



# LETTER OF AGREEMENT

between

RG Frankfurt (EDFF)

and

RG Bremen (EDWW)

Version 1.0  
2018-09-11

This LoA may only be used within the simulated VATSIM environment and is therefore not to be used for real life ATC purposes. Unauthorized use, distribution, duplication or modification of this document on any media, website or in any form is strictly prohibited.

This Letter of Agreement becomes effective 2018-09-13

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## Changelog

### **Version 1.0**

- Completely new LoA



## **Normal Regulations**

Both RGs shall give their best, applying the following regulations.

- Both RGs shall **inform each other of any changes** which may affect the procedures specified in this LoA.
- Both RGs shall make sure that their **controllers have understood the procedures** in this LoA and **apply them correctly**.
- **Agreements between controllers** always have higher priority than regulations defined in this LoA.
- A controller from one RG shall inform a controller from the other RG about the **cancellation of an agreement** if he plans to go offline and the agreement won't be continued by another controller of his own RG.
- **Transfer of Communication** shall be applied **latest 10 NM** prior to Handoff of Control. After handoff, traffic is NOT released for climb, descent, turn or changes on speed restrictions unless otherwise specified in the regulations below.
- **Silent handoff** shall be applied. That means that first the upstream controller initiates the handoff via the appropriate function in his radar client. Thereafter he instructs the pilot to contact the downstream controller. The downstream controller will accept the handoff via the appropriate function in his radar client as soon as the pilot calls in on his frequency, but not before. Silent handoff shall not be used if the downstream controller is set on <.break>.
- All **level restrictions** are maximum levels (if not specifically in the remarks-section stated). Appropriate lower levels can be assigned at discretion of the responsible controller without any coordination.
- **Spacing between two aircraft** on same level and same routing crossing Boarder of Responsibility (BoR) shall be at least 10 NM if the speed of the succeeding traffic is equal or less than the speed of the preceding traffic, otherwise at least 15 NM. Spacing deviating from this regulation shall be coordinated.
- Traffic which is not handed off at a level mentioned in this LoA shall be on an **even FL when flying northbound** and on an **odd FL when flying southbound**.
- For **climbing traffic** higher level may be assigned regardless of the regulations above preconditioned that traffic reaches cleared FL before crossing BoR.
- Borderline between **Bremen FIR (EDWW)** and **Langen FIR (EDFF)** in the upper Airspace is split vertically. The general area is between KEMAD and PEXAM. **EDWW** owns the area **BELOW FL295** and **EDFF** owns the area **ABOVE FL295**.



## ATC-Positions and Handoff Procedures

### vACC Germany RG Frankfurt

#### ATC stations

Stations that are highlighted in bold are stations to be manned in Normal- and/or Event-situations. Other stations may be if there is need for a further sector split.

<b>EDGG_CTR</b>	<b>Langen Radar 135.720</b>	<b>2500' - FL245</b>
<b>EDGG_E_CTR</b>	<b>Langen Radar 127.720</b>	<b>2500' - FL245</b>
EDGG_G_CTR	Langen Radar 124.420	2500' - FL245
<b>EDGG_Z_CTR</b>	<b>Langen Radar 120.570</b>	<b>GND - FL245</b>
<b>EDUU_W_CTR</b>	<b>Rhein Radar 133.650</b>	<b>FL245 - FL660</b>

Upper Limit of sectors EDGG\_E\_CTR and EDGG\_CTR will be unlimited (up to FL660) if EDUU\_W\_CTR is not online.

#### Sector responsibilities:

This table shows, which station is responsible for a certain sector, depending on the stations that are online. Proceed as follow to check who is responsible for a certain sector:

1. Move to row that contains the altitude on which the handoff shall be made
2. Move to the right in this row until a station that is online (or will be online at the relevant time) is found
3. The found station is responsible for the sector to be checked

Sector	Altitude	1. Priority	2. Priority	3. Priority	4. Priority
Langen HERSFELD	FL240 and below	EDGG_E_CTR	EDGG_Z_CTR	EDGG_CTR	
Langen GEDERN	FL240 and below	EDGG_G_CTR	EDGG_E_CTR	EDGG_Z_CTR	EDGG_CTR
Rhein FULDA	FL250 and above	EDUU_W_CTR	EDGG_E_CTR	EDGG_CTR	EURM_CTR



## vACC Germany RG Bremen

### ATC stations

Stations that are highlighted in bold are stations to be manned in Normal- and/or Event-situations. Other stations may be if there is need for a further sector split.

