

BDLI Matrix of Competencies

Questionnaire regarding FCAS

BDLI



June 2019



BDLI Matrix of Competencies

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2. PoCs of companies involved

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BDLI Matrix of Competencies

Questionnaire regarding FCAS

In April/May 2019, the BDLI launched a questionnaire to visualise the competencies in the German Aerospace Industry with regard to international programs, like FCAS.

The following pages clearly show that the German Aerospace Industry is capable of meeting the requirements to be a major player in new programs bringing in its renowned expertise.

Answering the **4 questions** m.b., participating BDLI member companies provide information on the following **9 product groups** and the relevant 53 products.



1. Short description of competency
2. Reference
3. Product Innovation Outlook
4. Relevant to
 - Fighter
 - Remote Carriers



1. Materials
2. Components
3. Airframe Systems
4. Avionics
5. Power Systems
6. Production
7. Testing
8. Services
9. Other Components

BDLI Kompetenzmatrix ÜBERSICHT	MATERIALS				COMPONENTS												AIRFRAME SYSTEMS						AVIONICS										
	Coatings	Composites	Non-metal Materials	Other Materials	Active Electronic Components	Actuation	Bearings	Electrical Components	Electrical/Electronic Connectors	Fasteners	Lighting	Mechanical Components	Mechanical Connectors	Non-Mechanical Components	Passive Electronic Components	Sensors, Transducers & Detectors	Structural Components	Valves	Airframe Assemblies	Cabin Interiors	Crew Seating	Fluid Power	Landing Assemblies	Weapons Systems	Avionic Components	Communications (Airborne)	Flight and Data Management	Indicators and Instruments	Navigation Aids (Airborne)	Warning Systems	Defensive Aids Systems		
AERO-Bildungs GmbH																																	
Airbus Defence and Space	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Airbus DS Airborne Solutions GmbH																												x					
Aircraft Philipp Group				x													x																
AKG Thermotechnik GmbH & Co. KG												x																					
AKKA Germany	x	x	x		x	x		x			x	x			x	x	x		x	x	x		x	x	x	x	x		x	x	x		
ASBU for Future GmbH																												x					
Asco Industries		x		x		x						x					x		x					x									
ASG Luftfahrttechnik und Sensorik GmbH																x		x															
Astute GmbH								x	x	x	x					x								x						x			
ATT Umweltsimulation GmbH																																	
Autoflug GmbH						x						x								x	x	x											
B/E Aerospace Systems GmbH																x		x		x													
Biersack Aerospace												x	x						x														
Bodycote Wärmebehandlung GmbH				x																													
Caro-Prometa GmbH				x			x					x												x									
CIMPA GmbH																																	
DAHER Aerospace GmbH																				x													
Deienne Multiplasturgy Group		x	x																	x			x										
Diehl Aerospace					x											x				x						x		x					
Diehl Defence GmbH & Co. KG	x	x			x	x		x		x		x			x	x								x		x			x	x	x		

BDLI Kompetenzmatrix ÜBERSICHT	MATERIALS				COMPONENTS												AIRFRAME SYSTEMS						AVIONICS									
	Coatings	Composites	Non-metal Materials	Other Materials	Active Electronic Components	Actuation	Bearings	Electrical Components	Electrical/Electronic Connectors	Fasteners	Lighting	Mechanical Components	Mechanical Connectors	Non-Mechanical Components	Passive Electronic Components	Sensors, Transducers & Detectors	Structural Components	Valves	Airframe Assemblies	Cabin Interiors	Crew Seating	Fluid Power	Landing Assemblies	Weapons Systems	Avionic Components	Communications (Airborne)	Flight and Data Management	Indicators and Instruments	Navigation Aids (Airborne)	Warning Systems	Defensive Aids Systems	
E.I.S. Electronics GmbH							x	x												x				x								
Eaton Germany GmbH											x	x																				
Elbe Flugzeugwerke GmbH	x	x					x				x						x		x	x					x							
Elektro-Metall Export GmbH					x	x	x									x				x												
EOS GmbH																																
ESG Elektroniksystem- und Logistic GmbH																									x							
ETW - European Transonic Windtunnel GmbH																																
GKN Aerospace Deutschland GmbH	x	x												x			x															
Goodrich Lighting Systems GmbH											x																					
Günter Apelt GmbH											x																					
HEGGEMANN AG											x	x					x		x				x									
HEILIND Electronics GmbH								x																								
Heinkel Group		x															x		x	x												
Hensoldt Sensors GmbH																									x	x	x					x
Hexcel Composites GmbH		x																														
HYDRO Systems KG	x	x	x	x			x																									
IABG mbH		x	x	x		x	x				x						x	x	x	x			x	x	x	x						x
ILFA Feinstleitetertechnologie							x	x							x	x				x				x	x	x	x	x	x	x	x	x
IMA Materialforschung und Anwendungstech	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x			x		x							
INTEC Industrie-Technik GmbH & Co.KG																				x	x											
Jena-Optronik GmbH					x		x	x		x	x				x	x														x	x	x

