Using BMW Rheingold ISTA with USB K+D-CAN cable

1. Plug your K+D-CAN cable and install drivers. For FTDI based cables use latest drivers.

2. Open "Device Manager", then USB Serial Port properties, go to "Port Settings" tab and click "Advanced...". Change port number to "COM9" and latency timer to "1". Confirm configuration via "OK" button.

E Device Manager		_ _ ×
File Action View Help		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
 DarkSystem Batteries 	USB Serial Port (COM3) Properties	×
 Image: second sec	General Port Settings Univer Details	
 DVD/CD-ROM drives Imaging devices Network adapters Portable Devices Ports (COM & LPT) Companying training Port USB Serial Port (COM Processors Sound, video and game Storage controllers System devices Universal Serial Bus cont 	rt (Bits per second: 9600 Data bits: 8 Parity: None Bits per second: 9600 Parity: None Stop bits: 1 Flow control: None Advanced	V V V V V V Restore Defaults
	The No USB Serial Port (COM3) Properties	
Computer	Advanced Settings for COM3 COM Port Number: USB Transfer Sizes Select lower settings to correct performance problems at low Select higher settings for faster performance.	OK Cancel Defaults
USB Serial Port (COM3) USB Serial Port (COM3) USB Serial Port (COM3) Sound, video and game corr Storage controllers Storage controllers	Receive (Bytes): 4096 ▼ Transmit (Bytes): 4096 ▼	
 Wiversal Serial Bus controll 	BM Options Select lower settings to correct response problems. Latency Timer (msec):	Miscellaneous Options Serial Enumerator Serial Printer Cancel If Power Off
	Timeouts Minimum Read Timeout (msec): Minimum Write Timeout (msec):	Event On Surprise Removal Image: Constraint of the second secon

3. Open C:\EDIABAS\BIN\EDIABAS.INI with Notepad and check for "Interface = STD:OBD". In TCP settings set "Port = 6801".

EDIABAS - Notepad		
File Edit Format	View Help	
;################	*##	
;################	*##	E
[Configuration]		
Interface	= STD:OBD	
#Interface	= REMOTE	
Simulation	= 0	
EcuPath	= C:\EDIABAS\ECU	
SimulationPath		
TraceSize	= 1024	
ApiTrace	= 0	
IfhTrace	= 0	
; IffnnTrace	= 0	
; SystemTraceSys	5 = 0	
; SystemTraceBi	0 = 0	
; SystemTraceIf	n = 0	
; SystemTraceNe	c = 0	
: BipDebugLevel	= 0	
; BipErrorLevel	= 0	
UbattHandling	= 0	
IgnitionHandlin	$\mathbf{g} = 0$	
ClampHandling	= 0	
The Case		
•	III	*

EDIABAS - Notepad	
File Edit Format View Help	
TraceSync = 1 ; TraceWriter = <filepathname></filepathname>	100
[TCP]	
Remotiliosc 102 168.68.40 Port = 6801	
TimeoutReceive = 2000 TimeoutFunction = 10000 ; TimeResponsePending = 5000 ; DisconnectOnApiEnd = 1 ; InitCmd0 = FE,04,00,03,01 ; InitCmd1 = FD,05,00,03,01	
[XEthernet]	
RemoteHost = Autodetect HeaderFormat = 0 TesterAddress = F4,F5 ControlPort = 6811 DiagnosticPort = 6801 TimeoutConnect = 20000	
[IfhProxy]	
Port = 6700	
;####################################	
۲. m	

4. Open C:\EDIABAS\BIN\OBD.INI with Notepad and check for "Port=Com9".

obd - Notepad	
File Edit Format View Help	
[088]	
Port=Com9	
RETRY=ON	
;Tracelevel=0xFFFFFFF	
;Tracelevel=0xFFFFFFF	
; Tracelevel=0xF0000000	2001
: Bit 0 = Funktionsaufruf	E
; Bit 1 = io Ergebnis	
; Bit 2 = nio Ergebnis	
; Bit 3 = Detailinfos	
; NIDDIE U = readchar_wait . Nibble 1 - main	
Nibble 2 = cmd	
; Nibble 3 = obd	
; Nibble 4 = send_and_receive	
; NIDDIE 5 = read_telegram	
: Nibble $7 = \text{Send_ceregram}$	
[UNIT_A]	
Hardware=OBD	
[UNIT_B]	
Port=Com3	
Har dwar e=OBD	
[UNIT_C]	
Port=Com4	
Hardware=OBD	
	N 11

