SAS

Crew portal Bid 5 Functional Reference

Document version: Rev C

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Document Change Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Description | Author | Date |
| 0.1  0.2 | First draft  Added description for trip filter and formatting | Christian Holth  Daniel Eriksson | 2012-01-20  2012-02-09 |
| 0.3 | Updated requests | Helene Davidsson | 2012-02-28 |
| 0.4 | Added description for bid filtering | Daniel Eriksson | 2012-03-01 |
| 0.5 | Updated validators for requests | Helene Davidsson | 2012-03-21 |
| 0.6 | Updated bid dialog for requests | Helene Davidsson | 2012-03-27 |
| 0.7 | Update to bids, added bid period examples, validation information, data feed, authentication | Christian Holth Österlund | 2012-08-07 |
| 0.8 | Update which bids are available for each group | Christian Holth Österlund | 2012-08-11 |
| 0.9 | Update availability for F4 weekend off | Christian Holth Österlund | 2012-08-19 |
| Rev A | Update to how and what attribute is used for homebase trip filter  All work bids now available for FD LH  Removed fixed contract from F4 weekend off | Christian Holth Österlund | 2012-11-01 |
| Rev B | Added vVcation | Christian Holth Österlund | 2013-04-12 |
| Rev C | Added Transition | Christian Holth Österlund | 2013-04-23 |

# Introduction

This document specifies the Bid 5 implementation for SAS. Bid 5 is built around existing core functionality described in CrewPortal\_5\_2\_DG\_A.pdf and this document describes the SAS-specific changes. Unless stated in this document, standard functionality will be used.

Chapter 3 contains a list of all bid types available, with a brief description of the bid and details regarding availability.

# SAS specific set up

## Crew groups

|  |  |
| --- | --- |
| Flight deck | Cabin |
| FD LH  *(Flight deck long haul)* | **CC SKD FG**  *(Cabin crew, Denmark, Fixed contract)* |
| FD SH FG  *(Flight deck short haul, fixed contract)* | **CC SKD VG**  *(Cabin crew, Denmark, Variable contract)* |
| FD SH VG  *(Flight deck short haul, variable contract)* | **CC SKN FG**  *(Cabin crew, Norway, Fixed contract)* |
|  | **CC SKN VG**  *(Cabin crew, Norway, Variable contract)* |
|  | **CC SKS FG**  *(Cabin crew, Sweden, Fixed contract)* |
|  | **CC SKS VG**  *(Cabin crew, Sweden, Variable contract)* |

## Bid period

Bid window/period example for each group.

* **Standard** – PBS period
* **A\_FS** – FS request period (see [FS requests](#_FS_requests))
* **B\_F7S** – F7S request period (see [F7S requests](#_F7S_requests))

### FD LH

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-05-26 00:00 | 2012-06-25 23:59 | 2012-08-06 00:00 | 2012-11-05 23:59 |
| A\_FS | 2012-06-26 00:00 | 2012-07-25 23:59 | 2012-09-06 00:00 | 2012-12-05 23:59 |

### FD SH FG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-05-26 00:00 | 2012-06-25 23:59 | 2012-08-06 00:00 | 2013-02-05 23:59 |
| A\_FS | 2012-06-26 00:00 | 2012-07-25 23:59 | 2012-09-06 00:00 | 2013-03-05 23:59 |

### FD SH VG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-05-26 00:00 | 2012-06-25 23:59 | 2012-08-06 00:00 | 2013-02-05 23:59 |
| A\_FS | 2012-06-26 00:00 | 2012-07-25 23:59 | 2012-09-06 00:00 | 2013-03-05 23:59 |

### CC SKD FG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-06 00:00 | 2013-07-05 23:59 |
| A\_FS | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-06 00:00 | 2013-08-05 23:59 |
| B\_F7S | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-06 00:00 | 2013-08-05 23:59 |
| B\_F7S | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-06 00:00 | 2013-09-05 23:59 |

### CC SKD VG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-06 00:00 | 2013-07-05 23:59 |
| A\_FS | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-06 00:00 | 2013-08-05 23:59 |
| B\_F7S | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-06 00:00 | 2013-08-05 23:59 |
| B\_F7S | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-06 00:00 | 2013-09-05 23:59 |

### CC SKN FG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-02 00:00 | 2012-07-01 23:59 | 2012-08-06 00:00 | 2013-06-05 23:59 |
| A\_FS | 2012-07-02 00:00 | 2012-08-01 23:59 | 2012-09-06 00:00 | 2013-07-05 23:59 |
| B\_F7S | 2012-06-02 00:00 | 2012-07-01 23:59 | 2012-08-06 00:00 | 2013-03-05 23:59 |
| B\_F7S | 2012-07-02 00:00 | 2012-08-01 23:59 | 2012-09-06 00:00 | 2013-04-05 23:59 |

### CC SKN VG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-02 00:00 | 2012-07-01 23:59 | 2012-08-06 00:00 | 2013-06-05 23:59 |
| A\_FS | 2012-07-02 00:00 | 2012-08-01 23:59 | 2012-09-06 00:00 | 2013-07-05 23:59 |
| B\_F7S | 2012-06-02 00:00 | 2012-07-01 23:59 | 2012-08-06 00:00 | 2013-03-05 23:59 |
| B\_F7S | 2012-07-02 00:00 | 2012-08-01 23:59 | 2012-09-06 00:00 | 2013-04-05 23:59 |

### CC SKS FG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-09-01 00:00 | 2012-11-30 23:59 |
| A\_FS | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-10-01 00:00 | 2012-12-31 23:59 |
| B\_F7S | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2013-07-31 23:59 |
| B\_F7S | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2013-08-31 23:59 |

### CC SKS VG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | Window open | Window close | Period start | Period end |
| standard | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2012-08-31 23:59 |
| standard | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2012-09-30 23:59 |
| A\_FS | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-09-01 00:00 | 2012-11-30 23:59 |
| A\_FS | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-10-01 00:00 | 2012-12-31 23:59 |
| B\_F7S | 2012-06-06 00:00 | 2012-07-05 23:59 | 2012-08-01 00:00 | 2013-07-31 23:59 |
| B\_F7S | 2012-07-06 00:00 | 2012-08-05 23:59 | 2012-09-01 00:00 | 2013-08-31 23:59 |

## Crew qualifications

Qualifications are exported from CMS and read by Jeppesen Crew portal through the crew data import. Available qualifications are:

|  |
| --- |
| Qualification |
| 38 |
| Q4 |
| CJ |
| 28 |
| 37 |
| 36 |
| AL |
| A3 |
| A2 |
| A4 |
| FF |
| 91 |
| 90 |
| M8 |
| M0 |
| CONTRACTVG \* |

\* CONTRACTVG is only used by Jeppesen Crew portal to keep track of contract changes between fixed and variable contract. The CONTRACTVG qualification is when validating FS requests (see [FS request is allowed validator](#_FS_request_is) and [Data sources](#_Data_sources)).

## Crew attributes

Attributes are exported from CMS and read by Jeppesen Crew portal through the crew data import. Available attributes are:

|  |
| --- |
| Attributes |
| region |
| base |
| station |
| crewrank |
| titlerank |
| contracttype |

# PBS

## Bid types

### Check in

Crew can specify the desired Check in at pairing start / home base.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the field starttime on trip level in the trip XML and show all trips starting within the specified interval.

#### Availability

General, Weekly, Dated

#### Properties

##### Weekday

Crew can select if bid only should be valid for a specific weekday or any day.

##### Time

Crew can enter a time range with a From and a To value with two dropdowns.

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **From value** | 00:00 | 23:30 | 0:30 |
| **To value** | 00:30 | 23:59 | 0:30 |

##### Options

Dropdown selection

|  |  |
| --- | --- |
| **Input** | **Possible values** |
| **Day option** | Always  After Day Off |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility.

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

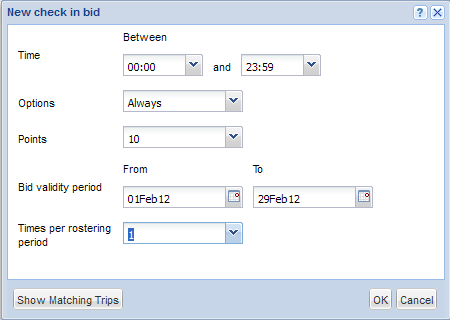
* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).

#### Export

"10034",1,0,10,"Combination",1,2,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",1,1,0,"CheckIn",0,0,00:30,06:30,01Jan1986 00:00,01Jan1986 00:00,"",false,

#### IB5 screenshot



### Check out

Crew can specify the desired Check out at pairing end / home base.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the field endtime on trip level in the trip XML and show all trips ending within the specified interval.

#### Availability

General, Weekly, Dated

#### Properties

##### Weekday

Crew can select if bid only should be valid for a specific weekday or any day.

##### Time

Crew can enter a time range with a From and a To value with two dropdowns.