BDLI Kompetenzmatrix ÜBERSICHT	MATERIALS				COMPONENTS												AIRFRAME SYSTEMS						AVIONICS									
	Coatings	Composites	Non-metal Materials	Other Materials	Active Electronic Components	Actuation	Bearings	Electrical Components	Electrical/Electronic Connectors	Fasteners	Lighting	Mechanical Components	Mechanical Connectors	Non-Mechanical Components	Passive Electronic Components	Sensors, Transducers & Detectors	Structural Components	Valves	Airframe Assemblies	Cabin Interiors	Crew Seating	Fluid Power	Landing Assemblies	Weapons Systems	Avionic Components	Communications (Airborne)	Flight and Data Management	Indicators and Instruments	Navigation Aids (Airborne)	Warning Systems	Defensive Aids Systems	
Jeppesen GmbH / Boeing Digital Solutions																				x												
JK Defence & Security Products GmbH																											x					
Liebherr Aerospace GmbH		x			x	x		x				x				x		x					x	x				x				
Lufthansa Technik																																
MBDA Deutschland GmbH	x	x				x									x	x									x	x	x				x	
MBFZ toolcraft GmbH																																
MHR GmbH																																
MT Aerospace AG	x	x	x	x							x	x	x				x		x													
MTU Aero Engines AG	x	x	x		x	x	x	x	x		x	x			x	x	x	x								x		x				
Nord-Micro								x								x		x									x					
OHB System, AG																x											x	x				
OTTO FUCHS KG		x		x													x															
PFW Aerospace GmbH		x	x									x	x										x									
Philotech Group																																
Premium Aerotec GmbH	x	x		x				x				x					x		x													
ProxiVision GmbH	x		x		x			x								x									x							
Raytheon Deutschland GmbH																																
RECARO Aircraft Seating GmbH																																
Robert Hofmann GmbH			x	x																												
Rockwell Collins Deutschland GmbH																										x	x	x	x	x		
Rolls-Royce																																

BDLI Kompetenzmatrix ÜBERSICHT	MATERIALS				COMPONENTS											AIRFRAME SYSTEMS					AVIONICS											
	Coatings	Composites	Non-metal Materials	Other Materials	Active Electronic Components	Actuation	Bearings	Electrical Components	Electrical/Electronic Connectors	Fasteners	Lighting	Mechanical Components	Mechanical Connectors	Non-Mechanical Components	Passive Electronic Components	Sensors, Transducers & Detectors	Structural Components	Valves	Airframe Assemblies	Cabin Interiors	Crew Seating	Fluid Power	Landing Assemblies	Weapons Systems	Avionic Components	Communications (Airborne)	Flight and Data Management	Indicators and Instruments	Navigation Aids (Airborne)	Warning Systems	Defensive Aids Systems	
RUAG Aerostructures	x	x														x		x														
Safran Electronics & Defense Germany GmbH																x																
Schaeffler Aerospace	x				x	x	x				x					x								x								
Schölderle GmbH			x	x							x			x			x															
SGS Germany GmbH																																
Sitec Aerospace						x					x							x					x									
SKF GmbH							x																									
Spherea GmbH																																
TENNANT Metall & Technologie GmbH				x																												
Test-Fuchs GmbH																						x										
Thales Deutschland					x										x	x									x	x	x	x				
TRIGO Qualitaire GmbH																																
Trumpf Laser- und Systemtechnik GmbH		x																														
usb GmbH																																
VINCORION - Jenoptik Advanced Systems GmbH	x	x	x		x	x		x			x									x				x								
Wassermann Technologie GmbH				x																												
Westdeutscher Metall-Handel GmbH				x																												
ZF Luftfahrttechnik GmbH			x	x		x					x											x										
ZOLLERN GmbH&Co.KG - BU Investment Cas				x							x						x	x														

