

Calypso Prime Applet – Regular mode (CityGo Fly 40) + TEST-F5 (Version 8.2 – With PKI)

UseCase4_ChipAuthentication

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[12:27:54:735] [main] [INFO] Main_CardAuthentication_Pcsc - = UseCase Calypso #4: Calypso card authentication =====
[12:27:54:820] [main] [INFO] SmartCardServiceAdapter - Register plugin [PcscPlugin]
[12:27:54:852] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: use default protocol identification rules
[12:27:54:858] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[12:27:55:833] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[12:27:55:833] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set contactless type to [false]
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set ISO protocol to [ANY] (*)
[12:27:55:860] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set sharing mode to [SHARED]
[12:27:55:875] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel for protocol [*]
[12:27:56:090] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel in shared mode
[12:27:56:103] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[12:27:56:106] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
[12:27:56:107] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A000000291FF9101]
[12:27:56:120] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00A4040008A00000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 5.146232805E8 ms
[12:27:56:129] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"6F228408A00000291FF9101A516BF0C13C70800000006227018053070AC02702204B209000","statusWord":"9000"}, elapsed 20.3 ms
[12:27:56:141] [main] [DEBUG] CommandGetDataFci - DF name: A000000291FF9101
[12:27:56:141] [main] [DEBUG] CommandGetDataFci - Application serial number: 0000000062270180h
[12:27:56:141] [main] [DEBUG] CommandGetDataFci - Discretionary data: 0AC02702204B20
[12:27:56:164] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"8084000004","successfulStatusWords":["9000"],"info":"Get Challenge"}, elapsed 5.146233356E8 ms
[12:27:56:170] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"5C0D11539000","statusWord":"9000"}, elapsed 6.0 ms
[12:27:56:172] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"008A0301045C0D115300","successfulStatusWords":["9000"],"info":"Open Secure Session - key index: 3, sfi: 00h, rec: 0"}, elapsed 42.7 ms
[12:27:56:187] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"030D3A3D003079009000","statusWord":"9000"}, elapsed 16.0 ms
[12:27:56:187] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00B2013C1D","successfulStatusWords":["9000","6A82","6A83"],"info":"Read Records - sfi: 07h, rec: 1, read mode: ONE_RECORD, expected length: 29"},
elapsed 0.2 ms
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[13:29:22:387] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[13:29:23:213] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[13:29:23:213] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set contactless type to [false]
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set ISO protocol to [ANY] (*)
[13:29:23:231] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set sharing mode to [SHARED]
[13:29:23:245] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel for protocol [*]
[13:29:23:458] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel in shared mode
[13:29:23:469] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[13:29:23:503] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
[13:29:23:504] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A000000291FF9101]
[13:29:23:518] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00A4040008A000000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 3.454965384E8 ms
[13:29:23:530] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"6F228408A000000291FF9101A516BF0C13C708000000006227018053070AC02702204B209000","statusWord":"9000"}, elapsed 24.0 ms
[13:29:23:538] [main] [DEBUG] CommandGetDataFci - DF name: A000000291FF9101
[13:29:23:538] [main] [DEBUG] CommandGetDataFci - Application serial number: 0000000062270180h
[13:29:23:538] [main] [DEBUG] CommandGetDataFci - Discretionary data: 0AC02702204B20
[13:29:23:548] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - = SmartCard =
{"selectApplicationResponse":{"apdu":"6F228408A000000291FF9101A516BF0C13C708000000006227018053070AC02702204B209000","statusWord":"9000"},"isExtendedModeSupported":false,"isRatificationOnDeselectSupported":false,"isSvFeatureAvailable":true,"isPinFeatureAvailable":true,"isPkiModeSupported":false,"isDfInvalidated":false,"calypsoCardClass":"ISO","calypsoSerialNumber":"0000000062270180","startupInfo":"0AC02702204B20","productType":"PRIME_REVISION_3","dfName":"A000000291FF9101","modificationsCounterMax":"01AE","isModificationCounterInBytes":true,"files":[],"filesBackup":[],"svLastTNum":"00","svLastTNumBackup":"00","isHce":false,"svKvc":"00","applicationSubType":"02","applicationType":"27","sessionModification":"0A","payloadCapacity":"FA","isCounterValuePostponed":false,"isLegacyCase1":false}
