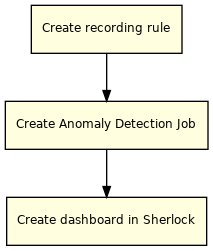
# Anomaly Detection & Drill Down

* [How to on board jobs](#AnomalyDetection&DrillDown-Howtoonboard)
  + [Anomaly Detection](#AnomalyDetection&DrillDown-AnomalyDetec)
    - [Flow Chart](#AnomalyDetection&DrillDown-FlowChart)
    - [Create recording rule](#AnomalyDetection&DrillDown-Createrecord)
    - [Create Anomaly Detection Job](#AnomalyDetection&DrillDown-CreateAnomal)
  + [Drill Down](#AnomalyDetection&DrillDown-DrillDown)
* [Rule Group](#AnomalyDetection&DrillDown-RuleGroup)
* [Anomaly Detection](#AnomalyDetection&DrillDown-AnomalyDetec)
  + [Job links:](#AnomalyDetection&DrillDown-Joblinks:)
  + [Sherlock Dashboard](#AnomalyDetection&DrillDown-SherlockDash)
  + [On board status:](#AnomalyDetection&DrillDown-Onboardstatu)
    - [PL](#AnomalyDetection&DrillDown-PL)
    - [PLA](#AnomalyDetection&DrillDown-PLA)
  + [SOP](#AnomalyDetection&DrillDown-SOP)
    - [Time Series](#AnomalyDetection&DrillDown-TimeSeries)
    - [Job Tuning](#AnomalyDetection&DrillDown-JobTuning)
    - [Alert Rule Configuration](#AnomalyDetection&DrillDown-AlertRuleCon)
* [Drill Down](#AnomalyDetection&DrillDown-DrillDown.1)
* [Cases](#AnomalyDetection&DrillDown-Cases)

## How to on board jobs

### Anomaly Detection

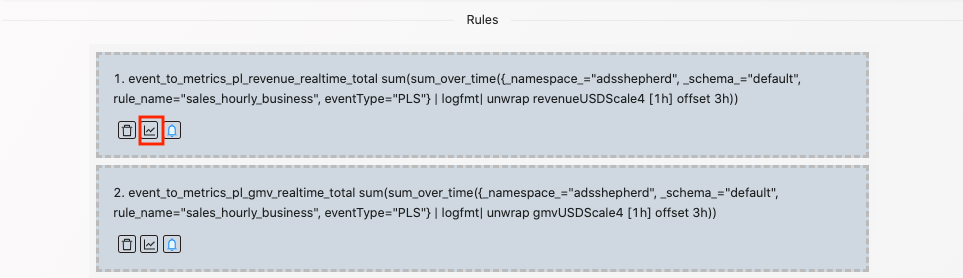
#### Flow Chart



#### Create recording rule

Rule group: [adsshepherd\_business\_event](https://cloud.ebay.com/rule-groups/rg/adsshepherd_business_event?env=production&ug=ads_infra)

* Refer to the existing recording rules to create new recording rules. Please add **offset 3h** in each metrics to resolve data lag.
* The query format used here is [Grafana LogQL](https://grafana.com/docs/loki/latest/logql/)
* Click the highlighted button in below chart. It will redirect you to the Sherlock dashboard of the recording rule.



#### Create Anomaly Detection Job

Jobs link: <https://cloud.ebay.com/anomaly/jobslist>

Explore link: <https://cloud.ebay.com/anomaly>

Anomaly Detection Algorithms and Parameters:

* [Models](file:////display/ump/Models) including descriptions and formulas
* Parameters <https://pages.github.corp.ebay.com/appmon/shim/parameters/cta.html>

### Drill Down

## Rule Group

Recording Rule: [adsshepherd\_business\_event](https://cloud.ebay.com/rule-groups/rg/adsshepherd_business_event?env=production&ug=ads_infra)

Note:

**Due to the data lag for business metrics, recoding rule has 3h offset from current time.**

## Anomaly Detection

### Job links:

<https://cloud.ebay.com/anomaly/jobslist> and choose 'adsccoe'(if you are in this dedicated team)  
Alternatively, you may directly go to a certain job by link [https://cloud.ebay.com/anomaly/job/jobdetails/name/<job\_name>?isWoodpecker=false](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLGMV_realtime_by_site?isWoodpecker=false)

From alerts' messages in slack channel, you can also find the job link for label **\_view\_cloudconsole**

### Sherlock Dashboard

Link: <https://console.sherlock.io/d/vO_Rbspnz/anomaly-detection-and-drill-down?orgId=1> (Timezone: MST)

