

PosPay Client

Changes



Changes from 4.1.1 – 4.23.4

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1 Document scope

The purpose of this document is to inform which changes have been made over the various releases. It does not include all terminal fixes except the ones which have a notable effect on the customer experience.

2 Instructions for updating the document

- Dates for installing the new versions must be logged in the table in chapter 3
- All fixes must be logged under the version's change description column in chapter 4

3 Release dates

Client version	Release date
4.1.1	22.06.2012
4.2.3	28.08.2012
4.2.4	29.08.2012
4.2.5	03.10.2012
4.2.6	12.10.2012
4.2.7	31.10.2012
4.2.8	29.11.2012

4.3.3	15.01.2013
4.4.2	01.03.2013
4.4.3	03.03.2013
4.5.0	04.03.2013
4.5.1	-
4.5.2	15.03.2013
4.5.3	22.03.2013
4.6.0	29.04.2013
4.6.1	14.05.2013
4.6.2	28.05.2013
4.7.0	10.06.2013
4.8.0	25.06.2013
4.9.0	16.10.2013
4.9.1	06.11.2013
4.9.2	20.11.2013
4.9.3	16.01.2014
4.10.0	12.02.2014
4.10.1	13.03.2014
4.10.2	31.03.2014
4.11.0	03.06.2014
4.11.1	14.07.2014
4.11.2	27.08.2014
4.12.0	09.09.2014
4.12.1	17.09.2014
4.12.2	01.12.2014
4.12.3	13.02.2015
4.13.0	13.02.2015
4.13.1	10.03.2015
4.14.0	11.06.2015
4.14.1	03.08.2015
4.15.0	23.10.2015

4.15.1	10.12.2015
4.15.2	
4.15.3	05.02.2016
4.15.4	22.04.2016
4.16.0	29.01.2016
4.16.1	08.03.2016
4.16.2	06.05.2016
4.17.0	24.05.2016
4.17.1	29.08.2016
4.17.2	22.09.2016
4.17.3	27.09.2016
4.18.0	17.01.2017
4.18.1	15.03.2017
4.18.2	08.06.2017
4.19.1	06.09.2017
4.19.2	10.01.2018
4.20.0	07.06.2018
4.20.1	10.09.2018
4.21.0	02.02.2019
4.22.1	02.05.2019
4.22.2	08.11.2019
4.22.4	13.12.2019
4.22.5	24.01.2020
4.22.6	05.03.2020
4.23.0	11.05.2021
4.23.1	28.05.2021
4.23.2	06.12.2021
4.23.3	20.06.2022
4.23.4	11.09.2023

4 Compatibility with terminal versions

Client version	Terminal version
4.2.x	1.10
4.3.x	1.11
4.4.x	2.01 + 2.02
4.5.x	2.02 + 2.03b
4.6.x	2.03b
4.7.0	2.04c
4.8.0	2.05b + 2.06b
4.9.1	2.06 + 2.07
4.9.3	2.06 + 2.07
4.10.x	2.06 + 2.07 + 2.08
4.11.x	2.06 + 2.07 + 2.08 + 2.09
4.12.x	2.10
4.13.x	2.11
4.14.0	2.12 + 2.12a
4.14.1	2.06c – 2.12c
4.15.x	2.06c – 2.13
4.16.x	2.06c – 2.14
4.17.x	2.07h – 2.15
4.18.x	2.07h – 2.17
4.19.x	2.07h – 2.18
4.20.x	2.07h – 2.24
4.21.x	2.07h – 2.27
4.22.x	2.07h – 2.27
4.23.x	2.07h – 2.35

5 Version changes

5.1 PosPay Client 4.1.1

Functionality description
Purchase
Purchase with cashback
Purchase with voice referral
Return
Reversal
Gratuity (“tips”)
Terminal update
Get card info
Purchase reference number
Reversal with amount
Reversal with card check
Balance
Deposit
Withdrawal
Linux and installer
Pin before amount
Ping PosPay server
Balance manual card entry
Deposit manual card entry
Shift report
Activate
Verify

5.2 *PosPay Client 4.2.3*

Description of changes	Issues
Updated POMs	CLI-596
Improved logging in production	CLI-637
Installer improvement	CLI-634
Code improvements	CLI-593, CLI-639, CLI-650, CLI-649, CLI-590, CLI-588, CLI-644, CLI-626, CLI-640, CLI-659, CLI-646
Upgraded to Java 7	CLI-654

