

IIR IDB API: Migrating from v1 to v2 Guide (Redesigned Offline Event Search)

This only affects the Offline Event search which has been redesigned to allow searching for offline plants, offline units, and offline assets. For all the other search tools, the v2.0.0 endpoint results are equivalent to the 1.4.4 release.

The offline event data structure was modified to be able to show multiple entities associated to the same event ID. This includes changes such as:

(1) Offline Event endpoint changes:

1. Difference between v1 and v2:

- v1: Offline Event is specific to Units only
- v2: Offline Event could be for 3 different entity types (Plant, Unit and Asset)

○ Includes the following new fields:

- | | | |
|---------------------------------|----------------------------------|-------------------------------|
| ▪ offlineEventKey | ▪ pipelineStatusDesc | ▪ tLineName |
| ▪ associatedEntityStartDate | ▪ pipelineLengthMiles | ▪ tLineStatusDesc |
| ▪ associatedEntityEndDate | ▪ pipelineLengthKilometers | ▪ tLineLengthMiles |
| ▪ associatedEntityPrevStartDate | ▪ pipelineSystemId | ▪ tLineLengthKilometers |
| ▪ associatedEntityPrevEndDate | ▪ pipelineSystemName | ▪ tLineSystemId |
| ▪ associatedEntityType | ▪ pipelineSystemLengthMiles | ▪ tLineSystemName |
| ▪ pipelineId | ▪ pipelineSystemLengthKilometers | ▪ tLineSystemLengthMiles |
| ▪ pipelineName | ▪ tLineId | ▪ tLineSystemLengthKilometers |

○ Data Structure - Since eventId is no longer unique in v2.0, a new *offlineEventKey* has been created to provide a unique id.

- *offlineEventKey* – This is a concatenated primary key which contains the eventId along with the plantId, unitId or assetId (pipelineId or tLineId) linked by an asterisk (*). (If a field is null then blank)

Example:

Offline Plant	Offline Unit	Offline Pipeline
<pre> "offlineEvents": [{ "offlineEventKey": "2034608*1000052*", "eventId": 2034608, "eventType": "Planned", "eventStatusDesc": "Future", "associatedEntityStartDate": "2023-08-14T05:00:00Z", "associatedEntityEndDate": "2023-08-17T05:00:00Z", "associatedEntityType": "PLANT", "eventStartDate": "2023-08-14T05:00:00Z", "eventEndDate": "2023-08-17T05:00:00Z", "eventDuration": 4, "plantId": 1000052, "plantName": "Deer Park Refinery", "plantOwnerName": "Deer Park Refining LP" }] </pre>	<pre> "offlineEvents": [{ "offlineEventKey": "2034608**1021460*", "eventId": 2034608, "eventType": "Planned", "eventStatusDesc": "Future", "associatedEntityStartDate": "2023-08-14T05:00:00Z", "associatedEntityEndDate": "2023-08-17T05:00:00Z", "associatedEntityType": "UNIT", "eventStartDate": "2023-08-14T05:00:00Z", "eventEndDate": "2023-08-17T05:00:00Z", "eventDuration": 4, "unitId": 1021460, "unitName": "CCOXY Catalytic Oxidation Hydrocracker", "plantName": "Deer Park Refinery", "plantOwnerName": "Deer Park Refining LP" }] </pre>	<pre> "offlineEvents": [{ "offlineEventKey": "2035440***3502172", "eventId": 2035440, "eventType": "Planned", "eventStatusDesc": "Ongoing", "associatedEntityStartDate": "2022-03-08T06:00:00Z", "associatedEntityEndDate": "2022-03-30T05:00:00Z", "associatedEntityType": "ASSET", "eventStartDate": "2022-03-08T06:00:00Z", "eventEndDate": "2022-03-30T05:00:00Z", "eventDuration": 24, "prevStartDate": "2022-03-08T06:00:00Z", "prevEndDate": "2022-03-23T05:00:00Z", "pipelineId": 3502172, }] </pre>

