

REPLENISHMENT ®

Version 4.11.0

CSV Interface



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CHARACTER SEPERATED VALUE FILE SPECIFICATION

While there are no true “column types” in the CSV specification the Type column is included to show allowable characters. Be sure to properly escape values which may contain delimiters and text qualifiers. For example, if one of your record values contains your delimiter character, you are required to escape that value. For more information, please reference [IETF RFC 4180](#).

Note: Future versions of Replenishment+ may add or reorder columns.

Text – Full range of numbers, letters and symbols.

Integer – Any whole number with no decimal places. Culture-specific digit groupings are optional.

Decimal – Any real number with optional minus, decimal and optional digit grouping characters. When the length is specified in the specification below, the format **{maxDigits}.{decimalDigits}** will be used. For example, “3.2” would mean a maximum up 3 digits with 2 digits after the decimal. (#.##)

Date – The culture-specific representation of Day, Month and Year.

Boolean¹ – True (1) or False (0)

TEMPLATES

Empty CSV’s or Templates can be exported via the Replenishment+® UI from the Data -> Export menu. Users must be in the Data Exporter Role to access the menu item. Contact your system administrator to be placed in that role if you are not.

UTF-8 ENCODING

UTF-8 (UCS Transformation Format—8-bit) is a variable-width encoding that can represent every character in the Unicode character set. It was designed for backward compatibility with ASCII and to avoid the complications of endianness and byte order marks in UTF-16 and UTF-32. To be correctly recognized by R+, CSV files must be UFT-8 encoded and contain the UTF-8 header byte order mark. File may be examined with a text editor like NotePad++ to determine the encoding scheme used and, optionally, to change it.

¹ Boolean – The values “Y”, “Yes”, “N”, and “No” may be used for backwards compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

FILE FORMATS

For each of the data sets below, the column names in **BOLD** are compound unique keys.

BUFFER PROFILE

ColumnName	Type	Max Length	Required	Values
Description	text	250	No	
RedZoneBase	integer		Yes	0 to 1000
RedOrderCycle	decimal	18.5	Yes	0 to 365
RedSafetyZone	integer		Yes	0 to 1000
YellowZoneBase	integer		Yes	0 to 1000
YellowOrderCycle	decimal	18.5	Yes	0 to 100
GreenZoneBase	integer		Yes	0 to 1000
GreenOrderCycle	decimal	18.5	Yes	0 to 100
GreenCalcMode	integer		Yes	0 = OrderCycle 1 = MoQ 2 = UseOverLeadTime
InventoryAlertLevel	integer		Yes	0 to 100
OrderSpikeAlertLevel	integer		No	0 to 100 (defaults to 0)
OrderSpikeHorizon	decimal	4.2	No	0 to 5 (defaults to 0)
Name	text	50	Yes	Cannot be one of the reserved Inventory Method names: "NB", "Replenished", "MM", "RO", "LTM"
Location	text	32	No	
ProfileType	integer		No	0 = Custom 1 = Auto

PLANNED ADJUSTMENT FACTOR

ColumnName	Type	Max Length	Required	Values
Description	text	250	No	
Jan	integer		Yes	0 to 500
Feb	integer		Yes	0 to 500
Mar	integer		Yes	0 to 500
Apr	integer		Yes	0 to 500
May	integer		Yes	0 to 500
Jun	integer		Yes	0 to 500
Jul	integer		Yes	0 to 500
Aug	integer		Yes	0 to 500
Sep	integer		Yes	0 to 500
Oct	integer		Yes	0 to 500
Nov	integer		Yes	0 to 500
Dec	integer		Yes	0 to 500
Name	text	50	Yes	
Location	text	32	No	

PARTS

Column Name	Type	Max Length	Required	Values
PartNumber	text	50	Yes	The combination of PartNumber, Revision, and Location must be unique.
Revision	text	10	No	
Location	text	32	No	
Description	text		No	
UnitOfMeasure	text	20	No	
PartType ²	integer		Yes	1 = Buy 2 = Make 3 = Distributed
InventoryPlanning	text	10	No	Valid Buffer Profile from the Buffer Profile record for the matching Location. RO = Replenish Override MM = Min/Max NB = Non-Buffered LTM = Lead Time Managed
FixedLeadTime	integer		No	0 to 1095
GoodsReceiptTime	integer		No	0 to 1095
AverageDailyUsage	decimal	18.5	No	>= 0
ForecastedDailyUsage	decimal	18.5	No	(This imported value will be used over a calculated version based on global setting)
OrderCycle	integer		No	>= 0
OrderMinimumQty	decimal	18.5	No	>= 0
OrderMaximumQty	decimal	18.5	No	>= 0 (and if > 0, must be >= OrderMinimumQty)
OrderMultipleQty	decimal	18.5	No	>= 0 (and, if > 0 and OrderMinimumQty is > 0 and are not evenly divisible, then OrderMultipleQty will be set to 0)
CycleDayAdjustmentFactors	text	1024	No	If specified for Replenished, RO or MM must match the Name and Location of a CycleDayAdjustmentFactor record. Multiple values can be entered, separated by comma.
PlannedAdjustmentFactor	text	50	No	If specified for Replenished, RO or MM must match the Name and Location of a

