

ControlPro: Template Documentation

(v3.3.10)

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Using Word Document Templates

Introduction

This document explains how to use Microsoft Word documents (.docx) as templates for printing out forms using ICS ControlPro™. Anything a normal Word document can handle can be incorporated into a template: headers, footers, page numbers, watermarks, hyperlinks, images, text formatting, etc.

Basically, templates have text, images, and tags. The tags will get replaced with actual values of the objects to be printed. For example, “{TIK_ID}” will get replaced with an actual ticket number: like, “9997000121”. “{TIK_ID}-{TBA_BAID}” would get replaced with a ticket number and a load number: “9997000121-03”.

Several types of templates are supported: mix and delivery tickets, and reports for each search screen. More template types will be implemented in the future as necessary. Select a mix template on the Printers tab of the System Details screen; along with any printers/trays that will print hard copies. Delivery templates are selected on the Originator Details screen. Report templates are selected when setting up a report on any search screen.

Test pages can be either printed, emailed or viewed. Any generated .pdfs are temporary; as they will be cleaned up behind the scenes. If you need them, copy them while they are open.

For systems, to print a test page of the selected template, a ticket must be selected on the Tickets tab to provide data to the template. To test the template, the batch *does not* have to actually be sent to the loadout. To test delivery templates, select a previously delivered load from a Ticket Details screen’s Delivered Loads tab.

If a template is intended to be used as a text message, include the special tag “{\n}” at least once in the template. Because of the way that all formatting is lost when the template is stripped down to plain text, all tabs and new lines are also removed. Use the “{\n}” tag where new lines are to be inserted.

Lists in the templates: all tags on the line containing the relevant identity tag will be treated as a sub-template. In other words, each item in the list will fill its own line of data with the provided sub-template. Multi-line templates are also supported by appending “:n” to the tag; where n is a number. For example, “{TIK_ID:3}” would indicate a three-line ticket line-item template.

Line items within a list can be sorted by a single value. Use the format for multi-line sub-template and include the tag of the desired sort value after the pipe (|) character. For example, “{TIK_ID:1|TIK_IEXD}” would sort the result set by time the ticket was exported via an interface.

Additionally, some line items – such as load materials – support filtering. Both arguments above need to be used. The third argument is a filter argument. For example, a bill of lading could have this for its load materials: “{MAT_ID:3|MAT_DESC|!CHEM}”. This means the sub-template is three lines long, is sorted by the material description, and will only allow materials not marked as chemicals to be shown in the list. Any filter can be prefaced with “!” to mean “not”. See the full tag list below for available filters.

Although line item lists in the templates require the _ID tags to be identified, if the ID is not desired to be on the finished template, include an asterisk (*) at the end of the arguments. For example, “{MAT_ID:1*}”. This will indicate a single line template, and the ID tag will be removed. Other arguments inside the tag will be unaffected.

Images in the templates: all tags to be replaced with images must have a desired size in inches as the parameters of the tag. For example, "{TBA_DRSG:2.25x.75}" would be replaced with the image of the driver's signature. That image would be 2.25" wide and .75" high. This includes barcode images.

For now, some templates require sub-lists to be in a specific order. At some point, this restriction will be lifted, but for now:

- Delivery: attributes need to be before materials

Attributes can be printed off either as an entire sub-list – using the "{ATT_TYPE}" and "{ATT_VALUE}" tags – or specified individually using a tag format like this: "{TIK_ATT:DOT Number}" – where "DOT Number" is the attribute type. If the specified attribute is not present, a "----" will be inserted.

- Tickets: TIK_ATT:<type>
- Materials: MAT_ATT:<type>
- Parties: PAR_ATT:<type>

Important: do not modify the provided document templates directly. They will be replaced with the defaults every time the application starts. To create custom templates, copy, paste and rename one of the default templates.

Mix Template

Mix tickets are created when a batch is sent to the loadout. These can be reprinted from the Batches tab on System screen. The default mix ticket template simply lists the tickets contained in the batch and all materials – including hand adds – in the batch.

ICS ControlPro™ looks for the following tags to identify lists of objects.

- TIK_ID – tickets
- MAT_ID – materials

Delivery Template

Delivery tickets are created when a load is complete. These can be reprinted from the Delivered Loads tab on the Ticket screen. The default delivery ticket is an example bill of lading. The template has the company header and logo, along with all the references and materials delivered in the load. If the load consisted of multiple tickets, a delivery ticket will be generated for each ticket.

When printing actual delivery tickets, any email addresses on tickets' customers that are marked for distribution will be emailed a .pdf copy of the delivery ticket. Testing and reprinting a delivery template will not generate emails.

ICS ControlPro™ looks for the following tags to identify lists of objects:

- REF_TYPE – references
- MAT_ID – materials

Report Templates

Reports print by referencing report templates. Any number of reports or templates can exist.

ICS ControlPro™ looks for specific tags depending on which search screen the report was generated from to identify lists of objects:

- TIK_ID – tickets/loads (Delivered Loads)

Ticket, load and formula reports can list their materials as individual line items. See the “*WMaterials.docx” templates for examples.

Suggestions

- Don't use default tabs in a row – by just pressing the Tab key. Instead, use custom tab stops. Tab stops can be created by clicking on the ruler at the top of the page.
 - <https://support.office.com/en-us/article/Set-clear-or-remove-tab-stops-06969e0f-2c81-4fe0-8df5-88f18087a8e0>
- Because the tags can often be longer than the actual data that will replace it, it often helps to set the view of the template to Web Layout. This won't line up the tabs in the template, but it will give you more horizontal space to keep lines together. Also, use the actual printed data to adjust the tab spacing, not the template tags.
- When applying formatting to tags, apply the formatting to the entire tag; along with the curly brackets. A partially formatted tag will not be recognized.

Custom Tags

Users can define both global and local tags on the Settings screen for use in templates. These tags are in context for all of ControlPro's printing. When defining the tags, do not include the curly braces. Just like other settings, global tags will be shared amongst all networked instances of ControlPro, while local tags will only be available in this instance of the software. When populating templates, the specified values will replace the tag.

Tag	Value
Auditor	Mr. Anderson
Certificate Number	A1743
Website	http://www.companyname.com/

To use these tags, add them to a template in the normal way. For example, the above tags can be used like this:

Auditor: {Auditor}
Certificate #: {Certificate Number}
Website: {Website}

When the template is populated, the result would look like this:

Auditor: Mr. Anderson
Certificate #: A1743
Website: <http://www.companyname.com>

Standard Tags

Systems

- SYS_ID – system ID
- SYS_NAME – name
- SYS_TYPE – system type
- SYS_MTYP – mix type
- SYS_CAP – capacity
- SYS_CAPU – capacity units
- SYS_ACAP – alternate capacity
- SYS_ACAU – alternate capacity units
- SYS_NET – network address
- SYS_TRTO – transaction timeout
- SYS_PLCI – PLC details index
- SYS_PLCL – PLC details length
- SYS_INRG – input register
- SYS_OTRG – output register
- SYS_RGTY – register type
- SYS_RGSZ – register array size
- SYS_TLRG – totalizer register index
- SYS_MXTN – mix template name
- SYS_PMT – prompt for mix ticket
- SYS_PDT – prompt for delivery ticket(s)
- SYS_ARBT – automatically remove completed batch tickets
- SYS_ARR – allow remote request flag
- SYS_PPD – push PLC details flag
- SYS_BCN – background color name
- SYS_DNRG – detail name register
- SYS_DCRG – detail color register
- SYS_SOSW – show oversold warning
- SYS_RRRG – request register
- SYS_ENAB – enabled flag