5.3 *PosPay Client 4.2.4*

Description of changes	Issues
PPP Balance and deposit w/manual PAN did not finish	CLI-670
Handle unknown command event from terminal, we also need an event to notify the ECR	CLI-659
Fix and handle correct response on Cancel and OpenPed	CLI-668

5.4 *PosPay Client 4.2.5*

Description of changes	Issues
Silent installer	CLI-674
Installer and upgrade	CLI-651
Split Linux and Windows installer to prevent bundling two JRE versions	CLI-652
Change spring configuration to annotated spring	CLI-595
Clean up logging	CLI-591
Swedish receipts does not contain Financial institution in ‘character string’	CLI-680
Send OrderId as bytes without null termination : PurchaseWithCashBackRequest	CLI-666

Swedish receipts fail to print issuer name and screened pan	CLI-677
OpenPed does not use correct merchant and terminal id	CLI-671
Added new project: Relay	

5.5 PosPay Client 4.2.6

Description of changes	Issues
Bug fixes in the installer	

5.6 PosPay Client 4.2.7

Description of changes	Issues
Installer needs to register COM and OCX components with windows	CLI-711
Added new config parameter for model file download	CLI-694
Deliver another return code on no terminal connect	CLI-696
If offline transaction and Offline PIN CVM lookup receipt type as if Online authorized	CLI-720
Create a PreAuthorization systemtest: Added createPreAuthRequest() to RequestBuilder.	CLI-691
Deliver another return code on no terminal connect	CLI-696
Add orderId (varkurvId) to all transactions (balance, withdrawal, deposit, refund), not only purchase (not complete)	CLI-699
Create telium PreAuthorization service	CLI-690
Create a PreAuthorization request	CLI-688
Fix swedish receipt some more	CLI-698
As a receiptprint I need to be able to print information about surcharge on danish receipts	CLI-700
Add text field to PcPos: OrderId for PreAuth	CLI-734
Cleanup logging	CLI-591
Swedish receipts fails to print issue name and screened pan	CLI-677
Swedish receipt does not contain Financial institution in 'cahrachter string'	CLI-680
Changed some logging from DEBUG to INFO in relay service	

5.7 *PosPay Client 4.2.8*

Description of changes	Issues
Added more specific err.log for runClient.vbs	

5.8 *PosPay Client 4.3.3*

Description of changes	Issues
Improved logging from the installer and scripts	CLI-715
Improved the settings application	CLI-636
Dankort v2. users need to be instructed to repeat the payment when online pin is rejected	CLI-741
Dispatch events for TMSupdate and DataDump	CLI-764
Fixed pending requests	CLI-767
Added Finnish receipt profile and language	CLI-701, 731
Added VERSION file to the install	CLI-718
Added manually enter PAN to the Refund service to support credit towards cresco value codes	CLI-769
Add constructors without ordered in API request objects to preserve backwards compability	CLI-786
Fixed catch of uncaught exceptions in API	CLI-782
Improved offline handling in Relay service	CLI-768
Implementation of new API: http request, new ServiceInvoker, event stream handler, event stream dispatcher, new interface APIService, version handling, http ERRORS in JSON format, service request handler, get event service, event service version delegator.	CLI-790, 788, 785, 777, 789, 772, 776, 775, 773, 774, 780, 779
Fixed the TMS transaction status handling	CLI-721
Added function for dumping terminal data files	CLI-703, 705, 707, 706, 708, 710, 709, 761
Fixed receipts: language, additional text, OTRS entry mode for Danish receipts, added Saldo to balance receipts	CLI-730, 765, 742, 766

Improved the client log	CLI-692
Fixed invalid merchant-/terminal id from ECR	CLI-671
Fixed opened during purchase	CLI-740

5.9 PosPay Client 4.4.2

Description of changes	Issues
Fixed incorrect tip amount on receipt	CLI-907
Fixed OTRS verification method	CLI-918
Corrected the receiptFormattingHelper	CLI-913
Created merchant template for pin based withdrawal receipt	CLI-900
Fixed the installer	CLI-937

5.10 PosPay Client 4.4.3

Description of changes	Issues
Fixed VAT on receipts	CLI-939
Fixed bug in relay service	

5.11 PosPay Client 4.5.0

Description of changes	Issues
Implement a new reversal service v1.0	CLI-882, CLI-883
Updated windows java version	CLI-889
Fixed receipt for rejected signature transaction	CLI-899

