

Spesifikasi Teknik DUTA KAI

Host to Host Interconnection

Format Request

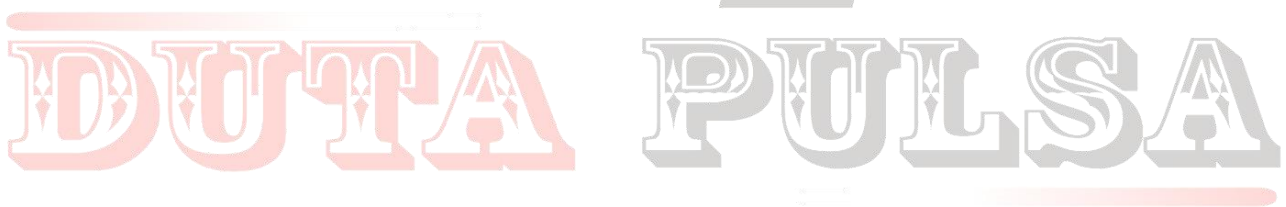
Format data request yang digunakan adalah XML dengan **parameter utama** sebagai berikut:

- username, userh2h yang terdaftar disistem DUTA KAI.
- command, perintah untuk mendapatkan informasi yang diinginkan
- datetime, format (YYYY-MM-DD HH:NN:SS), tanggal dan jam transaksi
- signature, MD5(CONCAT(username, command, datetime, passwordh2h))

Selain parameter utama, masing-masing *command* juga mensyaratkan beberapa parameter tambahan. Lebih lengkapnya dapat dilihat dalam keterangan masing-masing *command*.

Format Response

Format data Response yang diberikan berupa tipe data JSON.



JADWAL

Adalah fungsi untuk menampilkan daftar keberangkatan kereta api.

Request Parameter:

- Asal, kode stasiun keberangkatan
- Tujuan, kode stasiun kedatangan
- Tanggal, format (YYYY-MM-DD), tanggal keberangkatan

Response Parameter:

| NAMA | TIPE | KETERANGAN |
|----------|--------|--|
| err_code | string | Kode response |
| org | string | Kode stasiun keberangkatan |
| des | string | Kode stasiun kedatangan |
| dep_date | date | Tanggal keberangkatan |
| schedule | array | [no_kereta, nama_kereta, jam berangkat, jam tiba, [class]] |
| [class] | array | [subclass, sisa kursi, class, harga tiket dewasa, harga tiket anak-anak] |

Contoh format *XML Request JADWAL*

Cek jadwal perjalanan Kereta Api tanggal 1 Agustus 2013 Jurusan Stasiun Gambir - Bandung

XML REQUEST

```
<?xml version="1.0"?>
<duta_kai>
  <username>sarasan</username>
  <command>JADWAL</command>
  <asal>GMR</asal>
  <tujuan>BD</tujuan>
  <tanggal>2013-08-01</tanggal>
  <datetime>2013-07-24 04:10:09</datetime>
  <signature>f0fa99e5328f6c9cd701141bc521aadb</signature>
</duta_kai>
```

JSON RESPONSE

```
{ "err_code": "0", "org": "GMR", "des": "BD", "dep_date": "20130801",
"schedule": [ ["123", "DANTUL1", "0800", "1050", [ ["A", 180, "E", 50000, 40000, 0]]]] }
```

SEATMAP

Adalah fungsi untuk menampilkan daftar kursi yang tersedia disetiap gerbong pada sebuah keberangkatan kereta api.

Request Parameter:

- asal, kode stasiun keberangkatan
- tujuan, kode stasiun kedatangan
- tanggal, tanggal keberangkatan, format YYYY-MM-DD
- nokereta, nomor kereta, didapatkan melalui command JADWAL.

Response Parameter:

| NAMA | TIPE | KETERANGAN |
|----------|--------|--|
| err_code | string | Kode response |
| org | string | Kode stasiun keberangkatan |
| des | string | Kode stasiun kedatangan |
| train_no | string | Nomor kereta |
| dep_date | date | Tanggal keberangkatan |
| seat_map | array | [kode gerbong, nomor gerbong, [seat]] |
| [seat] | array | [baris, kolom, seat row, seat column, subclass, status (0:kursi kosong, 1:kursi terisi)] |

XML REQUEST

```
<duta_kai>
<command>SEATMAP</command>
<username>sarasan</username>
<asal>CN</asal>
<tujuan>YK</tujuan>
<tanggal>2013-09-01</tanggal>
<nokereta>98</nokereta>
<datetime>2013-07-24 04:28:45</datetime>
<signature>a323d7422e312df6df558c64429865b7</signature>
</duta_kai>
```