- SYS_BHAC – total number of hand-adds in the batch
- SYS_ISSC – is scale-only system
- SYS_CADS – is capturing driver signature
- SYS_QSCA – is using quick capture
- SYS_UCAS – is using the ControlPro CA for signature capture
- SYS_OPN – override printer name
- SYS_MBS – maximum batch size
- SYS_RBE – requires equipment
- SYS_RBD – requires driver
- SYS_ACBD – default auto-correct
- SYS_TBAM – total batch amount
- SYS_TIBA – total in-batch amount
- SYS_TSAM – total in sub-batch amount
- SYS_TBAC – total batch acres
- SYS_TDBA – to delivered amount
- SYS_SBMG – sub-batch mix group
- SYS_CSB – current sub-batch
- SYS_ESBC – estimated sub-batch count
- SYS_MABS – maximum batch size
- SYS_MIBS – minimum batch size
- SYS_PLCD – PLC poll delay
- SYS_RRMT – print mix tickets for remote request
- SYS_RRRM – remote requests allow partial ID matching
- SYS_RABR – auto-repeat for multiple batches on remote requests
- SYS_ARRR – read fixed repeat count
- SYS_IMCO – ignore mixer capacity when over capacity
- SYS_SBOC – sub-batch when over capacity
- SYS_SMBD – manual sub-batching by default
- SYS_AMBD – use increment mix groups by default
- SYS_EBBD – equalize sub-batch sizes by default
- SYS_AMBD – use automatic mix groups by default
- SYS_VSCT – PLC's vessel count
- SYS_ACMA – auto-copy manual amounts
- SYS_ARRA – allows remote request amounts or not
- SYS_UCBD – continuous sub-batching by default
- SYS_SSYS – secondary system ID
- SYS_SAS – secondary auto-start
- SYS_BAHA – sub-batch has hand adds

System Materials

- SMA_ACT – is active flag
- SMA_SCAI – scanner index
- SMA_NODI – scanner node index

- SMA_CONVF – scanner conversion factor
- SMA_SNUN – sensor unit
- SMA_DIUN – display unit
- SMA_CAMT – current amount
- SMA_WAMT – warning amount
- SMA_RAMT – reserve amount
- SMA_COVF – sensor conversion factor
- SMA_LINK – is tank level linked to another system
- SMA_LSYS – linked system ID
- SMA_LSMA – linked system material ID

System Batch Tickets

- STK_BNUM – batch number
- STK_BACR – batch acres

System Batch Materials

- BAM_HA – is hand-add
- BAM_PUNT – material's pulse unit
- BAM_DUNT – material's display unit
- BAM_SUNT – system's unit
- BAM_MXGP – material's mix group
- BBM_BAMT – total requested batch amount [material's pulse units]
- BBM_DAMT – total requested batch amount [material's display units]
- BBM_SAMT – total requested batch amount [system's units]
- BBM_PULS – total requested batch pulses
- BBM_DBAB – total delivered batch amount [system material's pulse unit]
- BBM_DBAD – total delivered batch amount [system material's display unit]
- BBM_DBAS – total delivered batch amount [system's unit]
- SBM_BAMT – requested sub-batch amount [material's pulse units]
- SBM_DAMT – requested sub-batch amount [material's display units]
- SBM_UAMT – requested sub-batch amount [material's default units]
- SBM_SAMT – requested sub-batch amount [system's units]
- SBM_PULS – requested sub-batch pulses
- BAM_ARAT – application rate (display unit/acre)
- BAM_ARS – application rate (system unit/acre)
- BAM_ARDU – application rate (default unit/acre)
- BAM_ARLB – application rate (pounds/acre)
- BAM_ARTN – application rate (tons/acre)
- BAM_ARNT – application rate (long tons/acre)
- BAM_AROZ – application rate (ounces/acre)
- BAM_ARKG – application rate (kilograms/acre)
- BAM_ARMT – application rate (metric tons/acre)
- BAM_ARGR – application rate (grams/acre)

- BAM_ARGL – application rate (gallons/acre)
- BAM_ARQT – application rate (quarts/acre)
- BAM_ARPT – application rate (pints/acre)
- BAM_ARFO – application rate (fluid ounces/acre)
- BAM_ARCF – application rate (cubic feet/acre)
- BAM_ARLT – application rate (liters/acre)
- BAM_ARML – application rate (milliliters/acre)
- BAM_ARCM – application rate (cubic meters/acre)

Tickets

- TIK_ID – ticket ID
- TIK_IDS – serial ID
- TIK-BARC – configurable barcode image
- TIK_IDOP – originator prefix
- TIK_STAT – status
- REC_DESC – description
- TIK_GRAD – a truncated NPK based on the description
- TIK_TXGA – guaranteed analysis formatted for the state of Texas
- TIK_CRDT – date created
- TIK_CMDT – date completed
- TIK_EXDT – date expires
- REC_TYPE – mix type
- REC_UNIT – total unit
- TIK_EBCN – estimated load count
- REC_TACR – total acres
- TIK_DACR – total delivered acres
- TIK_RACR – total remaining acres
- TIK_IFN – interface file name
- TIK_ACM – does ticket auto-complete
- TIK_ACP – delivered percentage when auto-completes
- TCC_NAME – first consignee name
- TCC_ID – first consignee ID
- TCC_UID – first consignee UID
- TCC_SID – first consignee serial ID
- TCC_ADD1 – first consignee address line 1
- TCC_ADD2 – first consignee address line 2; or city/state/zip if address line 2 is empty
- TCC_ADD3 – first consignee city/state/zip; or empty if address line 2 is empty
- TCC_ADCS – first consignee city/state
- TCC_MAD1 – first consignee mailing address line 1
- TCC_MAD2 – first consignee mailing address line 2; or city/state/zip if address line 2 is empty
- TCC_MAD3 – first consignee mailing city/state/zip; or empty if address line 2 is empty
- TCC_MACS – first consignee mailing city/state
- TCC_PCN – first consignee primary contact name

- TCC_PCV – first consignee primary contact value
- TC2_NAME – second consignee name
- TC2_ID – second consignee ID
- TC2_UID – second consignee UID
- TC2_SID – second consignee serial ID
- TC2_ADD1 – second consignee address line 1
- TC2_ADD2 – second consignee address line 2; or city/state/zip if address line 2 is empty
- TC2_ADD3 – second consignee city/state/zip; or empty if address line 2 is empty
- TC2_ADCS – second consignee city/state
- TC2_MAD1 – second consignee mailing address line 1
- TC2_MAD2 – second consignee mailing address line 2; or city/state/zip if address line 2 is empty
- TC2_MAD3 – second consignee mailing city/state/zip; or empty if address line 2 is empty
- TC2_MACS – second consignee mailing city/state
- TC2_PCN – second consignee primary contact name
- TC2_PCV – second consignee primary contact value
- TBC_NAME – first bill-to name
- TBC_ID – first bill-to ID
- TBC_UID – first bill-to UID
- TBC_SID – first bill-to serial ID
- TBC_ADD1 – first bill-to address line 1
- TBC_ADD2 – first bill-to address line 2; or city/state/zip if address line 2 is empty
- TBC_ADD3 – first bill-to city/state/zip; or empty if address line 2 is empty
- TBC_ADCS – first bill-to city/state
- TBC_MAD1 – first bill-to mailing address line 1
- TBC_MAD2 – first bill-to mailing address line 2; or city/state/zip if address line 2 is empty
- TBC_MAD3 – first bill-to mailing city/state/zip; or empty if address line 2 is empty
- TBC_MACS – first bill-to mailing city/state
- TBC_PCN – first bill-to primary contact name
- TBC_PCV – first bill-to primary contact value
- TSC_NAME – first seller name
- TSC_ID – first seller ID
- TSC_UID – first seller UID
- TSC_SID – first seller serial ID
- TSC_ADD1 – first seller address line 1
- TSC_ADD2 – first seller address line 2; or city/state/zip if address line 2 is empty
- TSC_ADD3 – first seller city/state/zip; or empty if address line 2 is empty
- TSC_ADCS – first seller city/state
- TSC_MAD1 – first seller mailing address line 1
- TSC_MAD2 – first seller mailing address line 2; or city/state/zip if address line 2 is empty
- TSC_MAD3 – first seller mailing city/state/zip; or empty if address line 2 is empty
- TSC_MACS – first seller mailing city/state
- TSC_PCN – first seller primary contact name
- TSC_PCV – first seller primary contact value