Added possibility to enable product restriction on Volvo cards	CLI-901, CLI-902, CLI-904, CLI-905, CLI-906, CLI-914, CLI-915, CLI-919
Removed the old nightly datadump request	CLI-903
Fixed Pre Authorization int the new API	CLI-908
Added Ref to rejected receipts	CLI-909
Fixed installer to handle install paths with spaces	CLI-910
Corrected the receipt format helper	CLI-913
PosPay test application now show all tabs and receipt as default	CLI-916
Removed installer scripts – install.out & \$logger	CLI-917
Fixed OTRS verification method	CLI-918
Fixed manual card data int the new API	CLI-930
Fixed Relay service – TMS download	CLI-931
Fixed input response dialog in the new API	CLI-932
Reinserted merchant and terminal id in logs	CLI-933
Fixed prod installer. Will no longer fail with custom made config.properties	CLI-937
Fixed multi merchant in the new API	CLI-938
StorePoint fix: VAT on receipt	CLI-939
Improved language at finnish receipts	
Fixed windows no JRE installer	

5.12 PosPay Client 4.5.1

Description of changes	Issues
Pos reference check is fixed	CLI-943
Operator id/Cashier reference is now correctly sent to server	CLI-941
Corrected entry mode for manual entered PAN	CLI-942
Removed verify signature on return service	CLI-940

5.13 PosPay Client 4.5.2

Description of changes	Issues
Fixed the report service	CLI-947
Fixed the config loading in API	CLI-827
Fixed silent Linux installer	CLI-949

5.14 PosPay Client 4.5.3

Description of changes	Issues
Fixed BIN-range test to accept longer PAN	CLI-953
Added missing implementations for masked pan and partial pan	CLI-950
Added Exceptions in Relay	-
Fixed null pointer exception in report service	CLI-957

5.15 PosPay Client 4.6.0

Description of changes	Issues
Implemented support for NFC	CLI-861
Implemented support for OTT	CLI-873
Fixed response code for offline authenticated transactions	CLI-934

Removed relay service from LAN installations	CLI-935
Added missing operator id/cashier reference in P48	CLI-941
Corrected entry mode for manual entered pan	CLI-942
Connected logstreamer to PosPay	CLI-945
Report service will now fire 1901 event correctly	CLI-947
Config properties will also be loaded from a given config folder if it exists	CLI-984
Created installer for standalone Logstreamer	
Fixed the silent installer	CLI-949
Spring wil now handle listing of cronJobs and connectionManagers in Logstreamer	CLI-951
Changed Swedish receipts for response code 89, will now show PIN avisad	CLI-952
Added NFC to relay project	CLI-954
Removed unused events	CLI-955
We will no longer get nullpointer exception when not providing pan in a balance request	CLI-956
We will no longer get nullpointer exception when when trying to run report service	CLI-957
Report service will now work correctly with multi merchant	CLI-959
Implemented get card info in new api	CLI-962, 963
Implemented open ped in new api	CLI-966, 970
We will no longer get nullpointer exception when calling close ped	CLI-967
Implemented activated in new api	CLI-973
Implemented verify in new api	CLI-976
Implemented balance in new api	CLI-979
Implemented withdrawal in new api	CLI-982
Implemented deposit in new api	CLI-985
Implemented ping in new api	CLI-988
Implemented merchant information in new api	CLI-991
Changed default relay tms addresses	CLI-1000
Minor refactoring of ConfirmTransactionState	CLI-1003
Refactored the api service names	CLI-1004
Removed the use of requestWhenReady	CLI-1009
Added missing translation on Swedish receipts	CLI-1011
Illegal characters passed in authorization code dialog, will no longer result in a time out	CLI-1014

Added support for terminal ping message	CLI-1019
We no longer need to keep terminal connection open for first transaction	CLI-1036
Fixed linux installer	CLI-1050

5.16 PosPay Client 4.6.1

Description of changes	Issues
Fixed vat- and tip amount in AddAdditionalDataHandler	CLI-1066

5.17 PosPay Client 4.6.2

Description of changes	Issues
Revert CLI-1036 We no longer need to keep terminal communication open for first transaction	