[13:29:23:549] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - Calypso Serial Number = 0000000062270180
[13:29:23:559] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"007C000721","successfulStatusWords":["9000"],"info":"SV Get - operation: RELOAD"}, elapsed 29.3 ms
[13:29:23:575] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"790000000000D9DD0000000000000000000000000000000000000000000000000000000000000000000000000000009000","statusWord":"9000"}, elapsed 16.6 ms
[13:29:23:578] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - Current SV status (SV Get for RELOAD):
[13:29:23:578] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - . Balance = 0
[13:29:23:578] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - . Last Transaction Number = 0
[13:29:23:579] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - . Debit log record =
{"amount":0,"balance":0,"loadDate":"0000","loadTime":"0000","freeBytes":"0000","kvc":"00","samId":"00000000","svTransactionNumber":0,"svSamTransactionNumber":0}
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[13:29:23:585] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"801400008000000062270180","successfulStatusWords":["9000"],"info":"Select Diversifier"}, elapsed 3.454966173E8 ms
[13:29:23:591] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 6.5 ms
[13:29:23:591] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"805601FF367C000721790000000000D9DD00000000000000000000009000B80000170000000079000000020000"}, "successfulStatusWords":["9000"],"info":"SV Prepare Load"}, elapsed 0.2 ms
[13:29:23:612] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"87D9EA00000164365720AE9000","statusWord":"9000"}, elapsed 20.6 ms
[13:29:23:612] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"00B887D917EA00000079000000020000AEC9C19D00000164365720AE03","successfulStatusWords":["9000","6200"],"info":"SV Reload"}, elapsed 36.6 ms
[13:29:23:629] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"6E8FF09000","statusWord":"9000"}, elapsed 17.2 ms
[13:29:23:663] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"8058000036E8FF0","successfulStatusWords":["9000"],"info":"SV Check"}, elapsed 51.5 ms
[13:29:23:669] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 6.0 ms
[13:29:23:670] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - The Secure Session ended successfully, the stored value has been reloaded by 2 units.
[13:29:23:670] [main] [INFO] Main_StoredValue_SimpleReloading_Pcsc - = #### End of the Calypso card processing.
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UseCase8_StoredValue_DebitInSession

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[13:35:39:073] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - = UseCase Calypso #8: Stored Value debit =====
[13:35:39:153] [main] [INFO] SmartCardServiceAdapter - Register plugin [PcscPlugin]
[13:35:39:183] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: use default protocol identification rules
[13:35:39:189] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[13:35:39:956] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[13:35:39:956] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set contactless type to [false]
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set ISO protocol to [ANY] (*)
[13:35:39:974] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set sharing mode to [SHARED]
[13:35:39:989] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel for protocol [*]
[13:35:39:994] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel in shared mode
[13:35:40:004] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[13:35:40:006] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
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[13:35:40:007] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A00000291FF9101]
[13:35:40:019] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00A4040008A00000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 3.458730408E8 ms
[13:35:40:027] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"6F228408A00000291FF9101A516BF0C13C70800000006227018053070AC02702204B209000","statusWord":"9000"}, elapsed 19.0 ms
[13:35:40:037] [main] [DEBUG] CommandGetDataFci - DF name: A00000291FF9101
[13:35:40:037] [main] [DEBUG] CommandGetDataFci - Application serial number: 000000062270180h
[13:35:40:037] [main] [DEBUG] CommandGetDataFci - Discretionary data: 0AC02702204B20
[13:35:40:048] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - = SmartCard =
{"selectApplicationResponse":{"apdu":"6F228408A00000291FF9101A516BF0C13C70800000006227018053070AC02702204B209000","statusWord":"9000"},"isExtendedModeSupported":false,"isRatificationOnDeselectSupported":false,"isSvFeatureAvailable":true,"isPinFeatureAvailable":true,"isPkiModeSupported":false,"isDfInvalidated":false,"calypsoCardClass":"ISO","calypsoSerialNumber":"000000062270180","startupInfo":"0AC02702204B20","productType":"PRIME_REVISION_3","dfName":"A00000291FF9101","modificationsCounterMax":"01AE","isModificationCounterInBytes":true,"files":[],"filesBackup":[],"svLastTNum":"00","svLastTNumBackup":"00","isHce":false,"svKvc":"00","applicationSubType":"02","applicationType":"27","sessionModification":"0A","payloadCapacity":"FA","isCounterValuePostponed":false,"isLegacyCase1":false}