- TFC_ID – first beneficial ID
- TFC_UID – first beneficial UID
- TFC_SID – first beneficial serial ID
- TFC_ADD1 – first beneficial address line 1
- TFC_ADD2 – first beneficial address line 2; or city/state/zip if address line 2 is empty
- TFC_ADD3 – first beneficial city/state/zip; or empty if address line 2 is empty
- TFC_ADCS – first beneficial city/state
- TFC_MAD1 – first beneficial mailing address line 1
- TFC_MAD2 – first beneficial mailing address line 2; or city/state/zip if address line 2 is empty
- TFC_MAD3 – first beneficial mailing city/state/zip; or empty if address line 2 is empty
- TFC_MACS – first beneficial mailing city/state
- TFC_PCN – first beneficial primary contact name
- TFC_PCV – first beneficial primary contact value
- TTC_ID – first 3rd party ID
- TTC_UID – first 3rd party UID
- TTC_SID – first 3rd party serial ID
- TTC_ADD1 – first 3rd party address line 1
- TTC_ADD2 – first 3rd party address line 2; or city/state/zip if address line 2 is empty
- TTC_ADD3 – first 3rd party city/state/zip; or empty if address line 2 is empty
- TTC_ADCS – first 3rd party city/state
- TTC_MAD1 – first 3rd party mailing address line 1
- TTC_MAD2 – first 3rd party mailing address line 2; or city/state/zip if address line 2 is empty
- TTC_MAD3 – first 3rd party mailing city/state/zip; or empty if address line 2 is empty
- TTC_MACS – first 3rd party mailing city/state
- TTC_PCN – first 3rd party primary contact name
- TTC_PCV – first 3rd party primary contact value
- TFB_NAME – first freight bill-to name
- TFB_ID – first freight bill-to ID
- TFB_UID – first freight bill-to UID
- TFB_SID – first freight bill-to serial ID
- TFB_ADD1 – first freight bill-to address line 1
- TFB_ADD2 – first freight bill-to address line 2; or city/state/zip if address line 2 is empty
- TFB_ADD3 – first freight bill-to city/state/zip; or empty if address line 2 is empty
- TFB_ADCS – first freight bill-to city/state
- TFB_MAD1 – first freight bill-to mailing address line 1
- TFB_MAD2 – first freight bill-to mailing address line 2; or city/state/zip if address line 2 is empty
- TFB_MAD3 – first freight bill-to mailing city/state/zip; or empty if address line 2 is empty
- TFB_MACS – first freight bill-to mailing city/state
- TFB_PCN – first freight bill-to primary contact name
- TFB_PCV – first freight bill-to primary contact value
- REC_MC – material count
- REC_HAC – hand-adds count
- REC_ARAT – application rate (unit/acre)

- REC_ARLB – application rate (pounds/acre)
- REC_ARTN – application rate (tons/acre)
- REC_ARNT – application rate (long tons/acre)
- REC_AROZ – application rate (ounces/acre)
- REC_ARKG – application rate (kilograms/acre)
- REC_ARMT – application rate (metric tons/acre)
- REC_ARGR – application rate (grams/acre)
- REC_ARGL – application rate (gallons/acre)
- REC_ARQT – application rate (quarts/acre)
- REC_ARPT – application rate (pints/acre)
- REC_ARFO – application rate (fluid ounces/acre)
- REC_ARCF – application rate (cubic feet/acre)
- REC_ARLT – application rate (liters/acre)
- REC_ARML – application rate (milliliters/acre)
- REC_ARCM – application rate (cubic meters/acre)
- TIK_ARAT – delivered application rate (unit/acre)
- TIK_ARLB – delivered application rate (pounds/acre)
- TIK_ARTN – delivered application rate (tons/acre)
- TIK_ARNT – delivered application rate (long tons/acre)
- TIK_AROZ – delivered application rate (ounces/acre)
- TIK_ARKG – delivered application rate (kilograms/acre)
- TIK_ARMT – delivered application rate (metric tons/acre)
- TIK_ARGR – delivered application rate (grams/acre)
- TIK_ARGL – delivered application rate (gallons/acre)
- TIK_ARQT – delivered application rate (quarts/acre)
- TIK_ARPT – delivered application rate (pints/acre)
- TIK_ARFO – delivered application rate (fluid ounces/acre)
- TIK_ARCF – delivered application rate (cubic feet/acre)
- TIK_ARLT – delivered application rate (liters/acre)
- TIK_ARML – delivered application rate (milliliters/acre)
- TIK_ARCM – delivered application rate (cubic meters/acre)
- REC_TAMT – total amount in specified units
- REC_TLBS – total pounds of material
- REC_TTON – total tons of material
- REC_TNTN – total long tons of material
- REC_TOZ – total ounces of material
- REC_TKG – total kilograms of material
- REC_TMTN – total metric tons of material
- REC_TGRA – total grams of material
- REC_TGAL – total gallons of material
- REC_TQT – total quarts of material
- REC_TPT – total pints of material
- REC_TFOZ – total fluid ounces of material

- REC_TCFT – total cubic feet of material
- REC_TLT – total liters of material
- REC_TMLT – total milliliters of material
- REC_TCMT – total cubic meters of material
- REC_DEN – total density
- REC_DENU – total density unit
- REC_LBGA – total density (pounds per gallon)
- REC_LBCF – total density (pounds per cubic foot)
- REC_TNGA – total density (tons per gallon)
- REC_TNCF – total density (tons per cubic foot)
- TIK_PC – total percentage of material delivered
- TIK_DBCN – delivered load count
- TIK_RAMT – remaining amount of material
- TIK_DAMT – delivered amount of material
- TIK_DLBS – delivered pounds of material
- TIK_DTON – delivered tons of material
- TIK_DNTN – delivered long tons of material
- TIK_DOZ – delivered ounces of material
- TIK_DKG – delivered kilograms of material
- TIK_DMTN – delivered metric tons of material
- TIK_DGRA – delivered grams of material
- TIK_DGAL – delivered gallons of material
- TIK_DQT – delivered quarts of material
- TIK_DPT – delivered pints of material
- TIK_DFOZ – delivered fluid ounces of material
- TIK_DCFT – delivered cubic feet of material
- TIK_DLT – delivered liters of material
- TIK_DMLT – delivered milliliters of material
- TIK_DCMT – delivered cubic meters of material
- TIK_IEXF – export failed flag
- TIK_IEXD – last exported date time
- TIK_HEXC – has exceptions
- TIK_EXCS – export exception summary
- TIK_NUSU – the guaranteed analysis breakdown into individual nutrients
 - NUS_FORM – formatted nutrient summary
 - NUS_AMT – nutrient percentage amount
- REC_MGC – total number of mix groups
- REC_VRT – is MMG/VRT flag
- TIK_FIMG – field image
- TIK_HAZT – whether this ticket has hazmat materials on it
- REC_MSUM – material summary
- REC_MSUL – material summary (pounds)
- REC_MSUT – material summary (tons)

