## **List of Consumer Examples**

DocID: EMAC390L1EX.250

Consumer Example Name						-															Fea	ature						-										-					_
																																				ı.					ect		
																						T								dling			uo			ServiceEndpointDiscovery Helper		J			/ Object		
																		ne		10	io Qe		ď	3						Authentication Token Handling			Login Domain Representation			eny l		OAuth2 Credential Callback		8	Ability to Pass In Dictionary		П
	L	tion	, t									Bu	Bu	5	90			Resume		in Mean		Config	Specify Admin messages	9		8)				ken		tion	rese	ent		isco√		Cal		Multi-Credential Config	Siction		
	Streaming request	Tunneling Connection	Snapshot request	st							- 113			9	1 2			∞ ∞	ے	Acai	NISB.	٥	2 8	ler	ame)		ε		aling	on To		rmat	n Rep	Session Management		ointD	λq	entia		tial 0	lu s	ts .	ting
	ng re	g Co	ot re	Slose request	sure					ıst		Ē	Off Stream Post	8	Seitem Seitem	Doirens botch	Reissue Datch	Reissue Pause	Jser Dispatch	Api Dispatch	il di	lle Config	Jan Jan	Rmtes Decoder	forth(FieldName	forth( const Data	Funnel stream	Ripple Fields	Iorizontal Sca	catio	ogin Reissue	Channel Informa	mai	Man	E	odpu	Warm Standby	Cred	W	eden	o Pas	Preferred Host	Request Routing
	ami	nelir	hsde	se re	Set Closure		Priority	5	2	symbolList	ate	On Stream	Stre	aile o aile	91112	900	ense	ssue	r Dis	Api Dispatch	Stream		cifv /	tes D	h(Fie	h( ca	nel s	ole Fi	izon	hent	in Re	nnel	in Do	sion	HandleRTT	viceE	rm Si	ıth2	oAuth2 JWT	ţ; C	lity to	ferre	nest
		E L	Snã	ဗ္ဗ	Set	Qos	Pric	Batch	View	nys .	Pri	o O	ŧ :	A S	Bei	9	Rei	Rei	Use	Api	one one	Pro	Sno	Rm	fort	fort	m <sub>T</sub>	Rip	Hor	Aut	Log	Cha	Log	Ses	Har	Sen	Wa	OA	OAL	<u>R</u>	Abi	Pre	Red
100_MP_Streaming 101_MP_QosPriority	X					Х	х						-					+		X																						-	+
102_MP_Snapshot			х																	х																							
110_MP_FileCfg 111_MP_UserSpecifiedFileCfg	X				_		_	_	_	+	_	+	+	+	_	+		-		х	)	X X	-	_															_	_		+	-
112_MP_TunnelingConnection	X	х		H	_			_		+		+	+	+	+	+		+		х	,																		х			+	$\dashv$
113_MP_SessionMgmt	Х																			Х	)													Х									
120_MP_FieldListWalk	X	┡	-	Н	v		_	4	_	4	_	4	+	$\perp$	$\perp$	1	-	+		X	-	+	$\perp$	-	Ų					-			-		-			-	_	_	_	+	4
121_MP_FieldListSrchByName 130_MP_UserDisp	X	<del>                                     </del>	$\vdash$	H	Х	-	$\dashv$	+	$\dashv$	+	$\dashv$	+	+	+	+	+	-	+	х	х	+	+	+	+	Х						-					-		$\dashv$	-	-	$\dashv$	+	$\dashv$
140_MBO_Streaming	Х																			х																						土	
170_MP_Channelinfo	X				_		_	_	_	4	_	_	4	_	_	_				х		X	_									Х							_	_		_	_
180_MP_Websocket 200_MP_Streaming	X	<del>                                     </del>	$\vdash$	H	$\dashv$		$\dashv$	+	$\dashv$	+	$\dashv$	+	+	+	+	+	-	+	Х	х	+	X	+	+	1						-							$\dashv$	-	-	$\dashv$	+	$\dashv$
210_MBO_Streaming	X						_			+		1		+						х		+																				+	$\dashv$
220_MBP_PrivateStream	Х										Х								X																								
230_MBO_SwitchEntryAction 240_MP_RippleFields	X				х				_	-	_		-	-	-	-			X				-					х														+	_
250_Custom_Opaque	X	H	t	H	^		$\dashv$	$\dashv$	+	$^{\dagger}$	+	+	+	+	+	$^{\dagger}$	1	+	Î	х	+	+	+	+	<u> </u>													$\dashv$	=	=	$\dashv$	+	$\dashv$
