We are now Refinitiv, formerly the Financial and Risk business of Thomson Reuters. We've set a bold course for the future – both ours and yours – and are introducing our new brand to the world.

As our brand migration will be gradual, you will see traces of our past through documentation, videos, and digital platforms.

Thank you for joining us on our brand journey.



## List of Consumer Examples DocID: EMAC330EX.190

Consumer Example Name	П																F	eatu	re																—
																																			er
																														<b>Authentication Token Handling</b>			_		Service Endpoint Discovery Helper
																														lbu			atio		Ĭ
																		me			(g			Ses						На			inte		Very
		ion									<b>b0</b>			80				Resume			ž		<u></u>	Sag						cen		드	ese	ınt	000
	est	<b>Tunneling Connection</b>	est								On Stream postring	Off Stream Posting		Sending generic msg				k Re			Sub Stream(Msg in Msg)		Programmatic Config	Specify Admin messages	(a)	(%)			ng	Tok		Channel Information	Login Domain Representation	Session Management	Ę
	request	nu	nb	St						Ε	ost	ost		eric	ity	ے		e S	ے		Msg		<u>.</u>	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		Dat	Ξ		alii	on	a	r.	n R	age	oin
	g re	S	t re	en l					);	rea	n p	ηP		en	ij	atc	iev	ans	atc	tch	E	b0	nat	티		ıst	rea	spl	I Sc	ati	nss	nfo	nai	lan	dp
	nin	ling	ho	rec		>			ILis	e St	ear	eal		)g g	ер	e b	e V	е Р	isp	spa	rea		[ 년	Š Z		9	St	Fie	nta	ntic	Reis	ell	Dor	2	eEn
	Streaming	ne	Snapshot request	Close request	S	Priority	r)	3	SymbolList	Private Stream	Str	Str		dir	Reissue priority	Reissue batch	Reissue View	Reissue Pause	User Dispatch	Api Dispatch	o St	File Contig	gra		forth/FieldName	forth( const Data	Tunnel stream	Ripple Fields	Horizontal Scaling	the	Login Reissue	nue	iï	sio	Vic
	Str	Tu	SnS		Qos	Pri	Batch	View	Syr	Pri	On	Off	VPI	Ser	Rei	Rei	Rei	Rei	Use	Api	Suk	E E	Pro	Sp		for	T <sub>I</sub>	Rip	운	Au	Log	ੂੰ ਨੂੰ	Log	Ses	Ser
100MarketPriceStreaming	Х																			X															
101MarketPriceQosPriority	Х				Х	Х														Х															
102MarketPriceSnapshot			Х																	Х															
110MarketPriceFileConfig	Х																$\Box$			Х		Х													
111MarketPriceUserSpecifiedFileConfig	Х	_																				Х													
112MarketPriceTunnelingConnection	Х	+																		Х		Х													
113MarketPriceSessionManagement	Х	Х																		Х		Х											$oxedsymbol{oxed}$	X	
120MarketPriceFieldListWalk	X																			X															
121MarketPriceFieldListSearchByName	Х			Х																Х					Х									]	
130MarketPriceUserDispatch	Х															[	[		X			$\perp$													
140MarketByOrderStreaming	Х															[	[		[	Х												لـــــا			
170MarketPriceChannelInfo	X																			X		X										Х			
200MarketPriceStreaming	X																			Х															
210MarketByOrderStreaming	X																			X															
220MarketByPricePrivateStream	Х	<u> </u>								X									Х																
230MartketByOrderSwitchOnEntryAction	X	ļļ																	Х																
240MarketPriceRippleFields	X	!		Х															Х									Х							
250CustomOpaque	Х																			Х															
260MarketPriceFieldListSearchByList	Х																			Х						Х									
270SymbolList	Х	<u>                                     </u>				ļ														Х									ļ			$\sqcup$			
