## List of Consumer Examples DocID: EMAC366L1EX.220

Consumer Example Name																		Fea	ture																		
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																												<b>Authentication Token Handling</b>			ion			ServiceEndpointDiscovery Helper	1.	ای	
																	ي					S						lan			Login Domain Representation			- L		OAuth2 Credential Callback	
		드															Resume		Sub Stream(Msg in Msg)		ρ0	Specify Admin messages						n F		اء	sen	ᆽ		NO.		<u>₩</u>	Multi-Credential Config
	st	<b>Tunneling Connection</b>	st							ing	ng		Sending generic msg			، ا	Res		Ë		Programmatic Config	ess	ـ ا	( 2			20	oke		Channel Information	pre	Session Management		Disc		alc	Ö
	request	nne	Snapshot request						٤	On Stream postring	Off Stream Posting		ricı	ţ.			<b>∞</b> ŏ		Asg		3	E	e e	forth( const Data	ے ا		Horizontal Scaling	n T		ma	Re	ger		int	` اج	enti	tial
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	ing	ing	hot	Set Closure				ILis	Stı	am	ean		8 8	p e	e ps	ا ﴿	e Pe	pat	ear	nfig	盲	A	Dec	ם   פ	str	Ripple Fields	ntal	ıtic	eis	늘	00	Σ	R.	Enc	Stal	Č	rec
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	Streaming	l II	Snapshot requ	Set	Qos	Priority	Batch	View SymbolList	Private Stream	On	Off	VPI	Sen	Reissue priority	Reissue batch	Reissue View	Reissue Pause User Dispatch	Api Dispatch	Sub	File Config	Pro	Spe	Rmtes Decoder		1 2	Rip	Hor	Aut	Log	ا چ	Log	Ses	Har	Ser	Wa	δ	M
100_MP_Streaming	Х																	Х																			
101_MP_QosPriority	Х				Х	Х												Х																			
102_MP_Snapshot			Х															Х																			
110_MP_FileCfg	Х				$oxed{\Box}$													Х		Х											$\Box$				$\bot$		
111_MP_UserSpecifiedFileCfg	Х			<u> </u>	$oxed{\Box}$									$\Box$						Х											[						$\Box$
112_MP_TunnelingConnection	X	Х		$\perp$	$\sqcup$													X		Х		$\perp$	$\perp$	$\perp$											$\perp$	$\perp$	$\Box$
113_MP_SessionMgmt	X	Х		$\perp$	$\sqcup$												$\perp$	X		Х	$\perp$	$\perp$				_						Х				$\perp$	$\Box$
120_MP_FieldListWalk	X			1_	$\sqcup$										_	$-\!$	$\perp$	X	$\overline{}$			$\perp$	$\perp$			-							_		$\perp$	$\perp$	$\dashv$
121_MP_FieldListSrchByName	X			Х	$\sqcup$										_	-		X				$\perp$	-   '	<u> </u>		-							_		$\perp$	$\perp$	$\dashv$
130_MP_UserDisp	X		_	+	$\vdash$		_	_					$\vdash$	$\dashv$	_		X	_	,   -	$\sqcup$	$\perp$	$\perp$	+	+	+	-			$\dashv$	$\dashv$	$\dashv$	$\dashv$	_		+	+	$\dashv$
140_MBO_Streaming	X	$\vdash \vdash$		+	+		_							$\dashv$	_	-	+	X	$\overline{}$	V	_	+	+	+	+	-			$\dashv$	V	_	$\dashv$	_		+	+	$\dashv$
170_MP_ChannelInfo	X	$\vdash$		+	$\vdash$							$\dashv$	$\rightarrow$	-		_	<del>-   ,</del>	X		X	$\rightarrow$	+	+	+	+	+				Х	$\dashv$	_	$\dashv$		+	+	႕
180_MP_Websocket	X	$\vdash$		_	$\vdash$							$\dashv$	-+	$\rightarrow$		_	Х	_	,   -	Х	$\rightarrow$	+	+	+	+	+					-	_	$\rightarrow$	_	+	+	$\dashv$