260_MP_FieldListSearchByList	Х							1				1								х						х																#	_
270_SymbolList 280 MP Perf	X	┝	-	H	-		-	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	+	+	+	+	-	X	-	+	+	+	-					-			-		-			-	-	-	$\dashv$	+	$\dashv$
290_Custom_Decode	X	H	$\vdash$	H	х		$\dashv$	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	+	+	-	+	1	X	+	+	+	+	1					-			-		-			$\dashv$	-	-	$\dashv$	+	$\dashv$
291_Custom_DownCast	Х				Х					I						İ			Х																							⇉	⊐
300_MP_Close 301_MP_PriorityChange	X	┡	-		X	_	_	+	4	+	4	4	+	+	>	+	4	1	х	х	-	+	4	-	-						_					_		4			-	+	4
310_MP_Rmtes	X	H	1	H	^			+	-	+	-	+	+	+	+*	+	+	+	^	х		+	+	х																	+	+	$\dashv$
320_Custom_GenericMsg	х				Х							1		)	(				х																							⇉	コ
330_Login_Streaming	X	F	1	H	4	_[	-	4	4	#	4	4		-  -	1	¥-	-  -	1	Х	v	-1-	4	4	1		Щ	=	=	[	4	_[	=	4	=	4	_[	=	-[			-	#	4
331_Directory_Streaming 332_Dictionary_Streaming	X	1	1	H	-			+	-	+	-	+	+	+	+	+	+	+		X		+	+																-	-	+	+	$\dashv$
333_Login_Streaming_DomainRep	Х	L	L		╛			╛		╧			士	土	上	Ť	╧	L	х		l	ᆂ	╧	L									х									⇉	_
340_MP_OnStreamPost	X				Х			4				Х								X																						1	4
341_MP_OffStreamPost 350_MP_PauseAll	X	┢	$\vdash$	H	Х	-	-	+	+	+	+	+	X :	K	+	+	+	х	-	X	+	+	+	+	-						-					-		4	-	-	$\dashv$	+	$\dashv$
360_MP_View	X	t	1	H	$\dashv$		$\dashv$	$\dashv$	х	$^{\dagger}$	+	+	+	$^{+}$	+	$\dagger$	+	+^	х	^	+	+	+	+															$\dashv$	$\dashv$	$\dashv$	+	$\dashv$
370_MP_Batch	Х							Х				1								х																						#	_
400_Custom_NestedMessaging 410_MP_HorizontalScaling	X	┢	$\vdash$		X	-	-	+	+	+	Х	+	+	+	+	+	+	+	х	x >	(	+	+	+	-				Х		-					-		4	-	-	$\dashv$	+	$\dashv$
420_MP_AdminDomainCfg	X	H	1	H	^			+	-	+	-	+	+	+	+	+	+	+	X			+	х						^												+	+	$\dashv$
421_MP_ProgrammaticCfg	Х											1								х		Х	(																			1	⊐
422_MP_ErrorClient	X	┡	-	Н	4	_	-	+	4	+	4	4	+	+	+	+	4	1	U	х	$\perp$	+	Х	_	-						_		v			_		4			-	+	4
423_MP_AdminDomainCfg_DomainRep 430_MP_Authentication	X	+	1	H	-			+	-	+	-	+	+	+	+	+	+	+	Х	х		+	X							х	х		Х						-	-	+	+	$\dashv$
440_System_TunStrm	Х																			X )	(						х															I	_
450_MP_QueryServiceDiscovery	X			П	Į	$\exists$	Д	Į	_T	Ţ	_T		_I	_[		F		1	L	X		Х			L					J			J	Х	J	X			J	J	J	Ŧ	_]
451_MP_OAuth2Callback_V2 452_MP_OAuth2Callback_V2JWT		X		H	$\dashv$	-	$\dashv$	+	$\dashv$	+	$\dashv$	+	+	+	+	+	-	+	1	X	+	X		+	1						-					-		X	х	-	$\dashv$	+	$\dashv$
460_MP_RTT	Х	É	L							⇟		₫	士	士	士	t	ᆂ	L		Х	)	x													х			X					$\exists$
470_MP_WarmStandby	X							4		1										Х		Х															Х					1	1
480_MP_MultiCredentials 490_Specify_Dict_Object	X	⊢	-	H	-		-	$\dashv$	$\dashv$	+	$\dashv$	+	+	+	+	+	+	+	-	X	-	Х	(	+	-					-			- 1	X	-		X	Х	х	Х	х	+	$\dashv$
500_PH_FileConfig	X	H	+	H	$\dashv$	$\dashv$	$\dashv$	$\dagger$	+	+	+	+	+	+	+	t	+	+		X	)	x	+	+								х				$\dashv$		+	1	1		х	$\dashv$
501_PH_ProgrammaticCfg	Х											1								Х		Х	(									х										Х	1
502_PH_ChannelInfo	X	1	1	Н				_	_	+	_	4	_	_	_	+	-	-		X	-	_	-									X							_	_	_	Х	х
510_RequestRouting_FileCfg 511_RequestRouting_ProgrammaticCfg	X	H	1	H	$\dashv$		+	+	+	+	+	+	+	+	+	+	+	+		X	+	Х	(	+								X							-	-	$\dashv$		X
	ı –	٠	-					_+														<u> </u>				_																—-	_