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **From value** | 00:00 | 23:59 | 0:30 |
| **To value** | 00:30 | 23:59 | 0:30 |

##### Options

Dropdown selection

|  |  |
| --- | --- |
| **Input** | **Possible values** |
| **Day option** | Always  Before Day Off |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

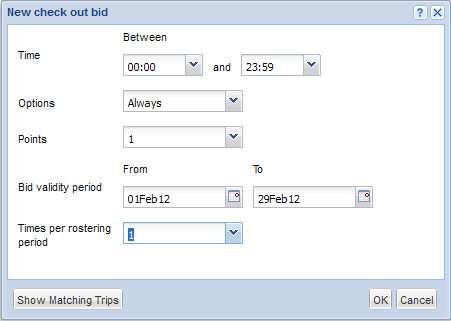
* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))

#### Export

"10034",2,0,10,"Combination",1,3,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",2,1,0,"CheckOut",0,0,20:30,23:59,01Jan1986 00:00,01Jan1986 00:00,"",false,

#### IB5 Screenshot



### F4-Weekend off

Crew can request a F4 Week-end off. End time differs depending on crew group (see [Validity period](#_Validity_period)).

#### Groups

* FD LH
* FD SH VG
* CC SKD VG
* CC SKN VG
* CC SKS VG

#### Availability

General, Dated

#### Properties

##### Validity period

Non-editable, set to the date of the nearest weekend from Friday XX:00 to Monday YY:00.

SAS has different periods in PBS today – the periods are controlled by Legality.

The periods for CC are:

SKD, SKS SKN:       Friday 1600 – Monday 0600

The periods for FD

SKD, SKS, SKN except CRJ are:

Friday 16:00 – Monday 08:00

Periods for FD CRJ are

Friday 16:00 – Monday 06:30

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

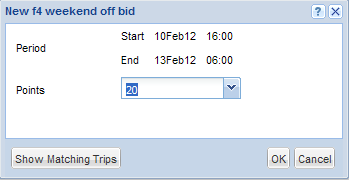
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))

#### Export

"10034",5,0,10,"TimeOff",0,99,0:00,0:00,02Dec2011 16:00,05Dec2011 06:00,"F4",false,

#### IB5 Screenshot



### Pairing Length

Use this bid to ask for pairings for a certain length.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the field length on trip level in the trip XML and show all trips matching the selected range or interval.

#### Availability

General

#### Properties

##### Days per pairing

Dropdown(s) with number of days

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End Value** | **Increment** |
| **Minimum** | 1 | 8 | 1 |
| **Maximum** | 1 | 8 | 1 |
| **Exactly** | 1 | 8 | 1 |
| **Between**  **(Two dropdowns)** | 1 | 8 | 1 |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

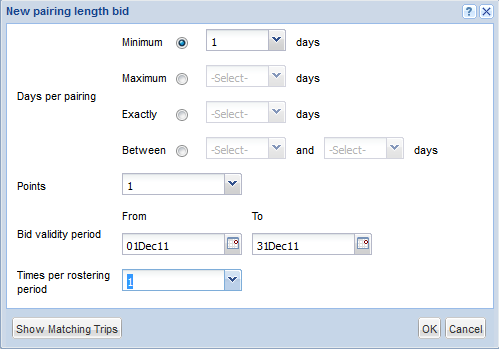
* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))
* Pairing length is not greater than validity period length (see [Pairing length validator](#_Pairing_length_validator))

#### Export

"10034",8,0,10,"Combination",1,3,0:00,0:00,01Dec2011 00:00,31Dec2035 23:59,"Flight",false,

"10034",8,1,0,"DaysPerTrip",3,4,0:00,0:00,01Jan1986 00:00,01Jan1986 00:00,"",false,

#### IB5 Screenshot



### Compensation days

Crew can request different types of compensation days. Some options are only available for certain crew groups.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Availability

Genera, Dated

#### Properties

##### Type of day

Dropdown with six options.

|  |  |  |
| --- | --- | --- |
| Input | Possible values | Description |
| Type of day | F3 | Compensated day off |
|  | F7S | Guaranteed F7-day |
|  | F0 | C/A: Compensation for overtime |
|  | F31 | Compensated day off, NOT entitled to additional days |
|  | F33 | Compensated day off |
|  | F35 | Compensated day off in conx with 'Frtroendemannavtal C/A' |
|  | F3S | Guaranteed compensation day |

|  |  |
| --- | --- |
| **Input** | **Possible values** |
| **Type of day** | F3  F7S  F0  F31  F33  F35  F3S |

##### From

Date picker

##### Period

Dropdown with the number of days

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Period** | 1 | 5 | 1 |

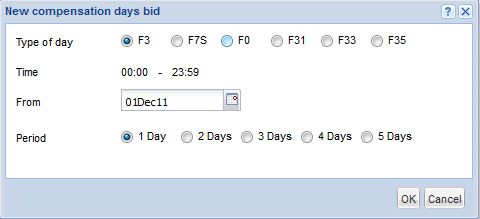
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))

#### Export

"10034",4,0,0,"TimeOff",0,99,0:00,0:00,01Dec2011 00:00,02Dec2011 23:59,"F0",false,

#### IB5 Screenshot



### Leg Duration

Crew can request pairings containing legs of a certain number of hours.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the field’s startdate, starttime, enddate, endtime on activity level in the trip XML and accept all trips containing an activity with minimum or maximum the specified duration.

#### Availability

General

#### Properties

##### Leg duration

Dropdown with number of hours

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End Value** | **Increment** |
| **Minimum** | 0:30 | 5:00 | 0:30 |
| **Maximum** | 0:30 | 5:00 | 0:30 |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

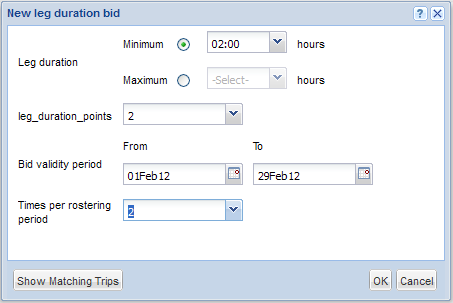
* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))

#### Export

"10034",7,0,3,"Combination",1,2,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",7,1,0,"LegDuration",0,0,00:00,01:00,01Jan1986 00:00,01Jan1986 00:00,"",false,

#### IB5 screenshot



### Stop

Crew can request pairings that have a stop at a certain or any destination with a specific duration.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

This filter will match against the field layovers on trip level, the field’s nighstop and resttime on duty level and the field’s endstation and cnxtime on activity level in the trip XML. All trips matching the selected values will be accepted.

#### Availability

General, Dated

#### Properties

##### Destination

Dropdown

|  |  |
| --- | --- |
| **Input** | **Possible values** |
| **Destination** | List of all available destination stations |

##### Stop type

Dropdown

|  |  |
| --- | --- |
| **Input** | **Possible values** |
| **Stop type** | Any stop  Night Stop  Ground Stop |

##### Stop Length

Dropdown(s) with number of hours

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End Value** | **Increment** |
| **Minimum** | 0:15 | 100:00 | 0:15 up to 4:00  1:00 from 4:00 to 48:00  10:00 from 50:00 to 100:00 |
| **Maximum** | 0:15 | 100:00 | 0:15 up to 4:00  1:00 from 4:00 to 48:00  10:00 from 50:00 to 100:00 |
| **Between**  **(Two dropdowns)** | 0:15 | 100:00 | 0:15 up to 4:00  1:00 from 4:00 to 48:00  10:00 from 50:00 to 100:00 |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

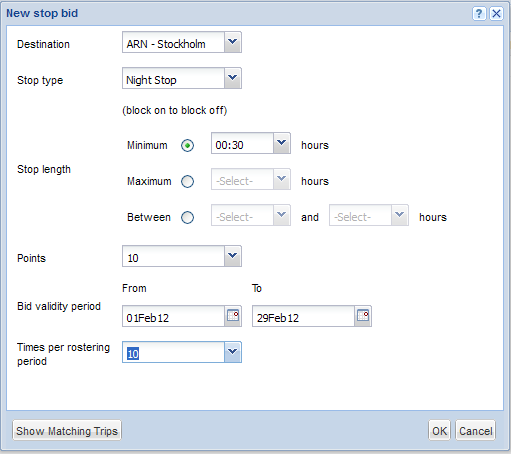
* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).
* Stop length is not greater than validity period length (see [Stop length validator](#_Stop_length_validator)).

#### Export

"10034",9,0,20,"Combination",1,11,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",9,1,0,"Stop",2,0,05:00,301:00,01Jan1986 00:00,01Jan1986 00:00,"ARN",false,

#### IB5 Screenshot



### Consecutive Days at Work

Crew can request a consecutive number of days at work.

The bid is considered granted if you work the given number of days in a row within the bid validity period.