- REC_MSUN – material summary (long tons)
- REC_MSUG – material summary (gallons)
- TIK_MDSM – delivered material summary
- TIK_MDSL – delivered material summary (pounds)
- TIK_MDST – delivered material summary (tons)
- TIK_MDSN – delivered material summary (long tons)
- TIK_MDSG – delivered material summary (gallons)
- TIK_MDSD – delivered material summary (each material’s default unit)
- TIK_MRAM – individual material requested amount
 - Must include a material ID as a first argument
 - May include a unit of measure as a second argument (uses the material’s default unit if not included)
 - Example: {TIK_MRAM:501AB|Tons}
- TIK_MDAM – individual material delivered amount
 - Must include a material ID as a first argument
 - May include a unit of measure as a second argument (uses the material’s default unit if not included)
 - Example: {TIK_MDAM:501AB|Pounds}

Recipe/Ticket Materials

- RMA_UNIT – units
- RMA_TAMT – total amount
- RMA_TTA – total amount in ticket’s unit
- RMA_TDU – total material in default units
- RMA_TLBS – total pounds of material
- RMA_TTON – total tons of material
- RMA_TNTN – total long tons of material
- RMA_TOZ – total ounces of material
- RMA_TKG – total kilograms of material
- RMA_TMTN – total metric tons of material
- RMA_TGRA – total grams of material
- RMA_TGAL – total gallons of material
- RMA_TQT – total quarts of material
- RMA_TPT – total pints of material
- RMA_TFOZ – total fluid ounces of material
- RMA_TCFT – total cubic feet of material
- RMA_TLT – total liters of material
- RMA_TMLT – total milliliters of material
- RMA_TCMT – total cubic meters of material
- TMA_DAMT – total delivered amount
- TMA_DTA – total delivered amount in ticket’s unit
- TMA_DDU – total delivered material in default units

- TMA_DLBS – total delivered pounds of material
- TMA_DTON – total delivered tons of material
- TMA_DNTN – total delivered long tons of material
- TMA_DOZ – total delivered ounces of material
- TMA_DKG – total delivered kilograms of material
- TMA_DMTN – total delivered metric tons of material
- TMA_DGRA – total delivered grams of material
- TMA_DGAL – total delivered gallons of material
- TMA_DQT – total delivered quarts of material
- TMA_DPT – total delivered pints of material
- TMA_DFOZ – total delivered fluid ounces of material
- TMA_DCFT – total delivered cubic feet of material
- TMA_DLT – total delivered liters of material
- TMA_DMLT – total delivered milliliters of material
- TMA_DCMT – total delivered cubic meters of material
- TMA_RAMT – total remaining amount
- TMA_RTA – total remaining amount in ticket's unit
- TMA_RDU – total remaining material in default units
- TMA_RLBS – total remaining pounds of material
- TMA_RTON – total remaining tons of material
- TMA_RNTN – total remaining long tons of material
- TMA_ROZ – total remaining ounces of material
- TMA_RKG – total remaining kilograms of material
- TMA_RMTN – total remaining metric tons of material
- TMA_RGRA – total remaining grams of material
- TMA_RGAL – total remaining gallons of material
- TMA_RQT – total remaining quarts of material
- TMA_RPT – total remaining pints of material
- TMA_RFOZ – total remaining fluid ounces of material
- TMA_RCFT – total remaining cubic feet of material
- TMA_RLT – total remaining liters of material
- TMA_RMLT – total remaining milliliters of material
- TMA_RCMT – total remaining cubic meters of material
- RMA_ARAT – application rate (unit/acre)
- RMA_ARDU – application rate (default unit/acre)
- RMA_ARLB – application rate (pounds/acre)
- RMA_ARTN – application rate (tons/acre)
- RMA_ARNT – application rate (long tons/acre)
- RMA_AROZ – application rate (ounces/acre)
- RMA_ARKG – application rate (kilograms/acre)
- RMA_ARMT – application rate (metric tons/acre)
- RMA_ARGR – application rate (grams/acre)
- RMA_ARGL – application rate (gallons/acre)

- RMA_ARQT – application rate (quarts/acre)
- RMA_ARPT – application rate (pints/acre)
- RMA_ARFO – application rate (fluid ounces/acre)
- RMA_ARCF – application rate (cubic feet/acre)
- RMA_ARLT – application rate (liters/acre)
- RMA_ARML – application rate (milliliters/acre)
- RMA_ARCM – application rate (cubic meters/acre)
- RMA_MG – mix group

Attributes

- ATT_TYPE – type
- ATT_VAL – value
- ATT_LIST – list index

Dispatches

- TDA-ID – dispatch ID
- TDA_STAT – dispatch status
- TDA_LID – load ID
- TBA-BARC – configurable barcode image
- TBA_STAT – load status
- TDA_EID – equipment ID
- TBA_EQNM – equipment's number
- TBA_EQUI – equipment's UID
- TBA_EQCO – equipment's company
- TBA_EQTL – equipment's tare weight in pounds (unladen weight)
- TDA_DID – driver ID
- TDA_CPID – consignee point ID
- TDA_SID – system ID
- TDA_COMM - comment
- SYS_NAME – system name
- TDA_RAMT – requested amount
- TDA_RUNT – Requested unit
- TDA_XAT – expected arrival time (XAT)
- TLC_NAME – consignee point name
- TLC_ID – consignee point ID
- TLC_UID – consignee point UID
- TLC_SID – consignee point serial ID
- TLC_ADD1 – consignee point address line 1
- TLC_ADD2 – consignee point address line 2; or city/state/zip if address line 2 is empty
- TLC_ADD3 – consignee point city/state/zip; or empty if address line 2 is empty
- TLC_ADCS – consignee point city/state
- TLC_MAD1 – consignee point mailing address line 1
- TLC_MAD2 – consignee point mailing address line 2; or city/state/zip if address line 2 is empty

- TLC_MAD3 – consignee point mailing city/state/zip; or empty if address line 2 is empty
- TLC_MACS – consignee point mailing city/state
- TLC_PCN – consignee point primary contact name
- TLC_PCV – consignee point primary contact value
- TBA_DRNA – driver name
- TBA_DRCO – driver company
- DRV_ID – driver ID
- DRV_UID – driver UID
- DRV_SID – driver serial ID
- DRV_ADD1 – driver address line 1
- DRV_ADD2 – driver address line 2; or city/state/zip if address line 2 is empty
- DRV_ADD3 – driver city/state/zip; or empty if address line 2 is empty
- DRV_ADCS – driver city/state
- DRV_MAD1 – driver mailing address line 1
- DRV_MAD2 – driver mailing address line 2; or city/state/zip if address line 2 is empty
- DRV_MAD3 – driver mailing city/state/zip; or empty if address line 2 is empty
- DRV_MACS – driver mailing city/state
- DRV_PCN – driver primary contact name
- DRV_PCV – driver primary contact value
-

Loads

- TBA_ID – load ID
- TBA_IDS – serial ID
- TBA_DID – dispatch ID
- TBA-BARC – configurable barcode image
- TBA_SAT – load status
- TBA_IDOP – originator prefix
- TBA_SBID – short load ID; without year digit and leading zeros
- TBA_NUM – the load number (**NOT** guaranteed to be unique in networked ControlPros!)
- TOR_ATTV – maps to a specific key value pair on the tickets originator
- BOR_ATTV – maps to a specific key value pair on the load's originator
- TBA_STAB – nitrogen stabilizer statement
- TBA_MSUM – summary of materials in this load in the ticket material units
- TBA_MSLB – summary of materials in this load in pounds
- TBA_MSTN – summary of materials in this load in tons
- TBA_MSNT – summary of materials in this load in long tons
- TBA_MSGA – summary of materials in this load in gallons
- TBA_FMSM – full summary of materials in this load (using TBA_MSUM)
- TBA_QAMT – total requested amount of material in the ticket's unit
- TBA_TAMT – total delivered amount of material in the ticket's unit
- TBA_RAMT – total remaining amount of material in the ticket's unit
- TBA_MDAM – individual material delivered amount