200_MP_Streaming 210_MBO_Streaming	X			+	$\vdash$									_		_	+	X			-+	-	+	+	+	-					-		-		+	+	$\dashv$
220_MBP_PrivateStream	v	$\vdash$		+	$\vdash$		-+	-	v			$\dashv$		-+	-+	_	<b>-</b>	$\top$	<del>`</del>		$\rightarrow$	+	+	+	+	+					$\dashv$	$\rightarrow$	$\rightarrow$		+	+	$\dashv$
230_MBO_SwitchEntryAction	X	$\vdash$		+	+				^							_	<del>x</del>	_	+		-	-	+	+	+	1					_		-		+	+	$\dashv$
240_MP_RippleFields	X	$\vdash$	_	X	$\vdash$		-+					$\dashv$	$\dashv$	$\dashv$	-+	-+	X	_	+	-+	$\dashv$	$\dashv$	+	+	+	Х			_	-+	$\dashv$	$\dashv$	$\dashv$	_	+	+	$\dashv$
250_Custom_Opaque	Х			<del> ^</del>	$\vdash$		$\overline{}$								$\overline{}$		<del>+^</del>	x			_	+	+	+	+	<del>  ^</del>		Н					$\rightarrow$		+	+	$\dashv$
260_MP_FieldListSearchByList	Х			+	$\Box$							$\neg$	$\overline{}$	$\neg$			+	X	_		$\dashv$	$\dashv$	+	X		+					$\dashv$	_	$\dashv$		+	$\dashv$	$\dashv$
270_SymbolList	Х				t							$\neg$						Х	$\overline{}$				$\top$								$\neg$				$\top$	$\top$	$\dashv$
280_MP_Perf	Х				$\Box$													х	$\overline{}$		$\neg$	_	$\top$	$\top$													$\dashv$
290_Custom_Decode	Х			х														Х																		1	$\neg$
291_Custom_DownCast	Х			х													Х																				$\neg$
300_MP_Close	Х		Х	X														Х																			П
301_MP_PriorityChange	Х			Х										Х			Х																				
310_MP_Rmtes	Х																	Х					Х														
320_Custom_GenericMsg	Х			Х									Х				Х																				
330_Login_Streaming	Х																Х																				
331_Directory_Streaming	Х																	X	_				$\perp$								_				4		_
332_Dictionary_Streaming	X			$\perp$	$\sqcup$													X				$\perp$	$\perp$	$\perp$											$\perp$	$\perp$	
333_Login_Streaming_DomainRep	X			$\perp$	$\sqcup$											_	Х	_	$\perp$	igsqcut	$\perp$	$\perp$				_					Х					$\perp$	_
340_MP_OnStreamPost	X			Х	-		_			Х					_			Х	_	$\square$		$\perp$		$\bot$		_				$\dashv$					$\bot$	$\bot$	$\Box$
341_MP_OffStreamPost	X			X	$\sqcup$						Х	Х			_	$\perp$		X	$\overline{}$		$\dashv$	$\perp$	$\perp$		$\bot$	-										$\perp$	$\dashv$
350_MP_PauseAll	X			+	$\vdash$		_						$\Box$	_	_	-   -	X	X			$\rightarrow$	$\perp$	_	_	+	-				_	_	_	_		+	$\bot$	$\dashv$
360_MP_View	X		_	+	$\vdash$		<del>.,</del>	Х					$\vdash \vdash$	$\dashv$	$\dashv$		X	-	,   -	$\sqcup$		+	+	+	+	-			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\perp$		+	+	$\dashv$
370_MP_Batch	X		_	1	+		Х		\ \ \					$\dashv$	_	-	+	X	$\overline{}$	$\sqcup$	$\dashv$	+	+	+	+	-			$\dashv$	_	_	$\dashv$	_		+	$\dashv$	$\dashv$
400_Custom_NestedMessaging	X	$\vdash \vdash$		X	+	-	$\dashv$		Х		$\dashv$	_	$\vdash \vdash$	$\dashv$	$\dashv$	-+	<del>                                     </del>	X	X	$\vdash \vdash$	$\dashv$	+	+	+	+-	-	v		$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$		+	+	$\dashv$