5. Connect car with K+D-CAN cable to PC.

6. Now run BMW Rheingold ISTA using shortcut in start menu and wait until it boots, then press settings button.

RHEINGOL	D	A				? 主 🗙		
	BMW Server Workshop	vice system			MINI Works	Service shop system		
Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices		
News						Date		
ISTA version 3.45 -	Contents and notes, dia	gnosis				25/07/2014		
ISTA version 3.45 -	ISTA version 3.45 - New contents for repair literature							
ISTA version 3.45 -	Contents and notes, nor	n-electrical diagnosis (NED)			17/07/2014		
ISTA version 3.44 -	New contents for repair	literature				22/05/2014		
ISTA usage notes						31/10/2013		
						Display		

7. Select "VCI Config" tab and "Ediabas standard settings (ediabas.ini)", then "OK".

BMW Service MINI Service Atviendation Implication Implication	RHEINGOLD)	ħ		P [10	B		- ?	K	X
Administration Problem handling Config Client settings Dealer data Version Problem handling Config Interface type: Ediabass standard settings (ediabas in) SISE Hosts or IPs: Search Broadcast: 255255255255169254255255 OMTEC interface (USB / serial) Search Broadcast: 255255255169254255255 O HO-ICOM / ENET local und ISIS network SCORE Broker Hosts: Control (Control of the Connection via ICOM?) O HO-ICOM / ENET direct connection O Yes O No Preload programming components at startup? Yes O No FASTA data transfer mode: O Background transfer service (central systems) O ISIS transfer service (via workalop Jetstream)		BMW Ser	vice		1.000 I I I I I I		MIN	I Servi	ce	
Client settings Dealer data Version Problem handling VCL Config Interface type: Ediabass standard settings (ediaban in) OMITEC interface (USB) / serial) GMITEC interface (USB) / serial) GMOTEC interface (USB) / serial) GMOTEC interface (USB) / serial) GMOTEC interface (USB) / serial) Search Broadcast: 25255255169.254255255 HO-ICOM / ENET local und ISIS network HO-ICOM / ENET direct connection Simulation Score: Broadcast: 255255255169.254255255 Probatem Score: Broadcast: 255255255169.254255255 O HO-ICOM / ENET direct connection Score: Broadcast: 255255255169.254255255 O Yes No Probatem groupsonts at startup? Yes No Probatem groupsonts at startup? O Yes No FASTA data transfer mode: Background transfer service (central systems) ISIS transfer service (via workshop Jetstream) Cancel Keyboard	Administration						-		?	X
Interface type: Glabbas standard settings (ediabas in) OMTEC interface (USB / serial) HO-ICOM / ENET local network HO-ICOM / ENET local network HO-ICOM / ENET local und ISIS network HO-ICOM / ENET direct connection Simulation SCORE Broker Hosts: Ethernet as preferred communication channel when connected via ICOM? Yes	Client settings	Dealer data	Version	Transfer Monitor	Problem	m 19	VCI Config			
 	Interface type:		_	ISIS Hosts or	IPs:		-			
 O HO-HCOM / ENET local network O HO-HCOM / ENET local und ISIS network O HO-HCOM / ENET direct connection O Yes O No Protoad programming components at startup? O Yes O No FASTA data transfer mode: O Background transfer service (via workahop Jetstream) 	 Ediabas standar O OMITEC interface 	/d settings (ediaba .ce (USB / serial)	is.ini)	Search Broad	icast:	255.255.255.2	255,169,254,255,255	í.		
C HO-ICOM / ENET local und ISIS network O HO-ICOM / ENET direct connection O Simulation Ethernet as preferred communication channel when connected via ICOM? O Yes © No Preload programming components at startup? O Yes © No FASTA data transfer mode: © Background transfer service (central systems) O ISIIS transfer service (via workshop Jetstream)	O HO-ICOM / ENE	ET local network		SCORE Broke	er Hosts:					
O Simulation O Yes	O HO-ICOM / ENE	T local und ISIS n	network m	Ethernet as p	referred cor	nmunicaton cl	hannel when cor	nnected via ICC	M?	
Cancel Keyboard	O Simulation			O Yes	No					
Cancel Keyboard				Preioad progr	amming co	mponents at s	tartup7			
FASTA data transfer mode: O Background transfer service (central systems) O ISIS transfer service (via workshop Jetstream) OK Cancel Keytoart				O ves	@ No					
O Background transfer service (central systems) O ISIS transfer service (via workshop Jetstream)				FASTA data t	ransfer mod	le:				
Cancel Keyboard				O Background	d transfer se	ervice (central	systems)			
Cancel Keyboard OK				O ISIS transfe	er service (v	ia workshop J	letstream)			
Cancel Keyboard OK										
Cancel Keyboard OK										
Cancel Keyboard OK								-	_	>
	Cancel	Keyboard							DK	