BDLI Kompetenzmatrix ÜBERSICHT	POWER SYSTEMS							PRODUCTION							TESTING		SERVICES		O.C.			
	Auxiliary Power	Electrical Power Systems	Engine Components	Engines	Fuel Systems	Power Transmission	Computer Integrated Manufacturing	Handling Equipment	Inspection Equipment	Machining	Manufacturing Services	Measurement	Production Equipment	Surface Treatment	Tooling	Tools	Aircraft Operations	Test Equipment	Test Services	Engineering Services	Training + Simulation	Other Components
AERO-Bildungs GmbH																						x
Airbus Defence and Space	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x	
Airbus DS Airborne Solutions GmbH																					x	x
Aircraft Philipp Group										x										x		
AKG Thermotechnik GmbH & Co. KG	x		x		x	x																
AKKA Germany		x	x	x							x						x	x	x	x	x	
ASBU for Future GmbH																						
Asco Industries										x												
ASG Luftfahrttechnik und Sensorik GmbH																						
Astute GmbH		x																				
ATT Umweltsimulation GmbH																		x				
Autoflug GmbH					x															x		x
B/E Aerospace Systems GmbH																						x
Biersack Aerospace										x												
Bodycote Wärmebehandlung GmbH														x								
Caro-Prometa GmbH																						
CIMPA GmbH							x													x	x	
DAHER Aerospace GmbH											x											
Dedienne Multiplasturgy Group					x					x				x	x							
Diehl Aerospace	x	x	x															x	x			x
Diehl Defence GmbH & Co. KG	x	x				x	x	x	x	x	x	x	x	x				x	x	x	x	

BDLI Kompetenzmatrix ÜBERSICHT	POWER SYSTEMS						PRODUCTION							TESTING		SERVICES		O.C.				
	Auxiliary Power	Electrical Power Systems	Engine Components	Engines	Fuel Systems	Power Transmission	Computer Integrated Manufacturing	Handling Equipment	Inspection Equipment	Machining	Manufacturing Services	Measurement	Production Equipment	Surface Treatment	Tooling	Tools	Aircraft Operations	Test Equipment	Test Services	Engineering Services	Training + Simulation	Other Components
E.I.S. Electronics GmbH										x												
Eaton Germany GmbH					x								x									
Elbe Flugzeugwerke GmbH		x					x											x	x	x		
Elektro-Metall Export GmbH			x																			
EOS GmbH												x										
ESG Elektroniksystem- und Logistic GmbH																	x	x	x	x	x	x
ETW - European Transonic Windtunnel GmbH																		x				
GKN Aerospace Deutschland GmbH								x	x	x	x	x	x	x	x					x		
Goodrich Lighting Systems GmbH																						x
Günter Apelt GmbH							x															
HEGGEMANN AG			x		x				x		x								x	x		
HEILIND Electronics GmbH																						
Heinkel Group																			x	x	x	
Hensoldt Sensors GmbH																						x
Hexcel Composites GmbH																						
HYDRO Systems KG			x	x				x		x		x		x	x		x	x	x	x	x	
IABG mbH				x	x												x	x	x	x	x	x
ILFA Feinstleitertechnologie	x	x																				
IMA Materialforschung und Anwendungstech			x																x	x	x	
INTEC Industrie-Technik GmbH & Co.KG		x					x							x						x	x	
Jena-Optronik GmbH										x								x		x		