#### Groups

* FD LH
* FD SH VG
* CC SKD VG
* CC SKN VG
* CC SKS VG

#### Availability

General

#### Properties

##### Consecutive days at work

Drop down with number of days

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Consecutive days** | 1 | 10 | 1 |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

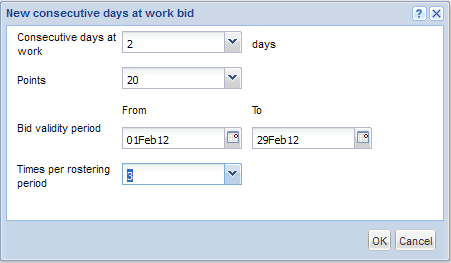
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))
* The number of consecutive days are not greater than the number of days between the start and end of the validity period (see [Number of consecutive days at work validator](#_Number_of_consecutive))

#### Export

"99999",4,0,10,"ConsecutiveWork",2,2,0:00,0:00,26Feb2012 00:00,31Dec2035 23:59,"",false,

#### IB5 Screenshot



### Consecutive Days Off

Crew can request a consecutive number of days off.

#### Groups

* FD LH
* FD SH VG
* CC SKD VG
* CC SKN VG
* CC SKS VG

#### Availability

General

#### Properties

##### Consecutive days off

Drop down with number of days

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Consecutive days** | 1 | 10 | 1 |

##### Departing airport

Dropdown with available departure airports

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

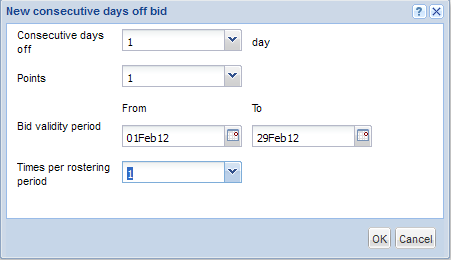
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))
* The number of consecutive days are not greater than the number of days between the start and end of the validity period (see [Number of consecutive days off validator](#_Number_of_consecutive_1))

#### Export

"99999",5,0,20,"ConsecutiveOff",3,4,0:00,0:00,26Feb2012 00:00,31Dec2035 23:59,"",false,

#### IB5 Screenshot



### Flight

Crew can request pairings containing a certain flight.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the field number on activity level in the trip XML and show all trips containing an activity that matches the flight number.

#### Availability

General, Dated, Weekly

#### Properties

##### Weekday

Crew can select if bid only should be valid for a specific weekday or any day.

##### Flight

Text field with requested flight number. A checkbox for charter flights (only available for CC SKS crew).

##### Departing airport

Dropdown with available departure airports

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid validity period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).

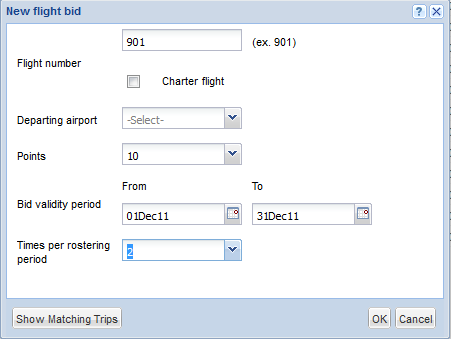
#### Export

"10034",6,0,20,"Combination",2,2,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",6,1,0,"FlightId",0,0,0:00,0:00,01Jan1986 00:00,01Jan1986 00:00,"Charter",false,

"10034",6,2,0,"DepStation",0,0,0:00,0:00,01Jan1986 00:00,01Jan1986 00:00,"ATH",false,

#### IB5 Screenshot



### Time Off

Crew can ask for time off at your home base.

#### Groups

* FD LH
* FD SH VG
* CC SKD VG
* CC SKN VG
* CC SKS VG

#### Availability

General, Weekly, Dated

#### Properties

##### Days of week

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Start day** | Monday | Sunday |  |
| **Start time** | 0:00 | 23:00 | 1:00 |
| **End day** | Monday | Sunday |  |
| **End time** | 1:00 | 23:59 | 1:00 |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

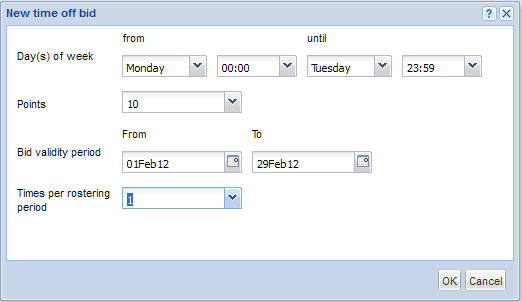
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).
* Selected weekdays are within the selected validity period (see [Time off – Selected weekdays inside validity period](#_Time_off_–)).

#### Export

"99999",1,0,20,"TimeOff",0,3,56:0,94:0,13Dec2011 00:00,31Dec2035 23:59,"",false,

#### IB5 Screenshot



### String of Days Off

Crew can request a string of days off. Crew need choose whether the start date or end date is most important for them.

#### Groups

* FD LH
* FD SH VG
* CC SKD VG
* CC SKN VG
* CC SKS VG

#### Availability

General, Dated

#### Properties

##### Bid Validity Period

Validity period with UFN possibility

##### Most important

Dropdown with two options, dynamically updated with the start and end date from the bid validity period.

|  |  |
| --- | --- |
| **Input** | **Options** |
| **Most important** | Validity Period Start Date  Validity Period End Date |

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

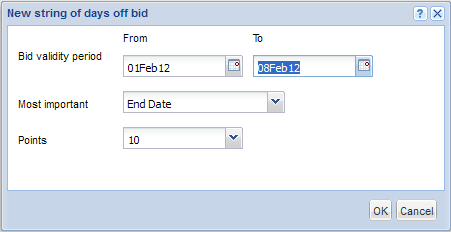
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator))

#### Export

"99999",2,0,10,"StringDaysOff",0,0,0:00,0:00,01Dec2011 00:00,03Dec2011 23:59,"",01Dec11,

#### IB5 Screenshot



### Last Minute LOA

Crew can bid for last minute Leave of absence (LOA).

Although registered in InterBids these bids are not used by Crew Rostering as this bid is handled manually by Crew Planning. No bid points can be assigned.

#### Groups

* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Availability

General, Dated

#### Properties

##### Bid Validity Period

Validity period with UFN possibility

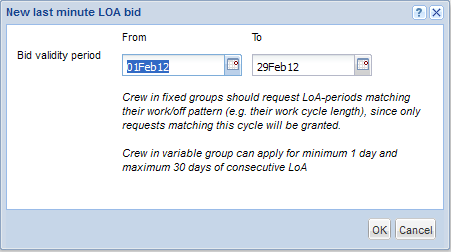
#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).

#### Export

"99999",7,0,0,"TimeOff",0,99,0:00,0:00,26Feb2012 00:00,31Dec2035 23:59,"LA42",false,

#### IB5 Screenshot



### Pairing Combination

Crew can bid for a combination of bids.

#### Groups

* FD LH
* FD SH FG
* FD SH VG
* CC SKD FG
* CC SKD VG
* CC SKN FG
* CC SKN VG
* CC SKS FG
* CC SKS VG

#### Filtering

Filtering will match against the boundaries specified in “sub-bids”.

#### Availability

General

#### Bid types

The Pairing Combination is a combination bid that contains the following “sub-bids”:

* Check-in
* Check-out
* Stop
* Pairing Length

#### Properties

##### Points

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Points** | 1 | 200 | 10 |

##### Bid Validity Period

Validity period with UFN possibility

##### Times per rostering period

Dropdown selection

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Start value** | **End value** | **Increment** |
| **Time** | 1 | 25  + extra option “Unlimited” | 1 |

#### Validation

* The start of a validity period of new bids is validated to be within the bidding period. (see [Bid start validator](#_Bid_start_validator)).

#### Export

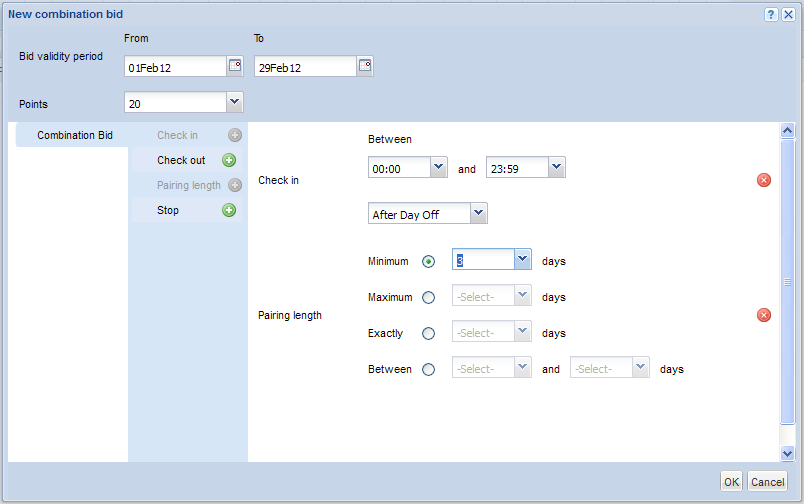
"10034",3,0,10,"Combination",3,3,0:00,0:00,01Dec2011 00:00,31Dec2011 23:59,"Flight",false,

"10034",3,1,0,"CheckIn",0,0,00:30,07:00,01Jan1986 00:00,01Jan1986 00:00,"",true,

"10034",3,2,0,"DaysPerTrip",0,2,0:00,0:00,01Jan1986 00:00,01Jan1986 00:00,"",false,

"10034",3,3,0,"Stop",1,0,03:00,5:00,01Jan1986 00:00,01Jan1986 00:00,"ATH",false,

#### IB5 Screenshot



## Validation

### Server side validation

#### Number of bids validator

The number of bids validator presents the user with a warning if he/she has more than 12 active bids simultaneously. If the user has 12 bids in the bid list and tries to add another bid, the user will be presented with a warning dialog with the massage “The recommended maximum number of PBS bids is 12. This bid will pass the limit. Do you want to continue?” which can be overridden.

