBLE	MAXIMUM WATER PER YARD IN MIX
mixmaxwaterld DATATYPE DOUBLE	MAXIMUM WATER PER LOAD IN MIX
sandwateryd DATATYPE DOUBLE	SAND PER YARD
sandwaterld DATATYPE DOUBLE	SAND PER LOAD
plantwateryd DATATYPE DOUBLE	PLANT WATER PER YARD
plantwaterld DATATYPE DOUBLE	PLANT WATER PER LOAD
allowedwateryd DATATYPE DOUBLE	ALLOWABLE WATER PER YARD
allowedwaterld DATATYPE DOUBLE	ALLOWABLE WATER PER LOAD
tktmisc1 DATATYPE STRING(8)	MISCELLANEOUS TICKET INFO
tktmisc2 DATATYPE STRING(8)	MISCELLANEOUS TICKET INFO
ordmisc1 DATATYPE STRING(8)	MISCELLANEOUS ORDER INFO
ordmisc2 DATATYPE STRING(8)	MISCELLANEOUS ORDER INFO
ordmisc3 DATATYPE STRING(8)	MISCELLANEOUS ORDER INFO
mixclass DATATYPE STRING(2)	MIX CLASS
mixstrength DATATYPE STRING(7)	MIX STRENGTH
mixaggsz DATATYPE STRING(5)	MIX AGGREGATE SIZE
salestypecode DATATYPE STRING(2)	SALES TYPE CODE
salestypedesc8 DATATYPE STRING(8)	SALES TYPE SHORT DESCRIPTION
salestypedesc32 DATATYPE STRING(32)	SALES TYPE LONG DESCRIPTION
skipticketyn DATATYPE STRING(1)	DETERMINES IF TICKET SHOULD BE PRINTED
wetdry01 DATATYPE INTEGER	WET OR DRY LOAD
prevcumqty DATATYPE DOUBLE	PREVIOUS CUMULATIVE QUANTITY OF MAIN PRODUCT
batchpanelid DATATYPE STRING(unlimited)	BATCH PANEL ID
ordercumulativepricetotal DATATYPE DOUBLE	CUMULATIVE TOTAL OF PREVIOUS TICKETS (ULIM ONLY)
maxgrossvehicleweight DATATYPE DOUBLE	MAX TRUCK LOAD SIZE
maxgrossvehicleweightum DATATYPE STRING(2)	UNIT OF MEASURE FOR MAXGROSSVEHICLEWEIGHT
design_type DATATYPE STRING(20)	MIX DESIGN TYPE

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grossweightdouble DATATYPE DOUBLE	GROSS WEIGHT ON TICKET
tareweightdouble DATATYPE DOUBLE	TARE WEIGHT ON TICKET
netweightdouble DATATYPE DOUBLE	NET WEIGHT ON TICKET
companyaddress2 DATATYPE STRING(30)	SECOND LINE OF COMPANY ADDRESS
companycity DATATYPE STRING(16)	COMPANY CITY
companystate DATATYPE STRING(2)	COMPANY STATE
companyzip DATATYPE STRING(10)	COMPANY ZIP CODE
ordershipdatetime DATATYPE TIMESTAMP	SHIP DATE TIME OF ORDER
callerdatetime DATATYPE TIMESTAMP	DATE OF CALL
projectreference DATATYPE STRING(10)	ORDER PROJECT REFERENCE
totalorderbmqty DATATYPE DOUBLE	TOTAL AGGREGATE ORDERED
truckloadrate DATATYPE INTEGER	TRUCK LOAD RATE
cat_705_amt DATATYPE DOUBLE	CATEGORY 705 AMOUNT TOTAL
agg_scale_read_mode DATATYPE STRING(1)	READ MODE OF SCALE (AUTOMATIC OR MANUAL)
agg_scale_read_g_n DATATYPE STRING(unlimited)	SCALE READ WEIGHT – GROSS OR NET
salesmannbr DATATYPE STRING(8)	ORDER SALESMAN NUMBER
full_truck_number DATATYPE STRING(8)	FULL TRUCK NUMBER IN ULIM
batchstart_dtm DATATYPE TIMESTAMP	BATCH START TIME
mt_mixupload_action DATATYPE INTEGER	MIX UPLOAD ACTION (UPLOAD, DELETE, PURGE)
metric_mix DATATYPE BOOLEAN	MIX MEASUREMENT TYPE
stack_batch_status DATATYPE INTEGER	BATCH TICKETSTACK STATUS
batchcomplete_dtm DATATYPE TIMESTAMP	TIME BATCH COMPLETED
water_adjust DATATYPE DOUBLE	WATER TRIM FROM PREBATCH
water_in_truck DATATYPE INTEGER	WATER IN TRUCK FROM PREBATCH
mixslump DATATYPE DOUBLE	MIX SLUMP IN PREBATCH
numberofmixcomponents DATATYPE INTEGER	NUMBER OF MIX COMPONENTS
numberofbillphones DATATYPE INTEGER	NUMBER OF BILL PHONES
billphone_number DATATYPE STRING(20)	BILL PHONE NUMBER
billphone_desc DATATYPE STRING(30)	BILL PHONE DESCRIPTION