						St	ructu	re						
X X X X X X X X X X X X X X X X X X X	Msg->FieldList.ToString()	Map->FieldList->ToString()	Msg->FieldList	Msg->Map->FieldList	Msg->Map(Action type,Key)->FieldList	Msg->Map(Sum, Key, Action)->FieldList	Msg->Map->FieldList->Primitive types	Msg-> FieldList or ElementList	Msg->Map->FieldList, ElementList	Msg->Msg->FieldList	Msg-> Element List-> Vector-> Element List	Msg->Map->FilterList->ElementList or Map	Msg-> Series -> Element List	Msg->Opaque
X														
Х														
X														
X														
	X													
	X													
		Х												
X														
			Х											
				X										
					Х									
				Х										Х
			Х											^
				Х										
			Х			Х								
							Х							
			X X											
			Х											
			v					Х			х			
			X X X									х		
			X								х		Х	
			^						х		^			
			.,						X					
			X											
			X											
			X							Х				
			Х											
			X											
			Х											
X			X X X X X X X X											
Х			^											
X														
X X X X X								Х						
Х														
Х			х											
х			^											
X X X X														_
х														
Х														

## **List of Non-Interactive Provider Examples**

NiProv Example Name	Feature																			
	Streaming	Tunneling Connection	Hardcoded Source Directory	Configurable Source Directory from EmaConfig.xml	Configurable Source Directory Programmatically	Submit Source Directory Message	Login Request	Dictionary Request	Directory Admin UserControl	Directory Admin ApiControl	UserDispatch	ApiDispatch	File Config	Programmatic Config	Status Closed Message	Connection Recovery	Authentication Token handling	Channel Information	Login Reissue	Message Packing
100_MP_Streaming	Х		Х							Х		Х								1
110_MBO_Streaming	Х		Х							Х		Х								
170_MP_ChannelInfo	Х		Х	Х						Х		Х	Х					Х		
200_MP_Streaming	Х			Х						Х		Х	Х							
201_MP_TunnelingConnection	Х	Х		Х						Х		Х	Х							
210_MBO_Streaming	Х			Х						Х		Х	Х							
250_MP_Perf	Х			Х						Х		Х	Х							
251_MP_Perf_KeyByServiceId	Х			Х						Х		Х	Х							
300_MP_Streaming	Х					Х			Х			Х	Х							
310_MBO_Streaming	Х					Х			Х			Х	Х							
320_MP_Streaming_StatusClosed	Х					Х			Х			X	Х		Х					
340_Login_Streaming	Х			Х			X			Х	Х		Х						┌	
350_Dictionary_Streaming	Х			Х				Χ		Х		X	Х							
360_MP_ConnectionRecovery	Х			Х			X			Х	X		Х			Х				
405_MP_MsgPacking	Х			Х						Х		X								Х
421_MP_ProgrammaticCfg	Х				Х					Х		X		Х						
430_MP_Authentication	X			X			X			X		X	Χ				X		X	