[13:35:40:049] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - Calypso Serial Number = 000000062270180
[13:35:40:064] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"8084000004","successfulStatusWords":["9000"],"info":"Get Challenge"}, elapsed 3.458730967E8 ms
[13:35:40:070] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"AE28A3E89000","statusWord":"9000"}, elapsed 5.8 ms
[13:35:40:072] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"008A030104AE28A3E800","successfulStatusWords":["9000"],"info":"Open Secure Session - key index: 3, sfi: 00h, rec: 0"}, elapsed 44.9 ms
[13:35:40:088] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"030D3B4D003079009000","statusWord":"9000"}, elapsed 16.0 ms
[13:35:40:089] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"007C000721","successfulStatusWords":["9000"],"info":"SV Get - operation: RELOAD"}, elapsed 0.1 ms
[13:35:40:104] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"7900016E8FF063AA0000200000079000000020000AEC9C19D0000100019000","statusWord":"9000"}, elapsed 15.2 ms
[13:35:40:104] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"007C00091E","successfulStatusWords":["9000"],"info":"SV Get - operation: DEBIT"}, elapsed 0.2 ms
[13:35:40:126] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"7900016E8FF0A5320000200000000000000000000000000000000000000000000009000","statusWord":"9000"}, elapsed 21.6 ms
[13:35:40:129] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - Current SV status (SV Get for DEBIT):
[13:35:40:129] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - . Balance = 2
[13:35:40:129] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - . Last Transaction Number = 1
[13:35:40:130] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - . Load log record =
{"amount":2,"balance":2,"loadDate":"0000","loadTime":"0000","freeBytes":"0000","kvc":"79","samId":"AEC9C19D","svTransactionNumber":1,"svSamTransactionNumber":1}
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[13:35:40:270] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 6.1 ms
[13:35:40:270] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - The Secure Session ended successfully, the stored value has been debited by 2 units.
[13:35:40:270] [main] [INFO] Main_StoredValue_DebitInSession_Pcsc - = #### End of the Calypso card processing.
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UseCase10_SessionTrace_TN313

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[13:22:26:138] [main] [INFO] Main_SessionTrace_TN313_Pcsc - ===== UseCase Calypso #10: session trace TN313 =====
[13:22:26:139] [main] [INFO] Main_SessionTrace_TN313_Pcsc - Using parameters:
[13:22:26:141] [main] [INFO] Main_SessionTrace_TN313_Pcsc -   AID=A000000291FF9101
[13:22:26:142] [main] [INFO] Main_SessionTrace_TN313_Pcsc -   CARD_READER_REGEX=.*ASK LoGO.*|.*Contactless.*|.*ELYCTIS CL .*
[13:22:26:142] [main] [INFO] Main_SessionTrace_TN313_Pcsc -   SAM_READER_REGEX=.*Identiv.*|.*HID.*|.*SAM.*|.*ELYCTIS CNT .*
[13:22:26:220] [main] [INFO] SmartCardServiceAdapter - Register plugin [PcscPlugin]
[13:22:26:252] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: use default protocol identification rules
[13:22:26:258] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[13:22:27:020] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[13:22:27:020] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[13:22:27:036] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[13:22:27:036] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[13:22:27:036] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[13:22:27:036] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set contactless type to [false]
[13:22:27:037] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set ISO protocol to [ANY] (*)
[13:22:27:037] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set sharing mode to [SHARED]
[13:22:27:050] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel for protocol [*]
[13:22:27:262] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel in shared mode
[13:22:27:281] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"8084000008","successfulStatusWords":["9000"],"info":"Get Challenge"}, elapsed 3.450803046E8 ms
[13:22:27:289] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"8995788E7532A9309000","statusWord":"9000"}, elapsed 17.0 ms
[13:22:27:289] [main] [INFO] Main_SessionTrace_TN313_Pcsc - Select application with AID = 'A000000291FF9101'
[13:22:27:293] [main] [INFO] ObservationManagerAdapter - Reader [ELYCTIS CL reader 324483150000 0] adds observer [CardReaderObserver]
[13:22:27:293] [main] [INFO] ObservableLocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] starts card detection with polling mode [REPEATING]
[13:22:27:295] [main] [INFO] Main_SessionTrace_TN313_Pcsc - Wait for a card...