#### Number of consecutive days at work validator

The validator verifies that the number of days selected is not greater than the number of days between the start and end of the validity period.

#### Number of consecutive days off validator

The validator verifies that the number of days selected is not greater than the number of days between the start and end of the validity period.

#### Stop length validator

The validator verifies that the number of hours selected is not greater than the number of days between the start and end of the validity period.

#### Pairing length validator

The validator verifies that the number of days selected is not greater than the number of days between the start and end of the validity period.

#### Time off – Selected weekdays inside validity period

The validator verifies that the selected weekdays for the time off bid are within the selected validity period, i.e. Monday – Tuesday is selected weekdays and the validity period is only one day. This would result in an error message telling the user that there is a mismatch between selected weekdays and the selected validity period.

#### Bid start validator

The validator verifies that the validity start of the bid is not before the bid period start.

### Client side validation

#### Date fields

Java script validation is used to check the date format and that the “from date” of the validity period is not after the “until date”.

#### Time fields

Java script validation is used to check the time format and that the “from time” is not after the “until time”.

#### Number fields

Java script validation is used to check so that the field only contains numbers.

# Requests

## Request types

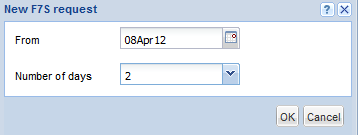
### F7S requests

This is a guaranteed special day off.

#### Properties

* Start date – field with a calendar
* Number of days – drop down list with values 1 - 9

#### Example screen shot



#### Validation

* Start date is within the bidding period (see [Request start date validator](#_Request_start_date)).
* Verify that bid is not overlapping any existing preassignment (see [Request overlapping pre-assignment validator](#_Request_overlapping_pre-assignment)).

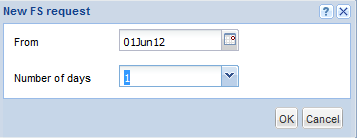
### FS requests

This is a prioritized (super) free day.

#### Properties

* Start date – field with a calendar
* Number of days – drop down list with values 1 – 2 days (1 – 3 days for FD SH VG)

#### Example screen shot



#### Validation

* Start date is within the bidding period (see [Request start date validator](#_Request_start_date))
* Verify that crew is on VG contract where request is about to be created (see [FS request is allowed validator](#_FS_request_is)).
* Verify that bid is not overlapping any existing preassignment (see [Request overlapping pre-assignment validator](#_Request_overlapping_pre-assignment)).

## Validation

### Request start date validator

The request start date validator checks that the start date of the request is within the request period. If the request start date is outside of the request period an error is shown and the request cannot be added.

### Request overlapping pre-assignment validator

The request overlapping pre-assignment validator checks if the request to be added overlaps any existing pre-assignment.

If the request overlaps a pre-assignment an error message is shown and the request cannot be added.

### FS request is allowed validator

Crew is able to change contract during an open bid period. The validator verifies that the crew is on variable contract at the time where he/she is trying to create a FS request.

The validator looks for the “CONTRACTVG” qualification for the users and verifies that the selected time of the FS request is within the time interval of the qualification. FS requests that is not within the time interval of the “CONTRACTVG” qualification will be rejected immediately without being sent to the report server.

# Bid List

The bid list displays bids touched by the current bidding period.

## Bid Formatting and sorting

The formatting of the bids is shown in the “Bid Details” field of the bid list. All entry fields not visible in other columns will be displayed in the bid details field.

Example



Any column can be used to sort the bid list.

# Bid scenarios and groups

SAS will use only one bid scenario and one bid group. The bid scenario is called “Bids”. The bid group will be auto generated the first time a user login.



# Trip xml format

Trips are sent to Jeppesen Crew portal from the report server. The Report server data formats for trips are defined

by the XML schemes getalltrips.xsd and getrosters.xsd, which are presented in <template-user>/info/xsd/framework/.

<ns2:CRR crrid="" endDateTime="2012-01-25 20:10" startDateTime="2012-01-25 13:55" type="flight">

<ns2:attributes>

<ns1:attribute name="uniqueid" value="1" />

<ns1:attribute name="code" value="FLT" />

<ns1:attribute name="enddate\_local" value="25Jan2012" />

<ns1:attribute name="crewcompl" value="1 FC ,1 FP ,0 FR ,0 FU ,1 AP ,0 AS ,3 AH ,0 AU ,0 TL ,0 TR" />