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billphone_typecode DATATYPE STRING(1)	BILLING PHONE TYPE CODE
mixtotal_behavior_1 DATATYPE DOUBLE	AGGREGATE TOTAL WEIGHTS
mixtotal_behavior_2 DATATYPE DOUBLE	CEMENT TOTAL WEIGHTS
mixtotal_behavior_3 DATATYPE DOUBLE	ADMIX TOTAL WEIGHTS
mixtotal_behavior_4 DATATYPE DOUBLE	WATER TOTAL WEIGHTS
Products Node	
productnumber1 DATATYPE STRING(10)	PRODUCT NUMBER
description1 DATATYPE STRING(3)	PRODUCT DESCRIPTION
quantity DATATYPE DOUBLE	SALES QUANTITY ON TICKET
um DATATYPE STRING(2)	PRODUCT UNIT OF MEASURE
unitprice DATATYPE DOUBLE	UNIT PRICE OF PRODUCT
price DATATYPE DOUBLE	UNIT PRICE TIMES SALES
tax DATATYPE DOUBLE	TAX AMOUNT
taxcode DATATYPE STRING(2)	PRODUCT TAX CODE
orderedquantity DATATYPE DOUBLE	TOTAL QUANTITY ORDERED
cumulativequantity DATATYPE DOUBLE	TOTAL QUANTITY DELIVERED
loadsize DATATYPE DOUBLE	SIZE OF PRODUCT ON TICKET
categorycode DATATYPE STRING(3)	CATEGORY CODE OF PRODUCT
slump DATATYPE DOUBLE	SLUMP OF MAIN PRODUCT
bagmix DATATYPE DOUBLE	PRODUCT NUMBER OF BAGMIX
pricequantity DATATYPE DOUBLE	PRICE QUANTITY
priceum DATATYPE STRING(2)	PRICE UM
mixnumber DATATYPE STRING(10)	MIX NUMBER
prevshippedquantity DATATYPE DOUBLE	PRODUCTS PREVIOUS SHIPPED QUANTITY
o_quantity DATATYPE DOUBLE	CUSTOMARY PRODUCT QUANTITY
o_pricequantity DATATYPE DOUBLE	CUSTOMARY PRODUCT PRICE
alt_description DATATYPE STRING(30)	PRODUCT ALTERNATE DESCRIPTION
tax DATATYPE DOUBLE	TAX AMOUNT

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Mix Component Node	
mixcomponent1 DATATYPE STRING(10)	MIXCOMPONENT
targetweight DATATYPE DOUBLE	TARGET WEIGHT OF COMPONENT
componenttype DATATYPE STRING(3)	COMPONENT TYPE
mixgroup DATATYPE STRING(10)	MIX GROUP
component1description DATATYPE STRING(30)	COMPONENT DESCRIPTION
comp_behavior DATATYPE INTEGER	COMPONENT BEHAVIOR GROUP
comp_uom DATATYPE STRING(2)	COMPONENT UNIT OF MEASURE
comp_pct_moisture DATATYPE DOUBLE	PERCENT MOISTURE
comp_actual_qty DATATYPE DOUBLE	ACTUAL WEIGHT
targetweight_non_mc DATATYPE DOUBLE	TARGET WEIGHT PER BATCH TARGET NON-MOISTURE COMPENSATED
comp_per_mix_um_design_qty DATATYPE DOUBLE	COMPONENT PER CY OR M3 DESIGN AMOUNT
comp_per_mix_um_edited_design_qty DATATYPE DOUBLE	COMPONENT PER CY OR M3 DESIGN AMOUNT AFTER BEING EDITED IN PREBATCH
comp_manualactual_qty DATATYPE DOUBLE	MANUALLY ADDED PRODUCT QUANTITY
comp_subst_percent DATATYPE DOUBLE	PERCENT OF SUBSTITUTED COMPONENT
comp_pct_absorption DATATYPE DOUBLE	PERCENT OF ABSORBED COMPONENT
comp_state_nbr DATATYPE STRING(20)	COMPONENT STATE
comp_modified DATATYPE BOOLEAN	IF THE MIX COMPONENT AMOUNT HAS BEEN MANUALLY CHANGED

Table 5: Responses Node - XML Transport Field Requirements and Descriptions

response DATATYPE STRING(unlimited)	RESPONSE (can be multiple instances (1-5))
--	--

Table 6: Trucks Node - XML Transport Field Requirements and Descriptions

number DATATYPE STRING(8)	TRUCK NUMBER
company DATATYPE STRING(2)	COMPANY NUMBER
status DATATYPE STRING(14)	OUT OF SERVICE or IN SERVICE

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Table 7: Plants Node - XML Transport Field Requirements and Descriptions

company DATATYPE STRING(2)	COMPANY NUMBER
plantnumber DATATYPE INTEGER	PLANT NUMBER
plantname DATATYPE STRING(20)	PLANT NAME
Planttype DATATYPE STRING(1)	R: Ready M G: Pit L: Quarry C: Excavating P: Pumping