<b>EDWW_CTR</b>	<b>Bremen Radar</b>	<b>125.025</b>	<b>2500' - FL245</b>
<b>EDWW_A_CTR</b>	<b>Bremen Radar</b>	<b>123.925</b>	<b>2500' - FL245</b>
<b>EDWW_D_CTR</b>	<b>Bremen Radar</b>	<b>128.750</b>	<b>2500' - FL245</b>
EDWW_E_CTR	Bremen Radar	120.225	2500' - FL245
EDYY_C_CTR	Maastricht Radar	133.950	FL245 - FL660
EDYY_S_CTR	Maastricht Radar	131.375	FL245 – FL660

Upper Limit of sectors EDWW\_CTR and EDWW\_A\_CTR will be unlimited (up to FL660) if EDYY\_C\_CTR and/or EDYY\_S\_CTR is/are not online.

### Sector responsibilities:

This table shows, which station is responsible for a certain sector, depending on the stations that are online. Proceed as follow to check who is responsible for a certain sector:

1. Move to row that contains the altitude on which the handoff shall be made
2. Move to the right in this row until a station that is online (or will be online at the relevant time) is found
3. The found station is responsible for the sector to be checked

Sector	Altitude	Priority 1	Priority 2	Priority 3	Priority 4
Bremen HARZ	FL240 and below	EDWW_D_CTR	EDWW_A_CTR	EDWW_CTR	
Bremen DEISTER	FL240 and below	EDWW_D_CTR	EDWW_A_CTR	EDWW_CTR	
MaastrichtS OLLING	FL250 and above	EDYY_S_CTR	EDWW_D_CTR	EDWW_A_CTR	EDWW_CTR



## Langen FIR (EDFF) towards Bremen FIR (EDWW)

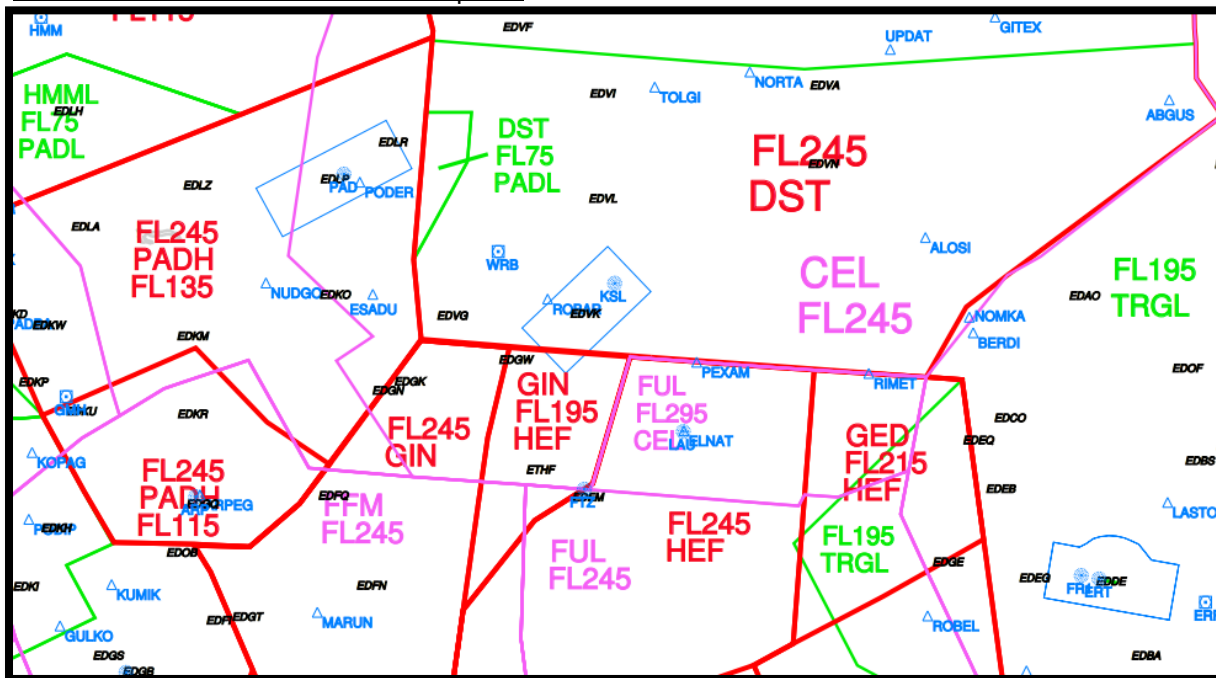
to	From	Routing	Coord FL	Note
EDDW	*	WRB - PIROT	FL240	Max FL240 due to Level Capping
		PEXAM	FL300	FL300 to reach at PEXAM
EDDH	*	BASUM	FL220	
EDDV EDVE	*	ELNAT	FL210	Early Handoff due to STAR-clearance by EDWW
EDVK	*	ALEXU	FL70	Released for descend
		OSBIT		
*	EDDF EDFE	Following SID	FL300	Released for climb