410_MP_HorizontalScaling	X	$\vdash$	-	X	+						-		$\vdash$	$\dashv$	_	-+	X	_		$\vdash \vdash \mid$	_	x	+	+	+	+	Х		$\dashv$	_	_	$\dashv$	+		+	+	$\dashv$
420_MP_AdminDomainCfg 421_MP_ProgrammaticCfg	X		+	+	+		$\dashv$	_			$\dashv$	_	$\vdash \vdash$	$\dashv$	$\dashv$	$\dashv$	<del>  ^</del>	x		$\vdash \vdash$	х	^	+	+	+-	<del> </del>			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-+	+	+	$\dashv$
422_MP_ErrorClient	X	$\vdash \vdash$	+	+	+	-	$\dashv$	_			$\dashv$	-	$\vdash \vdash$	$\dashv$	$\dashv$	$\dashv$	+	X	_	$\vdash \vdash \mid$	^	$\dashv$	+	+	+	+			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-+	+	+	$\dashv$
423_MP_AdminDomainCfg_DomainRep	X		+	+	+		+				-		$\vdash$	$\dashv$	$\dashv$	-+	X	_	+	$\vdash$	+	х	+	+	+-	1			$\dashv$	$\dashv$	х	$\dashv$	+	-+	+	+	$\dashv$
430_MP_Authentication	X		+	+	+		+				-		$\vdash$	$\dashv$	+	-+	+^	x		$\vdash$	+	^	+	+	+	1		Х	х	$\dashv$	^	$\dashv$	+	-+	+	$\dashv$	$\dashv$
440_System_TunStrm	X	$\vdash \vdash$	$\dashv$	+	+		$\dashv$	-			$\dashv$		$\vdash$	$\dashv$	$\dashv$	$\dashv$	+	<del>  ^</del> x	_	$\vdash \vdash$	$\dashv$	$\dashv$	+	+	X	1		^	^	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-+	+	$\dashv$	
450_MP_QueryServiceDiscovery	X	Х		+	+		+				$\dashv$		$\vdash$	$\dashv$	$\dashv$	-+	+	T <sub>X</sub>		$\vdash \vdash$	Х	+	+	+	<del> ^</del>	+			$\dashv$	$\dashv$	+	Х	+	х	+	$\dashv$	$\dashv$
451_MP_OAuth2Callback_V2	X	Х	-	+	+		$\dashv$				$\dashv$	_	$\vdash \vdash$	$\dashv$	$\dashv$	-	+	$\frac{1}{x}$	_	$\vdash \vdash$	X	$\dashv$	+	+	+	1			$\dashv$	$\dashv$	$\dashv$		$\dashv$		+	$\dashv$	$\dashv$
460_MP_RTT	X			+	+									$\dashv$	_	$\neg \uparrow$		X		Х		$\dashv$	+		+	1			$\dashv$	+	_	$\dashv$	х		$\top$	х	$\dashv$
470_MP_WarmStandby	X			$\top$	1 1		+							$\neg$	$\dashv$	_		X	_		х	$\dashv$	$\top$	+	1	1			$\dashv$	$\dashv$	$\dashv$	$\dashv$	$\neg$		x	$\dashv$	$\exists$
480_MP_MultiCredentials	Х			$\top$														Х	_		х	$\dashv$	$\top$		$\top$				$\dashv$			х				х	X
	1																									-			1						_		—

						St	ructu	ire						
× × Msg.ToString()	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->ElementList->Vector->ElementList	Msg->Map->FilterList->ElementList or Map	Msg->Series->ElementList	Msg->Opaque
<u>≥</u>	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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## **List of Non-Interactive Provider Examples**

NiProv Example Name									Fe	eatu	re								
	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
100_MP_Streaming	Х		Χ							Х		Χ							
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		Χ						Х		Χ	Х						
210_MBO_Streaming	Х			Χ						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			Χ			Χ	Х		Х				
340_Login_Streaming	Х			Х			Х			Х	Х		Х						
350_Dictionary_Streaming	Х			Х				Х		Х		Х	Х						
360_MP_ConnectionRecovery	Х			Х			Х			Х	Х		Х			Х			
421_MP_ProgrammaticCfg	Х				Х					Χ		Х		Х					