3 SPECIFIC MESSAGE EXAMPLES

3.1 ORDER MESSAGE

This message comes from Dispatch to the signal vendor

event_category = Signal
event_type = Order
event_sub_type = Transfer

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{307C5E8C-DA28-4BB5-8D84-38A7C5CA2155}</eventid>
  <vehicle_number>None</vehicle_number>
  <event>
    <event_date_time>2008-06-27T07:27:46</event_date_time>
    <event_category>Signal</event_category>
    <event_type>Order</event_type>
    <event_sub_type>Transfer</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T12:27:46</event_date_time_utc>
    <event_origin>SYSTECH</event_origin>
  </event>
  <order>
    <orderid>37462</orderid>
    <orderloc>011</orderloc>
    <schedloc>011</schedloc>
    <billloc>011</billloc>
    <ordernbr>12939</ordernbr>
    <custname>UNKNOWN CUSTOMER</custname>
    <backcolor>0</backcolor>
    <textcolor>16777215</textcolor>
    <bordercolor>0</bordercolor>
    <ordertypecode>R</ordertypecode>
    <status>0</status>
    <paymethod>1</paymethod>
    <shipcode>D</shipcode>
    <travelmins>66</travelmins>
    <unloadmins>5</unloadmins>
    <zone>1</zone>
    <custnbr>100022</custnbr>
    <jobnbr>000100</jobnbr>
    <jobdesc>UNKNOWN JOB</jobdesc>
    <orderdesc>UNKNOWN JOB</orderdesc>
    <jobcity>JOBCITY</jobcity>
    <jobstate>IN</jobstate>
    <ponumber>PO NUMBER</ponumber>
    <projectref>PROJECT RE</projectref>
    <recstatus>A</recstatus>
    <waterreducerqty>0.00000</waterreducerqty>
  </order>
</Systech_Signal_Message>
```

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```
<acceleratorqty>0.00000</acceleratorqty>
<airentainment>0.00000</airentainment>
<taxcode>10</taxcode>
<taxstate>IN</taxstate>
<worktype>4</worktype>
<staggered>F</staggered>
<printweight>F</printweight>
<trucklimit>0</trucklimit>
<qtyperhour>0.00000</qtyperhour>
<loads>0</loads>
<scheduletype>S</scheduletype>
<overnightpour>F</overnightpour>
<permanent>0</permanent>
<prevshippedlds>0</prevshippedlds>
<prevorderid>-1</prevorderid>
<completed>F</completed>
<plus>F</plus>
<pos>N</pos>
<metric>F</metric>
<customertype>4</customertype>
<latitude>10.00000</latitude>
<longitude>20.00000</longitude>
<jobradius>30.00000</jobradius>
<copyorderid>37460</copyorderid>
<zipcode>47394</zipcode>
<runningjobtotals>F</runningjobtotals>
<lastupdated>2008-06-27T07:27:44</lastupdated>
<orderproducts>
  <productnumber>RMDEL</productnumber>
  <quantity>1.00000</quantity>
  <um>CY</um>
  <unitprice>2.00000</unitprice>
  <price>400.00000</price>
  <taxcode>10</taxcode>
  <loadsize>0.00000</loadsize>
  <categorycode>911</categorycode>
  <slump>0.00000</slump>
  <pricequantity>200.00000</pricequantity>
  <prevshippedquantity>0.00000</prevshippedquantity>
</orderproducts>
<orderproducts>
  <productnumber>ENV</productnumber>
  <quantity>1.00000</quantity>
  <um>CY</um>
  <unitprice>15.00000</unitprice>
  <price>3000.00000</price>
  <taxcode>10</taxcode>
  <loadsize>0.00000</loadsize>
  <categorycode>705</categorycode>
  <slump>0.00000</slump>
  <pricequantity>200.00000</pricequantity>
  <prevshippedquantity>0.00000</prevshippedquantity>
</orderproducts>
<orderproducts>
  <productnumber>PB60P</productnumber>
  <quantity>200.00000</quantity>
  <um>CY</um>
  <unitprice>85.50000</unitprice>
  <price>17100.00000</price>
  <taxcode>10</taxcode>
  <loadsize>0.00000</loadsize>
  <categorycode>198</categorycode>
  <slump>4.00000</slump>
  <pricequantity>200.00000</pricequantity>
  <prevshippedquantity>0.00000</prevshippedquantity>
</orderproducts>
</order>
</event>
</Systech_Signal_Message>
```

