```
In [88]:    if __name__ == '__main__':

                print('Reading files')
                full_data, target_data, test_data = read_file()
                smooth(target_data)

                print('Making full forecast')
                full_forecasts = make_predictions(target_data)
```

```
Reading files
Outliers found at  DatetimeIndex(['2017-04-01', '2018-05-01', '2018-08-01',
'2018-09-01',
               '2019-05-01', '2019-06-01'],
              dtype='datetime64[ns]', freq=None)
Outliers found at  DatetimeIndex(['2016-11-01', '2017-01-01', '2017-02-01',
'2017-03-01',
               '2018-07-01', '2018-08-01'],
              dtype='datetime64[ns]', freq=None)
Outliers found at  DatetimeIndex(['2017-02-01', '2017-12-01', '2018-01-01',
'2018-12-01',
               '2019-04-01', '2019-05-01'],
              dtype='datetime64[ns]', freq=None)
Outliers found at  DatetimeIndex(['2017-04-01', '2018-03-01', '2018-11-01',
'2019-02-01',
               '2019-03-01', '2019-09-01'],
              dtype='datetime64[ns]', freq=None)
Making full forecast
"AUTO" for "Segment 2Sandesh Brand 1 / Sandesh Brand 2 - Segment 2Broadband
FalconAverage revenue per new customer - Falcon"
"AUTO" for "Segment 2Sandesh Brand 1 / Sandesh Brand 2 - Segment 2Broadband
FalconAverage revenue per existing customer - Falcon"
"AUTO" for "Segment 2Sandesh Brand 1 / Sandesh Brand 2 - Segment 2Broadband
FalconGross Adds - Falcon(Norm)"
"AUTO" for "Segment 2Sandesh Brand 1 / Sandesh Brand 2 - Segment 2Broadband
FalconNet Migrations - Falcon(Norm)"
```

```
In [ ]:    submission = make_submission(full_forecasts, train_data)
           # submission.to_csv('output/prediction.csv', index=False)
```

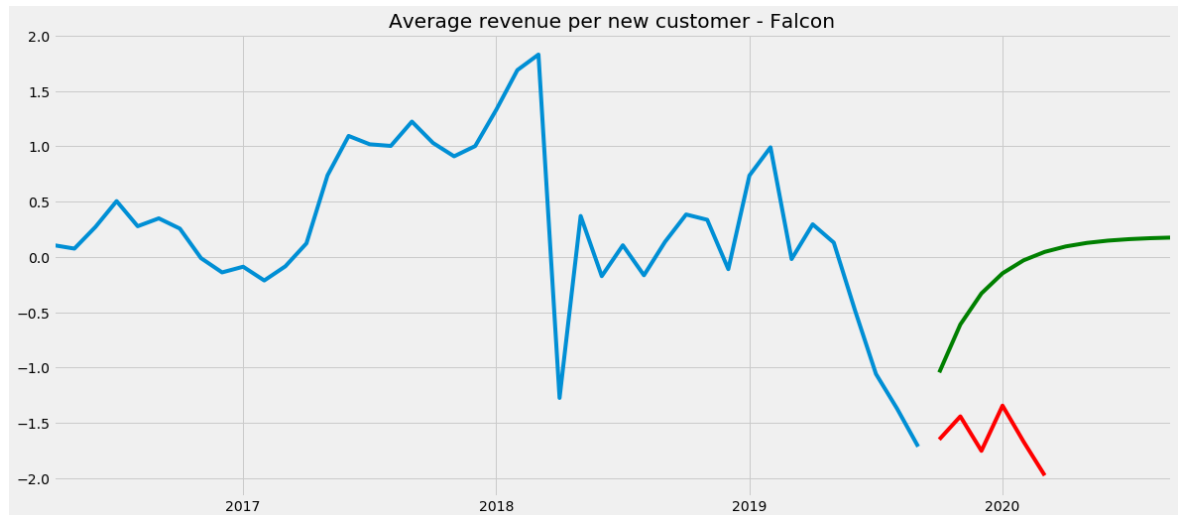▶ `evaluate(full_forecasts, test_data, target_data, plot=True)`

For "desh Brand 2 - Segment 2BroadbandFalconAverage revenue per new customer - Falcon" with model "AUTO"
MAPE : 0.7750821719200225
Threshold : 0.1, Target: 0.05
Raw score : 0.22877311663825872
Threshold score : 0

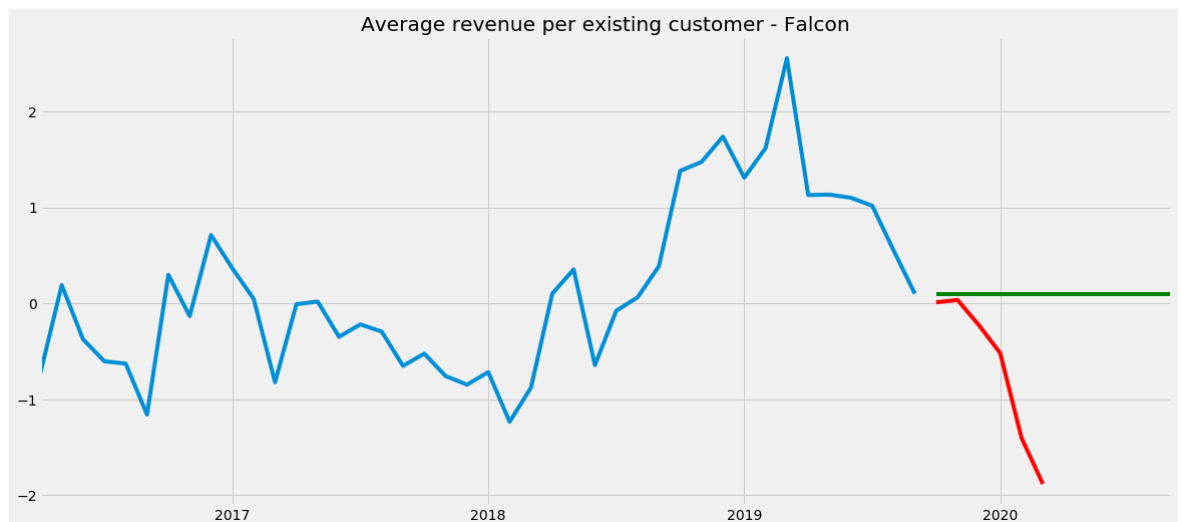Average revenue per new customer - Falcon