430_MP_Authentication	Х			Х			Х			Х		Χ	Х				Х		Х

			Sti	ructu	ire			
Msg.ToString()	Map::add<>()	ieldList::add<>()	ElementList::add<>/()	<pre>RefreshMsg::set&lt;&gt;()</pre>	JpdateMsg::set<>()	StatusMsg::set<>()	RefreshMsg::get<>()	StatusMsg::get<>()
_		Х		Х	X	<u> </u>		S
	X	X	3	X	X	- 0,		S
		X X	1	X X X	X X X			5
		X X X	1	X X X	X X X		4	5
	x	X X X X	3	X X X X	X X X X			5
		X X X X X		X X X X X	X X X X X			5
	x	X X X X X X		X X X X X X	X X X X X X			5
	X	X X X X X X		X X X X X X X	X X X X X X X			5
	x x	X X X X X X X		X X X X X X X	X X X X X X X			5
	x x	X X X X X X X		X X X X X X X	X X X X X X X X			5
	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		5
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 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			
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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 X X X	X X X X X X X X X X X X X X DpdateMsg::set<>()			

## **List of Interactive Provider Examples**

IProv Example Name		Feature													Structure															
	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		Map::add<>()	FieldList::add<>()	ElementList::add<>/()	RefreshMsg::set<>()	UpdateMsg::set<>()	RefreshMsg::get<>()	PostMsg::get<>()	AckMsg::set<>()	GenericMsg::get<>()	UpdateMsg::get<>()
100_MP_Streaming	Х	Х						Х		Х		Х								ľ		Χ		Х	Х			T	Т	
102_MP_Snapshot	Х	Х						Х		Х		Х										Χ		Х						,
130_MP_UserDispatch	Х	Х						Х		Х	Х											X		X	Х					
140_MBO_Streaming	Х	Х						Х		Х		Х									X	Χ		Х	Х					
150_MBO_Snapshot	Х	Х						Х		Х		Х									Χ	Χ		Х		П				
160_Login_AcceptDeny		Х						Х		Х		Х												Х		П				
161_Login_AcceptDeny_DomainRep		Х						Х		Х		Х				Х								Х		П				
170_MP_ConnectedClientInfo	Х	Х						Х		Х		Х	Х		Х							Χ	Χ	Х	Х	П				
180_MP_Websocket	Х		Х					Х		Х	Х		Х						Х			Χ		Х	Х	П				
200_MP_Streaming	Х		Х					Х		Х	Х		Х									Х		Х	Х					
210_MBP_Streaming	Х		Х					Х		Х	Х		Х								X	Χ		Х	Х	П				
240_SourceDirectory_Fanout	Х		X		Χ			Х		Х		Х	Х								X	Χ	Χ	Х	Х				$\Box$	
250_GroupStatus_Fanout	Х		Х		X			Х		Х		Х	Х								Х	Χ	Χ	Х	Х					
260_Custom_NestedMsg	Х		X					Х		Х	Х		Х									Χ			Х				$\Box$	
280_MP_Perf	Х		X					Х		Х	Х		Х									X		Х	Х			$\Box$	$\Box$	
300_MP_Close	Х		Χ					Х		Х		Х	Х									Χ		Х	Х					
301_MP_PriorityChange	Х		Χ					Х		Х	Х		Х									Х		Х	Х					
320_Custom_GenericMsg	Х		Х					Х		Х	Х		Х									Χ	Х	Х	Х					
331_Directory_UserControl	Х				X		Х			Х		Х	Х								Х	Χ	Χ	Х	Х					
332_Dictionary_UserControl	Х							Х	Х			Х	Х								Х	Х		Х						
340_MP_Posting	Х		Х								Х		Х					Х				Х	Х	Х	_	-	Х	X	$oxed{oxed}$	
350_Dictionary_Streaming	Х		X			Χ		Х		Х		Х	Х								X	Χ		Х	X	Х		$oxed{oxed}$	Х	(
380_MP_ConnectionLost	Х		X					Х		Х		Х	Х									X		Х	Х					
421_MP_ProgrammaticCfg	Х			X				Х		Х	Х			Х								Х		Х	Х					
460_MP_RTT	Х		Х									Х	Х				Х					Х	Х	Х	Х		T		Х	