JSON RESPONSE

```
{ "err_code": "0", "org": "CN", "des": "YK", "train_no": "98", "dep_date":
"20130910", "seat_map": [
["BIS",1,[
[1,1,1,"A","E",0],[1,2,1,"B","E",0],[1,3,1,"","",0],[1,4,1,"C","",0],[1,5,1,"D"
,"",0],[2,1,2,"A","N",1],[2,2,2,"B","N",1],[2,3,2,"","",0],[2,4,2,"C","N",1],[2
,5,2,"D","N",1],[3,1,3,"A","N",1],[3,2,3,"B","N",1],[3,3,3,"","",0],[3,4,3,"C",
"N",1],[3,5,3,"D","N",0],[4,1,4,"A","K",0],[4,2,4,"B","K",0],[4,3,4,"","",0],[4
,4,4,"C","K",0],[4,5,4,"D","K",0],[5,1,5,"A","B",1],[5,2,5,"B","B",0],[5,3,5,""
,"",0],[5,4,5,"C","B",1],[5,5,5,"D","B",1],[6,1,6,"A","B",1],[6,2,6,"B","B",1],
[6,3,6,"","",0],[6,4,6,"C","B",0],[6,5,6,"D","B",0],[7,1,7,"A","B",0],[7,2,7,"B
","B",0],[7,3,7,"","",0],[7,4,7,"C","B",0],[7,5,7,"D","B",0],[8,1,8,"A","B",0],
[8,2,8,"B","B",0],[8,3,8,"","",0],[8,4,8,"C","B",0],[8,5,8,"D","B",0],[9,1,9,"A
```

