List of Consumer Examples Docid: EMAC383L1EX.240

| Consumer Example Name | | | | | | | | | | | | | | | | | | | | | Featu | ıre | | 1 | | | 1 | 1 | | | | | | | | | | | | <u> </u> |
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| | ب | Tunneling Connection | st | | | | | | | | g _U | 20 | | msg | | | | Resume | | | Sub Stream(Msg in Msg) | nfig | messages | | | (<u>8</u> | | D 0 | Authentication Token Handling | | ion | Login Domain Representation | Session Management | | ServiceEndpointDiscovery Helper | | OAuth2 Credential Callback | | Multi-Credential Config | Dicti |
| | request | nnec | Snapshot request | st | | | | | | Ε | postring | Off Stream Posting | | | ity | _ | | ૐ | اء | | /ISg I | Programmatic Config | n me | er | me) | ata | ے | Horizontal Scaling | n Tc | | Channel Information | Rep | gen | | intD | / 0 | entie | | tial (| s In |
| | | Col | ot re | Close reques | 9 7 | | | | st | treal | m pc | m Pc | | Sending generic | Reissue priority | Reissue batch | /iew | Reissue Pause | User Dispatch | tch | <u>E</u> | g nati | Specify Admin | Rmtes Decoder | forth(FieldName) | forth(const Data | Tunnel stream | S le | catio | Login Reissue | nfor | mair | Jane | ь | odpu | Warm Standby | rede | ¥ | qen | Ability to Pass |
| | Streaming | eling | shc | e re | 201 | <u> </u> | , اج | _ | SymbolList | Private Strea | On Stream | trea | | ing g | ne p | ne p | Reissue View | ue P | Disp | Api Dispatch | Sub Stream | amr | fy A | ss De | (Fiel | 00) | el st | Horizontal Sc | enti | Rei | nel I | Do | on N | HandleRTT | ceEr | n Sta | h2 C | oAuth2 JWT | i-Cre | ty to |
| | trea | uun ₋ | Snap | SOIS |) lac | Qos | 101 | batch View | ymk | riva | on St | Off S | VPI | end | eiss | eiss | eiss | eiss | Jser | Api D | qn | rogi | peci | Imte | orth | orth | unn | Horiz | uth | ogir. | han | ogir. | essi | land | ervi | Varr | Aut | Aut | Mult | Abillid |
| 100_MP_Streaming | X | _ | | | | | | | 0, | | | | | U, | | | | | | X | , . | | . 0, | | ŧ | | | | 1 | | | | 0, | | <u> </u> | | | | | |
| 101_MP_QosPriority | Х | | | | 2 | X X | (| | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | $-\!$ |
| 102_MP_Snapshot 110_MP_FileCfg | Х | | Х | | | | | | | | | | | | | | | | | X |) | , | | | | | | | | | | | | | | | | | | _ |
| 111_MP_UserSpecifiedFileCfg | X | | | - | + | + | + | + | | | | | | \vdash | | | | | | ^ | 7 | _ | + | | | | | + | | | | | | | | | | | | 十 |
| 112_MP_TunnelingConnection | Х | Х | | | \downarrow | | 丁 | 工 | | | | | | | | | | | | Х | > | (| | | | | | | | | | | | | | | | Х | | 工 |
| 113_MP_SessionMgmt | X | Х | | \perp | \perp | _ | + | \perp | 1 | | | | | | | | | | | X | > | (| | | | | | | | <u> </u> | | | Х | | | | | | | \perp |
| 120_MP_FieldListWalk 121_MP_FieldListSrchByName | X | | | + | ĸ | + | + | + | | | | | | | | | | | | X | | + | | | Х | | | + | | | | | | | | | | | | + |
| 130_MP_UserDisp | X | | | + | - | + | + | + | | | | | | | | | | | Х | ^ | | + | | | ^ | | | | | | | | | | | | | | | + |
| 140_MBO_Streaming | Х | | | | ╅ | ╛ | 丁 | 士 | 1 | | | | | | | | | | | Х | | 士 | 1 | | | | | | | | | | | | | | | | | |
| 170_MP_ChannelInfo | Х | | | | ightharpoonup | | | | | | | | | | | | | | | Х | > | | | | | | | | | | Х | | | | | | | | | 工 |