3.2 NEW TICKET MESSAGE

This message comes from Dispatch to the signal vendor

event_category	= Signal
event_type	= Ticket
event_sub_type	= NEW

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{5FBCA738-070C-4B66-A4D1-2486C89B31CF}</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T09:48:55</event_date_time>
    <event_category>Signal</event_category>
    <event_type>Ticket</event_type>
    <event_sub_type>NEW</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T14:48:55</event_date_time_utc>
    <event_origin>SYSTECH</event_origin>
  </event>
  <ticket>
    <ticketid>69426</ticketid>
    <shipcode1>D</shipcode1>
    <plant>1</plant>
    <ticketnumber>109818</ticketnumber>
    <ordernumber>12939</ordernumber>
    <load>1</load>
    <loads>25</loads>
    <leftover>0.00000</leftover>
    <shiplocation>011</shiplocation>
    <shiplocationname>RICHMOND</shiplocationname>
    <ponumber>PO NUMBER</ponumber>
    <zone>1</zone>
    <ticketsubtotal>820.00000</ticketsubtotal>
    <tickettax>49.20000</tickettax>
    <tickettotal>869.20000</tickettotal>
    <trucknumber>23</trucknumber>
    <drivernumber>999999</drivernumber>
    <drivername1>DRIVER, UNASSIGNED</drivername1>
    <driverlastname>DRIVER</driverlastname>
    <driverfirstname>UNASSIGNED</driverfirstname>
    <shippinginstructions>SHIPPING INSTRUCTIONS LINE1
SHIPPING INSTRUCTIONS LINE2
SHIPPING INSTRUCTIONS LINE3
SHIPPING INSTRUCTIONS LINE4
SHIPPING INSTRUCTIONS LINE5
SHIPPING INSTRU</shippinginstructions>
    <dispatchinstructions>DISPATCH INSTRUCTIONS LINE1
DISPATCH INSTRUCTIONS LINE2
DISPATCH INSTRUCTIONS LINE3
DISPATCH INSTRUCTIONS LINE4
DISPATCH INSTRUCTIONS LINE5
DISPATCH INSTRU</dispatchinstructions>
    <customernumber>100022</customernumber>
    <customeraddress1>P.O. BOX 304</customeraddress1>
    <customercity>CUSTOMER CITY</customercity>
    <customerstate>IN</customerstate>
    <customerzip>47394</customerzip>
    <jobnumber>000100</jobnumber>
    <jobdescription>UNKNOWN JOB</jobdescription>
    <jobcity>JOB CITY</jobcity>
    <printcount>0</printcount>
    <paymethodcode>1</paymethodcode>
    <paymethodtext2>COD,CHECK,CREDIT CARD</paymethodtext2>
    <previousbalance>0.00000</previousbalance>
    <metric>F</metric>
    <boaccelpercent>0.00000</boaccelpercent>
    <boairentpercent>0.00000</boairentpercent>
```

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```
<bowaterreducpercent>0.00000</bowaterreducpercent>
<boprintweights>F</boprintweights>
<ordertaxcode>10</ordertaxcode>
<orderstate>IN</orderstate>
<databasename>SYSTECHDB</databasename>
<unloadminutes>0</unloadminutes>
<company>01</company>
<customername>CUSTOMER NAME</customername>
<trucktype>ANY TRUCK</trucktype>
<mixposition>0</mixposition>
<orderdescription>ORDER DESCRIPTION</orderdescription>
<grossweight>0.00000</grossweight>
<tareweight>0.00000</tareweight>
<netweight>0.00000</netweight>
<pos>F</pos>
<weighmastername>WEIGHMASTER NAME</weighmastername>
<totaldeliverycharge>16.96000</totaldeliverycharge>
<zonenumber>ZONE 1</zonenumber>
<vehiclenumber>23</vehiclenumber>
<vehicledescription>TRUCK #23</vehicledescription>
<companyname>SYSTECH, INC</companyname>
<companyaddress>9014 HERITAGE PKWY, WOODRIDGE, IL</companyaddress>
<locationname>LOCATION NAME</locationname>
<locationaddress>9014 HERITAGE PKWY, WOODRIDGE, IL </locationaddress>
<locationphone>1234567890</locationphone>
<numberofproducts>3</numberofproducts>
<waittime>6</waittime>
<bagmixpounds>100.00000</bagmixpounds>
<gal>A</gal>
<deliveryproductnbr>RMDEL</deliveryproductnbr>
<creditdescription>Charge Account</creditdescription>
<jobsiteradius>30.00000</jobsiteradius>
<zipcode2>47394</zipcode2>
<joblatitude>10.00000</joblatitude>
<joblongitude>20.00000</joblongitude>
<orderid>37462</orderid>
<runningjobtotals>F</runningjobtotals>
<totalaggprodsqty>0.00000</totalaggprodsqty>
<loads4mainproduct>1</loads4mainproduct>
<totalrmprodsqty>8.00000</totalrmprodsqty>
<totalorderrmqty>200.00000</totalorderrmqty>
<jobaddress1>99</jobaddress1>
<prevtaxbalance>0.00000</prevtaxbalance>
<estimatedloadnbr>1</estimatedloadnbr>
<jobstate>IN</jobstate>
<mixformulaid>-1</mixformulaid>
<prevshippedloads>0</prevshippedloads>
<orig_load_time>2008-06-27T16:37:00</orig_load_time>
<employeeicensenbr>123456789012345678901234567890</employeeicensenbr>
<employeeicexpireddate>2007-12-31T00:00:00</employeeicexpireddate>
<employeeefirstname>FIRST</employeeefirstname>
<employeeelastname>LAST</employeeelastname>
<companyid>1</companyid>
<locationcity>CITY</locationcity>
<locationstate>ST</locationstate>
<locationzip>47374</locationzip>
<billdepartmentnbr>1000</billdepartmentnbr>
<billdepartmentname>RM DEPT #1 XXXXXXXXXXXXXXXXXXXX</billdepartmentname>
<userdefined20>10</userdefined20>
<userdefined21>550</userdefined21>
<userdefined22>850</userdefined22>
<userdefined23>0</userdefined23>
<userdefined24>0</userdefined24>
<userdefined25>0</userdefined25>
<grandtotal>869.20000</grandtotal>
<maxgrossvehicleweight>10.00000</maxgrossvehicleweight>
<grossweightdouble>0.00000</grossweightdouble>
<tareweightdouble>0.00000</tareweightdouble>
<netweightdouble>0.00000</netweightdouble>
<companyaddress2>P O BOX 1830</companyaddress2>
<companycity>CITY</companycity>
```

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```
<companystate>IN</companystate>
<companyzip>47375-1830</companyzip>
<ordershipdatetime>2008-06-27T18:00:00</ordershipdatetime>
<projectreference>PROJECT RE</projectreference>
<totalorderbmqty>0.00000</totalorderbmqty>
<numberofmixcomponents>0</numberofmixcomponents>
<numberofbillphones>1</numberofbillphones>
<billphone_number>1234567890</billphone_number>
<billphone_desc>PHONE</billphone_desc>
<products>
  <productnumber1>PB60P</productnumber1>
  <description1>PRICE 6 BAG PEA GRAVEL</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>85.50000</unitprice>
  <price>684.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>8.00000</loadsize>
  <categorycode>198</categorycode>
  <slump>4.00000</slump>
  <bagmix>6.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
  <tax>41.04000</tax>
  <mixnumber>PB60P</mixnumber>
  <priceum>CY</priceum>
</products>
<products>
  <productnumber1>ENV</productnumber1>
  <description1>ENVIRONMENTAL FEE</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>15.00000</unitprice>
  <price>120.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>0.00000</loadsize>
  <categorycode>705</categorycode>
  <slump>0.00000</slump>
  <bagmix>0.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
  <alt_description>ENVIRONMENTAL FEE</alt_description>
  <tax>7.20000</tax>
  <mixnumber>ENV</mixnumber>
  <priceum>CY</priceum>
</products>
<products>
  <productnumber1>RMDEL</productnumber1>
  <description1>RM DELIVERY CHARGE</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>2.00000</unitprice>
  <price>16.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>0.00000</loadsize>
  <categorycode>911</categorycode>
  <slump>0.00000</slump>
  <bagmix>0.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
  <alt_description>METRIC RM DELIVERY CHARGE</alt_description>
  <tax>0.96000</tax>
  <mixnumber>RMDEL</mixnumber>
  <priceum>CY</priceum>
</products>
```

Integra XML – Technical Specification

```
</ticket>
</event>
</Systech_Signal_Message>
```

3.3 CHANGE TICKET MESSAGE

This message comes from Dispatch to the signal vendor