- Must include a material ID as a first argument
- May include a unit of measure as a second argument (uses the material's default unit if not included)
- Example: {TBA_MDAM:501AB|Pounds}
- TBA_TACR – total acres for this load
- TBA_ARAT – delivered application rate (unit/acre)
- TBA_ARLB – delivered application rate (pounds/acre)
- TBA_ARTN – delivered application rate (tons/acre)
- TBA_ARNT – delivered application rate (long tons/acre)
- TBA_AROZ – delivered application rate (ounces/acre)
- TBA_ARKG – delivered application rate (kilograms/acre)
- TBA_ARMT – delivered application rate (metric tons/acre)
- TBA_ARGR – delivered application rate (grams/acre)
- TBA_ARGL – delivered application rate (gallons/acre)
- TBA_ARQT – delivered application rate (quarts/acre)
- TBA_ARPT – delivered application rate (pints/acre)
- TBA_ARFO – delivered application rate (fluid ounces/acre)
- TBA_ARCF – delivered application rate (cubic feet/acre)
- TBA_ARLT – delivered application rate (liters/acre)
- TBA_ARML – delivered application rate (milliliters/acre)
- TBA_ARCM – delivered application rate (cubic meters/acre)
- TBA_TLBS – delivered amount of material in pounds
- TBA_TTON – delivered amount of material in tons
- TBA_TNTN – delivered amount of material in long tons
- TBA_TOZ – delivered ounces of material
- TBA_TKG – delivered kilograms of material
- TBA_TMTN – delivered metric tons of material
- TBA_TGRA – delivered grams of material
- TBA_TGAL – delivered gallons of material
- TBA_TQT – delivered quarts of material
- TBA_TPT – delivered pints of material
- TBA_TFOZ – delivered fluid ounces of material
- TBA_TCFT – delivered cubic feet of material
- TBA_TLT – delivered liters of material
- TBA_TMLT – delivered milliliters of material
- TBA_TCMT – delivered cubic meters of material
- TBA_GLBS – delivered gross pounds
- TBA_GTON – delivered gross tons
- TBA_GNTN – delivered gross long tons
- TBA_DELD – delivery date
- TBA_SYNM – delivered system name
- TBA_SCNM – delivered scale name
- TBA_DRNA – load driver's name

- TBA_DRCO – load driver’s company
- TBA_DRSG – load driver’s signature
- DRV_ID – driver ID
- DRV_UID – driver UID
- DRV_SID – driver serial ID
- TBA_SIM – was the load simulated
- DRV_ADD1 – driver address line 1
- DRV_ADD2 – driver address line 2; or city/state/zip if address line 2 is empty
- DRV_ADD3 – driver city/state/zip; or empty if address line 2 is empty
- DRV_ADCS – driver city/state
- DRV_MAD1 – driver mailing address line 1
- DRV_MAD2 – driver mailing address line 2; or city/state/zip if address line 2 is empty
- DRV_MAD3 – driver mailing city/state/zip; or empty if address line 2 is empty
- DRV_MACS – driver mailing city/state
- TBA_EQNM – load equipment’s number
- TBA_EQUI – load equipment’s UID
- TBA_EQCO – load equipment’s company
- TBA_EQTL – load equipment’s tare weight in pounds (unladen weight)
- TBA_EQGL – load equipment’s gross weight in pounds (laden weight)
- TBA_MANC – was the load’s tare, net, or gross weight manually captured
- TBA_PRUN – the NTEP precision unit of the delivered amount
- TBA_PREC – the NTEP precision of the delivered amount
- TLC_NAME – first consignee point name
- TLC_ID – first consignee point ID
- TLC_UID – first consignee point UID
- TLC_SID – first consignee point serial ID
- TLC_ADD1 – first consignee point address line 1
- TLC_ADD2 – first consignee point address line 2; or city/state/zip if address line 2 is empty
- TLC_ADD3 – first consignee point city/state/zip; or empty if address line 2 is empty
- TLC_ADCS – first consignee point city/state
- TLC_MAD1 – first consignee point mailing address line 1
- TLC_MAD2 – first consignee point mailing address line 2; or city/state/zip if address line 2 is empty
- TLC_MAD3 – first consignee point mailing city/state/zip; or empty if address line 2 is empty
- TLC_MACS – first consignee point mailing city/state

Load Materials

- Filters:
 - CARR – only carriers
 - CHEM – only chemicals
 - HAZMAT – only hazmat materials
 - AMAT – only actual materials (not PLC variable or billing only)
- TBM_RQAM – amount of requested material in the ticket material's unit

- TBM_QRA – amount of requested material in the ticket’s unit
- TBM_TMAM – amount of delivered material in the ticket material's unit
- TBM_REAM – amount of remaining material in the ticket material's unit
- TBM_LBGA – the density (pounds/gallon) of the material at time of delivery
- TBM_TMUN – unit of measure the material is delivered in
- TBM_TTA – amount of material in the ticket's unit
- TBM_TDU – amount of material in default unit
- TBM_TLBS – amount of material in pounds
- TBM_INGD – flag for if the actual aggregate was delivered
- TBM_HAD – flag for if the material was delivered as a hand-add
- TBM_TTON – amount of material in tons
- TBM_TNTN – amount of material in long tons
- TBM_TOZ – amount of material in ounces
- TBM_TKG – amount of material in kilograms
- TBM_TMTN – amount of material in metric tons
- TBM_TGRA – amount of material in prams
- TBM_TGAL – amount of material in gallons
- TBM_TQT – amount of material in quarts
- TBM_TPT – amount of material in pints
- TBM_TFOZ – amount of material in fluid ounces
- TBM_TCFT – amount of material in cubic feet
- TBM_TLT – amount of material in liters
- TBM_TMLT – amount of material in milliliters
- TBM_TCMT – amount of material in cubic meters
- TBM_ARAT – delivered application rate (unit/acre)
- TBM_ARDU – delivered application rate (default unit/acre)
- TBM_ARLB – delivered application rate (pounds/acre)
- TBM_ARTN – delivered application rate (tons/acre)
- TBM_ARNT – delivered application rate (long tons/acre)
- TBM_AROZ – delivered application rate (ounces/acre)
- TBM_ARKG – delivered application rate (kilograms/acre)
- TBM_ARMT – delivered application rate (metric tons/acre)
- TBM_ARGR – delivered application rate (grams/acre)
- TBM_ARGL – delivered application rate (gallons/acre)
- TBM_ARQT – delivered application rate (quarts/acre)
- TBM_ARPT – delivered application rate (pints/acre)
- TBM_ARFO – delivered application rate (fluid ounces/acre)
- TBM_ARCF – delivered application rate (cubic feet/acre)
- TBM_ARLT – delivered application rate (liters/acre)
- TBM_ARML – delivered application rate (milliliters/acre)
- TBM_ARCM – delivered application rate (cubic meters/acre)
- TBM_PRUN – the NTEP precision unit of the delivered amount
- TBM_PREC – the NTEP precision of the delivered amount

- TBM_ISUM – ingredient summary with percentages

Materials

- MAT_ID – material ID
- MAT_IDS – serial ID
- MAT_IDOP – originator prefix
- MAT_DESC – description
- MAT_UNIT – default unit
- MAT_LBGA – pounds per gallon
- MAT_DEN – density
- MAT_DENU – density unit
- MAT_TYPE – type
- MAT_DISP – dispensed as
- MAT_USED – is used flag
- MAT_CARR – carrier flag
- MAT_CHEM – is chemical flag
- MAT_HZMT – is hazmat flag
- MAT_HAND – is hand-add
- MAT_BILL – is billing only
- MAT_STAB – is nitrogen stabilizer
- MAT_ALID – alias for ID
- MAT_TCS – total current amount
- MAT_TAA – total available amount
- MAT_TSAA – total sensor available amount
- MAT_TTAA – total transaction available amount