| 180_MP_Websocket | X | <u> </u> | | + | + | \perp | + | + | 1 | | | _ | | | | | | | Х | |) | (| + | | | | | | | <u> </u> | | | | | | | | | | \dashv |
| 200_MP_Streaming 210_MBO_Streaming | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | + | | | | | | | | | | | | - |
| 220_MBP_PrivateStream | X | | | | | | | | | Х | | | | | | | | | Х | ^ | | | | | | | | | | | | | | | | | | | | |
| 230_MBO_SwitchEntryAction | Х | | | | | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | | |
| 240_MP_RippleFields | Х | | |) | K | | | | | | | | | | | | | | Х | | | | | | | |) | (| | | | | | | | | | | | |
| 250_Custom_Opaque | X | - | | - | - | _ | - | | | | | | | | | | | | _ | Х | | | | | | | | | | - | | | | | | | | | | |
| 260_MP_FieldListSearchByList 270_SymbolList | X | | | | | | | | | | | | | | | | | | | X | | | | | | Х | | + | | | | | | | | | | | | - |
| 280_MP_Perf | X | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | + |
| 290_Custom_Decode | Х | | |) | ĸ | | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | |
| 291_Custom_DownCast | Х | | |) | K | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | | |
| 300_MP_Close | X | | | X) | | _ | | | | | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | | Х | | | | | | | | | | | | | | | | | | | | |
| 301_MP_PriorityChange 310_MP_Rmtes | X | | | + | K | | | | | | | | | | Х | | | | Х | Х | | | | Х | | | | + | | | | | | | | | | | | + |
| 320_Custom_GenericMsg | Х | | |) | ĸ | | | | | | | | | Х | | | | | Х | | | | | | | | | | | | | | | | | | | | | \dashv |
| 330_Login_Streaming | Х | | | | | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | | |
| 331_Directory_Streaming | Х | | | | | | | | | | | | | | | | | | _ | Х | | | | | | | | | | | | | | | | | | | | |
| 332_Dictionary_Streaming | X | | | | | | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | _ |
| 333_Login_Streaming_DomainRep 340_MP_OnStreamPost | X | \vdash | \vdash | ١, | + | + | + | + | + | | Х | | | | \vdash | | | | Х | х | + | + | + | | | - | | + | | - | | Х | | | | | | | | + |
| 341_MP_OffStreamPost | X | | | | X | + | + | + | | | <u> </u> | Х | Х | | | | | | | X | + | + | | | | | | | | | | | | | | | | | | + |
| 350_MP_PauseAll | Х | | | | 土 | 工 | 丁 | | | | | | | | | | | Х | | Х | | | | | | | | | | | | | | | | | | | | |
| 360_MP_View | Х | <u> </u> | \prod | \perp | 1 | | \perp | Х | | <u> </u> | | | | | igsqcup | | | | Х | | \bot | \perp | | | | | | <u> </u> | | <u> </u> | | | | | | | | | | |
| 370_MP_Batch | X | | \vdash | +. | | + |) | <u> </u> | | X | | <u> </u> | | | | | | | _ | X Z | x | + | - | | | | | + | | <u> </u> | | | | | | | | | | \dashv |
| 400_Custom_NestedMessaging 410_MP_HorizontalScaling | X | | |) | <u>`</u> | + | + | _ | 1 | ^ | | | | | | | | | Х | ^ / | ^ | + | | | | | | Х | | | | | | | | | | | | + |
| 420_MP_AdminDomainCfg | X | | | + | + | | + | + | 1 | | | | | | | | | | X | | | + | Х | | | | | +^ | | | | | | | | | | | | + |
| 421_MP_ProgrammaticCfg | Х | | | | | | | | | | | | | | | | | | _ | Х | | Х | | | | | | | | | | | | | | | | | | 工 |
| 422_MP_ErrorClient | X | | | _ | \bot | + | _ | _ | 1 | | | <u> </u> | | | | | | | | Х | _ | + | + | | | | | - | | <u> </u> | | L. | | | | | | | | |
| 423_MP_AdminDomainCfg_DomainRep 430_MP_Authentication | X | | \vdash | | + | + | + | _ | | | | | | | | | | | Х | х | - | + | Х | | | | | + | Х | Х | | Х | | | | | | | | + |