<ns1:attribute name="endtime\_utc" value="19:10" />

<ns1:attribute name="startdate" value="25Jan2012" />

<ns1:attribute name="length" value="1" />

<ns1:attribute name="blocktime" value="3:55" />

<ns1:attribute name="crr\_crew\_id" value="None" />

<ns1:attribute name="homebase" value="CPH" />

<ns1:attribute name="enddate\_utc" value="25Jan2012" />

<ns1:attribute name="type" value="flight" />

<ns1:attribute name="fd\_acqual" value="M8" />

<ns1:attribute name="cc\_acqual" value="90" />

<ns1:attribute name="startdate\_local" value="25Jan2012" />

<ns1:attribute name="starttime\_utc" value="12:55" />

<ns1:attribute name="layovers" value="" />

<ns1:attribute name="endtime\_local" value="20:10" />

<ns1:attribute name="endtime" value="20:10" />

<ns1:attribute name="crrid" value="" />

<ns1:attribute name="enddate" value="25Jan2012" />

<ns1:attribute name="dutytime" value="0:00" />

<ns1:attribute name="region" value="SKD," />

<ns1:attribute name="starttime\_local" value="13:55" />

<ns1:attribute name="longhaul" value="False" />

<ns1:attribute name="startdate\_utc" value="25Jan2012" />

<ns1:attribute name="starttime" value="13:55" />

</ns2:attributes>

<ns2:RTD>

<ns2:attributes>

<ns1:attribute name="nightstop" value="None" />

<ns1:attribute name="startdate\_local" value="25Jan2012" />

<ns1:attribute name="starttime\_utc" value="12:55" />

<ns1:attribute name="enddate\_local" value="25Jan2012" />

<ns1:attribute name="endtime\_local" value="20:10" />

<ns1:attribute name="resttime" value="900:00" />

<ns1:attribute name="endtime" value="20:10" />

<ns1:attribute name="endtime\_utc" value="19:10" />

<ns1:attribute name="startdate" value="25Jan2012" />

<ns1:attribute name="enddate" value="25Jan2012" />

<ns1:attribute name="splitduty" value="False" />

<ns1:attribute name="starttime\_local" value="13:55" />

<ns1:attribute name="startdate\_utc" value="25Jan2012" />

<ns1:attribute name="starttime" value="13:55" />

<ns1:attribute name="enddate\_utc" value="25Jan2012" />

</ns2:attributes>

<ns2:ACTIVITY>

<ns2:attributes>

<ns1:attribute name="charter" value="False" />

<ns1:attribute name="suffix" value="\*" />

<ns1:attribute name="startdate\_local" value="25Jan2012" />

<ns1:attribute name="starttime\_utc" value="13:55" />

<ns1:attribute name="number" value="505" />

<ns1:attribute name="enddate\_local" value="25Jan2012" />

<ns1:attribute name="endtime\_local" value="15:55" />

<ns1:attribute name="cnxtime" value="01:05" />

<ns1:attribute name="endtime" value="16:55" />

<ns1:attribute name="startstation" value="CPH" />

<ns1:attribute name="endtime\_utc" value="15:55" />

<ns1:attribute name="startdate" value="25Jan2012" />

<ns1:attribute name="enddate" value="25Jan2012" />

<ns1:attribute name="endstation" value="LHR" />

<ns1:attribute name="starttime\_local" value="14:55" />

<ns1:attribute name="blocktime" value="02:00" />

<ns1:attribute name="startdate\_utc" value="25Jan2012" />

<ns1:attribute name="carrier" value="SK" />

<ns1:attribute name="starttime" value="14:55" />

<ns1:attribute name="enddate\_utc" value="25Jan2012" />

<ns1:attribute name="type" value="flight" />

</ns2:attributes>

</ns2:ACTIVITY>

<ns2:ACTIVITY>

<ns2:attributes>

<ns1:attribute name="charter" value="False" />

<ns1:attribute name="suffix" value="\*" />

<ns1:attribute name="startdate\_local" value="25Jan2012" />

<ns1:attribute name="starttime\_utc" value="17:00" />

<ns1:attribute name="number" value="506" />

<ns1:attribute name="enddate\_local" value="25Jan2012" />

<ns1:attribute name="endtime\_local" value="19:55" />

<ns1:attribute name="cnxtime" value="" />

<ns1:attribute name="endtime" value="19:55" />

<ns1:attribute name="startstation" value="LHR" />

<ns1:attribute name="endtime\_utc" value="18:55" />

<ns1:attribute name="startdate" value="25Jan2012" />

<ns1:attribute name="enddate" value="25Jan2012" />

<ns1:attribute name="endstation" value="CPH" />

<ns1:attribute name="starttime\_local" value="17:00" />

<ns1:attribute name="blocktime" value="01:55" />

<ns1:attribute name="startdate\_utc" value="25Jan2012" />

<ns1:attribute name="carrier" value="SK" />

<ns1:attribute name="starttime" value="18:00" />

<ns1:attribute name="enddate\_utc" value="25Jan2012" />

<ns1:attribute name="type" value="flight" />

</ns2:attributes>

</ns2:ACTIVITY>

</ns2:RTD>

</ns2:CRR>

## Trip XML data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRR | RTD | Activity |  | Example values |  |
| startDateTime |  |  |  | **2012-02-08 15:05** |  |
| startdate | **startdate** | **startdate** |  | **08Feb2012** |  |
| starttime | **starttime** | **starttime** |  | **15:05** |  |
| endDateTime |  |  |  | **2012-02-08 15:05** |  |
| enddate | **enddate** | **enddate** |  | **08Feb2012** |  |
| endtime | **endtime** | **endtime** |  | **15:05** |  |
| startdate\_local | **startdate\_local** | **startdate\_local** |  | **08Feb2012** |  |
| starttime\_local | **starttime\_local** | **starttime\_local** |  | **15:05** |  |
| enddate\_local | **enddate\_local** | **enddate\_local** |  | **08Feb2012** |  |
| endtime\_local | **endtime\_local** | **endtime\_local** |  | **15:05** |  |
| startdate\_utc | **startdate\_utc** | **startdate\_utc** |  | **08Feb2012** |  |
| starttime\_utc | **starttime\_utc** | **starttime\_utc** |  | **15:05** |  |
| enddate\_utc | **enddate\_utc** | **enddate\_utc** |  | **08Feb2012** |  |
| endtime\_utc | **endtime\_utc** | **endtime\_utc** |  | **15:05** |  |
| code |  |  |  | **FLT** |  |
| type |  | **type** |  | **flight, ground, …** |  |
| dutytime |  |  |  | **4:51** |  |
| homebase |  |  |  | **STO, CPH, OSL** |  |
| length |  |  |  | **1, 2, …** |  |
| blocktime |  | **blocktime** |  | **5:35** |  |
| dutytime |  |  |  | **8:20** |  |
| crewcompl |  |  |  | **1 FC ,1 FP , …** |  |
| fd\_acqual |  |  |  | **36, 38, …** |  |
| cc\_acqual |  |  |  | **36, 38, …** |  |
| layovers |  |  |  | **GVA, TOS, …** |  |
| region |  |  |  | **SKD, SKN, SKS** |  |
| longhaul |  |  |  | **True/False** |  |
|  | **resttime** |  |  | **66:13** |  |
|  | **nightstop** |  |  | **True/False** |  |
|  | **splitduty** |  |  | **True/False** |  |
|  |  | **charter** |  | **True/False** |  |
|  |  | **number** |  | **1467** |  |
|  |  | **cnxtime** |  | **00:40** |  |
|  |  | **startstation** |  | **ARN, CPH, …** |  |
|  |  | **endstation** |  | **ARN, CPH, …** |  |
|  |  | **carrier** |  | **SK** |  |

# Preassignments

The preassignments are shown to crew below the calendar in the GUI. Pre-assignments are fed to Jeppesen Crew portal from the report server. Data is sent in XML format defined by the getRosterParameters element in the framework/getroster.xsd schema.

<tp:CRR crrid="F" endDateTime="2012-05-20 00:00" type="personal" startDateTime="2012-05-17 00:00">

<tp:attributes>

<co:attribute name="uniqueid" value="ce643c3c-570f-4f3a-a9bf-619b2b7cbd77"/>

<co:attribute name="code" value="F"/>

<co:attribute name="enddate\_local" value="20May2012"/>

<co:attribute name="crewcompl" value="0 FC ,0 FP ,0 FR ,0 FU ,0 AP ,0 AS ,0 AH ,0 AU ,0 TL ,0 TR"/>

<co:attribute name="endtime\_utc" value="22:00"/>

<co:attribute name="startdate" value="17May2012"/>

<co:attribute name="length" value="3"/>

<co:attribute name="blocktime" value="0:00"/>

<co:attribute name="crr\_crew\_id" value="10034"/>

<co:attribute name="homebase" value="STO"/>

<co:attribute name="enddate\_utc" value="19May2012"/>

<co:attribute name="type" value="personal"/>

<co:attribute name="fd\_acqual" value="---"/>

<co:attribute name="cc\_acqual" value="---"/>

<co:attribute name="startdate\_local" value="17May2012"/>

<co:attribute name="starttime\_utc" value="22:00"/>

<co:attribute name="layovers" value=""/>

<co:attribute name="endtime\_local" value="00:00"/>

<co:attribute name="endtime" value="00:00"/>

<co:attribute name="crrid" value="F"/>

<co:attribute name="enddate" value="20May2012"/>

<co:attribute name="dutytime" value="0:00"/>

<co:attribute name="region" value=""/>

<co:attribute name="starttime\_local" value="00:00"/>

<co:attribute name="longhaul" value="False"/>

<co:attribute name="startdate\_utc" value="16May2012"/>

<co:attribute name="starttime" value="00:00"/>

</tp:attributes>

<tp:RTD>

<tp:attributes>

<co:attribute name="nightstop" value="None"/>

<co:attribute name="startdate\_local" value="17May2012"/>

<co:attribute name="starttime\_utc" value="22:00"/>

<co:attribute name="enddate\_local" value="20May2012"/>

<co:attribute name="endtime\_local" value="00:00"/>

<co:attribute name="resttime" value="17:55"/>

<co:attribute name="endtime" value="00:00"/>

<co:attribute name="endtime\_utc" value="22:00"/>

<co:attribute name="startdate" value="17May2012"/>

<co:attribute name="enddate" value="20May2012"/>

<co:attribute name="splitduty" value="False"/>

<co:attribute name="starttime\_local" value="00:00"/>

<co:attribute name="startdate\_utc" value="16May2012"/>

<co:attribute name="starttime" value="00:00"/>

<co:attribute name="enddate\_utc" value="19May2012"/>

</tp:attributes>

<tp:ACTIVITY>

<tp:attributes>

<co:attribute name="code" value="F"/>

<co:attribute name="startdate\_local" value="17May2012"/>

<co:attribute name="starttime\_utc" value="22:00"/>

<co:attribute name="enddate\_local" value="20May2012"/>

<co:attribute name="endtime\_local" value="00:00"/>

<co:attribute name="endtime" value="00:00"/>

<co:attribute name="endtime\_utc" value="22:00"/>

<co:attribute name="startdate" value="17May2012"/>

<co:attribute name="enddate" value="20May2012"/>

<co:attribute name="endstation" value="ARN"/>

<co:attribute name="starttime\_local" value="00:00"/>

<co:attribute name="startdate\_utc" value="16May2012"/>

<co:attribute name="location" value="ARN"/>

<co:attribute name="starttime" value="00:00"/>

<co:attribute name="enddate\_utc" value="19May2012"/>

<co:attribute name="type" value="personal"/>

</tp:attributes>

</tp:ACTIVITY>

</tp:RTD>

</tp:CRR>

## Preassignment XML data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CRR | RTD | Activity |  | Example values |  |
| startDateTime |  |  |  | **2012-02-08 15:05** |  |
| startdate | **startdate** | **startdate** |  | **08Feb2012** |  |
| starttime | **starttime** | **starttime** |  | **15:05** |  |
| endDateTime |  |  |  | **2012-02-08 15:05** |  |
| enddate | **enddate** | **enddate** |  | **08Feb2012** |  |
| endtime | **endtime** | **endtime** |  | **15:05** |  |
| startdate\_local | **startdate\_local** | **startdate\_local** |  | **08Feb2012** |  |
| starttime\_local | **starttime\_local** | **starttime\_local** |  | **15:05** |  |
| enddate\_local | **enddate\_local** | **enddate\_local** |  | **08Feb2012** |  |
| endtime\_local | **endtime\_local** | **endtime\_local** |  | **15:05** |  |
| startdate\_utc | **startdate\_utc** | **startdate\_utc** |  | **08Feb2012** |  |
| starttime\_utc | **starttime\_utc** | **starttime\_utc** |  | **15:05** |  |
| enddate\_utc | **enddate\_utc** | **enddate\_utc** |  | **08Feb2012** |  |
| endtime\_utc | **endtime\_utc** | **endtime\_utc** |  | **15:05** |  |
| code |  | **code** |  | **F** |  |
| type |  | **type** |  | **flight, ground, …** |  |
| dutytime |  |  |  | **4:51** |  |
| homebase |  |  |  | **STO, CPH, OSL** |  |
| length |  |  |  | **1, 2, …** |  |
| blocktime |  | **blocktime** |  | **5:35** |  |
| dutytime |  |  |  | **8:20** |  |
| crewcompl |  |  |  | **1 FC ,1 FP , …** |  |
| fd\_acqual |  |  |  | **36, 38, …** |  |
| cc\_acqual |  |  |  | **36, 38, …** |  |
| layovers |  |  |  | **GVA, TOS, …** |  |
| region |  |  |  | **SKD, SKN, SKS** |  |
| longhaul |  |  |  | **True/False** |  |
|  | **resttime** |  |  | **66:13** |  |
|  | **nightstop** |  |  | **True/False** |  |
|  | **splitduty** |  |  | **True/False** |  |
|  |  | **startstation** |  | **ARN, CPH, …** |  |
|  |  | **endstation** |  | **ARN, CPH, …** |  |
|  |  | **location** |  | **ARN** |  |

# pre-filtering

To prevent that trips that are irrelevant to the current user are loaded in the Trip Browser pre-filtering is done. Pre-filters are filters that are always applied when retrieving trips.