² Part Type – “M” or “m” and “B” or “B” may be used for backward compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

				PlannedAdjustmentFactor record.
PlannerCode	text	25	No	
PlanningCalendar	Text	50	No	If specified, the Planning Calendar Name must match one of the Planning Calendars.
MaterialType	text	50	No	
RawMaterialsCost	decimal	18.5	No	>= 0
OutSourceCost	decimal	18.5	No	>= 0
Vendor	text	100	No	
VendorIdentifier	text	100	No	
UserDefined1	text	400	No	
UserDefined2	text	400	No	
UserDefined3	text	400	No	
UserDefined4	text	400	No	
UserDefined5	text	400	No	
UserDefined6	text	400	No	
UserDefined7	text	400	No	
UserDefined8	text	400	No	
DecoupledLeadTime	boolean		No	
DailyUsageType	Text	10	No	0 or ADU = AverageDailyUsage 1 or FDU = ForecastedDailyUsage 2 or Blend = Blended Daily Usage
Notes	text		No	
AlertHorizon	integer		No	1 to 5 (defaults to 1)
AutoApproveRecommendedOrders	bool		No	
UserDefined9	text	400	No	
UserDefined10	text	400	No	
UserDefined11	text	400	No	
UserDefined12	text	400	No	
UserDefined13	text	400	No	
UserDefined14	text	400	No	
UserDefined15	text	400	No	
UserDefined16	text	400	No	
DisableAutoProfile	bool		No	

BILL OF MATERIAL

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
ChildPartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
ChildRevision	text	10	No	
ChildLocation	text	20	No	
Quantity	decimal	18.5	Yes	> 0

PART BUFFER SIZING

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
TopOfGreen	decimal	18.5	Yes	>= 0
TopOfYellow	decimal	18.5	No	>= 0 (defaults to 0)
TopOfRed	decimal	18.5	No	>= 0 (defaults to 0)

PART INVENTORY

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
OnHandInventory	decimal	18.5	Yes	>= 0
IssuedInventory	decimal	18.5	No	>= 0 (defaults to 0)
Date	date		No	

DEMAND ORDER

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
LineItem	text	50	No	
DemandType ³	integer		Yes	0 or SO = Sales Order 1 or WO = Work Order 2 or TO = Transfer Order
OrderDate	date		Yes	
DueDate	date		Yes	
Quantity	decimal	18.5	Yes	>= 0
Customer	text	100	No	
CustomerIdentifier	text	100	No	
Notes	text	250	No	
OrderNumber	text	50	Yes	

³ Demand Type – “SO” or “so” and “WO” or “wo” may be used for backward compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

SUPPLY ORDER

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
LinkCode	text	50	No	
OrderDate	date		Yes	
RequestDate	date		Yes	
PromiseDate	date		No	
StartDate	date		No	
OrderType ⁴	integer		Yes	1 or PO = Purchase Order 2 or WO = Work Order 3 or TO = Transfer Order
Quantity	decimal	18.5	Yes	>= 0
QuantityTo (<i>Export Only</i>)	decimal	18.5	No	
Priority (<i>Export only, Ignored on import</i>) Note: If using JSON with API, value must be set to Inactive	integer		No	1 = Critical 10 = Red 20 = Yellow 30 = Green 40 = OToG 99 = Inactive
Expedite	integer		No	0 = No Expedite 1 = Expedite
Status (<i>Export only, Ignored on import</i>)	integer			0 = Committed 1 = Exported 2 = Pending
Vendor	text	100	No	
VendorIdentifier	text	100	No	
Comments	text	250	No	
Notes	text	250	No	
OrderNumber	text	50	Yes	
UnitOfMeasure (<i>Export Only</i>)	text	20	No	
UnitOfMeasureTo (<i>Export Only</i>)	text	20	No	
OrderReceiptDate	Date		No	

⁴ Order Type – “PO” or “po” and “WO” or “wo” may be used for backward compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

SPARSE FIELDSET UPDATE FILE

This file should only be used to edit already existing data points like Inventory Planning, Planned Adjustment Factor, UDF's 1 – 8, etc. are maintained in a system other than Replenishment+®. This file needs to have **PartNumber, Revision and Location**, followed by any one or more of the fields from Part.csv file listed above. This file works only when “Configure” mode is chosen while importing. Data imported via this file is exported when the Parts file is exported.