2. offlineevents/summary

Example: v1 vs. v2 response

v1	v2
<pre>{ "limit": 1, "offset": 0, "resultCount": 1, "totalCount": 1, "offlineEvents": [{ "eventId": 2034608, "eventType": "PLANT", "eventStatusDesc": "PLANT", "eventStartDate": "2019-08-14T10:00:00Z", "eventEndDate": "2019-08-14T10:00:00Z", "eventDuration": 0, "unitId": 1021460, "unitName": "UNIT", "plantName": "PLANT", "plantOwnerName": "PLANT", "plantPhysicalAddress": { "city": "PLANT", "stateName": "PLANT", "countryName": "PLANT" }, "tradingRegionName": "PLANT", "unitTypeDesc": "UNIT", "eventComments": "PLANT", "liveDate": "2019-08-14T10:00:00Z", "releaseDate": "2019-08-14T10:00:00Z" }] }</pre>	<pre>{ "limit": 2, "offset": 0, "resultCount": 2, "totalCount": 2, "offlineEvents": [{ "offlineEventKey": "2034608*1000052*", "eventId": 2034608, "eventType": "PLANT", "eventStatusDesc": "PLANT", "associatedEntityStartDate": "2019-08-14T10:00:00Z", "associatedEntityEndDate": "2019-08-14T10:00:00Z", "associatedEntityType": "PLANT", "eventStartDate": "2019-08-14T10:00:00Z", "eventEndDate": "2019-08-14T10:00:00Z", "eventDuration": 0, "plantId": 1000052, "plantName": "PLANT", "plantOwnerName": "PLANT", "plantPhysicalAddress": { "city": "PLANT", "stateName": "PLANT", "countryName": "PLANT" }, "tradingRegionName": "PLANT", "eventComments": "PLANT", "liveDate": "2019-08-14T10:00:00Z", "releaseDate": "2019-08-14T10:00:00Z" }, { "offlineEventKey": "2034608**1021460*", "eventId": 2034608, "eventType": "UNIT", "eventStatusDesc": "UNIT", "associatedEntityStartDate": "2019-08-14T10:00:00Z", "associatedEntityEndDate": "2019-08-14T10:00:00Z", "associatedEntityType": "UNIT", "eventStartDate": "2019-08-14T10:00:00Z", "eventEndDate": "2019-08-14T10:00:00Z", "eventDuration": 0, "unitId": 1021460, "unitName": "UNIT", "plantName": "PLANT", "plantOwnerName": "PLANT", "plantPhysicalAddress": { "city": "PLANT", "stateName": "PLANT", "countryName": "PLANT" }, "tradingRegionName": "PLANT", "unitTypeDesc": "UNIT", "eventComments": "PLANT", "liveDate": "2019-08-14T10:00:00Z", "releaseDate": "2019-08-14T10:00:00Z" }] }</pre>

3. offlineevents/detail

Example: v1 vs. v2 response

v1

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"limit": 1,
"offset": 0,
"resultCount": 1,
"totalCount": 1,
"offlineEvents": [
  {
    "eventId": 2034608,
    "eventKind": "Planned",
    "eventType": "Planned",
    "eventCause": "Planned",
    "eventStatusDesc": "Planned",
    "eventStartDate": "2023-01-01T00:00:00Z",
    "eventEndDate": "2023-01-01T00:00:00Z",
    "eventDuration": 0,
    "unitId": 1021460,
    "unitName": "UNIT",
    "unitStatusDesc": "UNIT",
    "unitStartupDate": "2023-01-01T00:00:00Z",
    "industryCode": "1021460",
    "industryCodeDesc": "UNIT",
    "plantName": "UNIT",
    "plantParentName": "UNIT",
    "plantOwnerName": "UNIT",
    "plantOperatorName": "UNIT",
    "plantPhysicalAddress": {
      "addressLine1": "UNIT",
      "city": "UNIT",
      "stateName": "UNIT",
      "postalCode": "UNIT",
      "countryName": "UNIT",
      "countyName": "UNIT"
    },
    "plantPhone": "UNIT",
    "plantLatitude": 0,
    "plantLongitude": 0,
    "areaId": "UNIT",
    "areaName": "UNIT",
    "offshore": false,
    "gasRegionId": "UNIT",
    "gasRegionName": "UNIT",
    "isoRtoRegion": "UNIT",
    "marketRegionId": "UNIT",
    "marketRegionName": "UNIT",
    "nercRegion": "UNIT",
    "tradingRegionId": "UNIT",
    "tradingRegionName": "UNIT",
    "powerTradeRegion": "UNIT",
    "worldRegionId": "UNIT",
    "worldRegionName": "UNIT",
    "pecZone": "UNIT",
    "primarySicId": "UNIT",
    "unitClassification": "UNIT",
    "derate": false,
    "isDerated": false,
    "unitTypeId": "UNIT",
    "unitTypeDesc": "UNIT",
    "eventConfirmationStatus": "UNIT",
    "cogenChp": false,
    "controlAreaId": "UNIT",
    "controlAreaName": "UNIT",
    "electricalConnectionName": "UNIT",
    "eventDatePrecision": "UNIT",
    "kickoffSlippage": 0,
    "eventComments": "UNIT",
    "liveDate": "UNIT",
    "releaseDate": "UNIT"
  }
]
```

v2