","B",0],[9,2,9,"B","B",0],[9,3,9,"","",0],[9,4,9,"C","B",0],[9,5,9,"D","B",0],[10,1,10,"A","B",0],[10,2,10,"B","B",0],[10,3,10,"","",0],[10,4,10,"C","B",0],[10,5,10,"D","B",0],[11,1,11,"A","B",0],[11,2,11,"B","B",0],[11,3,11,"","",0],[11,4,11,"C","B",0],[11,5,11,"D","B",0],[12,1,12,"A","B",0],[12,2,12,"B","B",0],[12,3,12,"","",0],[12,4,12,"C","B",0],[12,5,12,"D","B",0],[13,1,13,"A","B",0],[13,2,13,"B","B",0],[13,3,13,"","",0],[13,4,13,"C","B",0],[13,5,13,"D","B",0],[14,1,14,"A","K",0],[14,2,14,"B","K",0],[14,3,14,"","",0],[14,4,14,"C","K",0],[14,5,14,"D","K",0],[15,1,15,"A","K",0],[15,2,15,"B","K",0],[15,3,15,"","",0],[15,4,15,"C","K",0],[15,5,15,"D","K",0],[16,1,16,"A","N",1],[16,2,16,"B","N",0],[16,3,16,"","",0],[16,4,16,"C","N",1],[16,5,16,"D","N",1],[17,1,17,"A","",0],[17,2,17,"B","",0],[17,3,17,"","",0],[17,4,17,"C","E",0],[17,5,17,"D","E",0]]],
["BIS",2,[
[1,1,1,"A","N",1],[1,2,1,"B","N",1],[1,3,1,"","",0],[1,4,1,"C","",0],[1,5,1,"D","",0],[2,1,2,"A","N",1],[2,2,2,"B","N",1],[2,3,2,"","",0],[2,4,2,"C","N",0],[2,5,2,"D","N",0],[3,1,3,"A","K",0],[3,2,3,"B","K",0],[3,3,3,"","",0],[3,4,3,"C","K",0],[3,5,3,"D","K",0],[4,1,4,"A","B",0],[4,2,4,"B","B",0],[4,3,4,"","",0],[4,4,4,"C","B",0],[4,5,4,"D","B",0],[5,1,5,"A","B",0],[5,2,5,"B","B",0],[5,3,5,"","",0],[5,4,5,"C","B",0],[5,5,5,"D","B",0],[6,1,6,"A","B",0],[6,2,6,"B","B",0],[6,3,6,"","",0],[6,4,6,"C","B",0],[6,5,6,"D","B",0],[7,1,7,"A","B",0],[7,2,7,"B","B",0],[7,3,7,"","",0],[7,4,7,"C","B",0],[7,5,7,"D","B",0],[8,1,8,"A","B",0],[8,2,8,"B","B",0],[8,3,8,"","",0],[8,4,8,"C","B",0],[8,5,8,"D","B",0],[9,1,9,"A","E",0],[9,2,9,"B","E",0],[9,3,9,"","",0],[9,4,9,"C","E",0],[9,5,9,"D","E",0],[10,1,10,"A","B",0],[10,2,10,"B","B",0],[10,3,10,"","",0],[10,4,10,"C","B",0],[10,5,10,"D","B",0],[11,1,11,"A","B",0],[11,2,11,"B","B",0],[11,3,11,"","",0],[11,4,11,"C","B",0],[11,5,11,"D","B",0],[12,1,12,"A","B",0],[12,2,12,"B","B",0],[12,3,12,"","",0],[12,4,12,"C","B",0],[12,5,12,"D","B",0],[13,1,13,"A","B",0],[13,2,13,"B","B",0],[13,3,13,"","",0],[13,4,13,"C","B",0],[13,5,13,"D","B",0],[14,1,14,"A","K",0],[14,2,14,"B","K",0],[14,3,14,"","",0],[14,4,14,"C","K",0],[14,5,14,"D","K",0],[15,1,15,"A","K",0],[15,2,15,"B","K",0],[15,3,15,"","",0],[15,4,15,"C","K",0],[15,5,15,"D","K",0],[16,1,16,"A","N",0],[16,2,16,"B","N",0],[16,3,16,"","",0],[16,4,16,"C","N",0],[16,5,16,"D","N",0],[17,1,17,"A","",0],[17,2,17,"B","",0],[17,3,17,"","",0],[17,4,17,"C","N",0],[17,5,17,"D","N",0]]],
["BIS",3,[
[1,1,1,"A","N",0],[1,2,1,"B","N",0],[1,3,1,"","",0],[1,4,1,"C","",0],[1,5,1,"D","",0],[2,1,2,"A","N",1],[2,2,2,"B","N",0],[2,3,2,"","",0],[2,4,2,"C","N",1],[2,5,2,"D","N",1],[3,1,3,"A","K",0],[3,2,3,"B","K",0],[3,3,3,"","",0],[3,4,3,"C","K",0],[3,5,3,"D","K",0],[4,1,4,"A","B",0],[4,2,4,"B","B",0],[4,3,4,"","",0],[4,4,4,"C","B",0],[4,5,4,"D","B",0],[5,1,5,"A","B",0],[5,2,5,"B","B",0],[5,3,5,"","",0],[5,4,5,"C","B",0],[5,5,5,"D","B",0],[6,1,6,"A","B",0],[6,2,6,"B","B",0],[6,3,6,"","",0],[6,4,6,"C","B",0],[6,5,6,"D","B",0],[7,1,7,"A","B",0],[7,2,7,"B","B",0],[7,3,7,"","",0],[7,4,7,"C","B",0],[7,5,7,"D","B",0],[8,1,8,"A","B",1],[8,2,8,"B","B",0],[8,3,8,"","",0],[8,4,8,"C","B",1],[8,5,8,"D","B",1],[9,1,9,"A","B",1],[9,2,9,"B","B",1],[9,3,9,"","",0],[9,4,9,"C","B",0],[9,5,9,"D","B",0],[10,1,10,"A","B",1],[10,2,10,"B","B",1],[10,3,10,"","",0],[10,4,10,"C","B",0],[10,5,10,"D","B",0],[11,1,11,"A","B",0],[11,2,11,"B","B",0],[11,3,11,"","",0],[11,4,11,"C","B",0],[11,5,11,"D","B",0],[12,1,12,"A","B",0],[12,2,12,"B","B",0],[12,3,12,"","",0],[12,4,12,"C","B",0],[12,5,12,"D","B",0],[13,1,13,"A","B",0],[13,2,13,"B","B",0],[13,3,13,"","",0],[13,4,13,"C","B",0],[13,5,13,"D","B",0],[14,1,14,"A","K",0],[14,2,14,"B","K",0],[14,3,14,"","",0],[14,4,14,"C","K",0],[14,5,14,"D","K",0],[15,1,15,"A","K",0],[15,2,15,"B","K",0],[15,3,15,"","",0],[15,4,15,"C","K",0],[15,5,15,"D","K",0],[16,1,16,"A","N",0],[16,2,16,"B","N",0],[16,3,16,"","",0],[16,4,16,"C","N",0],[16,5,16,"D","N",1],[17,1,17,"A","",0],[17,2,17,"B","",0],[17,3,17,"","",0],[17,4,17,"C","N",0],[17,5,17,"D","N",0]]] }