```
event_category      = Signal
event_type          = Ticket
event_sub_type       = CHG
```

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{4B53B91A-A594-4228-BA56-66CA53482C63}</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:05:47</event_date_time>
    <event_category>Signal</event_category>
    <event_type>Ticket</event_type>
    <event_sub_type>CHG</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T15:05:47</event_date_time_utc>
    <event_origin>SYSTECH</event_origin>
  <ticket>
    <ticketid>69426</ticketid>
    <shipcode1>D</shipcode1>
    <plant>1</plant>
    <ticketnumber>109818</ticketnumber>
    <ordernumber>12939</ordernumber>
    <load>1</load>
    <loads>25</loads>
    <leftover>0.00000</leftover>
    <shiplocation>011</shiplocation>
    <shiplocationname>LOC NAME</shiplocationname>
    <ponumber>PO NUMBER</ponumber>
    <zone>1</zone>
    <ticketsubtotal>820.00000</ticketsubtotal>
    <tickettax>49.20000</tickettax>
    <tickettotal>869.20000</tickettotal>
    <trucknumber>23</trucknumber>
    <drivernumber>999999</drivernumber>
    <drivername1>DRIVER, UNASSIGNED</drivername1>
    <driverlastname>DRIVER</driverlastname>
    <driverfirstname>UNASSIGNED</driverfirstname>
    <shippinginstructions>SHIPPING INSTRUCTIONS LINE1
SHIPPING INSTRUCTIONS LINE2
SHIPPING INSTRUCTIONS LINE3
SHIPPING INSTRUCTIONS LINE4
SHIPPING INSTRUCTIONS LINE5
SHIPPING INSTRU</shippinginstructions>
    <dispatchinstructions>DISPATCH INSTRUCTIONS LINE1
DISPATCH INSTRUCTIONS LINE2
DISPATCH INSTRUCTIONS LINE3
DISPATCH INSTRUCTIONS LINE4
DISPATCH INSTRUCTIONS LINE5
DISPATCH INSTRU</dispatchinstructions>
    <customernumber>100022</customernumber>
    <customeraddress1>P.O. BOX 304</customeraddress1>
    <customercity>CUSTOMER CITY</customercity>
    <customerstate>IN</customerstate>
    <customerzip>47394</customerzip>
    <jobnumber>000100</jobnumber>
    <jobdescription>UNKNOWN JOB</jobdescription>
    <jobcity>JOB CITY</jobcity>
    <printcount>0</printcount>
    <paymethodcode>1</paymethodcode>
```

Integra XML – Technical Specification

```
<paymethodtext2>COD,CHECK,CREDIT CARD</paymethodtext2>
<previousbalance>0.00000</previousbalance>
<metric>F</metric>
<boaccelpercent>0.00000</boaccelpercent>
<boairentpercent>0.00000</boairentpercent>
<bowaterreducpercent>0.00000</bowaterreducpercent>
<boprintweights>F</boprintweights>
<ordertaxcode>10</ordertaxcode>
<orderstate>IN</orderstate>
<databasename>SYSTECHDB</databasename>
<unloadminutes>0</unloadminutes>
<company>01</company>
<customername>UNKNOWN CUSTOMER</customername>
<trucktype>ANY TRUCK</trucktype>
<mixposition>0</mixposition>
<orderdescription>UNKNOWN JOB</orderdescription>
<grossweight>0.00000</grossweight>
<tareweight>0.00000</tareweight>
<netweight>0.00000</netweight>
<pos>F</pos>
<weighmastername>WEIGHMASTER NAME</weighmastername>
<totaldeliverycharge>16.96000</totaldeliverycharge>
<zonenumber>ZONE 1</zonenumber>
<vehiclenumber>23</vehiclenumber>
<vehicledescription>1984 TET FRONT</vehicledescription>
<companyname>SYSTECH, INC</companyname>
<companyaddress>9014 HERITAGE PKWY, WOODRIDGE, IL </companyaddress>
<locationname>LOC NAME</locationname>
<locationaddress>9014 HERITAGE PKWY, WOODRIDGE, IL </locationaddress>
<locationphone>1234567890</locationphone>
<numberofproducts>3</numberofproducts>
<waittime>6</waittime>
<bagmixpounds>100.00000</bagmixpounds>
<gal>A</gal>
<deliveryproductnbr>RMDEL</deliveryproductnbr>
<creditdescription>Charge Account</creditdescription>
<jobsiteradius>30.00000</jobsiteradius>
<zipcode2>47394</zipcode2>
<joblatlatitude>10.00000</joblatlatitude>
<joblongitude>20.00000</joblongitude>
<orderid>37462</orderid>
<runningjobtotals>F</runningjobtotals>
<totalaggprodsqty>0.00000</totalaggprodsqty>
<loads4mainproduct>1</loads4mainproduct>
<totalrmprodsqty>8.00000</totalrmprodsqty>
<totalorderrmqty>200.00000</totalorderrmqty>
<jobaddress1>99</jobaddress1>
<prevtaxbalance>0.00000</prevtaxbalance>
<estimatedloadnbr>1</estimatedloadnbr>
<jobstate>IN</jobstate>
<mixformulaid>-1</mixformulaid>
<prevshippedloads>0</prevshippedloads>
<orig_load_time>2008-06-27T16:37:00</orig_load_time>
<employeeelicensebr>123456789012345678901234567890</employeeelicensebr>
<employeeelicenseexpiredate>2007-12-31T00:00:00</employeeelicenseexpiredate>
<employeeefirstname>FIRST</employeeefirstname>
<employeeelastname>LAST</employeeelastname>
<companyid>1</companyid>
<locationcity>CITY</locationcity>
<locationstate>IN</locationstate>
<locationzip>47374</locationzip>
<billdepartmentnbr>1000</billdepartmentnbr>
<billdepartmentname>RM DEPT #1 XXXXXXXXXXXXXXXXXXXX</billdepartmentname>
<userdefined20>10</userdefined20>
<userdefined21>550</userdefined21>
<userdefined22>850</userdefined22>
<userdefined23>0</userdefined23>
<userdefined24>0</userdefined24>
<userdefined25>0</userdefined25>
<grandtotal>869.20000</grandtotal>
<maxgrossvehicleweight>10.00000</maxgrossvehicleweight>
```