| 440_System_TunStrm | X | | | | + | + | + | + | | | | | | | | | | | | | х | + | | | | | Х | | | ^ | | | | | | | | | | + |
| 450_MP_QueryServiceDiscovery | X | Х | | | 士 | ╛ | 丁 | | | | | | | | | | | | | X | | Х | | | | | | | | | | | Х | | Х | | | | | |
| 451_MP_OAuth2Callback_V2 | Х | Х | | | | | | | | | | | | | | | | | | Х | | Х | | | | | | | | | | | | | | | Х | | | |
| 452_MP_OAuth2Callback_V2JWT | _ | Х | | + | + | \perp | + | + | - | | | | | | | | | | | X | - | , X | | | | | | + | | - | 1 | | | | | | | Х | | \bot |
| 460_MP_RTT 470_MP_WarmStandby | X | | \vdash | + | + | + | + | + | 1 | - | | - | | | | | | | | X | > | X | + | | | | | | | - | | | | X | | Х | Х | | | + |
| 480_MP_MultiCredentials | X | _ | | | + | + | + | + | | | | | | | | | | | _ | X | + | X | _ | | | | | + | | | | | Х | | | | Х | Х | Х | + |
| 490_Specify_Dict_Object | Х | | | | | | | | | | | | | | | | | | | Х | | | | | | | | | | | | | | | | | | | | Х |
| 500_PH_FileConfig | Х | | | | | | | | | | | | | | | | | | | Х | > | | | | | | | | | | Х | | | | | | | | | |
| 501_PH_ProgrammaticCfg | X | | | | | \perp | \perp | | | | | | | | | | | | | X | | Х | | | | | | - | | | X | | | | | | | | | |
| 502_PH_ChannelInfo | X | | | | | | | | | <u> </u> | | | | | | | | | | Х | | | | | | | | | | | X | | | | | | | | | 2 |

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| × 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 |
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List of Non-Interactive Provider Examples

| NiProv Example Name | | | | | | | | | | Feat | ture | | | | | | | | | |
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| | 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 | | | | | | | | |
| 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 | Χ | | Х | | | | | | Х | | Х | Х | | | | | | | |
| 210_MBO_Streaming | Х | | | Χ | | | | | | Х | | Х | Х | | | | | | | |
| 250_MP_Perf | Х | | | Х | | | | | | Х | | Х | Х | | | | | | | |
| 251_MP_Perf_KeyByServiceId | Х | | | Χ | | | | | | Х | | Х | Х | | | | | | | |
| 300_MP_Streaming | Х | | | | | Х | | | Х | | | Х | Х | | | | | | | |
| 310_MBO_Streaming | Х | | | | | Х | | | Χ | | | X | Χ | | | | | | | |
| 320_MP_Streaming_StatusClosed | Х | | | | | Х | | | Χ | | | X | Χ | | X | | | | | |
| 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 | | Χ | | | Х | | | | |
| 405_MP_MsgPacking | Х | | | X | | | | | | Χ | | X | | | | | | | | X |
| 421_MP_ProgrammaticCfg | Х | | | | Х | | | | | Χ | | X | | X | | | | | | |
| 430_MP_Authentication | Х | | | X | | | X | | | X | | X | X | | | | X | | Х | |

| | Structure | | | | | | | | | | | | | | |
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| Msg.ToString() | Map::add<>/() | ieldList::add<>() | ElementList::add<>() | efreshMsg::set<>() | pdateMsg::set<>() | StatusMsg::set<>() | RefreshMsg::get<>() | StatusMsg::get<>() | | | | | | | |
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| | | X X X | 3 | х х х х | X X X X | S | R | IS S | | | | | | | |
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| | | X X X X X | 3 | X X X X X | X X X X X | Š | <u> </u> | NS NO | | | | | | | |
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List of Interactive Provider Examples