8. Go "Operations", then "Read Out Vehicle Data" and "Complete Identification".

RHEINGOL	D BMW Service	ñ		+	1		MINI		×
	Workshop sys	tem					Works	hop syst	em
Operations	Vehicle information Vehicle management	ie gement	Service plan	Fa	vourites	Work	shop/ ating fluids	Measuring devices	
News								Date	
ISTA vension 3.45 -	Contents and notes, diagnosis								
ISTA version 3.45 -	New contents for repair literature	E.						25/07/2014	
ISTA version 3.45 -	Contents and notes, non-electric	al diagnosis	(NED)					17/07/2014	
ISTA version 3.44 -	New contents for repair literature	E.						22/05/2014	
ISTA usage notes								31/10/2013	
								Display	
RHEINGOL	.D	A		1	en S		N 15	? 🖃	×
Operations	Vehicle information Vehicle	e	Service plan	Fa	vourites	Work	shop/	Measuring	
New	Einished	gement				Oper	ating fluids	devices	
	Read Out								
VIN	Vehicle Data	reatures							
- Connect vehicle i	nterface.								
- Switch on vehicle	ignition.								
						identii V	fication without chicle test	Complete Identification	

RHEINGO	DLD		â	4		1	S			? 🗔	
IN:	Vehicle:					1040		KL 15:	-	KL 30:	-
Operations	Vehicle inform	ation	Vehicle management		Service plan	Favourite	35	Workshop/ Operating fluids	de	easuring vices	
Vehicle details	Repair history					Operation	is report		101		
VIN											^
Series		Devel	opment code:		Product	ion date		Gearbox			
Model		Engin	e		Nationa	I-market version		Body			
Steering		First	Ongoing backgro	und pr	Continue.		X	Gearbox number			
Basic type (mode	I code)	Warre	Vehicle Identifi	cation	1		-	Paint code			
Type approval no		Drive	2		U		8	Uphoistery code			
Construction date	5	integr	ation level factory:		Integrat	ion level actual:					
Technical actions	5										
Status	Special defect code	Title									
Customer compla	aint.										
Breakdown:											
U Yes	© No							Start webicle lier	e. 19		-
										1911-190394	

Using BMW Rheingold ISTA with ICOM

1. Open used for connection network adapter properties, then "Internet Protocol Version 4 (TCP/IPv4)" properties, then enter 169.254.1.1 for "IP address" and 255.255.0.0 for "Subnet mask".

letworking	
Connect using:	General
Intel(R) PRO/1000 MT Network Connection	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
This connection uses the following items:	Obtain an IP address automatically
Client for Microsoft Networks	O Use the following IP address:
🗹 📮 QoS Packet Scheduler	IP address: 169 . 254 . 1 . 1
File and Printer Sharing for Microsoft Networks	Subnet mask: 255 . 255 . 0 . 0
	Default gateway:
Internet Protocol Velsion 4 (TCP/IPV4) Driver Link-Layer Topology Discovery Responder	Default gateway:
Link-Layer Topology Discovery Responder	Default gateway: Obtain DNS server address automatically Image: Use the following DNS server addresses:
Internet Protocol Version 4 (CCP/1943) Driver Link-Layer Topology Discovery Responder Install Uninstall Properties	Default gateway: Obtain DNS server address automatically Image: Server address automatically Image: Use the following DNS server addresses: Preferred DNS server:
Internet Protocol Version 4 (TCP/IPV4) Description Install Uninstall Properties Description Transmission Castral Restance/Internet Restance/Internet Transmission Castral Restance/Internet Restance/Internet	Default gateway: Obtain DNS server address automatically Outse the following DNS server addresses: Preferred DNS server: Alternate DNS server:
Install Uninstall Properties Description Transmission Control Protocol /Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Default gateway: . Obtain DNS server address automatically Image: Use the following DNS server addresses: Preferred DNS server: Alternate DNS server: . Image: Validate settings upon exit

2. If VMware is installed, open Virtual Network Editor and disconnect from the host any adapters with Subnet Address 169.254.0.0.