[13:22:27:297] [main] [INFO] Main_SessionTrace_TN313_Pcsc - Press ENTER to exit...
[13:22:31:217] [pool-1-thread-1] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[13:22:31:223] [pool-1-thread-1] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
[13:22:31:224] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A000000291FF9101]
[13:22:31:226] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"00A4040008A000000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 3.450842589E8 ms
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[13:22:31:347] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 19.3 ms
[13:22:31:348] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"808E000004","successfulStatusWords":["9000"],"info":"Digest Close"}, elapsed 0.1 ms
[13:22:31:353] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"B13164429000","statusWord":"9000"}, elapsed 5.9 ms
[13:22:31:354] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"008E000004B131644200","successfulStatusWords":["9000"],"info":"Close Secure Session"}, elapsed 46.7 ms
[13:22:31:364] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"F8F7170D9000","statusWord":"9000"}, elapsed 10.2 ms
[13:22:31:364] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"00B2000000","successfulStatusWords":["9000"],"info":"Ratification"}, elapsed 0.1 ms
[13:22:31:371] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"6B00","statusWord":"6B00"}, elapsed 7.5 ms
[13:22:31:372] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"8082000004F8F7170D","successfulStatusWords":["9000"],"info":"Digest Authenticate"}, elapsed 19.1 ms
[13:22:31:379] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 6.7 ms
[13:22:31:380] [pool-1-thread-1] [INFO] CardReaderObserver - [32mTransaction succeeded. Execution time: 140 ms[0m
[13:22:31:380] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"8084000008","successfulStatusWords":["9000"],"info":"Get Challenge"}, elapsed 0.9 ms
[13:22:31:387] [pool-1-thread-1] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"E2991561DBD456F89000","statusWord":"9000"}, elapsed 7.1 ms
[13:22:31:387] [pool-1-thread-1] [INFO] ObservableLocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] starts card removal sequence
```

Calypso Prime Native – Extended mode (Watchdata Technologies) + Test-F5 (Version 8.2 – With PKI)

UseCase15_ExtendedModeSession

```
[13:43:03:461] [main] [INFO] Main_ExtendedModeSession_Pcsc - = UseCase Calypso #15: Extended Mode Session =====
[13:43:03:549] [main] [INFO] SmartCardServiceAdapter - Register plugin [PcscPlugin]
[13:43:03:580] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: use default protocol identification rules
[13:43:03:587] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[13:43:04:352] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[13:43:04:352] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set contactless type to [false]
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set ISO protocol to [ANY] (*)
[13:43:04:370] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: set sharing mode to [SHARED]
[13:43:04:385] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel for protocol [*]
[13:43:04:604] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0]: open card physical channel in shared mode
[13:43:04:613] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[13:43:04:616] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
[13:43:04:617] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A000000291FF9101]
[13:43:04:627] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00A4040008A000000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 3.463176508E8 ms
[13:43:04:634] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"6F228408A000000291FF9101A516BF0C13C70800000007F5D7BC253070C502F021532019000","statusWord":"9000"}, elapsed 15.1 ms
[13:43:04:644] [main] [DEBUG] CommandGetDataFci - DF name: A000000291FF9101
[13:43:04:644] [main] [DEBUG] CommandGetDataFci - Application serial number: 00000007F5D7BC2h