| IProv Example Name | | | | | | | | | | Feat | ture | | | | | | | | | |
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| | 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 | Ö | Ö | Sı | ۵ | ا | X | D | X | Ď | X | 证 | Pı | Ö |) | Ï | Pc | C | Σ |
| 102_MP_Snapshot | X | Х | | | | | | X | | X | | X | | | | | | | | |
| 130_MP_UserDispatch | X | Х | | | | | | X | | X | Х | - 71 | | | | | | | | |
| 140_MBO_Streaming | X | Х | | | | | | X | | X | | Х | | | | | | | | |
| 150_MBO_Snapshot | X | Х | | | | | | X | | X | | X | | | | | | | | |
| 160_Login_AcceptDeny | 1 | X | | | | | | X | | X | | X | | | | | | | | |
| 161_Login_AcceptDeny_DomainRep | | Х | | | | | | X | | X | | X | | | | Х | | | | |
| 170_MP_ConnectedClientInfo | Х | X | | | | | | X | | X | | X | Х | | Х | | | | | |
| 180_MP_Websocket | X | | Х | | | | | X | | X | Х | | X | | | | | | Х | |
| 200_MP_Streaming | X | | X | | | | | X | | X | X | | X | | | | | | | |
| 210_MBP_Streaming | X | | X | | | | | X | | X | X | | X | | | | | | | |
| 240_SourceDirectory_Fanout | X | | X | | Х | | | X | | X | | Х | X | | | | | | | |
| 250_GroupStatus_Fanout | Х | | X | | Х | | | X | | X | | X | X | | | | | | | |
| 260_Custom_NestedMsg | X | | X | | | | | X | | X | Х | - | X | | | | | | | |
| 280_MP_Perf | X | | X | | | | | X | | X | X | | X | | | | | | | \square |
| 300_MP_Close | Х | | X | | | | | X | | X | | Х | X | | | | | | | \Box |
| 301_MP_PriorityChange | Х | | X | | | | | X | | X | Х | | X | | | | | | | \Box |
| 320_Custom_GenericMsg | Х | | Χ | | | | | Χ | | Х | Х | | Χ | | | | | | | |
| 331_Directory_UserControl | Х | | | | Х | | Χ | | | Х | | Χ | Χ | | | | | | | |
| 332_Dictionary_UserControl | Х | | | | | | | X | X | | | Χ | Χ | | | | | | | |
| 340_MP_Posting | Х | | Χ | | | | | | | | Х | | Χ | | | | | Χ | | |
| 350_Dictionary_Streaming | Х | | Х | | | Х | | X | | Х | | Х | Х | | | | | | | |
| 380_MP_ConnectionLost | Х | | X | | | | | X | | X | | X | X | | | | | | | |
| 405_MP_MsgPacking | Х | | X | | | | | X | | X | | X | | | | | | | | Х |
| 421_MP_ProgrammaticCfg | Х | | | Х | | | | X | | X | X | | | X | | | | | | |
| 460_MP_RTT | Х | | Х | | | | | | | | | Х | Χ | | | | Х | | | |

| | | 9 | Struc | ture | e | | | | |
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| Map::add<>() | × × FieldList::add<>() | ElementList::add<>/() | X X X X X X X RefreshMsg::set<>() | × UpdateMsg::set<>() | RefreshMsg::get<>() | PostMsg::get<>() | AckMsg::set<>() | GenericMsg::get<>() | UpdateMsg::get<>() |
| | X | | Х | Х | | | | | |
| | X | | Χ | | | | | | |
| | X | | Χ | X | | | | | |
| X | X | | X | X | | | | | |
| X | X | | Х | | | | | | |
| | | | X | | | | | | |
| | | | X | | | | | | |
| | X | Х | X | X | | | | | |
| | X | | X | X | | | | | |
| V | X | | X | X | | | | | |
| X | X | Х | X Y | X | | | | | |
| X | X | X | X | X | | | | | |
| ^ | X | ^ | X | X | | | | | |
| | X | | X | X | | | | | |
| | X | | X | Х | | | | | |
| | X | | X | Х | | | | | |
| | Χ | Х | Х | X | | | | | |
| X | X | X | X | X | | | | | |
| Χ | X | | Χ | X | | | | | |
| | X | Χ | Χ | X | | X | X | | |
| X | X | | X | X | X | | | | Х |
| | X | | Х | X | | | | | |
| | X | | X | X | | | | | |
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| | X | X | Х | X | | | | X | |