## Trip inside bid period

The bid period filter uses the start date for the trip in the trip XML feed. The filter will accept all trips that start on or after the bid period start.

## Aircraft Qualification Trip Filter

The aircraft qualification trip filter uses the attribute fd\_acqual and cc\_acqual on trip level in the trip XML and the qualifications for the current crew. It will accept all trips where the qualification for the current crew matches the aircraft qualification for the trip.

## Homebase Trip Filter

The homebase trip filter uses the field homebase on trip level in the trip XML and the user attribute station for the current crew. The filter will accept all trips where the homebase of the trip matches the station attribute for the user. The user attribute station is derived from the crew attribute station in CMS.

If crew belongs to group FD LH all trips will be accepted.

Crew may be temporary based in another region. If attribute region isn’t matching attribute station the filter considers the crew to be temporarily based in another station based on that region according to table below.

|  |  |
| --- | --- |
| Region | Station |
| SKS | STO |
| SKN | OSL |
| SKD | CPH |

## Position Trip Filter

The position trip filter uses the field crewcompl on trip level in the trip XML and the user attribute crewrank for the current crew. It will accept all trips where the crewrank for the current crew matches the crewcompl of the trip. However if crewrank is AS and crew is qualified for short haul only the crewrank will be treated as AH.

# Trip Filter

SAS will use the trip filter tab to filter on existing trips. The following categories and properties will be available.

## Dates & times

### Check in

This filter will match against the field starttime on trip level in the trip XML and accept all trips starting within the specified interval.

Default value: 00:00 – 23:59

Example



### Check out

This filter will match against the field endtime on trip level in the trip XML and accept all trips ending within the specified interval.

Default value: 00:00 – 23:59

Example



## Destination & Flight

### Flight number

This filter will match against the field number on activity level in the trip XML and accept all trips containing an activity that matches the flight number. The input is required to only contain numbers.

Default value: No default value available

Example



### Days per pairing

This filter will match against the field length on trip level in the trip XML and accept all trips within the specified interval.

Default value: No default value available

Example



### Leg duration

This filter will match against the field’s startdate, starttime, enddate, endtime on activity level in the trip XML and accept all trips containing an activity with the duration within the specified interval.

Default value: No default value available

Example

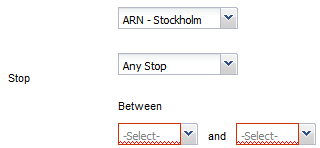


### Stop

This filter will match against the field layovers on trip level, the field’s nighstop and resttime on duty level and the field’s endstation and cnxtime on activity level in the trip XML. All trips matching the selected values will be accepted.

Default value: No default value available

Example



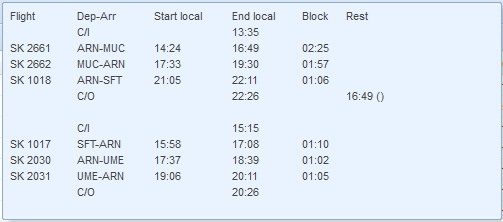
# Trip formatting

The trip details formatter is used when hovering over a trip or pre-assignment, detailed information about the trip or pre-assignment is then displayed. Local time is used for all dates and times displayed.

## Flights

For flights the following information is shown:

* Position – List of available positions for each trip.
* C/I & C/O(Check-in & Check-out) – Check-in and Check-out time for each duty
* Flight – Flight number for each leg
* Dep-Arr – Departure and arrival station for each leg
* Start/End local – The start and end time for each leg
* Block – Block time for each leg
* Rest – Rest between duties



## Personal



For personal activities the following are shown:

* Start and end of the activity

# Feeds

## Data import

Bid 5 can automatically import crew data together with information about crew groups and bid periods.

### Configuration

To enable automatic import of data, the following settings need to be done in interbids.properties:

* interbids.import-root-path  
  The absolute path to the root of the import folder. For example /opt/imports/
* interbids.import-processor-class  
  Name of the Java class that parses incoming files and delivers import data for processing.

A file called import-job.xml contains the settings for scan interval etc.

### Path structure

Just as in IB2, the root folder for the import files must have three sub-folders:

* new – any files in here with the suffix .xml will be processed
* old – successfully processed files are moved here and have the suffix .processed, failed processed files are suffixed .partial and a complementary .errors file is found in the error folder.
* error – any import errors will be stored in this folder.

### XML format

The format for the import is defined in the schema definitions file import.xsd, available in $PROJECT/info/xsd/framework.

The crew node contains the attributes login\_id and user\_id, the difference between these two is that login\_id is used by the user to identify himself/herself when logging in. The user\_id is the id that is stored in the database with the bid information and is also exported to the rostering system.

Example:

<?xml version="1.0" encoding="UTF-8" ?>

<import xmlns:tns="http://carmen.jeppesen.com/crewweb/framework/xmlschema/import" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://carmen.jeppesen.com/crewweb/framework/xmlschema/import import.xsd">

<groups>

<group name="group1" description="Example group 1"/>

<group name="group2" description="Example group 2"/>

</groups>

<qualifications>

<qualification name="qual1" description="Example qualification 1"/>

<qualification name="qual2" description="Example qualification 2"/>

</qualifications>

<periods>

<period group\_name="group1" start="2011-01-01 00:00" end="2011-01-31 23:59" open="2010-12-01 00:00" close="2010-12-08 23:59" type="standard"/>

</periods>

<crew>

<crew user\_id="doe" login\_id="doe" password="secret" first\_name="John" last\_name="Doe" inactive="false">

<attributes>

<attribute name="attr1" value="foo" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

<attribute name="attr2" value="bar" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</attributes>

<groups>

<group name="group1" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</groups>

<qualifications>

<qualification name="qual1" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</qualifications>

<roles>

<role>interbids-bidding-crew</role>

<role>home-basic</role>

</roles>

</crew>

<crew user\_id="smith" login\_id="smith" password="pwd" first\_name="Jane" last\_name="Smith" inactive="false">

<attributes>

<attribute name="attr1" value="bar" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</attributes>

<groups>

<group name="group2" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</groups>

<qualifications>

<qualification name="qual2" start="2010-01-01 00:00" end="2010-12-31 23:59"/>

</qualifications>

<roles>

<role>interbids-bidding-crew</role>

<role>home-basic</role>

</roles>

</crew>

<crew user\_id="jones" inactive="true"/>

</crew>

</import>

## Data sources

Data sources in ETAB format are used to display external data in the bid dialogues. In the SAS implementation, external data sources are used for:

* Stop destination
* Departure stations

These ETAB files are kept up-to-date by SAS.

In addition to the ETAB files, two custom java classes are used as data sources to provide information to the bid/request dialogs.

* custom.isCharter (returns true/false depending on if the charter checkbox for flight bid should be visible or not for crew).
* custom.numberOfFSDays (returns number of days that the user should be able to choose from when creating a FS request, see [FS requests](#_FS_requests))

# Authentication (Single Sign-On)

There are two ways to trigger the authenticaiton of the user in the Bid6 system - SAS SSO cookie login or Bid6 supplied form login. Both ways passes the jboss login modules to authenticate the user in the system.

The SSO solution is implemented by intercepting the http request in the jboss valve class com.sas.authenticationAuthenticationValve. The valve class will get the userid from the sso cookie and authenticate the user. A change of sso-user will trigger the login of the new user.

The jboss authentication is performed by the login module com.sas.authentication.LoginModuleWithRolesInDatabase. It will authenticate the userid with the Bid6 database user directory.

For SSO logged in users there must not be any password in the userdirectory database. For form logged in users there must be a password, unless the system is configured to allow empty password.

**Jboss standalone.xml configuration**

### JNDI setup in the subsystem urn:jboss:domain:naming

Name of sso cookie:

<simple name="java:global/jcms/customization/sas/portal-appl-sessID-param" value="sessId"/>

Enable/disable form login:

<simple name="java:global/jcms/customization/sas/allow-form-based-login" value="true"/>

Enable form login without password.