i venne	Туре	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Realtek PCIe GBE Family	Co	1.1	-
veneti	Custom		-		169.254.0.0
				[.)
VMnet Info	vmation			Add Netw	Remove Networ
Bridged	d (connect)	VMs directly to the external	network)		
	d to: Real	Itek PCTe GBE Family Contro	ler		Automatic Settings
Bridge		TEN PLATE VILL I CHING VILLIDID	HCI		Hatomade berangstor
Bridge	Keal				
Bridge	hared host's	s IP address with VMs)			NAT Settings
Bridge	hared host's	s IP address with VMs) t VMs internally in a private	network)		NAT Settings
Bridge NAT (sl Host-or	hared host nly (connec :t a host vir	's IP address with VMs) It VMs internally in a private Itual adapter to this network	network)		NAT Settings
Bridge NAT (sl Host-on Connect Host v	hared host's nly (connec ct a host vir irtual adapt	s IP address with VMs) It VMs internally in a private Itual adapter to this network ter name: vMware Network	network) k Adapter VMnet1		NAT Settings
Bridge NAT (sl Host-or Host v Use loc	hared host nly (connec ct a host vir irtual adapt al DHCP ser	s IP address with VMs) It VMs internally in a private Itual adapter to this network for name: VMware Network rvice to distribute IP addres	network) Adapter VMnet1 s to VMs		DHCP Settings
Bridge NAT (sl Host-or Host v Use loc	hared host nly (connec ct a host vir irtual adapt al DHCP ser	s IP address with VMs) It VMs internally in a private tual adapter to this network ter name: vMware Network rvice to distribute IP addres	network) Adapter VMnet1 s to VMs		NAT Settings DHCP Settings

3. Open C:\EDIABAS\BIN\EDIABAS.INI with Notepad and check for "Port = 6801" in TCP settings.

EDIABAS - Notepad		x
File Edit Format	View Help	
TraceSync ; TraceWriter	= 1 = <filepathname></filepathname>	*
[TCP]		-
Remetaliose Port	$ \begin{array}{r} 102, 168, 68, 40 \\ = 6801 \\ 2000 \end{array} $	
TimeoutReceive TimeoutFunction ; TimeResponsePe ; DisconnectOnAp ; InitCmd0 ; InitCmd1	= 2000 = 10000 ending = 5000 piEnd = 1 = FE,04,00,03,01 = FD,05,00,03,01	
;=====================================		=
, RemoteHost HeaderFormat TesterAddress ControlPort DiagnosticPort TimeoutConnect	= Autodetect = 0 = F4,F5 = 6811 = 6801 = 20000	-
[IfhProxy]		=
Port	= 6700	.
;#####################################	**************************************	# # # # # #
4	III.	F

4. Connect car with ICOM to PC.

5. Now run BMW Rheingold ISTA using shortcut in start menu and wait until it boots, then press settings button.

RHEINGOL	D	Â	< P > (1	8		? 5	X
	BMW Service Workshop sys	stem				MINI S Works	Service hop sy	stem
Operations	Vehicle information Vehi man	cle agement	Service plan	Favourites	Wo Opt	rkshop/ erating fluids	Measuring devices	
News							Date	
ISTA version 3.45 -	Contents and notes, diagnosis						25/07/2014	
ISTA version 3.45 -	New contents for repair literatu	re					25/07/2014	
ISTA version 3.45 -	Contents and notes, non-electr	rical diagnosis	(NED)				17/07/2014	
ISTA version 3.44 -	New contents for repair literatu	re					22/05/2014	
15 I A usage notes							31/10/2013	
							Disp	lay

7. Select "VCI Config" tab and "HO-ICOM/ENET local and ISIS network", then "OK".

RHEINGO	LD	n	1		1	P		55			10	?	x	X
VIN:	Vehicle:									KL	15: -		a. 30: -	-
Administration				+		~~			1				?	X
Client settings	Dealer data	Version		Transfe	er Monitor	P	roblom		(VCI Con	fig				
Interface type	c			ISI	S Hosts o	r IPs:			-	-	~			
O Ediabas sta	O Ediabas standard settings (ediabas ini) O OMITEC interface (USB / serial) O HO-ICOM / ENET local network			Sei	arch Broa	dcast:		255.255.	255.255,165	254.255.25	55			
O HO-ICOM/				SC	ORE Bro	ker Hos	ts:							
HO-ICOM /	ENET local und ISIS n	etwork >		Eth	emet as	preferre	d comm	nunicato	on channe	l when c	onnected	d via ICC	OM?	
O HO-ICOM/	ENET direct connection	0		01	fes		No							
O Simulation				Pre	load prog	rammi	ng comp	onents	at startup	17				- 1
				01	fes	6	No No							
				FA	STA data	transfe	r mode:							
				OE	Sackgrou	nd trans	fer serv	rice (cer	ntral syste	ms)				- 1
				0	SIS trans	fer serv	ice (via	worksh	op Jetstre	sam)				
	_	_										_		_
Cancel	Keyboard										0		OK	