280MarketPricePerformance	Х	<u> </u>																		Х												$\downarrow \downarrow \downarrow$			
290Custom_Decode	Х	<u> </u>		Х		<u> </u>														Х						-			<u> </u>			1			
291Custom_DownCast	Х	igsqcut		Х	_											-			Х				_	_	_			-							
300_MarketPrice_Close	Х	Ш		X X	-	1														Х				_		_			1						
301MarketPricePriorityChange	X	<u> </u>		Х											Х				Х																
310MarketPriceRmtes	X	<b>  </b>																	.,	Х					(							₽			
320CustomGenericMsg	X	<u> </u>		Х										Х					X													-			
330_Login_Steaming	X		-+	+		1								$\vdash$	$\dashv$		$\dashv$		Х	_		+	$\dashv$	+	+	-			1			$\longrightarrow$			—
331DirectoryStreaming	X	1		+		+-	-									_	$\dashv$	}	_	X		-	_	+		+	-		+-			$\longrightarrow$			
332DictionaryStreaming	X	igwdapprox igwedge		_												-			-	Х			_	_	-							$\longmapsto$			
222 Login Strooming DomoinBorrosontation																			v														,	,	
333_Login_Streaming_DomainRepresentation	X				,						v						$\dashv$		Х	v		_	_	+		-						$\longmapsto$	Х	$\longrightarrow$	
340MarketPriceOnStreamPost	X			X	_						Х	Х	Х		$\dashv$		$\dashv$			X		+	+	-								$\vdash$	$\dashv$	$\rightarrow$	—
341MarketByOrderOffStreamPost 350MarketPricePauseAll	X	$\vdash$		Х	<u> </u>							٨	٨		-	_	$\dashv$	х	_	X		-	+	+	-	-						$\longmapsto$	$\dashv$	$\rightarrow$	—
360 MarketPrice View	X	$\vdash$		+				Х							-	_	$\dashv$	^	Х	۸		-	+	+	-	-						$\longmapsto$	$\dashv$	$\rightarrow$	
370 MarketPrice Batch	X	$\vdash\vdash\vdash$	$\dashv$	+	-	$\vdash$	Х							$\vdash \vdash \vdash$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	^	х		+	+	+	+	+	-	}	$\vdash$			$\vdash$		$\dashv$	
400CustomNestedMessaging	X	$\vdash$	-+	×	-	1	^			Х					$\dashv$	$\dashv$	$\dashv$		$\dashv$	X	Х	+	$\dashv$	+	+				1			$\longrightarrow$	$\dashv$	$\dashv$	_
410MarketPriceHorizontalScaling	X	$\vdash$	-+	X	_					^					$\dashv$	$\dashv$	$\dashv$		х	^	^	+	+	+	+				Х			$\vdash$	$\dashv$	$\dashv$	_
420MarketPriceAdminDomainConfig	X	$\vdash\vdash\vdash$	$\dashv$	<del>  ^</del>	1	$\vdash$								$\vdash \vdash \vdash$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	X	$\dashv$		+	+	x	+	+	-	}	<del>  ^</del>			$\vdash$		$\dashv$	—
421 MarketPrice ProgrammaticConfig	X	$\vdash\vdash\vdash$	$\dashv$	+	-	$\vdash$								$\vdash \vdash \vdash$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	^	Х		+	X	<del>^</del>	+	+	-	}	$\vdash$			$\vdash$		$\dashv$	—
421 MarketPrice ProgrammaticConfig 422 MarketPrice ErrorClient	X	$\vdash\vdash$	$\dashv$	+		1									$\dashv$	+	$\dashv$		+	X		+	^	+	+	-			1			$\longrightarrow$		$\longrightarrow$	
423MarketPriceErrorClient 423MarketPriceAdminDomainConfigDomainR		₩	$\dashv$	+		-									$\dashv$	+	$\dashv$		+	^		+	+	+	+				-			$\vdash$	$\dashv$	$\longrightarrow$	
epresentation	X																		x					x									х	,	
430MarketPriceTREPAuthentication	X	$\vdash$		+											$\dashv$	$\dashv$	$\dashv$		^	Х		+	+	^	+					Х	Х	$\vdash$	^	$\dashv$	
440SystemTunnelstream	X	+ +	-+	+		+											$\dashv$	-		X	Х	-	_	+		-	Х		+	^		$\longrightarrow$	$\dashv$	$\dashv$	
450MarketPriceQueryServiceDiscovery		Х	-+	+		+									$\dashv$	$\dashv$	$\dashv$		$\dashv$	X	^	-	х	+	+		+^		+			+	$\dashv$	Х	
130_IVIGINEET TICE_QUETYSET VICEDISCOVETY		^_			1	]	1	<u> </u>												^			^					1		1	<u> </u>			^	

