# List of Consumer Examples

DocID: EMAC382L1EX.240

Legend: Columns grouped under **Feature** (Streaming request … Ability to Pass in Dictionary Object) and **Structure** (Msg.ToString() … Msg->Opaque).

| Consumer Example Name | Streaming request | Tunneling Connection | Snapshot request | Close request | Set Closure | Qos | Priority | Batch | View | SymbolList | Private Stream | On Stream posting | Off Stream Posting | VPI | Sending generic msg | Reissue priority | Reissue batch | Reissue View | Reissue Pause & Resume | User Dispatch | Api Dispatch | Sub Stream(Msg in Msg) | File Config | Programmatic Config | Specify Admin messages | Rmtes Decoder | forth(FieldName) | forth( const Data &) | Tunnel stream | Ripple Fields | Horizontal Scaling | Authentication Token Handling | Login Reissue | Channel Information | Login Domain Representation | Session Management | HandleRTT | ServiceEndpointDiscovery Helper | Warm Standby | OAuth2 Credential Callback | oAuth2 JWT | Multi-Credential Config | Ability to Pass in Dictionary Object | Msg.ToString() | Msg->FieldList.ToString() | Map->FieldList->ToString() | Msg->Map->FieldList | Msg->Map->Map(Action type,Key)->FieldList | Msg->Map->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 |
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| 100_MP_Streaming | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 101_MP_QosPriority | X | | | | | X | X | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 102_MP_Snapshot | | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 110_MP_FileCfg | X | | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 111_MP_UserSpecifiedFileCfg | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 112_MP_TunnelingConnection | X | X | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | | | | | |
| 113_MP_SessionMgmt | X | X | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | X | | | | | | | | X | | | | | | | | | | | | | |
| 120_MP_FieldListWalk | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| 121_MP_FieldListSrchByName | X | | | | X | | | | | | | | | | | | | | | | X | | | | | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| 130_MP_UserDisp | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| 140_MBO_Streaming | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 170_MP_ChannelInfo | X | | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | |
| 180_MP_Websocket | X | | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| 200_MP_Streaming | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| 210_MBO_Streaming | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| 220_MBP_PrivateStream | X | | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| 230_MBO_SwitchEntryAction | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| 240_MP_RippleFields | X | | | | X | | | | | | | | | | | | | | | | X | | | | | | | | | X | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| 250_Custom_Opaque | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 260_MP_FieldListSearchByList | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 270_SymbolList | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 280_MP_Perf | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 290_Custom_Decode | X | | | | X | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| 291_Custom_DownCast | X | | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| 300_MP_Close | X | | | X | X | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 301_MP_PriorityChange | X | | | | X | | | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 310_MP_Rmtes | X | | | | | | | | | | | | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| 320_Custom_GenericMsg | X | | | | X | | | | | | | | | | X | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| 330_Login_Streaming | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | X | | |
| 331_Directory_Streaming | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | X | | |
| 332_Dictionary_Streaming | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | X | |
| 333_Login_Streaming_DomainRep | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | X | | | X | | |
| 340_MP_OnStreamPost | X | | | | X | | | | | | | X | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| 341_MP_OffStreamPost | X | | | | X | | | | | | | | X | X | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| 350_MP_PauseAll | X | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 360_MP_View | X | | | | | | | | X | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 370_MP_Batch | X | | | | | | | X | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 400_Custom_NestedMessaging | X | | | | X | | | | | | X | | | | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | X | | |
| 410_MP_HorizontalScaling | X | | | | X | | | | | | | | | | | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 420_MP_AdminDomainCfg | X | | | | | | | | | | | | | | | | | | | | X | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 421_MP_ProgrammaticCfg | X | | | | | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 422_MP_ErrorClient | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 423_MP_AdminDomainCfg_DomainRep | X | | | | | | | | | | | | | | | | | | | X | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | | X | | | | | | |
| 430_MP_Authentication | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | X | X | | | | | | | | | | | X | | | | | | | X | | | | | | |
| 440_System_TunStrm | X | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| 450_MP_QueryServiceDiscovery | X | X | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | X | X | | | | | X | | | | | | | | | | | | |
| 451_MP_OAuth2Callback_V2 | X | X | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | X | | | | X | | | | | | | | | | | | |
| 452_MP_OAuth2Callback_V2JWT | X | X | | | | | | | | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | X | X | | | X | | | | | | | | | | | | |
| 460_MP_RTT | X | | | | | | | | | | | | | | | | | | | | X | X | | | | | | | | | | | | | | | X | | | | | | | X | | | | | | X | | | | | | |
| 470_MP_WarmStandby | X | | | | | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | | | | | | | X | | | | | X | | | | | | | | | | | | |
| 480_MP_MultiCredentials | X | | | | | | | | | | | | | | | | | | | | X | | | X | | | | | | | | | | | | | | | X | X | X | X | | X | | | | | | | | | | | | |
| 490_Specify_Dict_Object | X | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | X | | | | X | | | | | | | | | | |