8. Go "Operations", then "Read Out Vehicle Data" and "Complete Identification".

RHEINGOLD	â		1	5		? 🗵	X
BMW Ser Workshop	vice o system				MINI S Works	Service shop syst	tem
Operations Vehicle information	n Vehicle management	Service pl	an Favouri	tes Wo	rkshop/ erating fluids	Measuring devices	
Nows						Date	
ISTA version 3.45 - Contents and notes, d						25/07/2014	
ISTA version 3.45 - New contents for repa	ir Merature					25/07/2014	
ISTA version 3.45 - Contents and notes, n	on-electrical diagno	osis (NED)				17/07/2014	
ISTA version 3.44 - New contents for repa	ir literature					22/05/2014	
ISTA usage notes						31/10/2013	
						Display	
RHEINGOLD	â		1	Ø 🖻		? 🗷	X
VIN: Vehicle:	Vehicle			Wo	KL 15: rkshop/	KL 30: Measuring	
Operations Vehicle informatio	n management	Service pl	an Favouri	tés. Op	erating fluids	devices	
New Finished							_
VIN Read Out Vehicle Data	Basic Features						
- Connect which interface							
- Switch on vehicle ignition.							
				Iden	vehicle test	Complete	\sim

9. Select your ICOM from the list and press "Set up connection" button.

RHEINGOLD		A 4		1	ß			?	X
VIN: Vehicle:							KL 15: -	KL 3	2 🛛
Connection manager		and the second	_			_			
Device ID C	olor Type			DON KU	- 169.25	1 247 242	KL 15 [V]	Status	
C ICOM0079464					100.20	4.241.242	13.6 V	Free	
Connect						Dave			
Cancer						Enter	& COMMISSION	Sei uh co	anecada
				-	-			-	
RHEINGOLD		A 1		F	Ø			?	X
RHEINGOLD VIN: Vehicle:	Vahicla	<u>A</u> (¥ []	ø	Work	KL 15: -	? KL	30: -
RHEINGOLD VIN: Vehicle: Operations Vehicle inform	hation Vehicle manage	ement	Service plan	Favor	rites	Work	KL 15: – shop/ ating fluids	RL Measurin devices	3 0: –
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history	nation Vehicle manage Control	ement unit tree	Service plan	Favou Operat	I S	Work	KL 15: - shop/ ating fluids	RL Measurin devices	30: – g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history	tation Vehicle manage	ement unit tree	Service plan	Favou Operat	I S	Work Oper	KL 15: - shop/ ating fluids	KL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN VIN	Mation Vehicle manage Control	ement unit tree	Service plan	Favou Operat	inites	Work Oper	KL 15: – shop/ ating fluids	RL : Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series	Development co	ement unit tree	Service plan Control unit list	Favol Operat	inites	Work Oper	KL 15: - shop/ ating fluids	RL: Measurin devices	30: - 9
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Vehicle	Development co	ement unit tree.	Service plan Control unit list. Product National	Favou Operation date	inites	Work Oper Gearb Body	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Stoering	Development co Engine	ement unit tree	Service plan Control unit list Product National	Favol Operat	I S	Work Oper Gearb Body Cearb	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code)	Development co Engine First posistections Warre	ement unit tree ide:	Service plan Control unit list Product Nationa Ecoino.	Favou Operation date	inites tions report	Cearb Body	KL 15: - shop/ ating fluids	RL. Measurin devices	30: g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code)	Development co Engine First remistrations Warre Vehicle	ement unit tree de: background pro	Service plan Control unit list Product Nationa Ecoiro.	Favol Operat	If tes	Cearb Body Cearb	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.:	Development co Engine First posistection Warre Drive	ement unit tree de: background pro	Service plan Control unit list Product Nationa Ecoino.	Favou Operation date	inites tions report	Gearb Body Cearb Paint of Uphot	KL 15: - shop/ ating fluids	RL. Measurin devices	30: g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date:	Development co Engine First revisitations Warre Drive	ement unit tree de: background pro	Service plan Control unit list Product Nationa Cosino. XCBSS	Favol Operat ion date I-market version	I S	Cearb Body Cearb Paint o Uphot	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date: / / Technical actions;	Vehicle manage Control Development co Engine First posistection Warre Vehicle Drive Integration level	ement unit tree de: background pro	Service plan Control unit list Product Nationa Ecoino. U Integrat	Favou Operation date	I S	Gearb Body Cearb Paint d	KL 15: - shop/ ating fluids	RL. Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date: I I Technical actions: Special defect code	Development co Engine First control of Ongoing Warre Drive	de: background pro	Control unit list Product Nationa cosiso xcess U Integrat	Favol Operat ion date i-market version	ifites	Cearb Body Gearb Paint d	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date: I I Technical actions: Special defect code	Nation Vehicle manage Control Development co Engine First residention Ongoing Warre Drive	de: background pro	Control unit list. Product Nationa Costs U Integrat	Favou Operation date	Irites	Cearb Body Paint (Uphot	KL 15: - shop/ ating fluids	KL Measurin devices	30: - 9
RHEINGOLD VIN: Vehicle: Operations Vehicle inform Vehicle details Repair history VIN Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date: / Itechnical actions: Status Special defect code Customer complaint:	Vehicle manage Control Development co Engine First conjectuation Ongoing Warre Onive Integration level Title	ement unit tree background pro	Service plan Control unit list Product Nationa Conico Scess	Favol Operat ion date i-market version	ifites	Cearb Body Paint d	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle: inform Vehicle details Repair history Vehicle details Repair history VIN Series Model Steering Basic type (model code) Type approval no.: Construction date: Image: Construction date: Image: Technical actions: Special defect code Caustomer complaint: Special defect code	Aation Vehicle manage Control Development co Engine First posistration Ongoing Warre Drive	de: background pro	Control unit list Product Nationa Control unit list	Favol Operat ion date I-market version	Inites	Cearb Body Paint d Uphot	KL 15: - shop/ ating fluids	KL Measurin devices	30: - g
RHEINGOLD VIN: Vehicle: Operations Vehicle: Inform Vehicle details Repair history VIN Repair history VIN Series Model	Vehicle manage Control Development co Engine First conjectation Ongoing Warre Onive Integration level Title	ement unit tree background pro	Service plan Control unit list Product Nationa Conico Scess	Favol Operat ion date i-market version	infites	Cearb Body Cearb Paint d	KL 15: - shop/ ating fluids	RL Measurin devices	30: - g

