

Sales Dashboard API Data Requirement (Updated)

Overview

Keperluan Data Sales Dashboard dengan dukungan custom date picker.

Request Parameters (Updated)

Parameter	Type	Required	Description	Example
year	Number	Conditional	Tahun laporan (required jika useCustomDate=false)	2025
month	String	Conditional	Bulan ("01"- "12") atau "all-month" (required jika useCustomDate=false)	"08", "all-month"
branch	String	Yes	ID cabang atau "all-branch"	"0050", "all-branch"
compare	Boolean	Yes	Flag untuk data perbandingan	true, false
useCustomDate	Boolean	No	Flag penggunaan custom date (default: false)	true, false
selectedDate	String	Conditional	Tanggal spesifik YYYY-MM-DD (required jika useCustomDate=true)	"2025-08-15"

Parameter Validation Rules

- **Mode 1 - Month/Year Filter (useCustomDate=false atau tidak ada):**
 - **year** wajib diisi
 - **month** wajib diisi untuk beberapa endpoint
 - **selectedDate** diabaikan
- **Mode 2 - Custom Date Filter (useCustomDate=true):**
 - **selectedDate** wajib diisi dalam format **YYYY-MM-DD**
 - **year** dan **month** diabaikan
 - Tanggal harus valid dan tidak boleh masa depan

1. Sales KPI

Data yang dibutuhkan:

- **Total Unit Sales**
 - Jumlah unit kendaraan yang terjual
 - Type: Number
 - Example: 142
- **Total SPK**

- Jumlah Surat Pesanan Kendaraan
- Type: Number
- Example: 355
- **Total Revenue**
 - Total pendapatan penjualan (dalam rupiah)
 - Type: Number
 - Example: 1100000000
- **Total DO**
 - Jumlah Delivery Order
 - Type: Number
 - Example: 138
- **Top Model**
 - Model kendaraan dengan penjualan tertinggi
 - Fields: name (String), value (Number)
 - Example: { "name": "STARGAZER", "value": 94 }
- **Top Branch**
 - Cabang dengan performa penjualan terbaik
 - Fields: code (String), value (Number)
 - Example: { "code": "0050", "value": 128 }

Data Perbandingan (jika compare=true):

- **Mode Month/Year:**
 - prevYear: Data bulan yang sama tahun sebelumnya
 - prevMonth: Data bulan sebelumnya dalam tahun yang sama
- **Mode Custom Date:**
 - prevDate: Data tanggal kemarin (D-1)
 - prevMonth: Data tanggal yang sama di bulan lalu
 - **Note:** Tidak ada perbandingan tahun sebelumnya dalam mode custom date

Response Structure Compare ON (Month/Year Mode)

```
{
  "status": "success",
  "message": "Data retrieved successfully",
  "data": {
    "request": {
      "companyId": "sinar-galesong-mobilindo",
      "year": 2025,
      "month": "08",
```

```

    "branchId": "all-branch",
    "useCustomDate": false,
    "selectedDate": null
  },
  "kpis": {
    "totalUnitSales": {
      "selected": { "value": 142, "period": "2025-08" },
      "prevYear": { "value": 140, "period": "2024-08" },
      "prevMonth": { "value": 135, "period": "2025-07" }
    },
    "totalSPK": {
      "selected": { "value": 355, "period": "2025-08" },
      "prevYear": { "value": 360, "period": "2024-08" },
      "prevMonth": { "value": 345, "period": "2025-07" }
    },
    "totalRevenue": {
      "selected": { "value": 1100000000, "period": "2025-08" },
      "prevYear": { "value": 1250000000, "period": "2024-08" },
      "prevMonth": { "value": 1220000000, "period": "2025-07" }
    },
    "totalDO": {
      "selected": { "value": 138, "period": "2025-08" },
      "prevYear": { "value": 133, "period": "2024-08" },
      "prevMonth": { "value": 132, "period": "2025-07" }
    },
    "topModel": {
      "selected": { "name": "STARGAZER", "value": 94, "period": "2025-08" },
      "prevYear": { "name": "Palisade", "value": 88, "period": "2024-08" },
      "prevMonth": { "name": "Santa Fe", "value": 92, "period": "2025-07" }
    },
    "topBranch": {
      "selected": { "code": "0050", "value": 128, "period": "2025-08" },
      "prevYear": { "code": "0050", "value": 125, "period": "2024-08" },
      "prevMonth": { "code": "0050", "value": 125, "period": "2025-07" }
    }
  }
}