Material Usage (reporting-only)

- MAT_DLBG – the density (pounds/gallon) of the material at time of delivery (split out by load only)
- MAT_TCN – ticket count
- MAT_LCN – load count
- MAT_CAA – cached available amount
- MAT_RLMT – requested load amount (in default units)
- MAT_RLLBS – requested load pounds
- MAT_RLTN – requested load tons
- MAT_RLNTN – requested load long tons
- MAT_RLOZ – requested load ounces
- MAT_RLKG – requested load kilograms
- MAT_RLMTN – requested load metric tons
- MAT_RLGR – requested load grams
- MAT_RLGAL – requested load gallons
- MAT_RLQT – requested load quarts
- MAT_RLPT – requested load pints

- MAT_RLFOZ – requested load fluid ounces
- MAT_RLQF – requested load cubic feet
- MAT_RLLT – requested load liters
- MAT_RLMLT – requested load milliliters
- MAT_RLQM – requested load cubic meters
- MAT_DAMT – delivered load amount (in default units)
- MAT_DLBS – delivered load pounds
- MAT_DTN – delivered load tons
- MAT_DNTN – delivered load long tons
- MAT_DOZ – delivered load ounces
- MAT_DKG – delivered load kilograms
- MAT_DMTN – delivered load metric tons
- MAT_DGR – delivered load grams
- MAT_DGAL – delivered load gallons
- MAT_DQT – delivered load quarts
- MAT_DPT – delivered load pints
- MAT_DFOZ – delivered load fluid ounces
- MAT_DQF – delivered load cubic feet
- MAT_DLT – delivered load liters
- MAT_DMLT – delivered load milliliters
- MAT_DQM – delivered load cubic meters
- MAT_ELAMT – remaining load amount (in default units)
- MAT_ELLBS – remaining load pounds
- MAT_ELTN – remaining load tons
- MAT_ELNTN – remaining load long tons
- MAT_ELOZ – remaining load ounces
- MAT_ELKG – remaining load kilograms
- MAT_ELMTN – remaining load metric tons
- MAT_ELGR – remaining load grams
- MAT_EL GAL – remaining load gallons
- MAT_ELQT – remaining load quarts
- MAT_ELPT – remaining load pints
- MAT_ELFOZ – remaining load fluid ounces
- MAT_ELQF – remaining load cubic feet
- MAT_ELLT – remaining load liters
- MAT_ELMLT – remaining load milliliters
- MAT_ELQM – remaining load cubic meters
- MAT_RTAMT – requested ticket amount (in default units)
- MAT_RTLBS – requested ticket pounds
- MAT_RTTN – requested ticket tons
- MAT_RTNTN – requested ticket long tons
- MAT_RTOZ – requested ticket ounces
- MAT_RTKG – requested ticket kilograms

- MAT_RTMTN – requested ticket metric tons
- MAT_RTGR – requested ticket grams
- MAT_RTGAL – requested ticket gallons
- MAT_RTQT – requested ticket quarts
- MAT_RTPT – requested ticket pints
- MAT_RTFOZ – requested ticket fluid ounces
- MAT_RTQF – requested ticket cubic feet
- MAT_RTLT – requested ticket liters
- MAT_RTMLT – requested ticket milliliters
- MAT_RTQM – requested ticket cubic meters
- MAT_DTAMT – delivered ticket amount (in default units)
- MAT_DTLBS – delivered ticket pounds
- MAT_DTTN – delivered ticket tons
- MAT_DTNTN – delivered ticket long tons
- MAT DTOZ – delivered ticket ounces
- MAT_DTKG – delivered ticket kilograms
- MAT_DTMTN – delivered ticket metric tons
- MAT_DTGR – delivered ticket grams
- MAT_DTGAL – delivered ticket gallons
- MAT_DTQT – delivered ticket quarts
- MAT_DTPT – delivered ticket pints
- MAT_DTFOZ – delivered ticket fluid ounces
- MAT_DTQF – delivered ticket cubic feet
- MAT_DTLT – delivered ticket liters
- MAT_DTMLT – delivered ticket milliliters
- MAT_DTQM – delivered ticket cubic meters
- MAT_ETAMT – remaining ticket amount (in default units)
- MAT_ETLBS – remaining ticket pounds
- MAT_ETTN – remaining ticket tons
- MAT_ETNTN – remaining ticket long tons
- MAT_ETOZ – remaining ticket ounces
- MAT_ETKG – remaining ticket kilograms
- MAT_ETMTN – remaining ticket metric tons
- MAT_ETGR – remaining ticket grams
- MAT_ETGAL – remaining ticket gallons
- MAT_ETQT – remaining ticket quarts
- MAT_ETPT – remaining ticket pints
- MAT_ETFOZ – remaining ticket fluid ounces
- MAT_ETQF – remaining ticket cubic feet
- MAT_ETLT – remaining ticket liters
- MAT_ETMLT – remaining ticket milliliters
- MAT_ETQM – remaining ticket cubic meters

Material Stores

- MSR_ID – store ID
- MSR_DESC – description
- MSR_TYPE – type
- MSR_CUAM – current amount
- MSR_RAMT – reserve amount
- MSR_WAMT – warning amount
- MSR_AVAM – available amount
- MSR_CAAM – cached available amount
- MSR_USET – uses transactions
- MSR_PRMT – transaction are primary
- MSR_CTAM – current transaction amount
- MSR_TAM – total transaction amount (default unit)
- MSR_ALBS – archive pounds
- MSR_AGAL – archive gallons
- MSR_AAM – archive amount (default units)
- MSR_ADAT – archive date
- MSR_USES – uses scanner
- MSR_SCEN – scanner enabled (in this instance)
- MSR_PRMS – scanner is primary
- MSR_CSAM – current scanner amount
- MSR SCIP – scanner address
- MSR_NODI – scanner node index
- MSR_STYP – sensor type
- MSR_LHTM – uses Legacy HTML sensor type
- MSR_MTCP – uses Modbus TCP sensor type
- MSR_AAPI – uses Agnex API sensor type
- MSR_CAPA – scanned tank capacity
- MSR_COVF – scanner conversion factor (units/inch)
- MSR_CALB – current amount (MSR_CUAM) to pounds
- MSR_CATO – current amount (MSR_CUAM) to tons
- MSR_CALT – current amount (MSR_CUAM) to long tons
- MSR_CAOZ – current amount (MSR_CUAM) to ounces
- MSR_CAKG – current amount (MSR_CUAM) to kilograms
- MSR_CAMT – current amount (MSR_CUAM) to metric tons
- MSR_CAGR – current amount (MSR_CUAM) to grams
- MSR_CAGA – current amount (MSR_CUAM) to gallons
- MSR_CAQU – current amount (MSR_CUAM) to quarts
- MSR_CAPI – current amount (MSR_CUAM) to pints
- MSR_CAFO – current amount (MSR_CUAM) to fluid ounces
- MSR_CACF – current amount (MSR_CUAM) to cubic feet
- MSR_CALI – current amount (MSR_CUAM) to liters
- MSR_CAML – current amount (MSR_CUAM) to milliliters