BDLI Kompetenzmatrix ÜBERSICHT	POWER SYSTEMS							PRODUCTION							TESTING		SERVICES		O.C.			
	Auxiliary Power	Electrical Power Systems	Engine Components	Engines	Fuel Systems	Power Transmission	Computer Integrated Manufacturing	Handling Equipment	Inspection Equipment	Machining	Manufacturing Services	Measurement	Production Equipment	Surface Treatment	Tooling	Tools	Aircraft Operations	Test Equipment	Test Services	Engineering Services	Training + Simulation	Other Components
Jeppesen GmbH / Boeing Digital Solutions																					x	
JK Defence & Security Products GmbH																						x
Liebherr Aerospace GmbH	x	x			x	x			x	x			x				x		x			
Lufthansa Technik																						x
MBDA Deutschland GmbH																			x	x		
MBFZ toolcraft GmbH									x	x	x											
MHR GmbH																			x			
MT Aerospace AG			x					x	x						x				x			x
MTU Aero Engines AG	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x				x	
Nord-Micro			x				x		x		x	x	x					x				
OHB System, AG																						
OTTO FUCHS KG			x																			
PFW Aerospace GmbH				x					x				x							x		
Philotech Group																			x	x	x	
Premium Aerotec GmbH				x		x	x	x	x	x	x	x	x	x	x		x	x	x			x
ProxiVision GmbH																		x		x		
Raytheon Deutschland GmbH																					x	
RECARO Aircraft Seating GmbH																						
Robert Hofmann GmbH															x							
Rockwell Collins Deutschland GmbH																		x			x	
Rolls-Royce	x			x																		

BDLI Kompetenzmatrix ÜBERSICHT	POWER SYSTEMS						PRODUCTION								TESTING		SERVICES		O.C.			
	Auxiliary Power	Electrical Power Systems	Engine Components	Engines	Fuel Systems	Power Transmission	Computer Integrated Manufacturing	Handling Equipment	Inspection Equipment	Machining	Manufacturing Services	Measurement	Production Equipment	Surface Treatment	Tooling	Tools	Aircraft Operations	Test Equipment	Test Services	Engineering Services	Training + Simulation	Other Components
RUAG Aerostructures				x			x	x	x	x	x	x	x	x	x			x	x	x		
Safran Electronics & Defense Germany GmbH																						
Schaeffler Aerospace	x	x		x		x				x	x		x					x	x			x
Schölderle GmbH			x			x	x	x	x	x	x	x		x								
SGS Germany GmbH																			x	x		
Sitec Aerospace																						
SKF GmbH																						
Spherea GmbH											x			x	x			x				
TENNANT Metall & Technologie GmbH																				x		
Test-Fuchs GmbH					x										x			x		x		
Thales Deutschland										x								x	x		x	x
TRIGO Qualitaire GmbH																						
Trumpf Laser- und Systemtechnik GmbH												x										
usb GmbH																					x	
VINCORION - Jenoptik Advanced Systems GmbH	x	x				x								x			x			x		
Wassermann Technologie GmbH									x	x	x											
Westdeutscher Metall-Handel GmbH									x													
ZF Luftfahrttechnik GmbH			x		x	x		x	x	x			x					x	x			
ZOLLERN GmbH&Co.KG - BU Investment Cas																						