### On board status:

#### PL

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Job Name** | **Status** | **On Board Date** | **Metrics** | **Dimension** | **Detection Algorithm** | **Alert Rule** | **Slack Channel** | **Pager** | **Replace for** |
| [TotalPLGMV\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/TotalPLGMV_realtime?isWoodpecker=false) | On board |  | GMV | Global | Univariate MEDIFF | [\_ad\_TotalPLGMV\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_TotalPLGMV_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_global\_GMV\_drop\_WoW |
| [TotalPLRevenue\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/TotalPLRevenue_realtime?isWoodpecker=false) | On board |  | Revenue | Global | Univariate MEDIFF | [\_ad\_TotalPLRevenue\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_TotalPLRevenue_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_global\_revenue\_drop\_WoW |
| [GlobalPLSoldAdrate\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/GlobalPLSoldAdrate_realtime?isWoodpecker=false) | On board |  | Sold Adrate | Global | Univariate MEDIFF | [\_ad\_GlobalPLSoldAdrate\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_GlobalPLSoldAdrate_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_global\_sold\_adrate\_drop |
| [TotalPLAttributionRatio\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/TotalPLAttributionRatio_realtime?isWoodpecker=false) | On board |  | Attribution Ratio | Global | Univariate MEDIFF | [\_ad\_TotalPLAttributionRatio\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_TotalPLAttributionRatio_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_global\_ATTR\_RATE\_drop\_WoW |
| [PLGMV\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLGMV_realtime_by_site?isWoodpecker=false) | On board |  | GMV | By Site  US, UK, DE, AU, AUTOS |  | [\_ad\_PLGMV\_realtime\_by\_top\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_by_top_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | [PLGMV\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLGMV_realtime_by_site?isWoodpecker=false) - Top sites US, UK, DE, AU, AUTOS |
| → [PLGMV\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLGMV_realtime_by_site?isWoodpecker=false) | On board |  | GMV | By Site |  | [\_ad\_PLGMV\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_by_site?env=production) | [#ads\_p3p4\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_GMV\_drop\_by\_site\_WoW |
| [PLRevenue\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLRevenue_realtime_by_site?isWoodpecker=false) | On board |  | Revenue | By Site |  | [\_ad\_PLRevenue\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLRevenue_realtime_by_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_revenue\_drop\_by\_site\_WoW |
| [PLSoldAdrate\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLSoldAdrate_realtime_by_site?isWoodpecker=false) | On board |  | Sold Adrate | By Site |  | [\_ad\_PLSoldAdrate\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLSoldAdrate_realtime_by_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLAttributionRatio\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLAttributionRatio_realtime_by_site?isWoodpecker=false) | On board |  | Attribution Ratio | By Site |  | [\_ad\_PLAttributionRatio\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLAttributionRatio_realtime_by_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLRevenue\_realtime\_by\_pageFamily](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLRevenue_realtime_by_pageFamily?isWoodpecker=false) | On board |  | Revenue | By Page Family |  | [\_ad\_PLRevenue\_realtime\_by\_pageFamily](https://cloud.ebay.com/rule-groups/rg/_ad_PLRevenue_realtime_by_pageFamily?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_merch\_revenue\_drop\_WoW, pl\_srp\_revenue\_drop\_WoW, pl\_offebay\_revenue\_drop\_WoW |
| [PLGMV\_realtime\_by\_pageFamily](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLGMV_realtime_by_pageFamily?isWoodpecker=false) | On board |  | GMV | By Page Family |  | [\_ad\_PLGMV\_realtime\_by\_pageFamily](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_by_pageFamily?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_merch\_GMV\_drop\_WoW, pl\_srp\_GMV\_drop\_WoW, pl\_offebay\_GMV\_drop\_WoW |
| [PLSoldAdrate\_realtime\_by\_pageFamily](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLSoldAdrate_realtime_by_pageFamily?isWoodpecker=false) | On board |  | Sold Adrate | By Page Family |  | [\_ad\_PLSoldAdrate\_realtime\_by\_pageFamily](https://cloud.ebay.com/rule-groups/rg/_ad_PLSoldAdrate_realtime_by_pageFamily?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLRevenue\_realtime\_dWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLRevenue_realtime_dWeb?isWoodpecker=false) | On board | Mar 8 2022 | Revenue | dWeb |  | [\_ad\_PLRevenue\_realtime\_dWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLRevenue_realtime_dWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_dWeb\_revenue\_drop\_WoW |
| [PLRevenue\_realtime\_mWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLRevenue_realtime_mWeb?isWoodpecker=false) | On board | Mar 8 2022 | Revenue | mWeb |  | [\_ad\_PLRevenue\_realtime\_mWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLRevenue_realtime_mWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_mWeb\_revenue\_drop\_WoW |
| [PLRevenue\_realtime\_device\_other](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLRevenue_realtime_device_other?isWoodpecker=false) | On board | Mar 8 2022 | Revenue | other |  | [\_ad\_PLRevenue\_realtime\_device\_other](https://cloud.ebay.com/rule-groups/rg/_ad_PLRevenue_realtime_device_other?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLGMV\_realtime\_dWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLGMV_realtime_dWeb?isWoodpecker=false) | On board | Mar 8 2022 | GMV | dWeb |  | [\_ad\_PLGMV\_realtime\_dWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_dWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_dWeb\_GMV\_drop\_WoW |
| [PLGMV\_realtime\_mWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLGMV_realtime_mWeb?isWoodpecker=false) | On board | Mar 8 2022 | GMV | mWeb |  | [\_ad\_PLGMV\_realtime\_mWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_mWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pl\_mWeb\_GMV\_drop\_WoW |
| [PLGMV\_realtime\_device\_other](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLGMV_realtime_device_other?isWoodpecker=false) | On board | Mar 8 2022 | GMV | other |  | [\_ad\_PLGMV\_realtime\_device\_other](https://cloud.ebay.com/rule-groups/rg/_ad_PLGMV_realtime_device_other?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLSoldAdrate\_realtime\_dWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLSoldAdrate_realtime_dWeb?isWoodpecker=false) | On board | Mar 8 2022 | Sold Adrate | dWeb |  | [\_ad\_PLSoldAdrate\_realtime\_dWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLSoldAdrate_realtime_dWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLSoldAdrate\_realtime\_mWeb](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLSoldAdrate_realtime_mWeb?isWoodpecker=false) | On board | Mar 8 2022 | Sold Adrate | mWeb |  | [\_ad\_PLSoldAdrate\_realtime\_mWeb](https://cloud.ebay.com/rule-groups/rg/_ad_PLSoldAdrate_realtime_mWeb?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |
| [PLSoldAdrate\_realtime\_device\_other](https://cloud.ebay.com/anomaly/job/jobdetails/name/PLSoldAdrate_realtime_device_other?isWoodpecker=false) | Tuning | Mar 14 2022 | Sold Adrate | other |  | [\_ad\_PLSoldAdrate\_realtime\_device\_other](https://cloud.ebay.com/rule-groups/rg/_ad_PLSoldAdrate_realtime_device_other?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  |  |