- MSR_CACM – current amount (MSR_CUAM) to cubic meters
- MSR_AALB – available amount (MSR_CUAM) to pounds
- MSR_AATO – available amount (MSR_CUAM) to tons
- MSR_AALT – available amount (MSR_CUAM) to long tons
- MSR_AAOZ – available amount (MSR_CUAM) to ounces
- MSR_AAKG – available amount (MSR_CUAM) to kilograms
- MSR_AAMT – available amount (MSR_CUAM) to metric tons
- MSR_AAGR – available amount (MSR_CUAM) to grams
- MSR_AAGA – available amount (MSR_CUAM) to gallons
- MSR_AAQU – available amount (MSR_CUAM) to quarts
- MSR_AAPI – available amount (MSR_CUAM) to pints
- MSR_AAFO – available amount (MSR_CUAM) to fluid ounces
- MSR_AACF – available amount (MSR_CUAM) to cubic feet
- MSR_AALI – available amount (MSR_CUAM) to liters
- MSR_AAML – available amount (MSR_CUAM) to milliliters
- MSR_AACM – available amount (MSR_CUAM) to cubic meters
- MSR_HALB – cached available amount (MSR_CUAM) to pounds
- MSR_HATO – cached available amount (MSR_CUAM) to tons
- MSR_HALT – cached available amount (MSR_CUAM) to long tons
- MSR_HAOZ – cached available amount (MSR_CUAM) to ounces
- MSR_HAKG – cached available amount (MSR_CUAM) to kilograms
- MSR_HAMT – cached available amount (MSR_CUAM) to metric tons
- MSR_HAGR – cached available amount (MSR_CUAM) to grams
- MSR_HAGA – cached available amount (MSR_CUAM) to gallons
- MSR_HAQU – cached available amount (MSR_CUAM) to quarts
- MSR_HAPI – cached available amount (MSR_CUAM) to pints
- MSR_HAFO – cached available amount (MSR_CUAM) to fluid ounces
- MSR_HACF – cached available amount (MSR_CUAM) to cubic feet
- MSR_HALI – cached available amount (MSR_CUAM) to liters
- MSR_HAML – cached available amount (MSR_CUAM) to milliliters
- MSR_HACM – cached available amount (MSR_CUAM) to cubic meters
- MSR_CTLB – current transaction amount (MSR_CUAM) to pounds
- MSR_CTTO – current transaction amount (MSR_CUAM) to tons
- MSR_CTLT – current transaction amount (MSR_CUAM) to long tons
- MSR_CTOZ – current transaction amount (MSR_CUAM) to ounces
- MSR_CTKG – current transaction amount (MSR_CUAM) to kilograms
- MSR_CTMT – current transaction amount (MSR_CUAM) to metric tons
- MSR_CTGR – current transaction amount (MSR_CUAM) to grams
- MSR_CTGA – current transaction amount (MSR_CUAM) to gallons
- MSR_CTQU – current transaction amount (MSR_CUAM) to quarts
- MSR_CTPI – current transaction amount (MSR_CUAM) to pints
- MSR_CTFO – current transaction amount (MSR_CUAM) to fluid ounces
- MSR_CTCF – current transaction amount (MSR_CUAM) to cubic feet

- MSR_CTLI – current transaction amount (MSR_CUAM) to liters
- MSR_CTML – current transaction amount (MSR_CUAM) to milliliters
- MSR_CTCM – current transaction amount (MSR_CUAM) to cubic meters
- MSR_TTLB – total transaction amount (MSR_CUAM) to pounds
- MSR_TTTO – total transaction amount (MSR_CUAM) to tons
- MSR_TTLT – total transaction amount (MSR_CUAM) to long tons
- MSR_TTOZ – total transaction amount (MSR_CUAM) to ounces
- MSR_TTKG – total transaction amount (MSR_CUAM) to kilograms
- MSR_TTMT – total transaction amount (MSR_CUAM) to metric tons
- MSR_TTGR – total transaction amount (MSR_CUAM) to grams
- MSR_TTGA – total transaction amount (MSR_CUAM) to gallons
- MSR_TTQU – total transaction amount (MSR_CUAM) to quarts
- MSR_TTPI – total transaction amount (MSR_CUAM) to pints
- MSR_TTFO – total transaction amount (MSR_CUAM) to fluid ounces
- MSR_TTCF – total transaction amount (MSR_CUAM) to cubic feet
- MSR_TTLI – total transaction amount (MSR_CUAM) to liters
- MSR_TTML – total transaction amount (MSR_CUAM) to milliliters
- MSR_TTCM – total transaction amount (MSR_CUAM) to cubic meters
-

Material Store Transactions

- MST_ID – transaction ID
- MST_DATE – date
- MST_TYPE – type
- MST_DESC – description
- MST_TID – ticket ID
- MST_BID – load ID
- MST_AMT – amount
- MST_UNIT – unit of measure
- MST_LBGA – density (pounds/gallon)
- MST_STAM – store amount (in store's unit)
- MST_RTAM – running total amount (Balance)
- MST_SUMM – summary [Ticket ID-Load ID (Description)]
- MST_LBS – converts unit of measure to pounds
- MST_T – converts unit of measure to tons
- MST_LT – converts unit of measure to long tons
- MST_OZ – converts unit of measure to ounces
- MST_KG – converts unit of measure to kilograms
- MST_MT – converts unit of measure to metric tons
- MST_G – converts unit of measure to grams
- MST_GAL – converts unit of measure to gallons
- MST_QT – converts unit of measure to quarts
- MST_PT – converts unit of measure to pints

- MST_FLOZ – converts unit of measure to fluid ounces
- MST_CF – converts unit of measure to cubic feet
- MST_L – converts unit of measure to liters
- MST_ML – converts unit of measure to milliliters
- MST_CBM – converts unit of measure to cubic meters
- MST_DYLB – amount of delivery transactions (pounds)
- MST_DYTO – amount of delivery transactions (tons)
- MST_DYLT – amount of delivery transactions (long tons)
- MST_DYOZ – amount of delivery transactions (ounces)
- MST_DYKG – amount of delivery transactions (kilograms)
- MST_DYMT – amount of delivery transactions (metric tons)
- MST_DYGR – amount of delivery transactions (grams)
- MST_DYGA – amount of delivery transactions (gallons)
- MST_DYQU – amount of delivery transactions (quarts)
- MST_DYPI – amount of delivery transactions (Pints)
- MST_DYFO – amount of delivery transactions (Fluid Ounces)
- MST_DYCF – amount of delivery transactions (Cubic Feet)
- MST_DYLI – amount of delivery transactions (liters)
- MST_DYML – amount of delivery transactions (milliliters)
- MST_DYCM – amount of delivery transactions (cubic meters)
- MST_DTLB – amount of deposit transactions (pounds)
- MST_DTTO – amount of deposit transactions (tons)
- MST_DTLT – amount of deposit transactions (long tons)
- MST_DTOZ – amount of deposit transactions (ounces)
- MST_DTKG – amount of deposit transactions (kilograms)
- MST_DTMT – amount of deposit transactions (metric tons)
- MST_DTGR – amount of deposit transactions (grams)
- MST_DTGA – amount of deposit transactions (gallons)
- MST_DTQU – amount of deposit transactions (quarts)
- MST_DTPI – amount of deposit transactions (Pints)
- MST_DTFO – amount of deposit transactions (Fluid Ounces)
- MST_DTCF – amount of deposit transactions (Cubic Feet)
- MST_DTLI – amount of deposit transactions (liters)
- MST_DTML – amount of deposit transactions (milliliters)
- MST_DTCM – amount of deposit transactions (cubic meters)
- MST_CNLB – amount of correction transactions (pounds)
- MST_CNTO – amount of correction transactions (tons)
- MST_CNLT – amount of correction transactions (long tons)
- MST_CNOZ – amount of correction transactions (ounces)
- MST_CNKG – amount of correction transactions (kilograms)
- MST_CNMT – amount of correction transactions (metric tons)
- MST_CNGR – amount of correction transactions (grams)
- MST_CNGB – amount of correction transactions (gallons)