## Bremen FIR (EDWW) towards Langen FIR (EDFF)

to	From	Routing	Coord FL	Note
*	*	WRB Z190 ELNAT	FL190	Except inbound EDDF/EDFH
EDDF EDFE EDFH	*	RIMET T157 RANIN	FL250	FL250 to reach at RIMET
		WRB N850/Z190	FL190	FL190 to reach at WRB
		T152 NATSU	FL190	FL190 to reach abeam KSL
*	EDDH EDDW EDH* EDW* EDX*	PIROT N850 XAROL	FL230	Max. FL230
		EDEGA	FL270	Min. FL270   Released for climb
		ANANO	FL270	Min. FL270   Released for climb
		KEMAD	FL270	Min. FL270   Released for climb
*	EDVK	ELNAT	FL90	FL90 or below at ELNAT
		WRB	FL90	FL90 or below at WRB

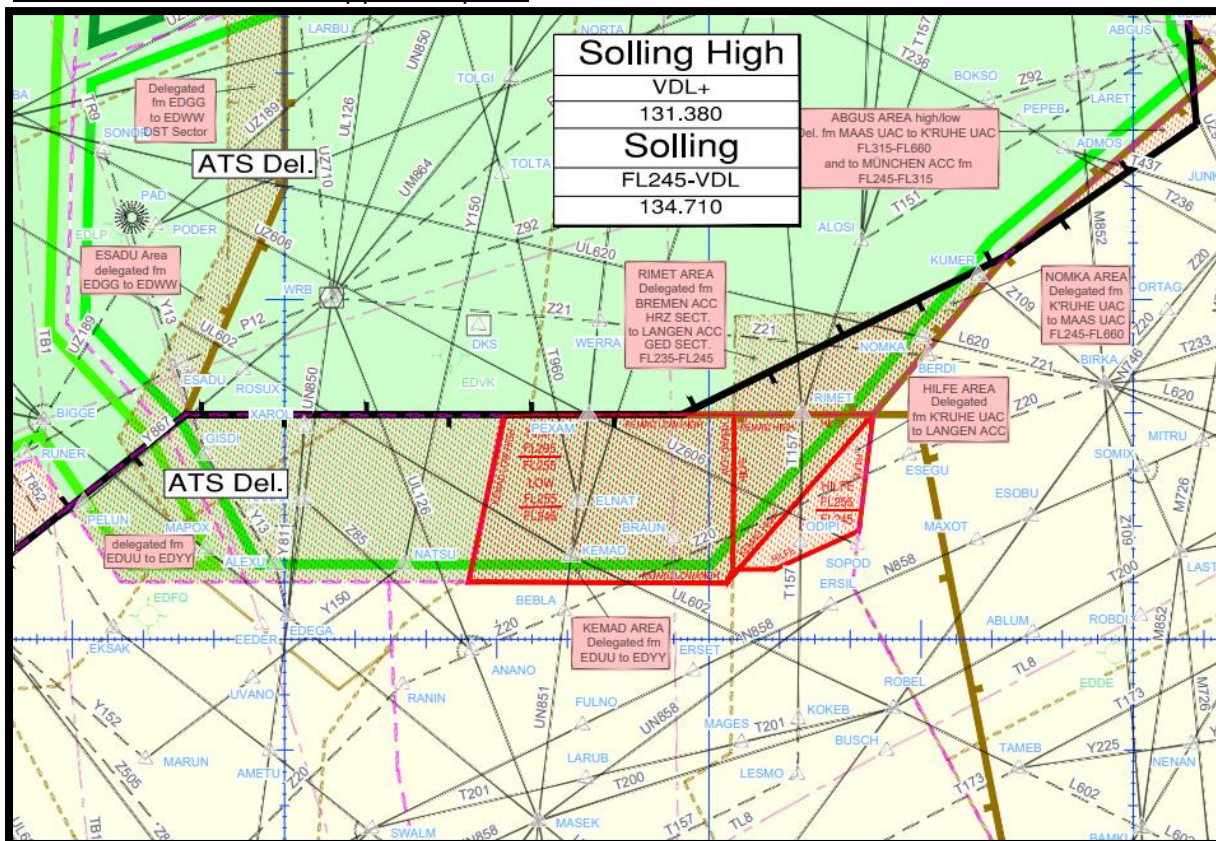
## Attachments

Borderline EDFF/EDWW lower Airspace:



Source: <http://nav.vatsim-germany.org/files/edww/charts/public/edww-20120707.pdf>

Borderline EDFF/EDWW upper Airspace:



Quelle: [www.eurocontrol.int/muac/charts/](http://www.eurocontrol.int/muac/charts/)