

# LETTER OF AGREEMENT

Between

Langen FIR (EDGG)

And

Bremen FIR (EDWW)

## 1. General notes

- The involved parties shall inform each other of any changes which may affect the procedures specified in this LoA.
- They shall make sure that their controllers have understood the procedures in this LoA and apply them correctly.
- Handoffs (transfer of communication) shall be made at least 10 NM prior the respective boundary (FIR border, APP airspace, delegated airspace). After handoff, traffic is released for climb, descent and turns.
- Spacing between two aircrafts on same level and same routing shall be at least 5 NM.
- Flightlevel allocation:
  - From Langen ACC (EDLL) to Bremen ACC (EDWW) on ODD flightlevels
  - From Bremen ACC (EDWW) to Langen ACC (EDLL) on EVEN flightlevels
  - FL 250 is not available for cruising level (RF) within the Bremen FIR
- Traffic shall be handed off at the levels defined in the regulations below. If a specified level restriction cannot be met due to a lower RFL, traffic shall be handed off at RFL, if this does not cause a conflict with any other traffic. Otherwise traffic shall be coordinated.
- All in this LoA not listed flights can be transferred in cruise or under consideration of sector boundary.
- Deviations must be coordinated between the concerned sectors.

## 2. VATSIM position names

ATS unit	Sector	Callsign	Frequency	VATSIM code
Maastricht UAC	Celle	Maastricht Radar	133.950	EDYY_C_CTR
	Holstein		120.950	EDYY_H_CTR
	Jever		134.700	EDYY_J_CTR
	Solling		131.375	EDYY_S_CTR
	Münster		133.850	EDYY_M_CTR
	Ruhr		132.625	EDYY_R_CTR
EuroCenter	Maastricht	Maastricht Eurocontrol	135.450	EURM_CTR
Bremen ACC	Main /Aller East High	Bremen Radar	123.925	EDWW_A_CTR
	Deister		128.750	EDWW_D_CTR
	Eider		120.225	EDWW_E_CTR
	Combined		125.025	EDWW_CTR
	Hannover Arrival		131.325	EDDV_APP
Langen ACC	Paderborn High	Langen Radar	135.650	EDGG_P_CTR
	Taunus		127.650	EDGG_T_CTR
	Combined		135.725	EDGG_CTR
	Münster Arrival		129.300	EDDG_APP
	Paderborn Arrival		125.225	EDLP_APP
	Regional Arrival combined		118.750	EDLW_APP

### 3. VATSIM sector definitions

VATSIM sector	Vertical limits	Sector code	Responsible ATS unit (in order of precedence)
Maastricht Celle	FL245 – FL660	EDYYC	<ol style="list-style-type: none"> <li>1. EDYY_C_CTR</li> <li>2. EDWW_D_CTR</li> <li>3. EDWW_A_CTR</li> <li>4. EDWW_CTR</li> <li>5. EDYY_M_CTR</li> <li>6. EDYY_R_CTR</li> <li>7. EDGG_T_CTR</li> <li>8. EDGG_CTR</li> <li>9. EURM_CTR</li> </ol>
Maastricht Holstein	FL245 – FL660	EDYYH	<ol style="list-style-type: none"> <li>1. EDYY_H_CTR</li> <li>2. EDYY_C_CTR</li> <li>3. EDWW_A_CTR</li> <li>4. EDWW_CTR</li> <li>5. EURM_CTR</li> </ol>
Maastricht Jever	FL245 – FL660	EDYYJ	<ol style="list-style-type: none"> <li>1. EDYY_J_CTR</li> <li>2. EDYY_C_CTR</li> <li>3. EDWW_E_CTR</li> <li>4. EDWW_A_CTR</li> <li>5. EDWW_CTR</li> <li>6. EURM_CTR</li> </ol>
Maastricht Solling	FL245 – FL660	EDYY S	<ol style="list-style-type: none"> <li>1. EDYY_S_CTR</li> <li>2. EDYY_C_CTR</li> <li>3. EDWW_D_CTR</li> <li>4. EDWW_A_CTR</li> <li>5. EDWW_CTR</li> <li>6. EDYY_M_CTR</li> <li>7. EDYY_R_CTR</li> <li>8. EDGG_T_CTR</li> <li>9. EDGG_CTR</li> <li>10. EURM_CTR</li> </ol>
Maastricht Münster	FL245 – FL660	EDYYM	<ol style="list-style-type: none"> <li>1. EDYY_M_CTR</li> <li>2. EDYY_R_CTR</li> <li>3. EDGG_T_CTR</li> <li>4. EDGG_P_CTR</li> <li>5. EDGG_CTR</li> <li>6. EDWW_A_CTR</li> <li>7. EDWW_D_CTR</li> <li>8. EDWW_CTR</li> <li>9. EURM_CTR</li> </ol>