BOOK

Request Parameter:

- asal, kode stasiun keberangkatan
- tujuan, kode stasiun kedatangan
- tanggal, tanggal keberangkatan, format YYYY-MM-DD
- NoKereta, nomor kereta, didapatkan melalui command JADWAL.
- NmKereta, nama kereta, didapatkan melalui command JADWAL.
- Class, Kelas kereta yang dipilih (B:BISNIS, E:EKSEKUTIF, K:EKONOMI)
- SubClass, SubKelas kereta yang dipilih
- Pemesan, Nama Pemesan tiket
- Jml_Dewasa, Jumlah penumpang dewasa (usia >= 12 tahun)
- Jml_Anak, Jumlah Penumpang anak-anak (usia < 12 tahun)
- Pax
 - tipe, tipe penumpang (ADULT/CHILD)
 - nama, nama penumpang sesuai Kartu Identitas yang digunakan (KTP/SIM)
 - tgllahir, tanggal lahir penumpang sesuai Kartu Identitas yang digunakan (KTP/SIM)
 - nohp, nomor mobile phone penumpang (wajib jika tipe penumpang adalah ADULT)
 - noid, nomor identitas penumpang (wajib jika tipe penumpang adalah ADULT)

Request Parameter opsional

- pilih, Pilihan untuk metode pemilihan kursi (manual: pilih kursi dilakukan manual)
- gerbong, diperlukan jika param *pilih* bernilai *manual*. Nilai parameter gerbong adalah penggabungan nama gerbong dan nomor gerbong dengan menggunakan tanda - sebagai tanda hubung. Nama dan nomor gerbong didapatkan menggunakan fungsi COMMAND. Contoh nilai parameter gerbong : BIS-1, EKS-2, atau K3AC-3.
- kursi, nomor kursi yang dipilih (gabungan antara row seat dan col seat). Misal 1A,1B dll. Jika jumlah gabungan penumpang (dewasa dan anak) lebih dari 1 maka antara nomor kursi 1 dan lainnya dipisahkan dengan tanda koma (,).

Response Parameter:

| NAMA | TIPE | KETERANGAN |
|-----------|--------|---|
| err_code | string | Kode response |
| kode_book | string | Kode BOOKING |
| kode_num | string | Nomor BOOKING |
| nokereta | string | Nomor Kereta |
| nmkereta | string | Nama Kereta |
| status | string | Status booking (BOOKED jika booking sukses) |

| | | |
|----------|--------|--|
| class | string | Class yang terpilih (E:EKSEKUTIF, B:BISNIS, K:EKONOMI) |
| subclass | string | SubClass terpilih |
| gerbong | string | Kode gerbong |
| kursi | string | Nomor kursi terpilih |
| harga | string | Total harga tiket |
| admfee | string | Admin fee yang dikenakan |

XML REQUEST

Contoh untuk BOOKING, 1 Penumpang Dewasa, 1 Penumpang Anak

```
<duta_kai>
<command>BOOK</command>
<username>sarasan</username>
<asal>GMR</asal>
<tujuan>BD</tujuan>
<tanggal>2013-08-01</tanggal>
<nokereta>123</nokereta>
<nmkereta>DANTUL1</nmkereta>
<class>E</class>
<subclass>A</subclass>
<jml_dewasa>1</jml_dewasa>
<jml_anak>1</jml_anak>
<pemesan>Joko Saraswanto</pemesan>
<pax>
  <tipe>ADULT</tipe>
  <nama>Joko Saraswanto</nama>
  <tgllahir>1978-11-20</tgllahir>
  <nohp>0818337744</nohp>
  <noid>3515022011780002</noid>
</pax>
<pax>
  <tipe>CHILD</tipe>
  <nama>Umar Hamzah</nama>
  <tgllahir>2002-11-21</tgllahir>
</pax>
<datetime>2013-07-24 04:28:45</datetime>
<signature>a323d7422e312df6df558c64429865b7</signature>
</duta_kai>
```

JSON RESPONSE

```
{ "err_code": "0", "kode_book": "D6GCKS", "kode_num": "9990925204106",
  "nokereta": "123", "nmkereta": "DANTUL1", "status": "BOOKED", "class": "E",
  "subclass": "A", "gerbong": "EKSE-1", "kursi": "7C,7D", "harga": "90000",
  "admfee": "4500" }
```