Using BMW Rheingold ISTA with OPS

1. Open used for connection network adapter properties, then "Internet Protocol Version 4 (TCP/IPv4)" properties, then enter 192.168.68.1 for "IP address" and 255.255.255.0 for "Subnet mask".

etworking	General
Connect using:	You can get IP settings assigned automatically if your network supports
Mark Connection	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure	Obtain an IP address automatically
This connection uses the following items:	 Use the following IP address:
Client for Microsoft Networks	IP address: 192 . 168 . 68 . 1
✓ ■ Gus Facker Scheduler ✓ ■ File and Printer Sharing for Microsoft Networks	Subnet mask: 255 . 255 . 255 . 0
	Defailt estuary
Internet Protocol Version 4 (TCP/IPv4)	Default gateway:
 Link-Layer Topology Discovery Responder 	Obtain DNS server address automatically
	O Use the following DNS server addresses:
Install Uninstall Properties	Preferred DNS server:
Description	Alternate DNS server:
Transmission Control Protocol/Internet Protocol. The default	
wide area network protocol that provides communication	

2. If VMware is installed, open Virtual Network Editor and disconnect from the host any adapters with Subnet Address 192.168.68.0.

3. Open C:\EDIABAS\BIN\EDIABAS.INI with Notepad and check for "Interface = REMOTE". In TCP settings for variable "RemoteHost" specify your OPS IP and "Port = 6801".

EDIABAS - Notepad		×
File Edit Format Vi	iew Help	
;#####################################	## # ##	, E
[Configuration]		
; #Interface	= STD:OBD	
Interface	= REMOTE	
Simulation	= 0	
EcuPath SimulationPath TracePath TraceSize	= C:\EDIABAS\ECU = C:\EDIABAS\SIM = C:\EDIABAS\TRACE = 1024	
ApiTrace IfhTrace ; IfhnTrace	= 0 = 0 = 0 = 0	
; SystemTraceSys ; SystemTraceBip ; SystemTraceIfh ; SystemTraceNet	= 0 = 0 = 0 = 0	
; BipDebugLevel ; BipErrorLevel	= 0 = 0	
UbattHandling IgnitionHandling ClampHandling	= 0 = 0 = 0	
٠	III	

EDIABAS - Notepad	
File Edit Format View Help	
;=====================================	,
RemoteHost = 192.168.68.40 Port = 6801	
Timeoutconnect = 2000 TimeoutFunction = 10000 ; TimeResponsePending = 5000 ; DisconnectOnApiEnd = 1 ; InitCmd0 = FE,04,00,03,01 ; InitCmd1 = FD,05,00,03,01	
[XEthernet] :====================================	
RemoteHost= AutodetectHeaderFormat= 0TesterAddress= F4,F5ControlPort= 6811DiagnosticPort= 6801TimeoutConnect= 20000	
[IfhProxy]	
; Port = 6700	
;#####################################	######################################
۲	

- 4. Connect car with OPS to PC.
- 5. Start web-browser, open OPS panel and "Lock device".