Integra XML – Technical Specification

```
<grossweightdouble>0.00000</grossweightdouble>
<tareweightdouble>0.00000</tareweightdouble>
<netweightdouble>0.00000</netweightdouble>
<companyaddress2>P O BOX 1830</companyaddress2>
<companycity>CITY</companycity>
<companystate>IN</companystate>
<companyzip>47375-1830</companyzip>
<ordershipdatetime>2008-06-27T18:00:00</ordershipdatetime>
<projectreference>PROJECT RE</projectreference>
<totalorderbmqty>0.00000</totalorderbmqty>
<numberofmixcomponents>0</numberofmixcomponents>
<numberofbillphones>1</numberofbillphones>
<billphone_number>1234567890</billphone_number>
<billphone_desc>PHONE</billphone_desc>
<products>
  <productnumber1>PB60P</productnumber1>
  <description1>PRICE 6 BAG PEA GRAVEL</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>85.50000</unitprice>
  <price>684.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>8.00000</loadsize>
  <categorycode>198</categorycode>
  <slump>5.00000</slump>
  <bagmix>6.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
  <tax>41.04000</tax>
  <mixnumber>PB60P</mixnumber>
  <priceum>CY</priceum>
</products>
<products>
  <productnumber1>ENV</productnumber1>
  <description1>ENVIRONMENTAL FEE</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>15.00000</unitprice>
  <price>120.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>0.00000</loadsize>
  <categorycode>705</categorycode>
  <slump>0.00000</slump>
  <bagmix>0.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
  <alt_description>ENVIRONMENTAL FEE</alt_description>
  <tax>7.20000</tax>
  <mixnumber>ENV</mixnumber>
  <priceum>CY</priceum>
</products>
<products>
  <productnumber1>RMDEL</productnumber1>
  <description1>RM DELIVERY CHARGE</description1>
  <quantity>8.00000</quantity>
  <um>CY</um>
  <unitprice>2.00000</unitprice>
  <price>16.00000</price>
  <taxcode>10</taxcode>
  <cumulativequantity>8.00000</cumulativequantity>
  <loadsize>0.00000</loadsize>
  <categorycode>911</categorycode>
  <slump>0.00000</slump>
  <bagmix>0.00000</bagmix>
  <pricequantity>8.00000</pricequantity>
  <o_quantity>8.00000</o_quantity>
  <o_pricequantity>8.00000</o_pricequantity>
```

Integra XML – Technical Specification

```
<alt_description>METRIC RM DELIVERY CHARGE</alt_description>
<tax>0.96000</tax>
<mixnumber>RMDEL</mixnumber>
<priceum>CY</priceum>
</products>
</ticket>
</event>
</Systech_Signal_Message>
```

3.4 VOID TICKET MESSAGE

This message comes from Dispatch to the signal vendor

event_category = Signal
event_type = Ticket
event_sub_type = VOID

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{3F21851D-9114-487F-8A14-CF99637D2F7B}</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:13:03</event_date_time>
    <event_category>Signal</event_category>
    <event_type>Ticket</event_type>
    <event_sub_type>VOID</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>TestXMLSender</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T15:13:03</event_date_time_utc>
    <event_origin>SYSTECH</event_origin>
    <ticket>
      <ticketid>242448</ticketid>
      <ticketnumber>109818</ticketnumber>
      <ordernumber>12939</ordernumber>
      <shiplocation>001</shiplocation>
      <orderid>37462</orderid>
    </ticket>
  </event>
</Systech_Signal_Message>
```

3.5 FREE FORMATTED TEXT MESSAGE

This message comes from Dispatch to the signal vendor

event_category = Message
event_type = Textmsg
event_sub_type = Free
event_message = *The text that was sent from Dispatch*

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{BFCA98A3-8D36-494D-80BE-DE0DAC159146}</eventid>
  <vehicle_number>15</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:14:47</event_date_time>
    <event_category>Message</event_category>
    <event_type>Textmsg</event_type>
    <event_sub_type>Free</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>FREE FORMATTED TEXT</event_message_string>
    <event_origin_machname>TestXMLSender</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T15:14:47</event_date_time_utc>
```

```
<event_origin>SYSTECH</event_origin>
</event>
</Systech_Signal_Message>
```

3.6 FREE FORMATTED TEXT MESSAGE WAITING FOR A RESPONSE FROM THE VEHICLE

This message comes from Dispatch to the signal vendor. The signal vendor will return a message that supply's the vehicle response

```
event_category = Message
event_type      = Textmsg
event_sub_type  = Rsp
event_message   = The question that was sent from Dispatch
responses       = 1 to 5 possible responses

<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>{B687740D-53BC-4995-A29C-A85581EC07C9}</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:19:27</event_date_time>
    <event_category>Message</event_category>
    <event_type>Textmsg</event_type>
    <event_sub_type>Rsp</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>ARE YOU GOING WORK LATE TODAY?</event_message_string>
    <event_origin_machname>TestXMLSender</event_origin_machname>
    <event_origin_username>SYSTECH</event_origin_username>
    <event_date_time_utc>2008-06-27T15:19:27</event_date_time_utc>
    <event_origin>SYSTECH</event_origin>
    <responses>
      <response>YES I WILL WORK LATE</response>
    </responses>
    <responses>
      <response>NO I WILL NOT WORK LATE</response>
    </responses>
    <responses>
      <response>YES I WILL WORK LATE AND I ALREADY WORKED THROUGH LUNCH
    </response>
    </responses>
    <responses>
      <response>YES I WILL WORK LATE AND I ALREADY TOOK A LUNCH</response>
    </responses>
    <responses>
      <response>YES I WILL WORK LATE AND I STILL NEED TO TAKE MY LUNCH</response>
    </responses>
  </event>
</Systech_Signal_Message>
```

Message back from the vehicle, which will contain the outgoing eventid and the response the vehicle selected.