[13:43:04:644] [main] [DEBUG] CommandGetDataFci - Discretionary data: 0C502F02153201
[13:43:04:655] [main] [INFO] Main_ExtendedModeSession_Pcsc - = SmartCard =
{"selectApplicationResponse":{"apdu":"6F228408A000000291FF9101A516BF0C13C70800000007F5D7BC253070C502F021532019000","statusWord":"9000"},"isExtendedModeSupported":true,"isRatificationOnDeselectSupported":false,"isSvFeatureAvailable":true,"isPinFeatureAvailable":true,"isPkiModeSupported":false,"isDfInvalidated":false,"calypsoCardClass":"ISO","calypsoSerialNumber":"00000007F5D7BC2","startupInfo":"0C502F02153201","productType":"PRIME_REVISION_3","dfName":"A000000291FF9101","modificationsCounterMax":"0260","isModificationCounterInBytes":true,"files":[],"filesBackup":[],"svLastTNum":"00","svLastTNumBackup":"00","isHce":false,"svKvc":"00","applicationSubType":"02","applicationType":"2F","sessionModification":"0C","payloadCapacity":"FA","isCounterValuePostponed":false,"isLegacyCase1":false}
[13:43:04:673] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"8084000008","successfulStatusWords":["9000"],"info":"Get Challenge"}, elapsed 3.46317705E8 ms
[13:43:04:680] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"AF67E8E702AA2AB39000","statusWord":"9000"}, elapsed 7.3 ms
```



```
[13:43:04:749] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"808C00800500B2014C1D","successfulStatusWords":["9000"],"info":"Digest Update"}, elapsed 0.2 ms
[13:43:04:761] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"00B2014C1D9000","statusWord":"9000"}, elapsed 11.9 ms
[13:43:04:761] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"00B2014C1D","successfulStatusWords":["9000","6A82","6A83"],"info":"Read Records - sfi: 09h, rec: 1, read mode: ONE_RECORD, expected length: 29"}, elapsed 31.7 ms
[13:43:04:766] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"06093950644F5B3964BD8A63C8D45703989DAC8CC99C0D503FEEB8E7A29000","statusWord":"9000"}, elapsed 3.9 ms
[13:43:04:766] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"0082000000","successfulStatusWords":["9000"],"info":"Manage Secure Session"}, elapsed 0.1 ms
[13:43:04:769] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 3.0 ms
[13:43:04:769] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"00E200401D00112233445566778899AABBCCDDEEFF00112233445566778899AABBCC","successfulStatusWords":["9000"],"info":"Append Record - sfi: 08h"}, elapsed 0.1 ms
[13:43:04:774] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 4.3 ms
[13:43:04:774] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"808C00801F06093950644F5B3964BD8A63C8D45703989DAC8CC99C0D503FEEB8E7A29000","successfulStatusWords":["9000"],"info":"Digest Update"}, elapsed 12.2 ms
[13:43:04:793] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"0000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF90009000","statusWord":"9000"}, elapsed 18.5 ms
[13:43:04:794] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"808C8000262200E200401D00112233445566778899AABBCCDDEEFF00112233445566778899AABBCC029000","successfulStatusWords":["9000"],"info":"Digest Update Multiple"}, elapsed 1.4 ms
[13:43:04:804] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"9000","statusWord":"9000"}, elapsed 10.0 ms
[13:43:04:804] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"808E000008","successfulStatusWords":["9000"],"info":"Digest Close"}, elapsed 0.2 ms
[13:43:04:811] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"78D209DF6F7F4B619000","statusWord":"9000"}, elapsed 6.8 ms
[13:43:04:811] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"008E80000878D209DF6F7F4B6100","successfulStatusWords":["9000"],"info":"Close Secure Session"}, elapsed 37.7 ms
[13:43:04:823] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE = {"apdu":"6E9202DDE85AE7D29000","statusWord":"9000"}, elapsed 12.0 ms
[13:43:04:856] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CNT reader 324483150000 0] --> apduRequest: APDU_REQUEST = {"apdu":"80820000086E9202DDE85AE7D2","successfulStatusWords":["9000"],"info":"Digest Authenticate"}, elapsed 45.5 ms