Bremen CTR	GND – FL245	EMS	1. EDWW_D_CTR 2. EDWW_A_CTR 3. EDWW_CTR
	FL105 – FL245	DST	1. EDWW_D_CTR 2. EDWW_A_CTR 3. EDWW_CTR
	GND – FL245	HRZ	1. EDWW_D_CTR 2. EDWW_A_CTR 3. EDWW_CTR
Bremen EDDV_APP	GND – FL105	HAN	1. EDDV_APP 2. EDWW_D_CTR 3. EDWW_A_CTR 4. EDWW_CTR
Langen CTR	FL115 – FL245	PADH	1. EDGG_P_CTR 2. EDGG_T_CTR 3. EDGG_CTR
Langen EDLP_APP	GND – FL135	PADL	1. EDLP_APP 2. EDLW_APP 3. EDGG_P_CTR 4. EDGG_T_CTR 5. EDGG_CTR
Langen EDDG_APP	GND – FL245	HMM	1. EDDG_APP 2. EDLW_APP 3. EDGG_P_CTR 4. EDGG_T_CTR 5. EDGG_CTR

#### 4. Flights from Langen ACC (EDLL) to Bremen ACC (EDWW)

	Airport	FIX	Altitude	Remarks
↑	EDDG <i>Münster-Osnabrück</i>	OSN	FL110	RWY 25 in use
			FL070	RWY 07 in use
↑	EDLP <i>Paderborn-Lippstadt</i>	WRB	FL070	-
↓	EDDH <i>Hamburg</i> EDHL <i>Lübeck</i> EDHI <i>Hamburg-Finkenwerder</i>	BASUM GUKMA	FL290	-
		MADOR (or abeam) DIRBO	FL250	
↓	EDDV <i>Hannover</i>	WRB	FL210	STAR cleared
↓	EDDW <i>Bremen</i>	DLE PIROT WRB	FL240	-
		OSN	FL190	
↓	EDVE <i>Braunschweig</i>	OSN	FL260	-
		WRB	FL330	
↓	EDVK <i>Kassel-Calden</i>	WRB	FL070	-

5. Flights from Bremen ACC (EDWW) to Langen ACC (EDLL)

	Airport	FIX	Altitude	Remarks
↑	<b>EDDV Hannover</b>	<b>OSN</b>	<b>FL180</b>	-
↑	<b>EDVK Kassel-Calden</b>	<b>WRB</b>	<b>FL060</b>	-
↓	<b>EDDG Münster-Osnabrück</b>	<b>OSN</b>	<b>FL060</b>	RWY 25 in use
			<b>FL140</b>	RWY 07 in use
		<b>WRB</b>	<b>FL140</b>	-
↓	<b>EDDK Köln-Bonn</b>	<b>PODER</b>	<b>FL220</b>	-
		<b>WRB</b>	<b>FL240</b>	
↓	<b>EDDL Düsseldorf</b>	<b>DENOL OSN WRB</b>	<b>FL260</b>	-
↓	<b>EDLN Mönchengladbach</b>	<b>DENOL OSN WRB</b>	<b>FL340</b>	-
↓	<b>EDLP Paderborn-Lippstadt</b>	<b>PIROT</b>	<b>FL180</b>	-
		<b>WRB</b>	<b>FL080</b>	
↓	<b>EDLV Weeze</b>	<b>DENOL</b>	<b>FL320</b>	-
↓	<b>EDLW Dortmund</b>	<b>OSN</b>	<b>FL200</b>	-
		<b>WRB</b>	<b>FL220</b>	

## 6. Delegation of the responsibility for the Provision of ATS

- none