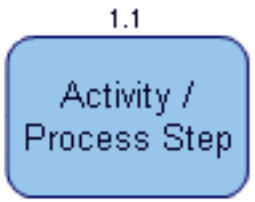
AMR Meter Reading

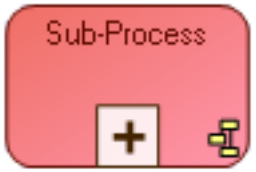
Draft To-Be Process Maps v0.6

Guide to Process Mapping Symbols

Process Step / Activity



Sub-Process



Gateway / Decision Point

Standard Flow

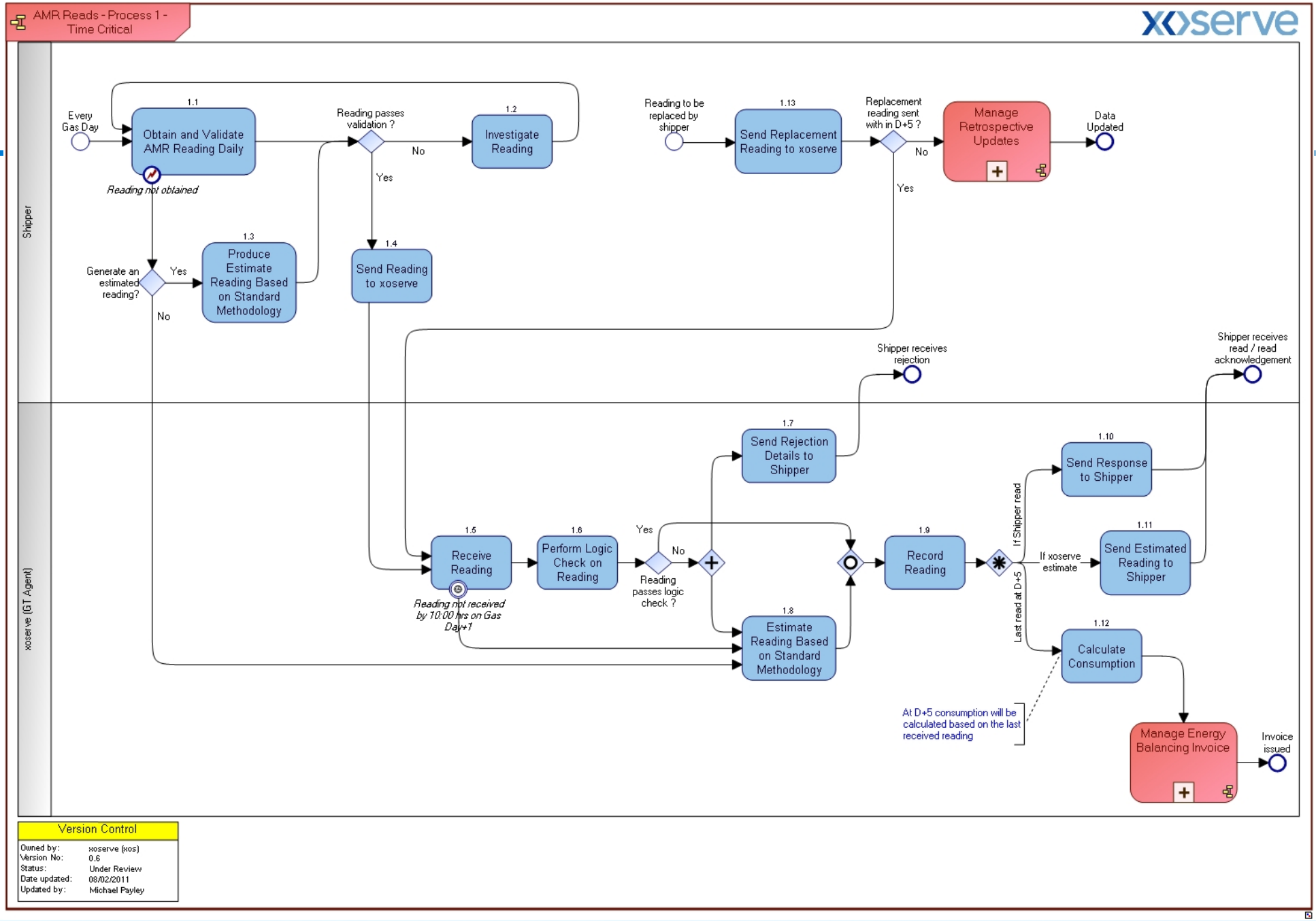
Default Flow

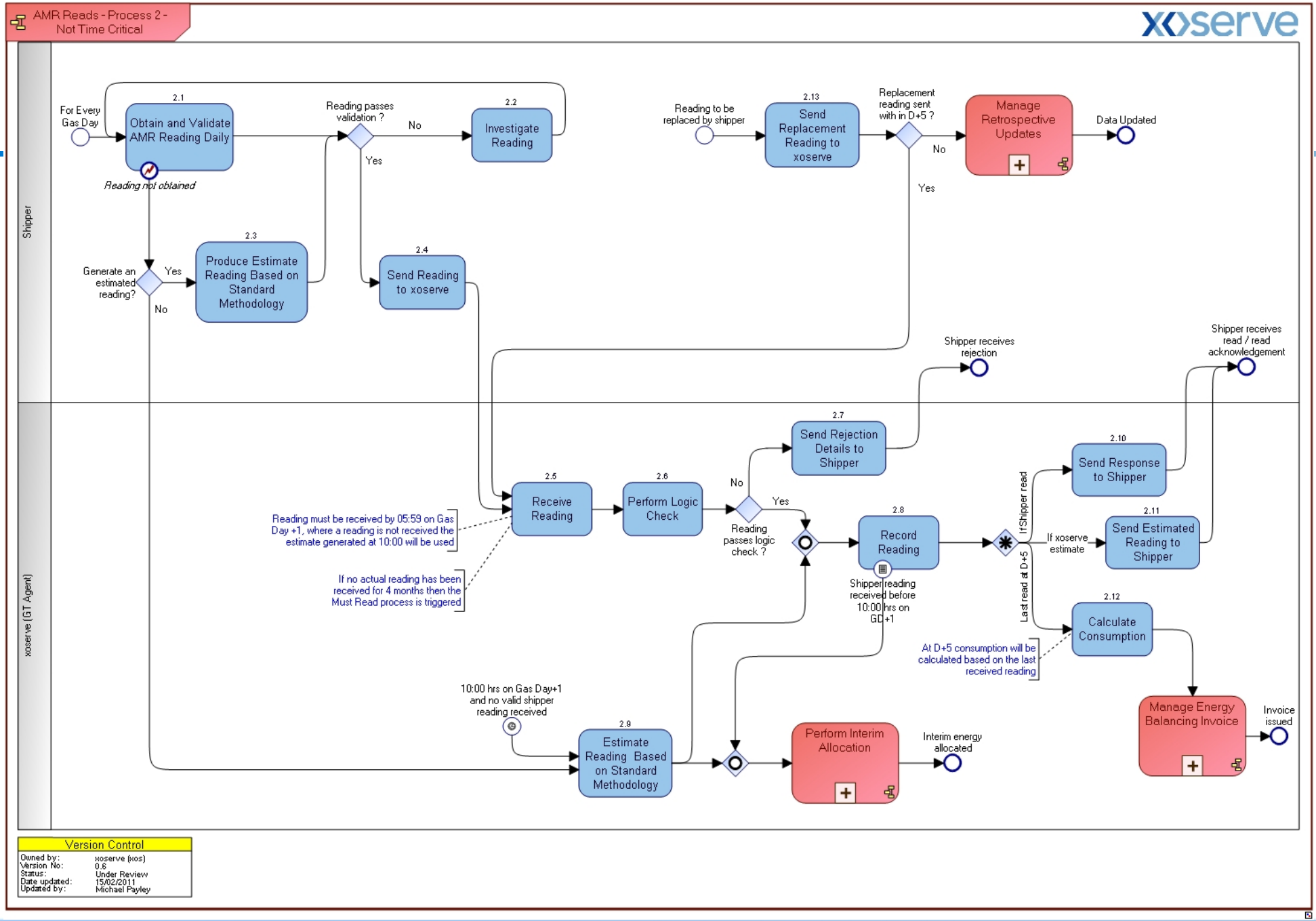
Conditional Flow

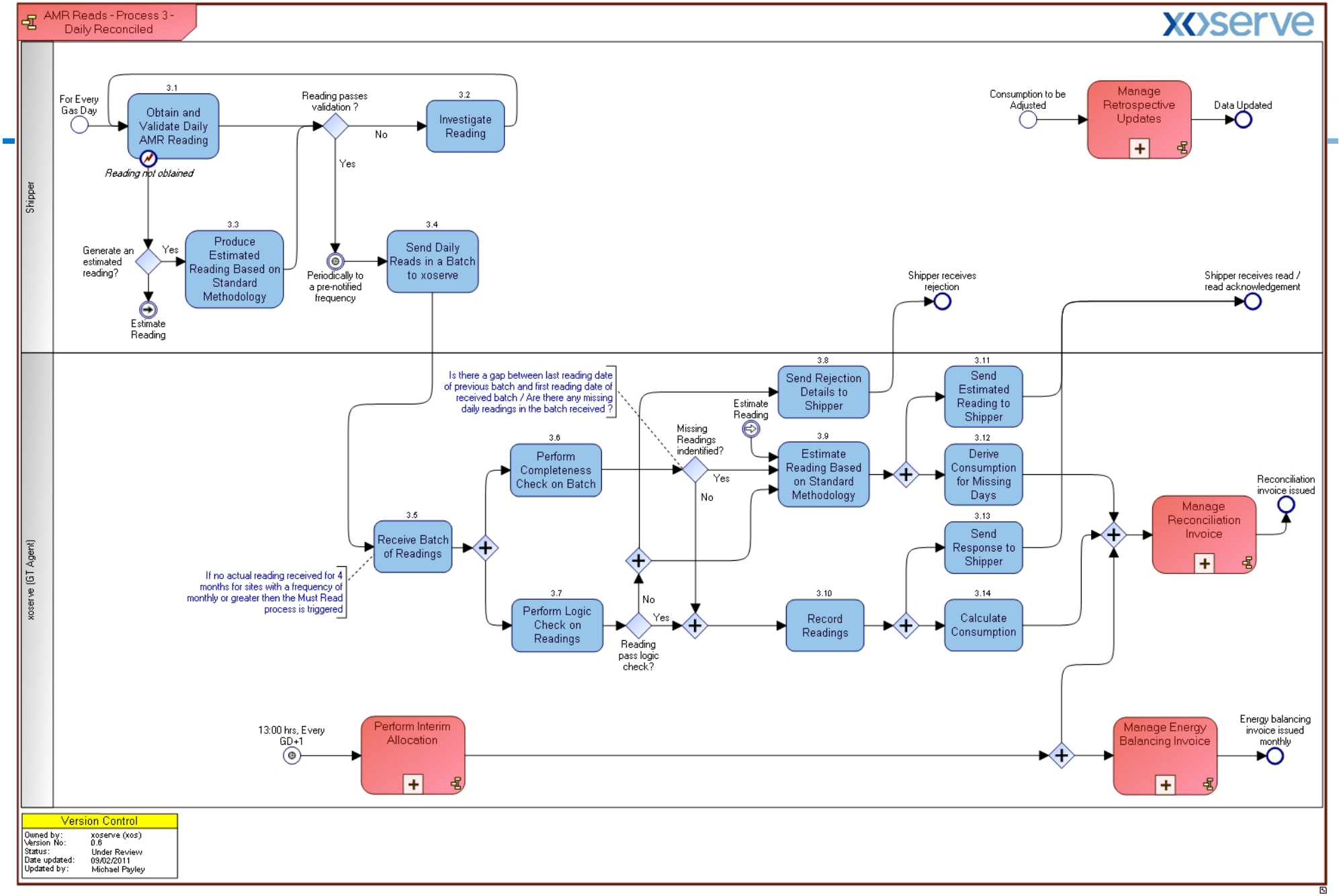
Message Flow

