Figure 16. Utility Bill Acquisition Overview

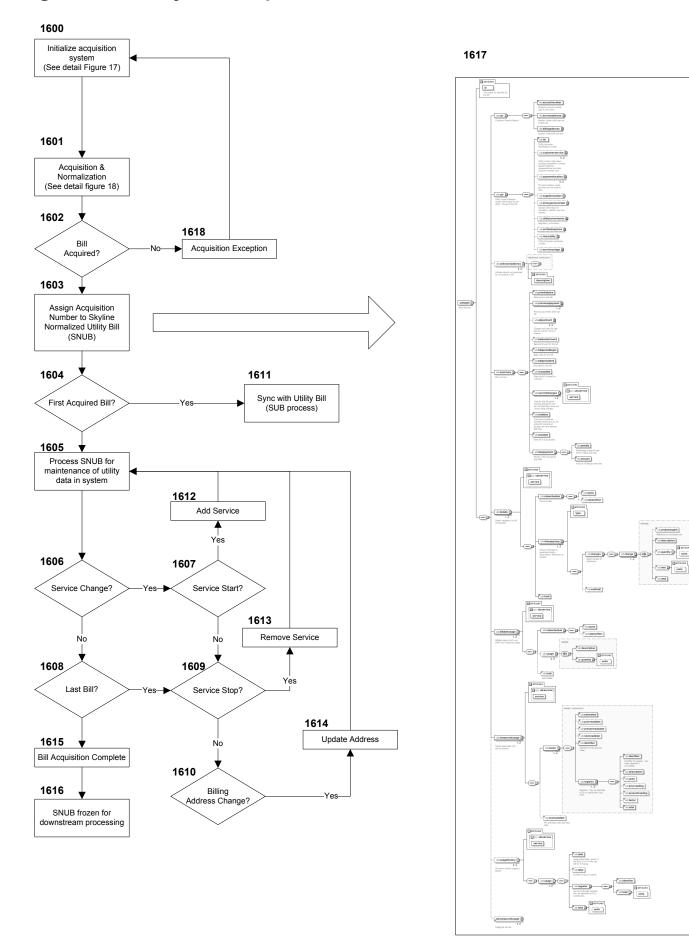
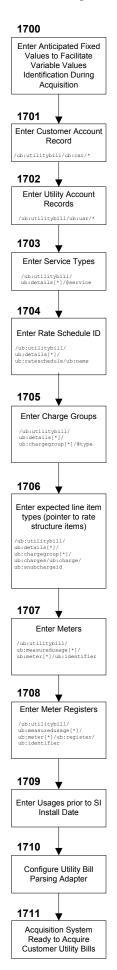


Figure 17. Initialize Acquisition System



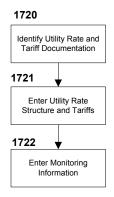


Figure 18. Utility Bill Data Acquisition and Normalization Detail

208

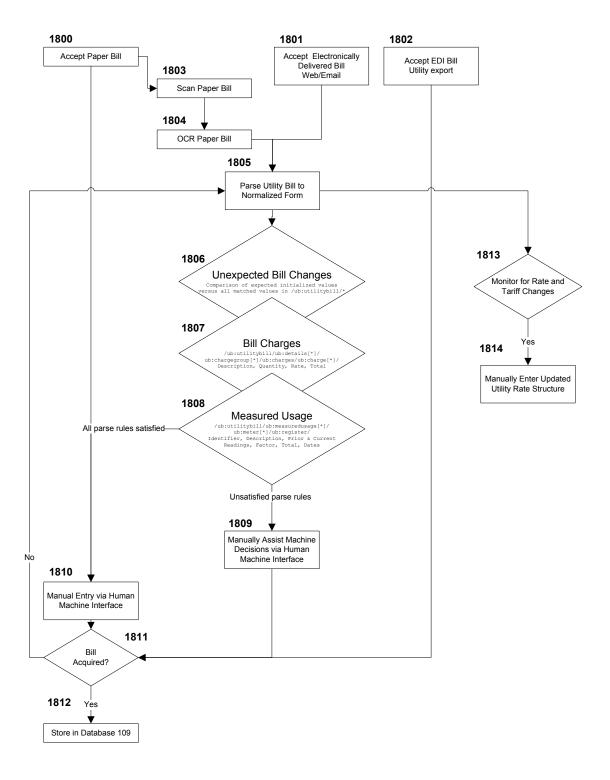


Figure 19. Example Normalized Utility Bill

1900

Utility 1

Utility N

	250 as 161 as 1695 236
Dustomer Utility Account Number Billing Address Service Address West Chester PA USA West Chester PA USA USA Charge Summary Period From 2009-09-33 To 2009-10-05 Bill Issued 2009-10-06 Due: 2009-10-28 Charges Privious Payments Adjustments Balance Forward Current Charges Total Due ate Payment Penalty: Anount: Charge Details Service Rate Schedule Charge Description Quantity Rate Amount agas Commercial Service Generation Supply Natural Cas Supply Charge 1374 CCF 0.57779 dollars 793.8	as 161 ectric 955
West Chester PA USA 19382-5004 West Chester PA USA Charge Summary Period From 2009-09-03 To 2009-10-05 Bill Issued 2009-10-06 Due: 2009-10-28 Charges Privious Payments Adjustments Balance Previous Payments Current Charges # 5 Total Due and Payment Penalty: Anount: Charge Details Service Rate Schedule Charge Description Quantity Rate Amount gas Commercial Service Generation Supply Natural Cas Supply Charge 1374 CCF 0.57779 dollars 7938 ### PA Amount Control of Customer Charge 1250 ### Distribution Customer Charge 1250 ###	as 161 ectric 955
West Chester PA USA 19382-3004 West Chester PA USA Charge Summary entod From 2009-09-33 To 2009-10-05 Bill Issued 2009-10-06 Due; 2009-10-28 Charges Prior Balance Previous Psyments Adjustments Balance Forward Current Charges # for all Due ate Payment Penalty: Annount: Charge Details Service Rate Schedule Charge Description Quantity Rate Amount ate Payment Penalty: Annount: Charge Description Quantity Rate Amount O Distribution Customer Charge 1374 CCF 0.57779 dollars 793.8	as 161 ectric 955
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Distribution Customer Charge 25.0	8
custome: Charge 23.0	
Balancing Service Charges 1374 CCF 0.04816 dollars 661	
Oas Cost Adjustment Charge 15/4 CCF 9.00.09 doubts 113.6	
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Sales Tax 91.1	7
0	
0	
electric Commercial Service Generation Supply Generation Charges 2120 kWh 0.12710 dollars 269 Generation Charges 4080 kWh 0.05000 dollars 204	
Ochicacon Changes 4000 km i 0.0000 Collais 2040	
Distribution: Customer Charge 235	
Distribution Charge 2120 kWh 0.03640 dollars 77.1	
Transition Charge 2120 kWh 0.07270 dollars 154	12
Transition Charge 4080 kWh 0.02170 collars 88:	*
0 Transmission Transmission Charge 2120 kWn 0.01290 collars 27:	15
Transmission Charge 4080 kWh 0.00380 collars 15:	
0	
Tax State Tax Adjustment -2.3	***
Sales Tax 54.1	3
Sales Tax 54.1 0	3
	3
Sales Tax 54.1	3