6. Now run BMW Rheingold ISTA using shortcut in start menu and wait until it boots, then press settings button.

RHEINGOL	.D	A ·				? F 🗙
	BMW Service Workshop sy	e stem			MINI S Works	ervice hop system
Operations	Vehicle information ma	hicle nagement	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices
News						Date
ISTA version 3.45 -	Contents and notes, diagnosi	s				25/07/2014
ISTA version 3.45 - I	New contents for repair literat	ture				25/07/2014
ISTA version 3.45 -	Contents and notes, non-elec	trical diagnosis (NED)			17/07/2014
ISTA version 3.44 - I	New contents for repair literal	ture				22/05/2014
ISTA usage notes						31/10/2013
						Display

7. Select "VCI Config" tab and "Ediabas standard settings (ediabas.ini)", then "OK".

RHEINGOLD	
BMW Service	MINI Service
Administration	🖴 ? 🗙
Client settings Dealer data Version	Transfer Monitor Problem VCI handling Config
Interface type:	ISIS Hosts or IPs:
O OMITEC interface (USB / serial)	Search Broadcast: 255.255.255,169.254.255.255
O HO-ICOM / ENET local network	SCORE Broker Hosts:
O HO-ICOM / ENET local und ISIS network O HO-ICOM / ENET direct connection	Ethernet as preferred communicaton channel when connected via ICOM?
O Simulation	Preload programming components at startup?
	O Yes O No
	FASTA data transfer mode:
	O Background transfer service (central systems)
	O ISIS transfer service (via workshop Jetstream)
Cancel Keyboard	ОК

8. Go "Operations", then "Read Out Vehicle Data" and "Complete Identification".



Using BMW Rheingold ISTA with ENET cable

1. Open used for connection network adapter properties, then "Internet Protocol Version 4 (TCP/IPv4)" properties, then enter 169.254.1.1 for "IP address" and 255.255.0.0 for "Subnet mask".

Networking		
Connect using:	General	
Intel(R) PRO/1000 MT Network Connection	You can get IP settings assigned automatically if your network suppor this capability. Otherwise, you need to ask your network administrate for the appropriate IP settings.	orts or
This connection uses the following items:	Obtain an IP address automatically	
Client for Microsoft Networks	Use the following IP address:	
QoS Packet Scheduler	IP address: 169 . 254 . 1 . 1	
File and Printer Sharing for Microsoft Networks	Subnet mask: 255 . 255 . 0 . 0	
Internet Protocol Version 4 (TCP/IPv4)	Default gateway:	/
Internet Protocol Version 4 (TCP/IPv4) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Responder	Default gateway:	/
Internet Protocol Version 4 (TCP/IPv4) Toology Discovery Responder Link-Layer Topology Discovery Responder	Obtain DNS server address automatically Use the following DNS server addresses:	/
✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Control of the state	Default gateway: Obtain DNS server address automatically OUse the following DNS server addresses: Preferred DNS server:	
Internet Protocol Version 4 (TCP/IPv4) Image: Discovery Responder Install Uninstall Properties Description Transmission Central Protocol /Internet Protocol Inc. def wit	Default gateway: Obtain DNS server address automatically Image: Server address automatically <td></td>	
✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Children Protocol Version 4 (TCP/IPv4) ✓ Link-Layer Topology Discovery Responder Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Default gateway: Obtain DNS server address automatically Image: Use the following DNS server addresses: Preferred DNS server: Alternate DNS server: Image: Validate settings upon exit Advanced	

2. If VMware is installed, open Virtual Network Editor and disconnect from the host any adapters with Subnet Address 169.254.0.0.

	Type	External Connection	Host Connection	DHCP	Subnet Address
VMnet0	Bridged	Realtek PCIe GBE Family C		1 - 21_(1	-
vivinet1	Custom		-	1.0	169.254.0.0
VMnet Inf	ormation			Add Netw	ork
) Bridge	d (connect \	/Ms directly to the external ne	etwork)		
Bridg	ed to: Real	tek PCIe GBE Family Controlle	er -		Automatic Settings
	shared host	s IP address with VMs)			NAT Settings
O NAT (t VMs internally in a private n	etwork)		
) NAT (only (connec				
NAT (only (connec ct a host vir virtual adapt	tual adapter to this network er name: vi/ware Network A	dapter VMnet1		
 NAT (Host- Conne Host Use lo 	only (connec ect a host vir virtual adapt cal DHCP ser	tual adapter to this network ter name: VMware Network Ar vice to distribute IP address	dapter VMnet1 to VMs		DHCP Settings

3. Connect car with ENET cable to PC, turn ignition on.

4. Now run BMW Rheingold ISTA using shortcut in start menu and wait until it boots, then press settings button.

RHEINGOL	D	A ·				? 😨 🗙
	BMW Server Workshop	vice system			MINI S Works	Service hop system
Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices
News						Date
ISTA version 3.45 -	Contents and notes, dia	gnosis				25/07/2014
ISTA version 3.45 - I	New contents for repair	literature				25/07/2014
ISTA version 3.45 -	Contents and notes, nor	n-electrical diagnosis (NED)			17/07/2014
ISTA version 3.44 - I	New contents for repair	literature				22/05/2014
ISTA usage notes						31/10/2013
						Display