```

Calypso Prime Native – PKI mode (Gemalto Calypso Prime G3) + Test-F5 (Version 8.2 – With PKI)

UseCase16_PkiModeSession

```
[13:51:18:135] [main] [INFO] Main_PkiModeSession_Pcsc - = UseCase Calypso #16: PKI Mode Session =====
[13:51:18:240] [main] [INFO] SmartCardServiceAdapter - Register plugin [PcscPlugin]
[13:51:18:274] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: use default protocol identification rules
[13:51:18:282] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: search available readers
[13:51:19:110] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CL reader 324483150000 0]
[13:51:19:111] [main] [INFO] PcscPluginAdapter - Plugin [PcscPlugin]: reader found: [ELYCTIS CNT reader 324483150000 0]
[13:51:19:129] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set contactless type to [true]
[13:51:19:129] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set ISO protocol to [T1] (T=1)
[13:51:19:129] [main] [INFO] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: set sharing mode to [SHARED]
[13:51:19:390] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel for protocol [T=1]
[13:51:19:396] [main] [DEBUG] PcscReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0]: open card physical channel in shared mode
[13:51:19:397] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] selects application with AID [A000000291FF9101]
[13:51:19:410] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00A4040008A000000291FF910100","successfulStatusWords":["9000"],"info":"Internal Select Application"}, elapsed 3.468124313E8 ms
[13:51:19:417] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"6F228408A000000291FF9101A516BF0C13C70800000000C3F9DAEB53071B3F3B021410019000","statusWord":"9000"}, elapsed 17.8 ms
[13:51:19:431] [main] [DEBUG] CommandGetDataFci - DF name: A000000291FF9101
[13:51:19:431] [main] [DEBUG] CommandGetDataFci - Application serial number: 00000000C3F9DAEBh
[13:51:19:431] [main] [DEBUG] CommandGetDataFci - Discretionary data: 1B3F3B02141001
[13:51:19:444] [main] [INFO] Main_PkiModeSession_Pcsc - = SmartCard =
{"selectApplicationResponse":{"apdu":"6F228408A000000291FF9101A516BF0C13C70800000000C3F9DAEB53071B3F3B021410019000","statusWord":"9000"},"isExtendedModeSupported":true,"isRatificationOnDeselectSupported":true,"isSvFeatureAvailable":true,"isPinFeatureAvailable":true,"isPkiModeSupported":true,"isDfInvalidated":false,"calypsoCardClass":"ISO","calypsoSerialNumber":"00000000C3F9DAEB","startupInfo":"1B3F3B02141001","productType":"PRIME_REVISION_3","dfName":"A000000291FF9101","modificationsCounterMax":"2000","isModificationCounterInBytes":true,"files":[],"filesBackup":[],"svLastTNum":"00","svLastTNumBackup":"00","isHce":false,"svKvc":"00","applicationSubType":"02","applicationType":"3B","sessionModification":"1B","payloadCapacity":"FA","isCounterValuePostponed":false,"isLegacyCase1":false}
[13:51:19:493] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00CADF4C00","successfulStatusWords":["9000"],"info":"Get Data - CARD_CERTIFICATE"}, elapsed 75.3 ms
[13:51:19:502] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] <-- apduResponse: APDU_RESPONSE =
{"apdu":"DF4C82013C91010BA000000291A0010002400100000000000000000AEC8E0EA0000000008A0000000291FF9101000000000000000000C3F9DAEB00000059ACC241B05E3BF5D491379075E4A04A7C1FCDA0832FCD21ABFE87C241D01BDD72DBF7108A2EEFED6EBAFB246A2442BB2F5062D91BA113AEF674BCCA80FC477A9D7B3F4087E4F650D700B74308112D102A64851B57CB1E55E348EDA01E12B691F9655539F3FEAB94D7AB2BD839BE9547DE6236E8B211A96C439AEC49D1B5B15A22EDE5C1384A7F8FF84CCC2C45C74B7D5CBE371F28D4F608D43E0904F3D90A13747F61BFF35AC359B8EA7F0941850D580352DD69FA174993A4739000","statusWord":"9000"}, elapsed 10.5 ms
[13:51:19:503] [main] [DEBUG] LocalReaderAdapter - Reader [ELYCTIS CL reader 324483150000 0] --> apduRequest: APDU_REQUEST =
{"apdu":"00CADF4D00","successfulStatusWords":["9000"],"info":"Get Data - CARD_CERTIFICATE"}, elapsed 0.3 ms
```