BDLI Matrix of Competencies

Questionnaire regarding FCAS



2. PoCs of companies involved



BDL Kompetenzmatrix
ANSPRECHPARTNER

Firma	Titel	Nachname	Vorname	e-Mail	PLZ	Ort
AERO-Bildungs GmbH		Voit	Robert	Robert.Voit@aero-bildung.de	82205	Gilching
Airbus Defence and Space		Stoeber	Jan	jan.stoeber@airbus.com	82024	Taufkirchen
Airbus DS Airborne Solutions GmbH		Hastedt	Ralf	ralf.hastedt@airbusds-airborne.com	28309	Bremen
Aircraft Philipp Group		Philipp	Rolf	rolf.philipp@aircraft-philipp.com	83236	Übersee
ASBU for Future GmbH		Rudolph	Peter	Peter.Rudolph@a4f.aero	88690	Uhdingen-Mühlhofen
Astute GmbH		Seitz	Marcus	marcus.seitz@astute.global	83607	Holzkirchen
ATT Umweltsimulation GmbH		Ebner	Holger	h.ebner@att-uws.de	72131	Ofterdingen
Autoflug GmbH		Bode	Alexander	a.bode@autoflug.de	25462	Rellingen
B/E Aerospace Systems GmbH		Dramenski	Ralf	ralf.dramenski@collins.com	23560	Lübeck
Biersack Aerospace		Biersack	Michael	michael.biersack@biersack.de	92339	Beilngries
Bodycote Wärmebehandlung GmbH		Wägner	Martina	martina.waegner@bodycote.com	40549	Düsseldorf
Caro-Prometa GmbH		Winterstein	Henning	h.winterstein@caro-prometa.de	40472	Düsseldorf
CIMPA GmbH		Albers	Alfons	alfons.albers@cimpa.com	81541	Munich
DAHER Aerospace GmbH		Freimuth	Richard	r.freimuth@daher.com	86609	Donauwörth
Dedienne Multiplasturgy Group		Nienhaus	Dieter	d.nienhaus@dedienne.com	F 27600	St. Aubin sur Gaillon
Diehl Aerospace		Frederic	Migot	frederic.migot@diehl.com	88662	Überlingen
Diehl Defence GmbH & Co. KG		Krogmann	Dirk	dirk.krogmann@diehl-defence.com	88662	Überlingen
E.I.S. Electronics GmbH	Dr.	Müller	Burkhard	b.mueller@eis-electronics.de	27568	Bremerhaven
Eaton Germany GmbH		Knöchel	Harald	haraldknoechel@eaton.com	82205	Gilching
Elbe Flugzeugwerke GmbH		Kuhlich	Thomas	Thomas.Kuhlich@efw.aero	01109	Dresden
Elektro-Metall Export GmbH		Kamerer	David	david.kamerer@eme-in.de	85053	Ingolstadt
EOS GmbH		Behrendt	Udo	udo.behrendt@eos.info	82152	Krailling
ETW - European Transonic Windtunnel GmbH		Wright	Martin C.N.	mcw@etw.de	51147	Köln
GKN Aerospace Deutschland GmbH		Czaia	Dietmar	dietmar.czaia@gknaerospace.com	81249	München
Goodrich Lighting Systems GmbH		Heissig	Benno	benno.heissig@collins.com	59557	Lippstadt
Günter Apelt GmbH		Metzger	Reiner	reiner.metzger@apelt-gmbh.de	72348	Rosenfeld
HEGGEMANN AG		Breustedt	Sven	breustedt@heggemann.com	33142	Büren

BDL Kompetenzmatrix
ANSPRECHPARTNER

Firma	Titel	Nachname	Vorname	e-Mail	PLZ	Ort
HEILIND Electronics GmbH		Oettl	Matthias	moettl@heilind.com	83620	Feldkirchen-Westerham
Heinkel Group		Heder	Manuel	Manuel.Heder@heinkel-group.com	21129	Hamburg
Hensoldt Sensors GmbH	Dr.	Brandstetter	Armin	armin.brandstetter@hensoldt.net	89077	Ulm
Hexcel Composites GmbH	Dipl.Ing	Kobow	Hans-Christian	Hans-Christian.Kobow@hexcel.com	21684	Stade
HYDRO Systems KG		Waidele	Michael	Michael.Waidele@hydro.aero	77781	Biberach / Baden
IABG mbH		Kaiser	Jasmin	kaiserj@iabg.de	85521	Ottobrunn
ILFA Feinstleitetchnologie		Behrendt	Christian Georg	c.behrendt@ilfa.de	30559	Hannover
IMA Materialforschung und Anwendungstechnik GmbH		Herold	Nancy	Nancy.Herold@ima-dresden.de	01109	Dresden
INTEC Industrie-Technik GmbH & Co.KG		Sieve	Daniel	dsieve@intecg.de	86609	Donauwörth
Jena-Optronik GmbH		Schmidt	Robin	robin.schmidt@jena-optronik.de	07745	Jena
Jeppesen GmbH / Boeing Digital Solutions	Dr.	Schiefele	Jens	jens.schiefele@boeing.com	61369	Neu-Isenburg
JK Defence & Security Products GmbH		Kalweit	Philip	pkalweit@jkdefence.de	47906	Kempen
Liebherr Aerospace GmbH		Hummel	Thomas	thomas.hummel@liebherr.com	88161	Lindenberg
Lufthansa Technik	Dr.	de Beer	Christoph	christoph.debeer@lht.dlh.de	22335	Hamburg
MBDA Deutschland GmbH	Dipl. Ing.	Gilch	Joachim	joachim.gilch@mbda-systems.de	86529	Schrobenhausen
MBFZ toolcraft GmbH		Hauck	Christoph	christophauck@toolcraft.de	91166	Georgensgmünd
MHR GmbH		Zorenböhrer	Jörg	jzorenboehmer@mhr-gmbh.de	85521	Ottobrunn-Riemerling
MT Aerospace AG		Staudt	Markus	markus.staudt@mt-aerospace.de	86153	Augsburg
MTU Aero Engines AG	Dr. Ing	Ebenhoch	Gerhard	gerhard.ebenhoch@mtu.de	80995	München
Nord-Micro	Dr.	Raab	Ulrich	ulrich.raab@collins.com	60388	Frankfurt
OHB System, AG		Wetjen	Wilfried	wilfried.wetjen@ohb.de	28359	Bremen
OTTO FUCHS KG		Grotepass	Jörn	joern.grotepass@otto-fuchs.com	58540	Meinerzhagen
PFW Aerospace GmbH		Müller	Jens	jens.mueller@pfw.aero	67346	Speyer
Philotech Group		Dirscherl	Hartwig	hd@philotech.de	82024	Taufkirchen
Premium Aerotec GmbH		Schuetz	Florian	florian.schuetz@premium-aerotec.com	86179	Augsburg
ProxiVision GmbH	Prof.-Dr.	Ahlers	Rolf-Jürgen	r.ahlers@proxivision.de	64625	Bensheim