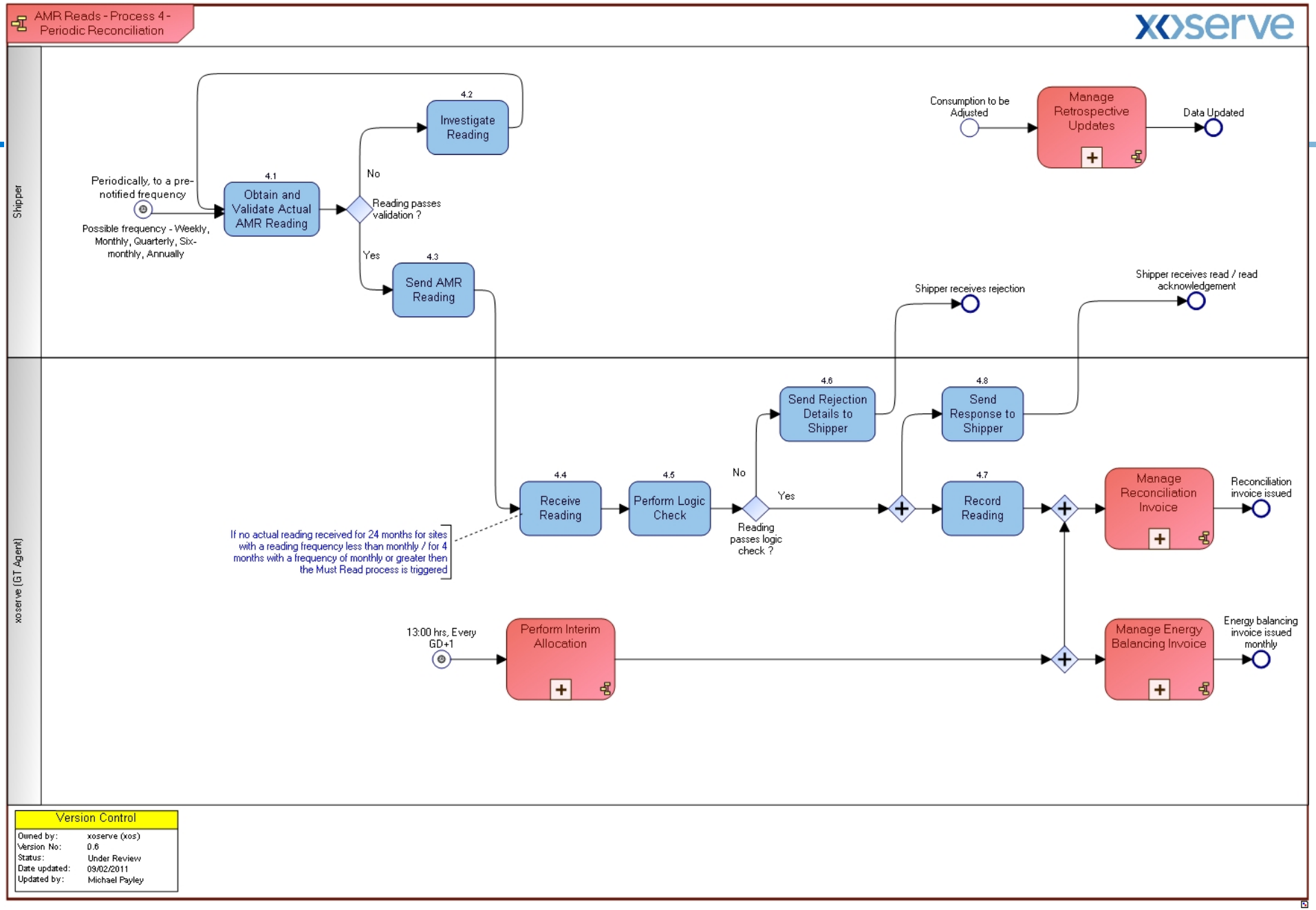
Events

xoserve


AMR Reads - Process 1 - Time Critical
Shipper
xoserve (GT Agent)
Every Gas Day
1.1
Obtain and Validate AMR Reading Daily
Reading not obtained
Reading passes validation ?
No
Yes
1.2
Investigate Reading
Generate an estimated reading?
Yes
No
1.3
Produce Estimate Reading Based on Standard Methodology
1.4
Send Reading to xoserve
Reading to be replaced by shipper
1.13
Send Replacement Reading to xoserve
Replacement reading sent with in D+5 ?
No
Yes
Manage Retrospective Updates
Data Updated
Shipper receives rejection
Shipper receives read / read acknowledgement
1.7
Send Rejection Details to Shipper
1.5
Receive Reading
Reading not received by 10:00 hrs on Gas Day+1
1.6
Perform Logic Check on Reading
Yes
No
Reading passes logic check ?
1.8
Estimate Reading Based on Standard Methodology
1.9
Record Reading
If Shipper read
If xoserve estimate
Last read at D+5
1.10
Send Response to Shipper
1.11
Send Estimated Reading to Shipper
1.12
Calculate Consumption
At D+5 consumption will be calculated based on the last received reading
Manage Energy Balancing Invoice
Invoice issued
Version Control
Owned by: xoserve (xos)
Version No: 0.6
Status: Under Review
Date updated: 08/02/2011
Updated by: Michael Payley