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>{B687740D-53BC-4995-A29C-A85581EC07C9}</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:19:44.1619205-05:00</event_date_time>
    <event_category>TxtMessage</event_category>
    <event_type>TxtResponse</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>YES I WILL WORK LATE</event_message_string>
    <event_origin_machname>PCNAME</event_origin_machname>
```

Integra XML – Technical Specification

```
        <event_origin_username>jozark</event_origin_username>
        <event_origin>Tester</event_origin>
    </event>
</Systech_Signal_Message>
```

3.7 VEHICLE STATUS

This message comes from signal vendor to Dispatch.

event_category	= Signal
event_type	= Status
event_sub_type	= Signal type, see table above
event_location	= Optional location to supplement the Arrive Plant status
event_message_string	= Optional TicketID to help get information on tickets that may already be off the road.

Example vehicle 23 is arriving at plant 011 on ticket with id 12345

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <eventid>c785f7c6-22ae-48e1-ae76-0410bde07e00</eventid>
    <vehicle_number>23</vehicle_number>
    <event>
        <event_date_time>2008-06-27T11:24:48</event_date_time>
        <event_category>Signal</event_category>
        <event_type>Status</event_type>
        <event_sub_type>8</event_sub_type>
        <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
        <event_message_string>12345</event_message_string>
        <event_origin_machname>PCNAME</event_origin_machname>
        <event_origin_username>Tester</event_origin_username>
        <event_location>011</event_location>
        <event_date_time_utc>2008-06-27T16:24:48</event_date_time_utc>
        <event_origin>Testing</event_origin>
    </event>
</Systech_Signal_Message>
```

3.8 ADD WATER

This message comes from signal vendor to dispatch.

event_category	= Informational
event_type	= AddWater
event_sub_type	= Not used
event_message_string	= <i>Amount of Water Added</i>

Example shows Vehicle 35 added 2 gallons

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <eventid>ccbdeca4-54da-4886-a4dd-e14c99ae74b7</eventid>
    <vehicle_number>35</vehicle_number>
    <event>
        <event_date_time>2008-06-27T10:53:10.4972358-05:00</event_date_time>
        <event_category>Informational</event_category>
        <event_type>AddWater</event_type>
        <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
        <event_message_string>2</event_message_string>
        <event_origin_machname>PCNAME</event_origin_machname>
        <event_origin_username>USERNAME</event_origin_username>
    </event>
</Systech_Signal_Message>
```

```
<event_origin>Example</event_origin>
</event>
</Systech_Signal_Message>
```

3.9 SEND TEXT

This message comes from signal vendor to Dispatch.

event_category	= Informational
event_type	= Textmsg
event_sub_type	= Not used
event_message_string	= <i>the text message to send to dispatch</i>

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>47287279-950c-47d5-8143-8db925164673</eventid>
  <vehicle_number>35</vehicle_number>
  <event>
    <event_date_time>2008-06-27T10:56:34.4334306-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>Textmsg</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>Sending an inbound text message</event_message_string>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>SystechXml</event_origin>
  </event>
</Systech_Signal_Message>
```

3.10 LEFT OVER

This message comes from signal vendor to dispatch.

event_category	= Informational
event_type	= LeftOver
event_sub_type	= Not used
event_message_string	= <i>Amount of concrete Left Over</i>

Example Vehicle has 1.5 yards of concrete left over

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>94a0dd9f-57fc-4cc3-b16e-4fb429d4c855</eventid>
  <vehicle_number>35</vehicle_number>
  <event>
    <event_date_time>2008-06-27T11:03:35.2901121-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>LeftOver</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>1.5</event_message_string>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Example</event_origin>
  </event>
</Systech_Signal_Message>
```

3.11 TRUCK AVAILABILITY

event_category = Informational
event_type = TruckStatus
event_sub_type = Out of Service or In Service

Example of asking for a list of Out of Service vehicles

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>d179e3db-1d5f-4522-8314-7d8353a98842</eventid>
  <vehicle_number>None</vehicle_number>
  <event>
    <event_date_time>2008-06-27T11:05:10.305129-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>TruckStatus</event_type>
    <event_sub_type>Out of Service</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCName</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Test</event_origin>
  </event>
</Systech_Signal_Message>
```

Message that is returned by Dispatch

event_category = Informational
event_type = Status
event_sub_type = Trucks
Truck Node contains
 number = Truck number
 company = Company number
 status = Out of Service or In Service

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>d179e3db-1d5f-4522-8314-7d8353a98842</eventid>
  <event>
    <event_date_time>2008-06-27T11:05:10</event_date_time>
    <event_category>Informational</event_category>
    <event_type>Status</event_type>
    <event_sub_type>Trucks</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_date_time_utc>2008-06-27T16:05:10</event_date_time_utc>
    <event_origin>SystechSignal</event_origin>
    <trucks>
      <number>10</number>
      <company>01</company>
      <status>Out of Service</status>
    </trucks>
    <trucks>
      <number>33</number>
      <company>01</company>
      <status>Out of Service</status>
    </trucks>
    <trucks>
      <number>29</number>
      <company>01</company>
      <status>Out of Service</status>
    </trucks>
  </event>
</Systech_Signal_Message>
```

3.12 PLANT INFORMATION

This message comes from signal vendor to Dispatch, then Dispatch returns the plant information

event_category = Informational
event_type = GetPlantInfo
event_sub_type = Not used

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>f9e7d9cf-4e34-4dc5-b4e5-f2a258a43712</eventid>
  <vehicle_number>None</vehicle_number>
  <event>
    <event_date_time>2008-06-27T11:09:50.493282-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>GetPlantInfo</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Markie</event_origin>
  </event>
</Systech_Signal_Message>
```