						Stı	uctu	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
Х														
X														
X X X														
X														
X														
	X													
	X													
	X	Х												
Х														
			X											
				X										
				X	Х									
				Х	^									
														Х
			X											
			Х	Х										
			^			Х								
							Х							
			X											
			X											
			X					Х						
			Х					^			Х			
			X									Х		
			Х										Х	
			х								Х			
									Х					
									Х					
			X											
			X											
			X							Х				
			Х											
			Х											
			X											
			Х											
			х											
Х			X											
			X											
X														

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

NiProv Example Name									Feat	ture								
	Streaming	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
100MarketPriceStreaming	Х	X							Χ		Χ							
110MarketByOrderStreaming	Х	Х							Х		Χ							
170MarketPriceChannelInfo	Х	Х	Х						X		Χ	X					Χ	
200MarketPriceStreaming	Х		X						Х		Χ	X						
210MarketByOrderStreaming	Х		X						Х		Χ	X						
250MarketPricePerformance	Х		Х						Х		X	Х						
251MarketPricePerformanceKeyByServiceId	Х		Х						Χ		Χ	X						
300MarketPriceStreaming	Х				Х			Х			Χ	X						
310MarketByOrderStreaming	Х				Х			Х			Χ	X						
320MarketPriceStreamingStatusClosed	Х				Х			Х			Χ	X		X				
340LoginStreaming	Х		X			X			Х	X		X						
350DictionaryStreaming	Х		X				X		Χ		Χ	X						
360MarketPriceConnectionRecovery	X		X			X			X	X		X			X			

			Stı	ructu	ire			
Msg.ToString()	Map::add<>()	FieldList::add<>()	ElementList::add<>()	RefreshMsg::set<>()	UpdateMsg::set<>()	StatusMsg::set<>()	RefreshMsg::get<>()	StatusMsg::get<>()
		X		X	X			
	X	X		X	X			
		Х		<	\ \			
				^	Х			
		Х		X	X			
	Х	X		X	X			
	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 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 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 RefreshMsg::set<>()	x x x x x x x x x x x x DpdateMsg::set<>()	x	x	X

## **List of Interactive Provider Examples**

IProv Example Name							Fe	eatui	re						
	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
100_MarketPrice_Streaming	X	X						X		X		X			
102_MarketPrice_Snapshot	Х	Х						Х		Х		Χ			
112_MarketPriceTunnelingConnection	Х	Χ						Х		Х		Χ			
130MarketPriceUserDispatch	Х	Χ						Х		Х	Χ				
140_MarketByOrderStreaming	Х	Х						Х		Х		Χ			
150MarketByOrderSnapshot	Х	Х						Х		Х		Χ			
160LoginAcceptDeny		Χ						Х		Х		Χ			
170MarketPriceConnectedClientInfo	Х	Χ						Х		Х		Χ	Х		Х
200MarketPriceStreaming	Х		Х					Х		Х	Х		Х		
210MarketByPriceStreaming	Х		Х					Х		Х	Х		Х		
240SourceDirectoryFanout	Х		Х		Х			Х		Х		Χ	Х		
250GroupStatusFanout	Х		Х		Х			Х		Х		Χ	Х		
260CustomNestedMsg	Х		Х					Х		X	Χ		X		
280MarketPricePerformance	Х		X					Χ		X	X		X		
300MarketPriceClose	Х		X					Х		X		X	X		
301MarketPricePriorityChange	Х		X					Х		X	Χ		X		
320CustomGenericMsg	Х		X					Х		X	X		X		
331DirectoryUserControl	Х				Χ		Χ			X		Χ	X		
332DictionaryUserControl	Х							Х	Х			X	X		
350DictionaryStreaming	Х		X			Χ		Х		X		Χ	X		
380MarketPriceConnectionLost	Х		Х		_			Х		Х		Χ	Х		

		Str	uctu	re
Map::add<>()	x x x x x FieldList::add<>()	ElementList::add<>()	X X X X X X X X X RefreshMsg::set<>()	× UpdateMsg::set<>()
	Х		Х	Х
	Х		Х	
	Χ		Χ	X X
	Χ		Χ	Χ
X	X		X	X
Х	Х		Х	
			Х	
	Х	Х	Х	Х
	X X X		Х	X X X X
Х	Х		Х	Χ
X	Х	Х	X	X
Χ	Х	Χ	X	Χ
	Х		Х	Х
	Χ		Χ	Х
	Х		Х	Х
	Χ		Χ	Χ
	Х	Х	Х	Х
Х	Х	Х	Х	Х
Χ	Х		Х	Х
Х	Х		Х	Х
	Х		Х	Х