<simple name="java:global/jcms/customization/sas/allow-empty-password" value="false"/>

### Security setup in the subsystem urn:jboss:domain:security

<security-domain name="other" cache-type="default">

<authentication>

<!-- Authenticate user with the user with the Bid6 user directory database. Identifies the configured authentication use case. -->

<login-module code="com.sas.authentication.LoginModuleWithRolesInDatabase" flag="required">

<module-option name="dsJndiName" value="java:jboss/datasources/CrewWebDS"/>

<module-option name="principalsQuery" value="select password from userdirectory where userid = ?"/>

<module-option name="rolesQuery" value="Select Concat(Userdirroles.Roletype,Concat(':',Concat(Userdirroles.Name, Concat(':',Userdirroles.Value)))), 'Roles' From Userdirroles,Users Where Userdirroles.Userid=Users.Loginid and Userdirroles.Userid=? and Users.Inactive IS NULL"/>

<module-option name="password-stacking" value="useFirstPass"/>

</login-module>

<!-- Bid6 setup to parse the authenticated principals and from that derive the crewid and user role. -->

<login-module code="com.jeppesen.jcms.wpf.jboss.loginmodule.CacsAttributeMapping" flag="required">

<module-option name="attributePrefix" value="ou=attributes,dc=cacs,DC=jcms,DC=jeppesen,DC=com"/>

<module-option name="rolePrefix" value="ou=roles,dc=cacs,dc=jcms,dc=jeppesen,dc=com"/>

<module-option name="crewIdAttributeName" value="crewIdentity"/>

<module-option name="rolesFormat" value="simple-db"/>

</login-module>

<!-- Bid6 setup to get the authenticated user role (admin || crew) and with that enable JEE authorizaton roles from the CACS setup for the given uesr role. -->

<login-module code="com.jeppesen.jcms.wpf.jboss.loginmodule.CacsRoleMapping" flag="required">

<module-option name="replaceRole" value="false"/>

</login-module>

</authentication>

</security-domain>

# Vacation

## Calendar

In the calendar crew can see future activities loaded from published report server. For crew on fixed contract, they will also see their fixed pattern which is loaded from manpower.

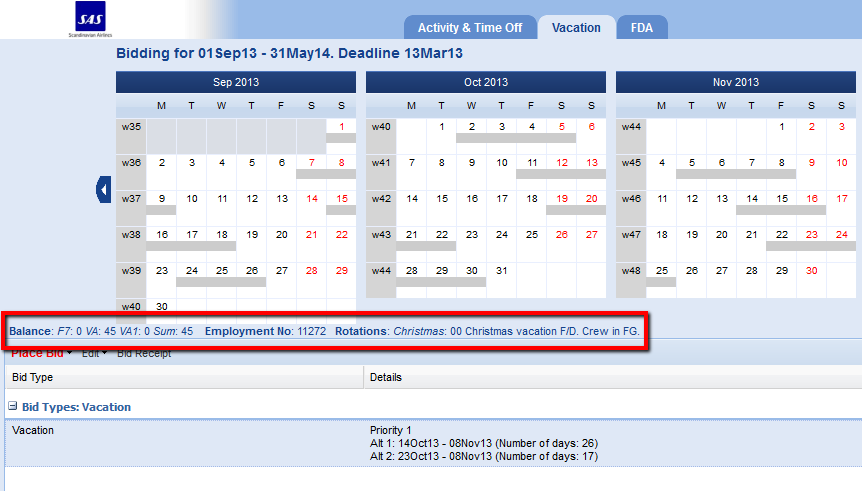
## Bid Window/Period

Bid window/period is configured and loaded from manpower. More information on how to setup bid window/period see FunctionalReference\_Manpower.docx

## Crew Information

Crew information is loaded from manpower when vacation module is loaded. Following crew information is displayed:

* Balances
  + VA
  + VA1
  + F7
  + Sum
* Employment number
* Rotations
* Points (Only displayed for certain crew groups and specific seasons)



## Bid List

The bid list is where all the existing bids are presented. The bids list is divided into bid groups. To each bid group contains a number of bid types. Available bid groups and bid types are:

* Vacation (bid group)
  + *Vacation (bid type)*
* Join vacation (bid group)
  + *Join vacation (bid type)*
* Transfer (bid group)
  + *Transfer (bid type)*
* No vacation (bid group)
  + *No vacation (bid type)*
* Postpone vacation (bid group)
  + *Postpone vacation (bid type)*
* Extra vacation (bid group)
  + *Extra vacation (bid type)*

Only bids within the same bid group can be prioritized among one another.

### Bid group comparator

To ensure the bid group order is according to the above a customized comparator class has been used which sorts the bid groups accordingly.

The comparator class is defined in vacation.properties and is called crewweb.jmp-bidgrouptype-comparator-class.

## Bid Types

Only bids that has been defined in manpower for each season and crew group is visible through the “Place bid” menu and is allowed to bid for.

### Vacation

Crew can add a number of vacation bids. Each one has three alternatives with start and end and one Comment field. The bid priority is defined by how they have been ordered in the bid list.

#### Client side validation

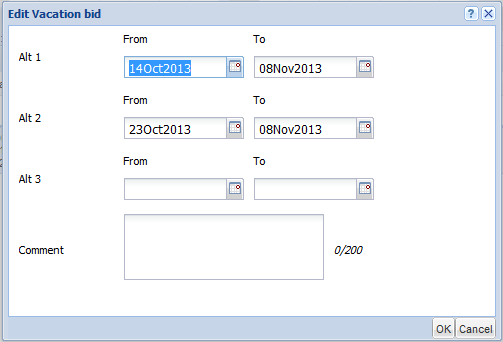
Fixed contract crew who has to bid according to the fixed pattern will only be able to select valid start and end dates. Invalid start and end dates has been disabled in the input form. Invalid dates are sent from manpower.

Comment field has been restricted to 200 characters.

#### Value sets

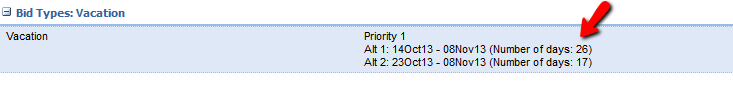
* [valueset.disabledstartdates](#_valueset.disabledstartdates)
* [valueset.disabledenddates](#_valueset.disabledenddates)

#### Bid dialog



#### Formatter

Once a vacation bid has been created manpower also sends back the number of used days for each alternative. The number of days can be less than the alternative length in e.g. if holidays is included in the selected period.



### Join Vacation

Crew can add one join vacation bids. The join vacation bid has three alternatives with start and end and one Comment field.

#### Client side validation

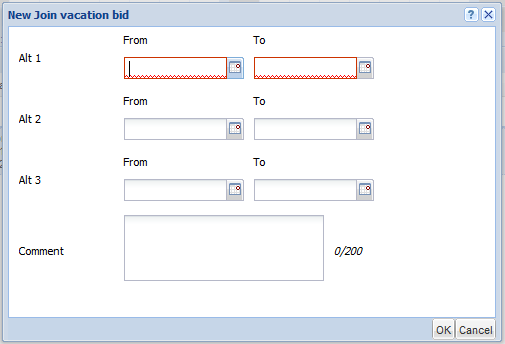
Fixed contract crew who has to bid according to the fixed pattern will only be able to select valid start and end dates. Invalid start and end dates has been disabled in the input form. Invalid dates are sent from manpower.

Comment field has been restricted to 200 characters.

#### Value sets

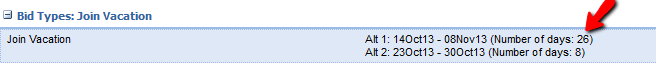
* [valueset.disabledstartdates](#_valueset.disabledstartdates)
* [valueset.disabledenddates](#_valueset.disabledenddates)

#### Bid dialog



#### Formatter

Once a vacation bid has been created manpower also sends back the number of used days for each alternative. The number of days can be less than the alternative length in e.g. holidays is included in the selected period.



### Extra Vacation

Crew can add one extra vacation bids. The extra vacation bid has three alternatives with start and end and one Comment field.

#### Client side validation

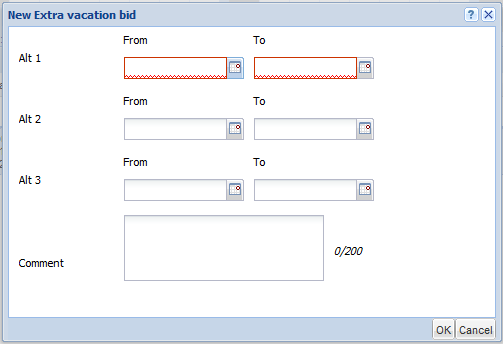
Fixed contract crew who has to bid according to the fixed pattern will only be able to select valid start and end dates. Invalid start and end dates has been disabled in the input form. Invalid dates are sent from manpower.

Comment field has been restricted to 200 characters.

#### Value sets

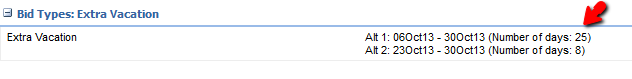
* [valueset.disabledstartdates](#_valueset.disabledstartdates)
* [valueset.disabledenddates](#_valueset.disabledenddates)

#### Bid dialog



#### Formatter

Once a vacation bid has been created manpower also sends back the number of used days for each alternative. The number of days can be less than the alternative length in e.g. holidays is included in the selected period.