# List of Non-Interactive Provider Examples

| NiProv Example Name | 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 | Msg.ToString() | Map::add<>() | FieldList::add<>() | ElementList::add<>() | RefreshMsg::set<>() | UpdateMsg::set<>() | StatusMsg::set<>() | RefreshMsg::get<>() | StatusMsg::get<>() |
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| 100_MP_Streaming | X | | X | | | | | | | X | | X | | | | | | | | | | | X | | X | X | | | |
| 110_MBO_Streaming | X | | X | | | | | | | X | | X | | | | | | | | | | X | X | | X | X | | | |
| 170_MP_ChannelInfo | X | | X | X | | | | | | X | | X | X | | | | | X | | | | | X | | X | X | | | |
| 200_MP_Streaming | X | | X | | | | | | | X | | X | X | | | | | | | | | | X | | X | X | | | |
| 201_MP_TunnelingConnection | X | X | X | | | | | | | X | | X | X | | | | | | | | | | X | | X | X | | | |
| 210_MBO_Streaming | X | | X | | | | | | | X | | X | X | | | | | | | | | X | X | | X | X | | | |
| 250_MP_Perf | X | | X | | | | | | | X | | X | X | | | | | | | | | | X | | X | X | | | |
| 251_MP_Perf_KeyByServiceId | X | | X | | | | | | | X | | X | X | | | | | | | | | | X | | X | X | | | |
| 300_MP_Streaming | X | | | | | X | | | X | | | X | X | | | | | | | | | X | X | X | X | X | | | |
| 310_MBO_Streaming | X | | | | | X | | | X | | | X | X | | | | | | | | | X | X | X | X | X | | | |
| 320_MP_Streaming_StatusClosed | X | | | | | X | | | X | | | X | X | | X | | | | | | | X | X | X | X | X | X | | |
| 340_Login_Streaming | X | | X | | | | X | | | X | X | | X | | | | | | | | X | | X | | X | X | | | |
| 350_Dictionary_Streaming | X | | X | | | | | X | | X | | X | | | | | | | | | | | X | | X | X | | X | X |
| 360_MP_ConnectionRecovery | X | | X | | | X | | | | X | X | | X | | | X | | | | | X | | X | | X | X | | X | X |
| 405_MP_MsgPacking | X | | X | | | | | | | X | | X | | | | | | | | X | | | X | | X | X | | | |
| 421_MP_ProgrammaticCfg | X | | | | X | | | | | X | | X | | X | | | | | | | | | X | | X | X | | | |
| 430_MP_Authentication | X | | X | | | X | | | | X | | X | X | | | | X | | X | | X | | X | | X | X | | | |

# List of Interactive Provider Examples

| IProv Example Name | 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 | Map::add<>() | FieldList::add<>() | ElementList::add<>() | RefreshMsg::set<>() | UpdateMsg::set<>() | RefreshMsg::get<>() | PostMsg::get<>() | AckMsg::set<>() | GenericMsg::get<>() | UpdateMsg::get<>() |
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| 100_MP_Streaming | X | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 102_MP_Snapshot | X | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  |  |  | X |  | X |  |  |  |  |  |  |
| 130_MP_UserDispatch | X | X |  |  |  |  | X |  | X |  | X |  |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 140_MBO_Streaming | X | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  |  | X | X |  | X | X |  |  |  |  |  |
| 150_MBO_Snapshot | X | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  |  | X | X |  | X |  |  |  |  |  |  |
| 160_Login_AcceptDeny |  | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| 161_Login_AcceptDeny_DomainRep |  | X |  |  |  |  | X |  | X |  |  | X |  |  |  | X |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| 170_MP_ConnectedClientInfo | X | X |  |  |  |  | X |  | X |  | X | X |  |  | X |  |  |  |  |  |  | X | X | X | X |  |  |  |  |  |
| 180_MP_Websocket | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  | X |  |  | X |  | X | X |  |  |  |  |  |
| 200_MP_Streaming | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 210_MBP_Streaming | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  | X | X |  | X | X |  |  |  |  |  |
| 240_SourceDirectory_Fanout | X |  | X |  | X |  | X |  | X |  | X | X |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |  |
| 250_GroupStatus_Fanout | X |  | X |  | X |  | X |  | X |  | X | X |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |  |
| 260_Custom_NestedMsg | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 280_MP_Perf | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 300_MP_Close | X |  | X |  |  |  | X |  |  |  | X | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 301_MP_PriorityChange | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 320_Custom_GenericMsg | X |  | X |  |  |  | X |  | X | X |  | X |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |  |
| 331_Directory_UserControl | X |  |  | X |  | X |  |  |  |  | X | X |  |  |  |  |  |  |  |  | X | X | X | X | X |  |  |  |  |  |
| 332_Dictionary_UserControl | X |  |  |  |  |  |  |  | X | X | X | X |  |  |  |  |  |  |  |  | X | X |  | X | X |  |  |  |  |  |
| 340_MP_Posting | X | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  | X |  |  |  | X | X | X | X |  | X | X |  |  |
| 350_Dictionary_Streaming | X | X |  |  | X |  | X |  | X |  | X | X |  |  |  |  |  |  |  |  | X | X |  | X | X | X |  |  |  | X |
| 380_MP_ConnectionLost | X | X |  |  |  |  | X |  | X |  | X | X |  |  |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 405_MP_MsgPacking | X | X |  |  |  |  | X |  | X |  |  | X |  |  |  |  |  |  |  | X |  | X |  | X | X |  |  |  |  |  |
| 421_MP_ProgrammaticCfg | X |  |  | X |  |  | X |  | X | X |  |  |  | X |  |  |  |  |  |  |  | X |  | X | X |  |  |  |  |  |
| 460_MP_RTT | X | X |  |  |  |  |  |  |  |  | X | X |  |  |  |  | X |  |  |  |  | X | X | X | X |  |  |  | X |  |