5. Select "VCI Config" tab and "HO-ICOM/ENET local and ISIS network", then "OK".

RHEINGOL	D	A	4	19	¥		S	X	Î.		?	1×	X
VIN:	Vehicle:								KL.	15: -	к	1.30: -	-
Administration									-			?	×
Client settings	Dealer data	Version		Transfer Mon	itor	Problem handling		VCI Cont	ig				_
Interface type:				ISIS Hos	ts or IPs	e.				/			
O Ediabas stan	idard settings (ediabas inface (USB / serial)	i.ini)		Search B	roadcas	st	255.255.	255.255,169.	254.255.25	55			
O HO-ICOM / ENET local network				SCORE I	Broker H	losts:							
HO-ICOM / E O HO-ICOM / E O Simulation	NET local und ISIS ne	itwork		Ethernet O Yes Preload p O Yes FASTA d O Backgr O ISIS tra	as prefe orogram ata tran round tra ansfer s	erred comi No ming com No sfer mode ansfer ser ervice (via	nunicato ponents : vice (cer	on channel at startup ntral system op Jetstre	I when c ? ms) am)	onnectex	d via ICO	DM?	
Cancel	Keyboard									<	(DK	

6. Go "Operations", then "Read Out Vehicle Data" and "Complete Identification".



7. Select your ENET connection from the list and press "Set up connection" button.

RHEINGOL	.D		ħ	4		-	1		S		1	111	?	Y	X
VIN:	Vehicle:										К	. 15:		a. 30:	
Connection manager													-	?	X
Device ID	Colo	Tumo		VIII				Prostant Rec	-			GL 15 [V]	Statu	-	
WBAFW11000	٠	ENET		WBAF	W11000	2		-	169.25	4,114.76					
				_				-			-				
-															-1
Cancel	í -									0.00			Carl um	connects	
Cancer										(Deep		artabil.	Satup	CONNECO	

RHEINGOL	D		1	3	4		1	4	02	55		1	1	?	x	X
ากะ	Vehicle:				_							KL	15: -	к	. 30: -	÷.,
Operations Vehicle Information			Vehicle Se management			Servio	ervice plan Favourites					rkshop/ erating fl	Measuring devices			
Vehicle details	Repair history								Operation	s report						
VIN																-
Series		Devel	opment code.				Product	tion date			Gea	those				
Model		Engin	e				Nationa	i-market	version		Body	,				
Steering		Firste	Oncoing ba	ckorow	nd ore	x max	Ennine			5	Cea	rbox numi	xer			
Basic type (model cod	ie)	Warre	Vehicle Id	lentifica	ation					<u> </u>	Pain	t code				
Type approval no.:		Drive					U				Upha	olstery co	áe -			
Construction date:		Integr	ation level fac	clory:			Integral	ion level	actual.							
Technical actions;																
Status S	pecial defect code	Tibe														
Customer complaint:																
Branderformer																
O Yes	No No															•
											- 52		o tend			11.30

8. Alternatively you could select "HO-ICOM/ENET direct connection" in "VCI Config" tab and "ENET" mode with empty "IP-Address" field during connection setup.

RHEINGO	LD	A	4	留 > >	P 80	Ø 15	3	2 ?	K	X
VIN:	Vehicle:					hanned the	KL 1	5:	KL 30:	
Administration								-	?	X
Client settings	Dealer data	Version		Transfer Monitor	Problem handling		VCI Config			
interface type	¢			ISIS Hosts or	IPs:		_			
O Ediabas star	ndard settings (ediaba erface (USB / serial)	s.ini)		Search Broade	cast	255.255.255.25	5,169.254.255.255	6		
O HO-ICOM/E	ENET local network			SCORE Broke	r Hosts:					
O HO-ICOM/I	ENET local und ISIS n	etwork		Ethernet as pr	eferred comm	unicaton cha	annel when co	nnected via I	COM2	
O HO-ICOM / E	ENET direct connectio			O Yes	⊙ No					
O Simulation				Preload progra	amming comp	onents at sta	artup?			
				O Yes	© No					
				FASTA data tr	ansfer mode:					
				O Background O ISIS transfe	r service (via	ce (central s workshop Je	ystems) tstream)			
Cancel	Keyboard		4		P ===	8		?	ок	
Select Interface								1	?	>
		IP-Address:				_	_			
	<						>			
		VCI-Typ:	-							
			01	ICOM						
		C	01	ENET						
								-	_	_
Cancel	Keyboard								ОК	
							Identificatio	in Sta	rt venicie i	est