```

Response Structure Compare ON (Custom Date Mode)

```

{
  "status": "success",
  "message": "Data retrieved successfully",
  "data": {
    "request": {
      "companyId": "sinar-galesong-mobilindo",
      "year": null,
      "month": null,
      "branchId": "all-branch",
      "useCustomDate": true,

```

```

    "selectedDate": "2025-08-15"
  },
  "kpis": {
    "totalUnitSales": {
      "selected": { "value": 5, "period": "2025-08-15" },
      "prevDate": { "value": 4, "period": "2025-08-14" },
      "prevMonth": { "value": 6, "period": "2025-07-15" }
    },
    "totalSPK": {
      "selected": { "value": 12, "period": "2025-08-15" },
      "prevDate": { "value": 10, "period": "2025-08-14" },
      "prevMonth": { "value": 11, "period": "2025-07-15" }
    },
    "totalRevenue": {
      "selected": { "value": 85000000, "period": "2025-08-15" },
      "prevDate": { "value": 75000000, "period": "2025-08-14" },
      "prevMonth": { "value": 90000000, "period": "2025-07-15" }
    },
    "totalDO": {
      "selected": { "value": 4, "period": "2025-08-15" },
      "prevDate": { "value": 3, "period": "2025-08-14" },
      "prevMonth": { "value": 5, "period": "2025-07-15" }
    },
    "topModel": {
      "selected": { "name": "STARGAZER", "value": 2, "period": "2025-08-15" },
      "prevDate": { "name": "CRETA", "value": 2, "period": "2025-08-14" },
      "prevMonth": { "name": "STARGAZER", "value": 3, "period": "2025-07-15" }
    },
    "topBranch": {
      "selected": { "code": "0050", "value": 3, "period": "2025-08-15" },
      "prevDate": { "code": "0050", "value": 2, "period": "2025-08-14" },
      "prevMonth": { "code": "0050", "value": 4, "period": "2025-07-15" }
    }
  }
}

```

Response Structure Compare OFF

```

{
  "status": "success",
  "message": "Data retrieved successfully",
  "data": {
    "request": {
      "companyId": "sinar-galesong-mobilindo",
      "year": 2025,
      "month": "08",
      "branchId": "all-branch",
      "useCustomDate": false,
      "selectedDate": null
    },

```

```
"kpis": {
  "totalUnitSales": {
    "selected": { "value": 142, "period": "2025-08" }
  },
  "totalSPK": {
    "selected": { "value": 355, "period": "2025-08" }
  },
  "totalRevenue": {
    "selected": { "value": 1100000000, "period": "2025-08" }
  },
  "totalDO": {
    "selected": { "value": 138, "period": "2025-08" }
  },
  "topModel": {
    "selected": { "name": "STARGAZER", "value": 94, "period": "2025-08" }
  },
  "topBranch": {
    "selected": { "code": "0050", "value": 128, "period": "2025-08" }
  }
}
}
```

2. Sales Monthly Trend

Request Parameters

Parameter	Type	Required	Description	Example
year	Number	Yes	Tahun laporan	2025
month	String	No		null
branch	String	Yes	ID cabang atau "all-branch"	"0050", "all-branch"
compare	Boolean	Yes	Flag untuk data perbandingan	true, false

Data yang dibutuhkan:

Datasets

Current Year Dataset:

- label: "Tahun {YYYY}"
- data: Array[Number] - data penjualan per bulan
- Example: [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]

Response Structure Compare ON

```
{
  "salesMontlyTrend": {
```

```
"datasets": [
  {
    "label": "Tahun 2025",
    "data": [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]
  },
  {
    "label": "Tahun 2024",
    "data": [95, 88, 92, 105, 98, 115, 125, 140, 135, 128, 142, 155]
  }
]
```

Response Structure Compare OFF

```
{
  "salesMontlyTrend": {
    "datasets": [
      {
        "label": "Tahun 2025",
        "data": [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]
      }
    ]
  }
}
```

3. DO vs SPK Monthly Trend

Request Parameters

Parameter	Type	Required	Description	Example
year	Number	Yes	Tahun laporan	2025
month	String	No		null
branch	String	Yes	ID cabang atau "all-branch"	"0050", "all-branch"
compare	Boolean	No	Tidak ada Perbandingan	false

Data yang dibutuhkan:

Datasets

Current Year Dataset:

- label: "Tahun {YYYY}"
- data: Array[Number] - data DO dan SPK Per bulan
- Example: [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]

Response Structure Compare OFF

```
{
  "DOvsSPKMontlyTrend": {
    "datasets": [
      {
        "label": "Delivery Order",
        "data": [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]
      },
      {
        "label": "Surat Pemesanan Kendaraan",
        "data": [89, 94, 102, 88, 95, 110, 120, 142, 0, 0, 0, 0]
      }
    ]
  }
}
```

4. Sales by Model Distribution

Request Parameters

Parameter	Type	Required	Description	Example
year	Number	Conditional	Tahun laporan (required jika useCustomDate=false)	2025
month	String	Conditional	Bulan ("01"- "12") atau "all-month" (required jika useCustomDate=false)	"08", "all-month"
branch	String	No	ID cabang atau "all-branch"	"0050", "all-branch"
compare	Boolean	No	Include comparison data	true
useCustomDate	Boolean	No	Flag penggunaan custom date	true, false
selectedDate	String	Conditional	Tanggal spesifik (required jika useCustomDate=true)	"2025-08-15"

Current Period Data:

- **period:** Format "YYYY-MM" atau "YYYY-MM-DD"
- **label:** Format "Mmm YYYY" atau "DD Mmm YYYY"
- **items:** Array objek dengan struktur:
 - name (String): Nama model
 - value (Number): Jumlah unit terjual
 - percentage (Number): Persentase dari total penjualan

Data Perbandingan (jika compare=true):

- **Mode Month/Year:**
 - prevYear: Data bulan yang sama tahun sebelumnya
 - prevMonth: Data bulan sebelumnya dalam tahun yang sama
- **Mode Custom Date:**
 - prevDate: Data tanggal kemarin (D-1)
 - prevMonth: Data tanggal yang sama di bulan lalu

Response Structure Compare ON (Month Mode)

```
{
  "status": "success",
  "message": "Model distribution data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08",
      "label": "Agu 2025",
      "items": [
        { "name": "STARGAZER", "value": 45, "prevY": 30, "prevM": 40 },
        { "name": "CRETA", "value": 32, "prevY": 38, "prevM": 30 },
        { "name": "PALISADE", "value": 28, "prevY": 42, "prevM": 20 },
        { "name": "SANTA FE", "value": 22, "prevY": 18, "prevM": 35 },
        { "name": "IONIC 5", "value": 10, "prevY": 8, "prevM": 7 },
        { "name": "IONIC EV", "value": 5, "prevY": 4, "prevM": 3 }
      ]
    }
  }
}
```

Response Structure Compare ON (Custom Date Mode)

```
{
  "status": "success",
  "message": "Model distribution data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08-15",
      "label": "15 Agu 2025",
      "items": [
        { "name": "STARGAZER", "value": 2, "prevD": 1, "prevM": 3 },
        { "name": "CRETA", "value": 1, "prevD": 2, "prevM": 1 },
        { "name": "PALISADE", "value": 1, "prevD": 1, "prevM": 0 },
        { "name": "SANTA FE", "value": 1, "prevD": 0, "prevM": 2 },
        { "name": "IONIC 5", "value": 0, "prevD": 0, "prevM": 0 },
        { "name": "IONIC EV", "value": 0, "prevD": 0, "prevM": 0 }
      ]
    }
  }
}
```


Response Structure Compare OFF

```
{
  "status": "success",
  "message": "Model distribution data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08",
      "label": "Agu 2025",
      "items": [
        { "name": "STARGAZER", "value": 45 },
        { "name": "CRETA", "value": 32 },
        { "name": "PALISADE", "value": 28 },
        { "name": "SANTA FE", "value": 22 },
        { "name": "IONIC 5", "value": 10 },
        { "name": "IONIC EV", "value": 5 }
      ]
    }
  }
}
```

5. Sales by Branch Performance

Dataset Structure:

- **data:** Array[Number] - jumlah unit per cabang
- **Example:** [128, 95, 85, 70, 64]
- **urutannya:** ['PETTARANI', 'PALU', 'KENDARI', 'GORONTALO', 'PALOPO']