Note: rules in Replace for column are not disabled and they have  more tolerant thresholds

Please don't change: **\_ad\_...** are generated by anomaly detection.

#### PLA

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Job Name** | **Status** | **On Board Date** | **Metrics** | **Dimension** | **Alert Rule** | **Slack Channel** | **Pager** | **Replace for** |
| [TotalPLAGMV\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/TotalPLAGMV_realtime?isWoodpecker=false) | On board |  | GMV | Global | [\_ad\_TotalPLAGMV\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_TotalPLAGMV_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pla\_global\_GMV\_drop\_WoW |
| [TotalPLARevenue\_realtime](https://cloud.ebay.com/anomaly/jobdetails/name/TotalPLARevenue_realtime?isWoodpecker=false) | On board |  | Revenue | Global | [\_ad\_TotalPLARevenue\_realtime](https://cloud.ebay.com/rule-groups/rg/_ad_TotalPLARevenue_realtime?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pla\_global\_revenue\_drop\_WoW |
| [PLAGMV\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLAGMV_realtime_by_site?isWoodpecker=false) | On board |  | GMV | By Site | [\_ad\_PLAGMV\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLAGMV_realtime_by_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pla\_GMV\_drop\_by\_site\_WoW |
| [PLARevenue\_realtime\_by\_site](https://cloud.ebay.com/anomaly/jobdetails/name/PLARevenue_realtime_by_site?isWoodpecker=false) | On board |  | Revenue | By Site | [\_ad\_PLARevenue\_realtime\_by\_site](https://cloud.ebay.com/rule-groups/rg/_ad_PLARevenue_realtime_by_site?env=production) | [#ads\_p1p2\_alerts](https://app.slack.com/client/T0M05TDH6/C02PWMYR54J) |  | pla\_revenue\_drop\_by\_site\_WoW |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

### SOP

#### Time Series

Note: **Due to the data lag for business metrics, recoding rule has 3h offset from current time.**

#### Job Tuning

#### Alert Rule Configuration

## Drill Down

## Cases

