

# NORTHSTAR to MDMS METER SETUP

When setting up an AMI meter the important fields in the meter maintenance screen are:

1. Subgroup
2. Pulse Meter
3. Meter Type Code

## Subgroup and Pulse Meter

The subgroup field defines what billing units are returned from MDMS and ultimately what meter positions will be populated with reads during the meter reading process. Meter positions for AMI meters require a time band to properly receive reads in from MDMS. The best way to assign the proper meter positions and time bands is to use a correct meter install profile when the meter is installed onto the account. Meter install profiles are typically set up by bill code to help ensure the proper meter positions and time bands are associated with installed meter positions.

The Pulse Meter flag only applies to Electric meters and is used to indicate if the billing units being returned are register read based or consumption based. Water meters are always register based. Register read based (Pulse Meter = N) will direct NorthStar to import the billing response reads into Meter Reading Entry, Reading Current field which will then perform the math  $[(\text{current read} - \text{previous read}) * \text{meter multiplier}]$  to calculate and populate the Reading Usage field. Consumption based (Pulse Meter = Y) will direct NorthStar to import the billing response consumption into Meter Reading Entry, Reading Usage field which will then perform the math  $[\text{previous read} + \text{usage}]$  to calculate and populate the Reading Current field.

Water and non-AMI Electric Subgroups

SUBGROUP	DESCRIPTION
000000	Non-AMI Meter (used for Electric and Water non-AMI meters)
00000F	Cumulative Cu Ft Reg Read
00000G	Cumulative Gallon Reg Read

Electric Subgroups – Best Practice Installation

SUBGROUP	DESCRIPTION	METER POSITIONS	DATA COLLECTION UNITS	BILLING TYPE	PULSE FLAG
000011	KWH ON/OFF TOU USAGE	2	On/Off usage KWH	1	Y
000013	KWH DEL/REC TOU USAGE	4	On/Off usage KWH Delivered & Received	1	Y
000021	KWH ON/OFF TOU REG READ	2	On/Off register KWH	1	N
000025	KWH 3 TIER TOU USAGE	3	On/Off/Stnd usage KWH (RG-3 rate)	1	Y
000026	KWH 3 TIER DEL/REC TOU USAGE	6	On/Off/Stnd usage KWH Delivered & Received (RG-3 rate)	1	Y
000041	KWH/KW TOU USAGE	4	On/Off usage KWH, On/Off usage KW	4	Y
000043	KWH/KW DEL/REC TOU USAGE	8	On/Off usage KWH Del & Rec, On/Off usage KW Del & Rec	4	Y

Additional Electric Subgroups – Alternate Installation

Subgroups below are used when above best practice installation isn't possible due to meter limitations and/or rate structure needs. Please contact the support team to discuss if these options are right for your utility.

SUBGROUP	DESCRIPTION	METER POSITIONS	DATA COLLECTION UNITS	BILLING TYPE	PULSE FLAG
000010	KWH NO TOU REG READ	1	Total register KWH	1	N
000012	KWH DEL/REC NO TOU REG READ	2	Total register KWH Delivered & Received	1	N
000014	KWH/KW DEL/REC TOU REG READ	8	On/Off register KWH Del & Rec, On/Off register KW Del & Rec	4	N
000040	KWH/KW NO TOU REG READ	2	Total register KWH, Max demand register KW	4	N
000061	KWH/KW/KVARH TOU USAGE	6	On/Off usage KWH, On/Off usage KW, On/Off usage KVARH	6	Y
000063	KWH/KW/KVARH DEL/REC TOU USAGE	12	On/Off usage KWH Del & Rec, On/Off usage KW Del & Rec, On/Off usage KVARH Del & Rec	6	Y
000095	VIRTUAL KWH/KW TOU USAGE	4	Used for totalizing multiple meters, requires additional setup – please contact your support team for assistance	4	Y
000096	VIRTUAL KWH/KW/KVARH TOU USAGE	6	Used for totalizing multiple meters, requires additional setup – please contact your support team for assistance	6	Y