Response from Dispatch

event_category = Informational
event_type = Status
event_sub_type = Plants

plant Node Contains

company = Company number
plantnumber = Plant number
plantname = Plant name
planttype = R: Ready Mix
 G: Pit
 L: Quarry
 C: Excavating
 P: Pumping

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>f9e7d9cf-4e34-4dc5-b4e5-f2a258a43712</eventid>
  <event>
    <event_date_time>2008-06-27T11:09:50</event_date_time>
    <event_category>Informational</event_category>
    <event_type>Status</event_type>
    <event_sub_type>Plants</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_origin_machname>PCNAME</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_date_time_utc>2008-06-27T16:09:50</event_date_time_utc>
    <event_origin>SystechSignal</event_origin>
    <plants>
      <company>01</company>
      <plantnumber>000</plantnumber>
      <plantname>GLOBAL LOCATION</plantname>
      <planttype>R</planttype>
    </plants>
  </event>
  <company>01</company>
  <plantnumber>011</plantnumber>
```

Integra XML – Technical Specification

```
<plantname>LOCATION #11</plantname>
<planttype>R</planttype>
</plants>
<plants>
  <company>01</company>
  <plantnumber>021</plantnumber>
  <plantname> LOCATION #21</plantname>
  <planttype>G</planttype>
</plants>
<plants>
  <company>01</company>
  <plantnumber>023</plantnumber>
  <plantname> LOCATION #23</plantname>
  <planttype>L</planttype>
</plants>
</event>
</Systech_Signal_Message>
```

3.13 ORDER ID

This message comes from signal vendor to Dispatch, then Dispatch returns the order ID.

event_category = Informational
event_type = RequestOrderID
event_sub_type = Not Used
event_message_string = *Vehicle Number*

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>ab2bb45d-5e99-4964-8df9-cae0131cc60a</eventid>
  <vehicle_number>23</vehicle_number>
  <event>
    <event_date_time>2008-06-27T12:59:46.3511909-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>RequestOrderID</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>23</event_message_string>
    <event_origin_machname>PCName </event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Example</event_origin>
  </event>
</Systech_Signal_Message>
```

Return Message from Dispatch

event_category = Informational
event_type = Status
event_sub_type = Requestorderid
event_message_string = *Order ID*

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>ab2bb45d-5e99-4964-8df9-cae0131cc60a</eventid>
  <event>
    <event_date_time>2008-06-27T12:59:46</event_date_time>
    <event_category>Informational</event_category>
    <event_type>Status</event_type>
    <event_sub_type>Requestorderid</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
```

Integra XML – Technical Specification

```
<event_message_string>37462</event_message_string>
<event_origin_machname>PC-TestXMLSender</event_origin_machname>
<event_origin_username>TestXMLSender</event_origin_username>
<event_date_time_utc>2008-06-27T17:59:46</event_date_time_utc>
<event_origin>SystechSignal</event_origin>
</event>
</Systech_Signal_Message>
```

3.14 ORDER COMPLETE

This message comes from signal vendor to Dispatch.

event_category = Informational
event_type = IsOrderComplete
event_sub_type = Not Used
event_message_string = *Order ID*

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>71fa54c1-cc26-4012-bf00-037dae567733</eventid>
  <vehicle_number>none</vehicle_number>
  <event>
    <event_date_time>2008-06-27T13:05:10.417747-05:00</event_date_time>
    <event_category>Informational</event_category>
    <event_type>IsOrderComplete</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>37462</event_message_string>
    <event_origin_machname>PCName</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Example</event_origin>
  </event>
</Systech_Signal_Message>
```

Return Message from Dispatch.

event_category = Informational
event_type = Status
event_sub_type = Order Complete
event_message_string = Order Completed or Order Not Complete

```
<?xml version="1.0"?>
<Systech_Signal_Message xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <eventid>71fa54c1-cc26-4012-bf00-037dae567733</eventid>
  <event>
    <event_date_time>2008-06-27T13:05:10</event_date_time>
    <event_category>Informational</event_category>
    <event_type>Status</event_type>
    <event_sub_type>OrderComplete</event_sub_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>Order Not Complete</event_message_string>
    <event_origin_machname>PCName</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_date_time_utc>2008-06-27T18:05:10</event_date_time_utc>
    <event_origin>SystechSignal</event_origin>
  </event>
</Systech_Signal_Message>
```

3.15 INPUT LATITUDE, LONGITUDE AND JOB RADIUS

This message comes from signal vendor to Dispatch.

event_category = GPS
event_type = InputLatLongRadius
event_sub_type = Not Used
event_message_string = *OrderID~Latitude~Longitude~Job Radius~*

Example

Order ID = 37462
Latitude = 40
Longitude = -85
Job Radius = 10

```
<?xml version="1.0" encoding="utf-8"?>
<Systech_Signal_Message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <eventid>82852aef-7860-4302-8444-544cfda66404</eventid>
  <vehicle_number>none</vehicle_number>
  <event>
    <event_date_time>2008-06-27T13:08:03.6212668-05:00</event_date_time>
    <event_category>GPS</event_category>
    <event_type>InputLatLongRadius</event_type>
    <event_origin_ipaddr>192.168.0.71</event_origin_ipaddr>
    <event_message_string>37462~40~-85~10</event_message_string>
    <event_origin_machname>PCName</event_origin_machname>
    <event_origin_username>Tester</event_origin_username>
    <event_origin>Example</event_origin>
  </event>
</Systech_Signal_Message>
```