- MST_CNQU – amount of correction transactions (quarts)
- MST_CNPI – amount of correction transactions (Pints)
- MST_CNFO – amount of correction transactions (Fluid Ounces)
- MST_CNCF – amount of correction transactions (Cubic Feet)
- MST_CNLI – amount of correction transactions (liters)
- MST_CNML – amount of correction transactions (milliliters)
- MST_CNCM – amount of correction transactions (cubic meters)
- MST_TNLP – amount of transfer transactions (pounds)
- MST_TNTO – amount of transfer transactions (tons)
- MST_TNLT – amount of transfer transactions (long tons)
- MST_TNOZ – amount of transfer transactions (ounces)
- MST_TNKG – amount of transfer transactions (kilograms)
- MST_TNMT – amount of transfer transactions (metric tons)
- MST_TNGR – amount of transfer transactions (grams)
- MST_TNGA – amount of transfer transactions (gallons)
- MST_TNQU – amount of transfer transactions (quarts)
- MST_TNPI – amount of transfer transactions (Pints)
- MST_TNFO – amount of transfer transactions (Fluid Ounces)
- MST_TNCF – amount of transfer transactions (Cubic Feet)
- MST_TNLI – amount of transfer transactions (liters)
- MST_TNML – amount of transfer transactions (milliliters)
- MST_TNCM – amount of transfer transactions (cubic meters)
- MST_DDLB – amount of demo delivery transactions (pounds)
- MST_DDTO – amount of demo delivery transactions (tons)
- MST_DDLT – amount of demo delivery transactions (long tons)
- MST_DDOZ – amount of demo delivery transactions (ounces)
- MST_DDKG – amount of demo delivery transactions (kilograms)
- MST_DDMT – amount of demo delivery transactions (metric tons)
- MST_DDGR – amount of demo delivery transactions (grams)
- MST_DDGA – amount of demo delivery transactions (gallons)
- MST_DDQU – amount of demo delivery transactions (quarts)
- MST_DDPI – amount of demo delivery transactions (Pints)
- MST_DDFO – amount of demo delivery transactions (Fluid Ounces)
- MST_DDCF – amount of demo delivery transactions (Cubic Feet)
- MST_DDLI – amount of demo delivery transactions (liters)
- MST_DDML – amount of demo delivery transactions (milliliters)
- MST_DDCM – amount of demo delivery transactions (cubic meters)
- MST_DCLB – amount of demo correction transactions (pounds)
- MST_DCTO – amount of demo correction transactions (tons)
- MST_DCLT – amount of demo correction transactions (long tons)
- MST_DCOZ – amount of demo correction transactions (ounces)
- MST_DCKG – amount of demo correction transactions (kilograms)
- MST_DCMT – amount of demo correction transactions (metric tons)

- MST_DCGR – amount of demo correction transactions (grams)
- MST_DCGA – amount of demo correction transactions (gallons)
- MST_DCQU – amount of demo correction transactions (quarts)
- MST_DCPI – amount of demo correction transactions (Pints)
- MST_DCFO – amount of demo correction transactions (Fluid Ounces)
- MST_DCCF – amount of demo correction transactions (Cubic Feet)
- MST_DCLI – amount of demo correction transactions (liters)
- MST_DCML – amount of demo correction transactions (milliliters)
- MST_DCCM – amount of demo correction transactions (cubic meters)
- MST_ADLB – amount of aborted transactions (pounds)
- MST_ADTO – amount of aborted transactions (tons)
- MST_ADLT – amount of aborted transactions (long tons)
- MST_ADOZ – amount of aborted transactions (ounces)
- MST_ADKG – amount of aborted transactions (kilograms)
- MST_ADMT – amount of aborted transactions (metric tons)
- MST_ADGR – amount of aborted transactions (grams)
- MST_ADGA – amount of aborted transactions (gallons)
- MST_ADQU – amount of aborted transactions (quarts)
- MST_ADPI – amount of aborted transactions (Pints)
- MST_ADFO – amount of aborted transactions (Fluid Ounces)
- MST_ADCF – amount of aborted transactions (Cubic Feet)
- MST_ADLI – amount of aborted transactions (liters)
- MST_ADML – amount of aborted transactions (milliliters)
- MST_ADCM – amount of aborted transactions (cubic meters)
- MST_DALB – amount of demo aborted transactions (pounds)
- MST_DATO – amount of demo aborted transactions (tons)
- MST_DALT – amount of demo aborted transactions (long tons)
- MST_DAOZ – amount of demo aborted transactions (ounces)
- MST_DAKG – amount of demo aborted transactions (kilograms)
- MST_DAMT – amount of demo aborted transactions (metric tons)
- MST_DAGR – amount of demo aborted transactions (grams)
- MST_DAGA – amount of demo aborted transactions (gallons)
- MST_DAGU – amount of demo aborted transactions (quarts)
- MST_DAPI – amount of demo aborted transactions (Pints)
- MST_DAFU – amount of demo aborted transactions (Fluid Ounces)
- MST_DACF – amount of demo aborted transactions (Cubic Feet)
- MST_DALI – amount of demo aborted transactions (liters)
- MST_DAML – amount of demo aborted transactions (milliliters)
- MST_DACM – amount of demo aborted transactions (cubic meters)

Formulas

- FRM_ID – formula ID

Parties

- PAR_ID – party ID
- PAR_IDS – serial ID
- PAR_IDOP – originator prefix
- PAR_SEID – unattended ID
- PAR_NAME – name
- PAR_CONA – company name
- PAR_TYPE – the type of party
- PAR_OCS – address (city state) (operational)
- PAR_OCSZ – address (city state, ZIP) (operational)
- PAR_MCS – address (city state) (mailing)
- PAR_MCSZ – address (city state, ZIP) (mailing)
- PAR_SIG – driver signature
- PAR_USED – whether this party is used or not

Equipment

- EQU_ID – equipment ID
- EQU_IDS – serial ID
- EQU_IDOP – originator prefix
- EQU_SEID – unattended ID
- EQU_NUMB – number
- EQU_CONA – company name
- EQU_WTUN – weight unit
- EQU_EMWT – empty weight
- EQU_EMLB – empty weight in pounds
- EQU_TAWT – tare weight
- EQU_TWLB – tare weight in pounds
- EQU_CNTY – container type
- EQU_WCA – weight capacity
- EQU_WCAU – weight capacity unit of measure
- EQU_VCA – volume capacity
- EQU_VCAU – volume capacity unit of measure
- EQU_PART – has partitions/compartments
- EQU_USED – whether this equipment is used or not
- EQU_LTID – last ticket ID
- EQU_LTDE – last ticket description
- EQU_CLEA – has the equipment been cleaned

Profiles

- PRO_ID – profile ID
- PRO_DESC – description
- PRO_USED – is used
- PRO_CAHB – (batch-level) carrier holdback

- PRO_CAMU – carrier make up
- PRO_TMPU – temperature unit
- PRO_SC – sequence count
- PRO_HASQ – hand-add sequence
- PRO_MC – material count
- PRO_MSUM – material summary
- PRO_FMSM – full material summary
- PRO_VC – vessel count

Profile Sequences

- PSQ_SEQ – sequence
- PSQ_CAHB – (sequence-level) carrier hold back
- PSQ_VESS – vessel
- PSQ_HAPR – hand-adds present
- PSQ_WHTP – wait hi temp
- PSQ_WLTP – wait low temp
- PSQ_WHPH – wait high pH
- PSQ_WLPH – wait low pH
- PSQ_EVES – empty vessel
- PSQ_DVES – delay vessel
- PSQ_DSEQ – delay sequence
- PSQ_SUM – summary

Profile Materials

- PMA_VESS – vessel
- PMA_SEQ – sequence
- PMA_PAMT – percent amount
- PMA_DTM – delay time
- PMA_DAMT – delay amount (pounds)
- PMA_DHTP – delay high temp
- PMA_DLTP – delay low temp
- PMA_DHPH – delay hi pH
- PMA_DLPH – delay low pH
- PMA_WAIT – wait for completion
- MPA_DPH – delay Ph

Reports

- RPT_SUM – summarizes a numeric value on the line items
- RPT_CNT – the number of line items