AMR Reads - Process 2 - Not Time Critical
Shipper
xoserve (GT Agent)
For Every Gas Day
2.1
Obtain and Validate AMR Reading Daily
Reading not obtained
Reading passes validation ?
No
Yes
2.2
Investigate Reading
Generate an estimated reading?
Yes
No
2.3
Produce Estimate Reading Based on Standard Methodology
2.4
Send Reading to xoserve
Reading to be replaced by shipper
2.13
Send Replacement Reading to xoserve
Replacement reading sent with in D+5 ?
No
Yes
Manage Retrospective Updates
Data Updated
Shipper receives rejection
Shipper receives read / read acknowledgement
2.7
Send Rejection Details to Shipper
2.5
Receive Reading
2.6
Perform Logic Check
No
Yes
Reading passes logic check ?
Reading must be received by 05:59 on Gas Day +1, where a reading is not received the estimate generated at 10:00 will be used
If no actual reading has been received for 4 months then the Must Read process is triggered
2.8
Record Reading
Shipper reading received before 10:00 hrs on GD+1
If Shipper read
If xoserve estimate
Last read at D+5
2.10
Send Response to Shipper
2.11
Send Estimated Reading to Shipper
2.12
Calculate Consumption
At D+5 consumption will be calculated based on the last received reading
10:00 hrs on Gas Day+1 and no valid shipper reading received
2.9
Estimate Reading Based on Standard Methodology
Perform Interim Allocation
Interim energy allocated
Manage Energy Balancing Invoice
Invoice issued
Version Control
Owned by: xoserve (xos)
Version No: 0.6
Status: Under Review
Date updated: 15/02/2011
Updated by: Michael Payley


AMR Reads - Process 3 - Daily Reconciled
xoserve
Shipper
xoserve (GT Agent)
For Every Gas Day
3.1
Obtain and Validate Daily AMR Reading
Reading not obtained
Reading passes validation ?
No
Yes
3.2
Investigate Reading
Generate an estimated reading?
Yes
3.3
Produce Estimated Reading Based on Standard Methodology
Estimate Reading
Periodically to a pre-notified frequency
3.4
Send Daily Reads in a Batch to xoserve
Consumption to be Adjusted
Manage Retrospective Updates
Data Updated
Shipper receives rejection
Shipper receives read / read acknowledgement
Is there a gap between last reading date of previous batch and first reading date of received batch / Are there any missing daily readings in the batch received ?
3.8
Send Rejection Details to Shipper
Estimate Reading
Missing Readings indentified?
Yes
No
3.6
Perform Completeness Check on Batch
3.9
Estimate Reading Based on Standard Methodology
3.11
Send Estimated Reading to Shipper
3.12
Derive Consumption for Missing Days
3.5
Receive Batch of Readings
If no actual reading received for 4 months for sites with a frequency of monthly or greater then the Must Read process is triggered
3.7
Perform Logic Check on Readings
No
Yes
Reading pass logic check?
3.10
Record Readings
3.13
Send Response to Shipper
3.14
Calculate Consumption
Reconciliation invoice issued
Manage Reconciliation Invoice
13:00 hrs, Every GD+1
Perform Interim Allocation
Manage Energy Balancing Invoice
Energy balancing invoice issued monthly
Version Control
Owned by: xoserve (xos)
Version No: 0.6
Status: Under Review
Date updated: 09/02/2011
Updated by: Michael Payley


AMR Reads - Process 4 - Periodic Reconciliation
Shipper
xoserve (GT Agent)
Periodically, to a pre-notified frequency
Possible frequency - Weekly, Monthly, Quarterly, Six-monthly, Annually
4.1
Obtain and Validate Actual AMR Reading
Reading passes validation ?
No
Yes
4.2
Investigate Reading
4.3
Send AMR Reading
Consumption to be Adjusted
Manage Retrospective Updates
Data Updated
Shipper receives rejection
Shipper receives read / read acknowledgement
4.4
Receive Reading
4.5
Perform Logic Check
Reading passes logic check ?
No
Yes
4.6
Send Rejection Details to Shipper
4.8
Send Response to Shipper
4.7
Record Reading
Manage Reconciliation Invoice
Reconciliation invoice issued
If no actual reading received for 24 months for sites with a reading frequency less than monthly / for 4 months with a frequency of monthly or greater then the Must Read process is triggered
13:00 hrs, Every GD+1
Perform Interim Allocation
Manage Energy Balancing Invoice
Energy balancing invoice issued monthly
Version Control
Owned by: xoserve (xos)
Version No: 0.6
Status: Under Review
Date updated: 09/02/2011
Updated by: Michael Payley