INFO

Request Parameter

- kodebook, kode booking (diperoleh ketika proses booking berhasil)

Response Parameter:

| NAMA | TIPE | KETERANGAN |
|-----------|--------|--|
| err_code | string | Kode response |
| kode_book | string | Kode BOOKING |
| kode_num | string | Nomor BOOKING |
| nokereta | string | Nomor Kereta |
| nmkereta | string | Nama Kereta |
| status | string | BOOKED, CANCELED, ISSUED |
| class | string | Class yang terpilih (E:EKSEKUTIF, B:BISNIS, K:EKONOMI) |
| subclass | string | SubClass terpilih |
| gerbong | string | Kode gerbong |
| kursi | string | Nomor kursi terpilih |
| harga | string | Total harga tiket |
| admfee | string | Admin fee yang dikenakan |

XML REQUEST

```
<?xml version="1.0"?>
<duta_kai>
<command>INFO</command>
<username>sarasan</username>
<kodebook>D6GCKS</kodebook>
<datetime>2013-07-24 04:37:15</datetime>
<signature>85fd348ad3f29992c85532efb7502b34</signature>
</duta_kai>
```

JSON RESPONSE

```
{"err_code": "0", "kode_book": "D6GCKS", "kode_num": "9990925204106",
"nokereta": "123", "nmkereta": "DANTUL1", "status": "BOOKED", "class": "E",
"subclass": "A", "gerbong": "EKSE-1", "kursi": "7C,7D", "harga": "90000",
"admfee": "4500"}
```

CANCEL_BOOKING

Request Parameter

- kodebook, kode booking (diperoleh ketika proses booking berhasil)
- reason, alasan pembatalan booking.

Response Parameter

| NAMA | TIPE | KETERANGAN |
|-----------|--------|---|
| err_code | string | Kode response |
| kode_book | string | Kode BOOKING |
| kode_num | string | Nomor BOOKING |
| nokereta | string | Nomor Kereta |
| nmkereta | string | Nama Kereta |
| status | string | CANCELED (jika proses <i>cancel_booking</i> berhasil) |

XML REQUEST

```
<?xml version="1.0"?>
<duta_kai>
<username>sarasan</username>
<command>CANCEL_BOOKING</command>
<kodebook>D6GCKS</kodebook>
<reason>Penumpang pindah jadwal</reason>
<datetime>2013-07-24 04:46:12</datetime>
<signature>ffc768597d705794c7082138470a70f0</signature>
</duta_kai>
```

JSON RESPONSE

```
{"err_code": "0", "kode_book": "D6GCKS", "kode_num": "9990925204106",
"nokereta": "123", "nmkereta": "DANTUL1", "status": "CANCELED"}
```


PAYMENT

Request Parameter

- kodebook, kode booking (diperoleh ketika proses booking berhasil)

Response Parameter

| NAMA | TIPE | KETERANGAN |
|-----------|--------|--|
| err_code | string | Kode response |
| kode_book | string | Kode BOOKING |
| kode_num | string | Nomor BOOKING |
| nokereta | string | Nomor Kereta |
| nmkereta | string | Nama Kereta |
| status | string | ISSUED (jika proses <i>payment</i> berhasil) |
| class | string | Class yang terpilih (E:EKSEKUTIF, B:BISNIS, K:EKONOMI) |
| subclass | string | SubClass terpilih |
| gerbong | string | Kode gerbong |
| kursi | string | Nomor kursi terpilih |
| harga | string | Total harga tiket |
| admfee | string | Admin fee yang dikenakan |

XML REQUEST

```
<?xml version="1.0"?>
<duta_kai>
<username>sarasan</username>
<command>PAYMENT</command>
<jmlbayar>94500</jmlbayar>
<kodebook>SYAK9B</kodebook>
<datetime>2013-07-24 05:02:21</datetime>
<signature>9a44f4174928ac088f5f2081abc56f9f</signature>
</duta_kai>
```

JSON RESPONSE

```
{"err_code": "0", "kode_book": "D6GCKS", "kode_num": "9990925204106",
"nokereta": "123", "nmkereta": "DANTUL1", "status": "ISSUED", "class": "E",
"subclass": "A", "gerbong": "EKSE-1", "kursi": "7C,7D", "harga": "90000",
"admfee": "4500"}
```