DEMAND FORECAST

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
WeekBeginning	date		Yes	All dates must fall on the same day of the calendar week.
Value	decimal	18.5	No	>= 0 (defaults to 0)

DEMAND HISTORY

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	Must match a valid Part Number, Revision and Location in the parts data
Revision	text	10	No	
Location	text	32	No	
DemandDate	date		Yes	
Quantity	decimal	18.5	Yes	>= 0

CYCLE DAY ADJUSTMENT FACTOR

ColumnName	Type	Max Length	Required	Values
Name	text	50	Yes	
Location	text	32	Yes	
StartDate	date		Yes	
EndDate	date		Yes	
DaysCoverage	decimal	4.1	Yes	> 0 (Unless UnitsCoverage is specified)
UnitsCoverage	decimal	18.5	No	>= 0 (If specified this value will take precedence over DaysCoverage)
ZoneType	integer		No	0 = Yellow Zone 1 = Red Zone

PART UNIT OF MEASURE

ColumnName	Type	Max Length	Required	Values
PartNumber	text	50	Yes	The combination of PartNumber, Revision, and Location must exist in the Part file.
Revision	text	10	No	
Location	text	32	No	
FromQuantity	decimal	18.5	Yes	The Units as specified in incoming/outgoing Supply files.
FromUnit	text	20	Yes	
ToQuantity	decimal	18.5	Yes	The Units as used in the rest of R+ (Parts, Buffer Profiles, Demand, etc.)
ToUnit	text	20	Yes	
ToRoundingDigits	integer	-	No	Number of decimals places to round after conversion. Default = 5

PLANNING CALENDAR

ColumnName	Type	Max Length	Required	Values
Name	text	50	Yes	
Sunday	Boolean	1	Yes	
Monday	Boolean	1	Yes	
Tuesday	Boolean	1	Yes	
Wednesday	Boolean	1	Yes	
Thursday	Boolean	1	Yes	
Friday	Boolean	1	Yes	
Saturday	Boolean	1	Yes	

PENDING ORDER EXPORT

Pending Order Export is an export-only format. All columns below will be present in the export, although additional columns may be added or the order changed in future versions of Replenishment+.

ColumnName	Type	Max Length	Required	Values
SalesOrderNumber	text	50		
LineItem	text	50		
OrderNumber	text	50		
Description	text			
PartNumber	text	50		
Revision	text	10		
UnitOfMeasure	text	50		
UnitOfMeasureTo	text	50		
Location	text	32		
OrderType ⁵	integer			1 or PO = Purchase Order 2 or WO = Work Order 3 or TO = Transfer Order
InventoryPlanning	text	10		Valid Buffer Profile from the Buffer Profile record for the matching Location. RO = Replenish Override MM = Min/Max NB = Non-Buffered LTM = Lead Time Managed
PlannerCode	text	25		
OrderDate	date			
RequestDate	date			
PromiseDate	date			
Quantity	decimal	18.5		> 0, If a UnitOfMeasure is specified for a part, this will contain the converted (FROM) quantity.
QuantityTo	decimal	18.5		If a UnitOfMeasure is specified for a part, this will contain the converted (TO) quantity. Otherwise, it will be the same as the Quantity column.
RecommendedOrderQty	decimal	18.5		
Priority ⁶	integer			1 = Critical

⁵ Order Type – “PO” or “po” and “WO” or “wo” may be used for backward compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

⁶ Lower numbers are higher priority.

				10 = Red
				20 = Yellow
				30 = Green
				40 = OToG
				99 = Inactive
Expedite	integer			0 = No Expedite
				1 = Expedite
Vendor	text	100		
VendorId	text	100		
UnitCost	decimal	18.5		>= 0
ExtendedCost	decimal	18.5		>= 0
VarianceCost	decimal	18.5		>= 0
Customer	text	100		
Source	text			
Notes	text	250		
VarianceNotes	text			
UDF1	text	400		
UDF2	text	400		
UDF3	text	400		
UDF4	text	400		
UDF5	text	400		
UDF6	text	400		
UDF7	text	400		
UDF8	text	400		
PercOfBuffer	decimal	18.5		
Profile	text	10		Valid Buffer Profile from the Buffer Profile record for the matching Location.
				RO = Replenish Override
				MM = Min/Max
				NB = Non-Buffered
				LTM = Lead Time Managed
PartType ⁷	integer			1 = Buy
				2 = Make
				3 = Distributed
MaterialType	text	50		
Order	text			

⁷ Part Type – “M” or “m” and “B” or “B” may be used for backward compatibility. This feature is deprecated and will be removed in a future version of the CSV interface. Avoid using this feature in new development work, and plan to modify applications that currently use this feature.

Variance	decimal	18.5		
StartDate	date			
Late	integer			
Status	integer			0 = Committed
				1 = Exported
				2 = Pending
OrderId	text	100		
DueDate	date			
LinkCode	text	50		
CreatedByUser	text	256		
OrderReceiptDate	date			
UserDefined9	text	400		
UserDefined10	text	400		
UserDefined11	text	400		
UserDefined12	text	400		
UserDefined13	text	400		
UserDefined14	text	400		
UserDefined15	text	400		
UserDefined16	text	400		