	Structure													
Msg.ToString()	Map::add<>()	x x x x x x x x x x x x x x x x x x x	ElementList::add<>()	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 x x x x x x	StatusMsg::set<>()	RefreshMsg::get<>()	StatusMsg::get<>()						
		Х		Х	Х	-,		-,						
	Х	Х		Х	Х									
		Х		Х	Х									
		Х		Х	Х									
		Х		Х	Х									
	Х	Х		Х	Х									
		Х		Х	Х									
		X		X	X									
-	X	X	X	X	X									
	X X	X	X	X	X	Х								
х	٨	X	۸	Х У	Х У	۸								
<b> </b> ^		^		л У	л У		Y	Y						
Х		х		X	X		X	X						
<u> </u>		X		X	X									
		X X X		Х	Х									
Х		Х		Х	Х									

## **List of Interactive Provider Examples**

IProv Example Name										Fea	ture									
	Streaming	Hardcoded Source Directory	Configurable Source Directory from EmaConfig.xml	Configurable Source Directory Programmatically	Submit Source Directory Message	Dictionary Request	Directory Admin UserControl	Directory Admin ApiControl	Dictionary Admin UserControl	Dictionary Admin ApiControl	UserDispatch	ApiDispatch	File Config	Programmatic Config	Connected Client Information	Login Domain Representation	HandleRTT	Posting	Closing client channel	Message Packing
100 MP Streaming	X	X	C	C	S	٥	a	X	D	X	O	X	Н	Ь	C	Ľ	I	Ь	C	2
102 MP Snapshot	х	Х						Х		Х		Х								<del></del>
130 MP UserDispatch	Х	Х						Х		Х	Х									
140_MBO_Streaming	Х	Х						Х		Х		Х								
150_MBO_Snapshot	х	Х						Х		Х		Х								<del></del>
160_Login_AcceptDeny		Х						Х		Х		Х								i
161_Login_AcceptDeny_DomainRep		х						х		Х		х				Х				<del></del>
170_MP_ConnectedClientInfo	Х	Х						Х		Х		Х	Х		Х					i
180_MP_Websocket	Х		Х					Х		Х	Х		Х						Х	i
200_MP_Streaming	х		Х					Х		Х	Х		Х							
210 MBP Streaming	Х		Х					Х		Х	Х		Х							i
240_SourceDirectory_Fanout	Х		Х		Х			Х		Х		Х	Х							
250_GroupStatus_Fanout	Х		Х		Х			Х		Х		Х	Х							
260_Custom_NestedMsg	Х		Х					Х		Х	Х		Х							
280_MP_Perf	Х		Х					Х		Х	Х		Х							
300_MP_Close	Х		Х					Х		Х		Х	Х							
301_MP_PriorityChange	Х		Х					Х		Х	Х		Х							
320_Custom_GenericMsg	Х		Х					Х		Х	Х		Х							
331_Directory_UserControl	Х				Х		Х			Х		Х	Х							
332_Dictionary_UserControl	Х							Х	Х			Х	Х							
340_MP_Posting	Х		Χ								Х		Х					Х		
350_Dictionary_Streaming	Х		Х			Х		Х		Х		X	Х							
380_MP_ConnectionLost	Х		Х					Х		Х		Χ	Х							
405_MP_MsgPacking	Х		Χ					Х		Χ		Χ								Х
421_MP_ProgrammaticCfg	Х			Х				Х		Х	X			Х					[]	
460_MP_RTT	Х		Х									Х	Х				Х		ı J	ı

Map::add<>()		x x x x FieldList::add<>()	ElementList::add<>()	x x x x RefreshMsg::set<>()	× UpdateMsg::set<>()	RefreshMsg::get<>()	PostMsg::get<>()	AckMsg::set<>()	GenericMsg::get<>()	UpdateMsg::get<>()
_	_	Х	_	Х	X	_	_	_	)	
		Х		Х						
		Х		Х	Х					
X		Х		Х	X					
Х	7.1	X		Х						
				Х						
				Х						
		X	Х	Х	Х					
		X		Х	Х					
		X		Х	Х					
Х		Х		Х	Х					
X		X	Х	Х	Х					
Х		X	Х	Х	Х					
<u> </u>		X		Х	Х					
-	_	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	X					
X	+	X	X	X	X					
⊢^	-	Λ	х	Λ Υ	^ v	_	Х	Х		
х	-	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	х	^	_		х
<b>⊢</b> ^		X		X	x	^				^
-	-	X		X	X					
$\vdash$		Х		X	x					
$\vdash$		х	Х	Х	х				Х	