```
"limit": 2,
"offset": 0,
"resultCount": 2,
"totalCount": 2,
"offlineEvents": [
  {
    "offlineEventKey": "2034608*1021460*",
    "eventId": 2034608,
    "eventKind": "Planned",
    "eventType": "Planned",
    "eventCause": "Planned",
    "eventStatusDesc": "Planned",
    "associatedEntityStartDate": "2023-01-01T00:00:00Z",
    "associatedEntityEndDate": "2023-01-01T00:00:00Z",
    "associatedEntityType": "UNIT",
    "eventStartDate": "2023-01-01T00:00:00Z",
    "eventEndDate": "2023-01-01T00:00:00Z",
    "eventDuration": 0,
    "unitId": 1021460,
    "unitName": "UNIT",
    "unitStatusDesc": "UNIT",
    "unitStartupDate": "2023-01-01T00:00:00Z",
    "industryCode": "1021460",
    "industryCodeDesc": "UNIT",
    "plantName": "UNIT",
    "plantParentName": "UNIT",
    "plantOwnerName": "UNIT",
    "plantOperatorName": "UNIT",
    "plantPhysicalAddress": {
      "addressLine1": "UNIT",
      "city": "UNIT",
      "stateName": "UNIT",
      "postalCode": "UNIT",
      "countryName": "UNIT",
      "countyName": "UNIT"
    },
    "plantPhone": "UNIT",
    "plantLatitude": 0,
    "plantLongitude": 0,
    "areaId": "UNIT",
    "areaName": "UNIT",
    "offshore": false,
    "gasRegionId": "UNIT",
    "gasRegionName": "UNIT",
    "isoRtoRegion": "UNIT",
    "marketRegionId": "UNIT",
    "marketRegionName": "UNIT",
    "nercRegion": "UNIT",
    "tradingRegionId": "UNIT",
    "tradingRegionName": "UNIT",
    "powerTradeRegion": "UNIT",
    "worldRegionId": "UNIT",
    "worldRegionName": "UNIT",
    "pecZone": "UNIT",
    "primarySicId": "UNIT",
    "unitClassification": "UNIT",
    "derate": false,
    "isDerated": false,
    "unitTypeId": "UNIT",
    "unitTypeDesc": "UNIT",
    "eventConfirmationStatus": "UNIT",
    "cogenChp": false,
    "controlAreaId": "UNIT",
    "controlAreaName": "UNIT",
    "electricalConnectionName": "UNIT",
    "eventDatePrecision": "UNIT",
    "kickoffSlippage": 0,
    "eventComments": "UNIT",
    "liveDate": "UNIT",
    "releaseDate": "UNIT"
  },
  {
    "offlineEventKey": "2034608*1021460*",
    "eventId": 2034608,
    "eventKind": "Planned",
    "eventType": "Planned",
    "eventCause": "Planned",
    "eventStatusDesc": "Planned",
    "associatedEntityStartDate": "2023-01-01T00:00:00Z",
    "associatedEntityEndDate": "2023-01-01T00:00:00Z",
    "associatedEntityType": "UNIT",
    "eventStartDate": "2023-01-01T00:00:00Z",
    "eventEndDate": "2023-01-01T00:00:00Z",
    "eventDuration": 0,
    "unitId": 1021460,
    "unitName": "UNIT",
    "unitStatusDesc": "UNIT",
    "unitStartupDate": "2023-01-01T00:00:00Z",
    "industryCode": "1021460",
    "industryCodeDesc": "UNIT",
    "plantName": "UNIT",
    "plantParentName": "UNIT",
    "plantOwnerName": "UNIT",
    "plantOperatorName": "UNIT",
    "plantPhysicalAddress": {
      "addressLine1": "UNIT",
      "city": "UNIT",
      "stateName": "UNIT",
      "postalCode": "UNIT",
      "countryName": "UNIT",
      "countyName": "UNIT"
    },
    "plantPhone": "UNIT",
    "plantLatitude": 0,
    "plantLongitude": 0,
    "areaId": "UNIT",
    "areaName": "UNIT",
    "offshore": false,
    "gasRegionId": "UNIT",
    "gasRegionName": "UNIT",
    "isoRtoRegion": "UNIT",
    "marketRegionId": "UNIT",
    "marketRegionName": "UNIT",
    "nercRegion": "UNIT",
    "tradingRegionId": "UNIT",
    "tradingRegionName": "UNIT",
    "powerTradeRegion": "UNIT",
    "worldRegionId": "UNIT",
    "worldRegionName": "UNIT",
    "pecZone": "UNIT",
    "primarySicId": "UNIT",
    "unitClassification": "UNIT",
    "derate": false,
    "isDerated": false,
    "unitTypeId": "UNIT",
    "unitTypeDesc": "UNIT",
    "eventConfirmationStatus": "UNIT",
    "cogenChp": false,
    "controlAreaId": "UNIT",
    "controlAreaName": "UNIT",
    "electricalConnectionName": "UNIT",
    "eventDatePrecision": "UNIT",
    "kickoffSlippage": 0,
    "eventComments": "UNIT",
    "liveDate": "UNIT",
    "releaseDate": "UNIT"
  }
]
```

(2) URL usages:

Examples for v1:

<https://api.industrialinfo.com/idb/v1/offlineevents/summary?>

<https://api.industrialinfo.com/idb/v1.4/offlineevents/summary?>

Examples for v2:

<https://api.industrialinfo.com/idb/v2/offlineevents/summary?>

<https://api.industrialinfo.com/idb/v2.0/offlineevents/summary?>