Request Parameters

Parameter	Type	Required	Description	Example
year	Number	Conditional	Tahun laporan (required jika useCustomDate=false)	2025
month	String	Conditional	Bulan ("01"- "12") atau "all-month" (required jika useCustomDate=false)	"08", "all-month"
compare	Boolean	Yes	Flag untuk data perbandingan	true, false
useCustomDate	Boolean	No	Flag penggunaan custom date	true, false
selectedDate	String	Conditional	Tanggal spesifik (required jika useCustomDate=true)	"2025-08-15"

Response Structure Compare ON (Month Mode)

```

{
  "status": "success",
  "message": "Branch performance data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08",
      "label": "Agu 2025",
      "datasets": [
        {
          "data": [128, 95, 85, 70, 64]
        }
      ]
    },
    "comparison": {
      "prevYear": {
        "period": "2024-08",
        "label": "Agu 2024",
        "datasets": [
          {
            "data": [125, 88, 78, 65, 58]
          }
        ]
      },
      "prevMonth": {
        "period": "2025-07",
        "label": "Jul 2025",
        "datasets": [
          {
            "data": [125, 92, 82, 68, 62]
          }
        ]
      }
    }
  }
}

```

Response Structure Compare ON (Custom Date Mode)

```

{
  "status": "success",
  "message": "Branch performance data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08-15",
      "label": "15 Agu 2025",
      "datasets": [
        {
          "data": [3, 2, 1, 1, 0]
        }
      ]
    }
  }
}

```

```
    },
    "comparison": {
      "prevDate": {
        "period": "2025-08-14",
        "label": "14 Agu 2025",
        "datasets": [
          {
            "data": [2, 1, 1, 0, 1]
          }
        ]
      },
      "prevMonth": {
        "period": "2025-07-15",
        "label": "15 Jul 2025",
        "datasets": [
          {
            "data": [4, 3, 2, 1, 1]
          }
        ]
      }
    }
  }
}
```

Response Structure Compare OFF

```
{
  "status": "success",
  "message": "Branch performance data retrieved successfully",
  "data": {
    "current": {
      "period": "2025-08",
      "label": "Agu 2025",
      "datasets": [
        {
          "data": [128, 95, 85, 70, 64]
        }
      ]
    }
  }
}
```

API Summary

Endpoints Overview

Filter Parameters:

- **Year:** Tahun laporan (required jika useCustomDate=false)

- **Month:** Bulan spesifik atau "all-month" (required untuk sebagian endpoint jika useCustomDate=false)
- **Branch:** Cabang spesifik atau "all-branch" (required untuk sebagian endpoint)
- **Compare:** Flag untuk menampilkan data perbandingan tahun/bulan sebelumnya
- **useCustomDate:** Flag untuk menggunakan mode custom date (default: false)
- **selectedDate:** Tanggal spesifik dalam format YYYY-MM-DD (required jika useCustomDate=true)

Response Structure:

- Semua endpoint menggunakan struktur response standar dengan status, message, dan data
- Ketika compare: true, data perbandingan akan menyertakan prevYear dan prevMonth (mode month/year) atau prevDate dan prevMonth (mode custom date)
- Ketika compare: false, hanya data periode yang dipilih yang dikembalikan
- Format periode disesuaikan dengan mode: "YYYY-MM" untuk monthly, "YYYY-MM-DD" untuk daily

Data Comparison Logic:

- **Mode Month/Year:**
 - prevYear: Data bulan yang sama tahun sebelumnya
 - prevMonth: Data bulan sebelumnya dalam tahun yang sama
- **Mode Custom Date (3 data points only):**
 - selected: Data tanggal yang dipilih
 - prevDate: Data tanggal kemarin (D-1)
 - prevMonth: Data tanggal yang sama di bulan lalu
 - **No prevYear comparison in custom date mode**
- Format periode: "YYYY-MM" atau "YYYY-MM-DD"

Error Handling:

- Jika useCustomDate=true tapi selectedDate kosong: Return error "selectedDate is required when useCustomDate is true"
- Jika useCustomDate=false tapi year/month kosong: Return error "year and month are required when useCustomDate is false"
- Jika selectedDate format salah: Return error "selectedDate must be in YYYY-MM-DD format"
- Jika selectedDate masa depan: Return error "selectedDate cannot be in the future"

Backend Implementation Notes:

1. Validasi parameter berdasarkan mode filter
2. Query database disesuaikan dengan granularitas data (monthly vs daily)
3. Logic perbandingan data disesuaikan dengan mode
4. Format response period disesuaikan dengan input
5. Handle edge cases untuk tanggal yang tidak ada di bulan sebelumnya