**BDI Kompetenzmatrix
ANSPRECHPARTNER**

Firma	Titel	Nachname	Vorname	e-Mail	PLZ	Ort
Raytheon Deutschland GmbH		Verton	Sebastiaan	s-verton@raytheon.com	85356	Freising
RECARO Aircraft Seating GmbH	Dr.	Hiller	Mark	mark.hiller@recao-as.com	74523	Schwäbisch Hall
Robert Hofmann GmbH		Henzler	Jens	Jens.Henzler@hofmann-imm.de	96215	Lichtenfels
Rockwell Collins Deutschland GmbH		Krön	Uwe	uwe.kroen@collins.com	69123	Heidelberg
Rolls-Royce	Dr.	Rabert	Bernhard	bernhard.rabert@rolls-royce.com	10117	Berlin
RUAG Aerostructures	Dipl.-Ing.	Gondeck	Matthias	matthias.gondeck@ruag.com	82205	Gilching
Safran Electronics & Defense Germany GmbH		TAUFFLIEB	Edouard	edouard.taufflieb@safrangroup.com	71711	Murr
Schaeffler Aerospace	Dr.-Ing.	Glöckner	Peter	peter.gloeckner@schaeffler.com	97421	Schweinfurt
Schölderle GmbH		Boll	Manfred	m.boll@schoelderle.de	82346	Andechs
SGS Germany GmbH		Dyck	Christoph	christoph.dyck@sgs.com	81379	München
Sitec Aerospace		Zirkel	Alexander	alexander.zirkel@sitec-aerospace.com	83646	Bad Tölz
SKF GmbH		Kerber	Carsten	carsten.kerber@skf.com	97421	Schweinfurt
Spherea GmbH		Kugelmann	Martin	martin.kugelmann@spherea.de	89077	Ulm
TENNANT Metall & Technologie GmbH		Tennant-Loscher	Leonie	post@tenant-metall.de	44628	Herne
Test-Fuchs GmbH		Sarnow	Hans	h.sarnow@test-fuchs.com	85435	RDING
Thales Deutschland		Dörre	Oliver	oliver.doerre@thalesgroup.com	71254	Ditzingen
TRIGO Qualitaire GmbH		Held	Wolfgang	Wolfgang.Held@trigo-group.com	28307	Bremen
Trumpf Laser- und Systemtechnik GmbH		Müller	Matthias	matthias.mueller@trumpf.com	71254	Ditzingen
usb GmbH		Rosenberger	Claudia	claudia.rosenberger@usb-muc.de	82024	Taufkirchen
VINCORION - Jenoptik Advanced Systems GmbH	Dr.	Wildhagen	Christian	christian.wildhagen@icloud.com	22880	Wedel
Wassermann Technologie GmbH		Krönung	Stefan	s.kroenung@wassermann-technologie.de	36124	Eichenzell
Westdeutscher Metall-Handel GmbH		Hermann	Frank	frank.hermann@wmh.de	45141	Essen
ZF Luftfahrttechnik GmbH		Knoblich	Dominik	dominik.knoblich@zf.com	34379	Calden
ZOLLERN GmbH&Co.KG - BU Investment Casting		Kellner	Uwe	uwe.kellner@zollern.com	72517	Laucherthal - Sigmaringendorf