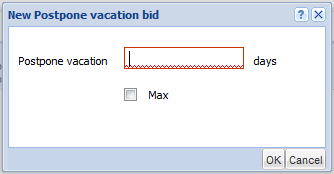
### Postpone Vacation

Crew can add one postpone vacation bid. Postpone vacation has one field to insert number of days and on checkbox to select maximum number of days. Crew can either specify the number of days or use the Max checkbox to select to use the maximum amount of days. Postpone vacation bid can be added together with normal bid in case postpone is not granted.

#### Client side validation

Only numbers or Max is allowed.

#### Bid dialog



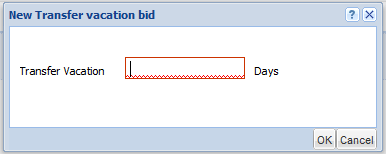
### Transfer Vacation

Crew can add one transfer vacation bid. Transfer vacation has one field to insert number of days. Transfer vacation can be added together with normal bid in case the transfer vacation is not granted.

#### Client side validation

Only numbers allowed.

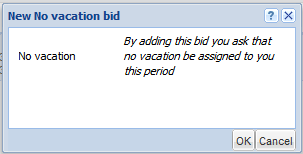
#### Bid dialog



### No Vacation

Crew can add one no vacation bid. No vacation can be added together with normal bid in case the no vacation is not granted.

#### Bid dialog



## Value sets

### valueset.disabledstartdates

This value set is used by Vacation, Join vacation and extra vacation to disable dates that should not be possible to select from as a start date. The values are loaded from manpower using the value set service.

### valueset.disabledenddates

This value set is used by Vacation, Join vacation and extra vacation to disable dates that should not be possible to select from as an end date. The values are loaded from manpower using the value set service.

## Legality

Legality checks are done by manpower. For more information regarding which rules are used see FunctionalReference\_Manpower.docx

## Bid receipt

Bid receipt can be generated by crew at any point in time. The bid receipt will generate a report with all the current bids and bid details as well as some period information.

# Transition

## Bid Window/Period

Bid window/period is configured and loaded from manpower. More information on how to setup bid window/period see FunctionalReference\_Manpower.docx

## Bid List

The bid list is where all the existing bids are presented. The bids list is divided into bid groups. To each bid group contains a number of bid types. Available bid groups and bid types are:

Flight Deck:

* FDA Position Type (bid group)
  + FDA Position Type (bid type)
* FC A/C Type (bid group)
  + *FC A/C Type (bid type)*
* FO A/C Type (bid group)
  + *FO A/C Type (bid type)*
* Base (bid group)
  + *Base (bid type)*
* ATPL Confirmation (bid group)
  + *ATPL Confirmation (bid type)*

Cabin:

* CC A/C Type(bid group)
  + *CC A/C Type(bid type)*

Only A/C Type bids within the same bid group can be prioritized among one another.

### Bid group comparator

To ensure the bid group order is according to the above a customized comparator class has been used which sorts the bid groups accordingly.

The comparator class is defined in career.properties and is called crewweb.jmp-bidgrouptype-comparator-class.

## Bid Types

Only bids that has been defined in manpower for each season and crew group is visible through the “Place bid” menu and is allowed to bid for.

### FDA Position Type

Crew can add a number of FDA Position Type bids. Each bid has to have a unique value. The bid priority is defined by how they have been ordered in the bid list.

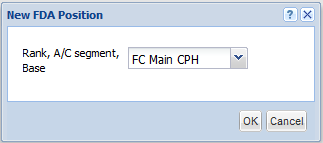
#### Value sets

* [*valueset.fbid\_qual*](#_valueset.fbid_qual)

#### Client side validation

Only values sent from manpower is allowed to select from.

#### Bid dialog



### FC A/C Type

Crew can add a number of FC A/C Type bids. Each bid has to have a unique value. The bid priority is defined by how they have been ordered in the bid list.

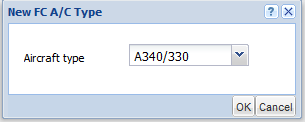
#### Value sets

* [valueset.fcac\_qual](#_valueset.fcac_qual)

#### Client side validation

Only values sent from manpower is allowed to select from.

#### Bid dialog



### FO A/C Type

Crew can add a number of FO A/C Type bids. Each bid has to have a unique value. The bid priority is defined by how they have been ordered in the bid list.

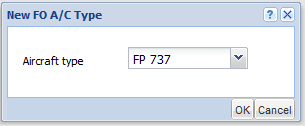
#### Value sets

* [valueset.foac\_qual](#_valueset.foac_qual)

#### Client side validation

Only values sent from manpower is allowed to select from.

#### Bid dialog



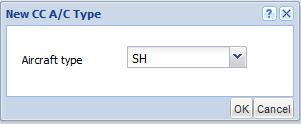
### CC A/C Type

Crew can add a number of CC A/C Type bids. Each bid has to have a unique value. The bid priority is defined by how they have been ordered in the bid list.

#### Value sets

* [valueset.ccac\_qual](#_valueset.foac_qual)

#### Bid dialog



### Base

Crew can add a number of Base bids. Each bid has to have a unique value.

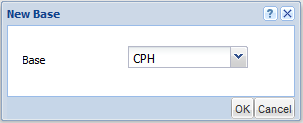
#### Value sets

* [valueset.base](#_valueset.base)

#### Client side validation

Only values sent from manpower is allowed to select from.

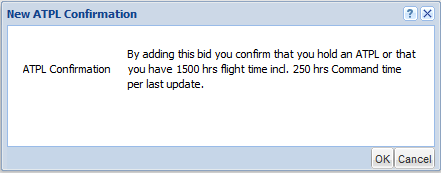
#### Bid dialog



### ATPL Confirmation

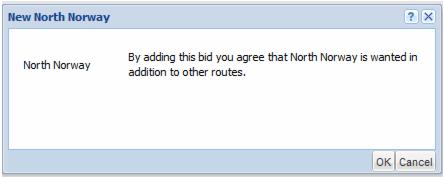
ATPL Confirmation bid is used by crew too confirm that they hold an ATPL or that they have 1500 hours flight time incl. 250 hours command time per last update.

#### Bid dialog



### North Norway

#### Bid dialog



## Value sets

### *valueset.fbid\_qual*

This value set is used by the Base bid to populate the dropdown list with valid values for crew to select from. The values are loaded from manpower using the value set service.

### *valueset.base*

This value set is used by the Base bid to populate the dropdown list with valid values for crew to select from. The values are loaded from manpower using the value set service.

### *valueset.fcac\_qual*

This value set is used by the FC A/C Type bid to populate the dropdown list with valid values for crew to select from. The values are loaded from manpower using the value set service.

### *valueset.foac\_qual*

This value set is used by the FO A/C Type bid to populate the dropdown list with valid values for crew to select from. The values are loaded from manpower using the value set service.

### *valueset.ccac\_qual*

This value set is used by the CC A/C Type bid to populate the dropdown list with valid values for crew to select from. The values are loaded from manpower using the value set service.

## Legality

Legality checks are done by manpower. For more information regarding which rules are used see FunctionalReference\_Manpower.docx

## Bid receipt

Bid receipt can be generated by crew at any point in time. The bid receipt will generate a report with all the current bids and bid details as well as some period information.

# User directory import

User data has been moved out from the bid application so that authentication can be handled via Active Directory. Since a single-sign-on solution is used in this case this user data is still kept in the crew portal database but within two new tables within the same schema (USERDIRECTORY and USERDIRROLES).

The USERDIRECTORY table contains information such as user id, password, first name and last name.

|  |  |  |  |
| --- | --- | --- | --- |
| USERID | PASSWORD | FIRSTNAME | LASTNAME |
| 123456 | abc#123 | John | Doe |
| admin | secret | Administrator | Admin |

USERDIRROLES contains an attribute called crewIdentity which is used to map the users “crewId”. The role is used to identify what the user should be authorized to access e.g. crew or administrator.

|  |  |  |  |
| --- | --- | --- | --- |
| USERID | ROLETYPE | NAME | VALUE |
| 123456 | attribute | crewIdentity | 00123 |
| 123456 | role | role | crew |
| admin | attribute | crewIdentity | admin |
| admin | role | role | administrator |

**SAS.user-directory-import.war**

The SAS.user-directory-import artifact runs along the side of the crew portal artifact and takes care of populating the USERDIRECTORY and USERDIRROLES table. It uses the same crew import file as mentioned before in [13.1](#_Data_import). This file is copied to a predefined folder configured via JNDI “*java:global/jcms/customization/user-directory-import”* by the first import job after validating the content against the import schema.

Administrators’ needs to be added this way as well by creating an import file with the administration users that should be added.

More information about roles can be found in Crew portal developer guide: CrewPortal\_6\_0\_DG\_A.pdf.

# Appendix

* CrewPortal\_6\_0\_DG\_A.pdf
* FunctionalReference\_Manpower.docx