For "desh Brand 2 - Segment 2BroadbandFalconAverage revenue per existing customer - Falcon" with model "AUTO"
MAPE : 2.7505650884512476
Threshold : 4.5, Target: 3.0
Raw score : 0.0
Threshold score : 0.07

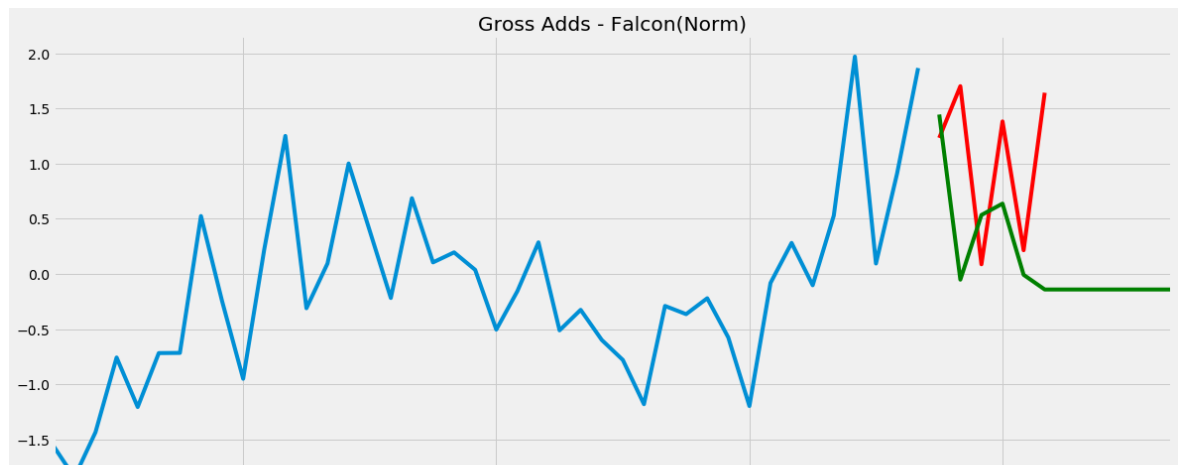

Average revenue per existing customer - Falcon

For "desh Brand 2 - Segment 2BroadbandFalconGross Adds - Falcon(Norm)" with model "AUTO"
MAPE : 1.4911606149126928
Threshold : 5.0, Target: 3.3
Raw score : 0.21490355339098954
Threshold score : 0.07
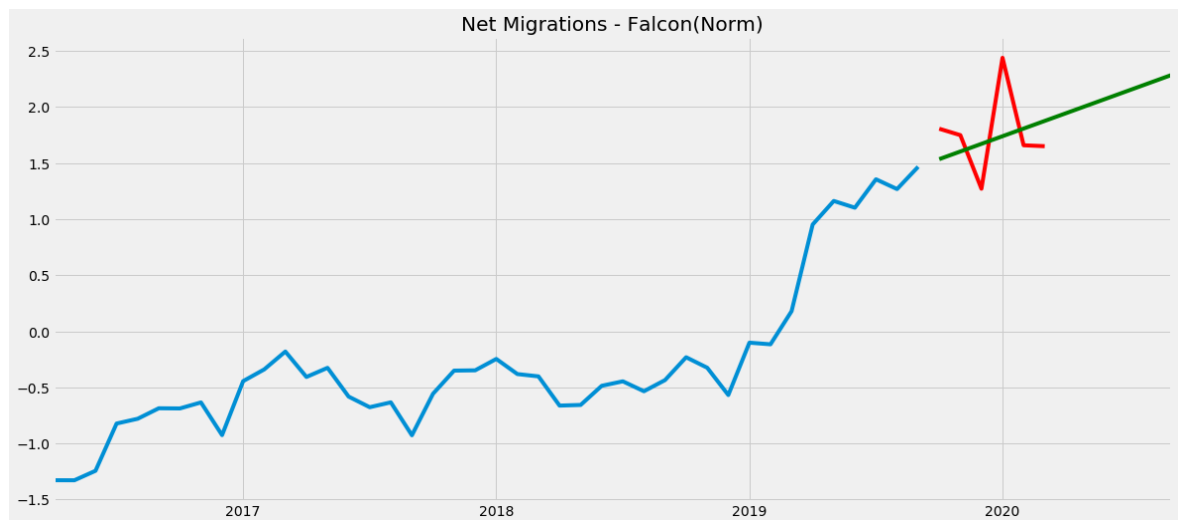
Gross Adds - Falcon(Norm)

For "desh Brand 2 - Segment 2BroadbandFalconNet Migrations - Falcon(Norm)"
with model "AUTO"
MAPE : 0.176919414737572
Threshold : 0.25, Target: 0.18
Raw score : 0.823080585262428
Threshold score : 0.07

Net Migrations - Falcon(Norm)

Final Raw score : 0.3166893138229191
Final Threshold score : 0.21000000000000002

In [ ]: ▶|

In [ ]: ▶|

EDA