5.18 PosPay Client 4.7.0

Description of changes	Issues
Added check for pinBeforeAmount in open/closePED in CorePosPayClientImpl	1001
Checked the new API for consistency	1006
Removed the login from PosPayClientImpl.initialize since it's already done on CorePosPayClientImpl	1007
Fixed signature receipts (NO, DK and FI)	1008
Disconnect from the terminal after any transaction	1015

Implemented Adjust Pre Authroization	1016
Implemented Close Pre Authorization	1021
Converted to the new API	1023
Implemented Protel Bridge	1024
Implemented Delete Pre Authorization	1034
Implemented Late Debit	1038
Implemented Late Credit	1041
Uninstall will no longer fail if installation directory contains spaces	1047
Fixed the total amount when using surcharge	1051
Unmasked PAN is now correctly printed on merchant receipts for BAX transactions	1052
Added event message for 4002 – Input request response	1065
Corrected Amount type in AddAdditionalDataHandler	1066
Added event message for 4000 – Receipt response	1069
Added DSAFE customer id	1070
Renamed OTT to MSISDN in WyWallet implementation	1071
RetrievalReferenceNumber is no longer missing when uniqueP37 is enabled	1072
Fixed disconnect from terminal issues	1076
Agreement id is no longer used as merchant id. PosPay merchant id is used instead	1077
Fixed json object in Transaction result	1078
Changed the service names for Late Credit/Debit	1094
Nullpointer in ReceiptUtils is fixed	1096

5.19 PosPay Client 4.8.0

Description of changes	Issues
Changed text for response code 89 'Wrong pin (<u>fallback</u> to signature)'	736, 1164
Implemented new terminal command 'PIN bypass'	1082
Client now provide pin bypass input dialog to the ECR, if configured	1083
Client now cancel any input dialog when not applicable anymore	1084, 1107, 1112, 1166
Changed how pan is printed on receipt. Customer receipt part now displays pan in 0+4 format, and the merchant part displays pan in 6+4 format	1087
Client now validate voice auth code and will retry if the code does not validate	1088

Added customer id line for Swedish receipts	1089
Client now displays babs agreement/merchant number in voice auth dialog	1090
Implemented support for customer id input dialog for signature authorized transactions	1091
Fixed misleading texts for Rejected/aborted events	1092
Changed Swedish cashback receipt to say 'KONTANT' and not 'Uttag'	1093
Fixed bug where setting UsingNewApi=false ended up sending dialog content using wrong format	1098
Client now handles Chip'n'go approved transactions	1101
Installation with SSL selected now sets the NFC ssl parameter	1104
A multimerchant ECR can now select current merchantid by calling getClient(childId)	1105
Client now includes seconds in transactionTime in TransactionResult	1108
Added comCheck scripts to installer	1111
Fixed a bug where the first transaction after a SDI ping did not always result in a complete-event	1115
Added communication check at startup of client	1163

5.20 PosPay Client 4.8.1

Description of changes	Issues
Speed optimizing	CLI-1177, CLI-1178
Receipt is now printed when signature transaction fails	CLI-1179
Multimerchant patching	CLI-1180, CLI-1181

5.21 PosPay Client 4.8.2

Description of changes	Issues
Multimerchant patching	CLI-1180

5.22 PosPay Client 4.8.3

Description of changes	Issues
Preauth receipt now contains required information	CLI-1188

5.23 PosPay Client 4.8.4

Description of changes	Issues
Passing whitespaces as part of responseType will no longer cause invocation of the old API	CLI-1204

5.24 PosPay Client 4.9.0

Description of changes	Issues
Removed ReversalInvoker	CLI-656
Updated spring to 3.1	CLI-1028
Implemented Get Pre Authorization	CLI-1044, CLI-1045
We no longer send balance amount at every transaction in the new API	CLI-1048
Unmasked PAN is now printed at merchant receipts for BAX signature (offline)	CLI-1052
SendRequest will now call JSON/HTTP methods	CLI-1073, CLI-1124
Validation failure in AdditionalDataAddedState will no longer result in a cancel loop	CLI-1079
Added dependency to RRAS service for PosPayService	CLI-1113
Created new PostInstaller	CLI-1114
The installer now updates the *jvmoptions.properties files correctly when upgrading	CLI-1117
Improved receipt type selection	CLI-1138
Abort receipt type now differ on service types	CLI-1139
Cleaned up the parameters in configuration files	CLI-1141
The correct event is now returned when using ping and event polling	CLI-1149
Moved all maven repository references from old to new repo	CLI-1169
The installer can no longer be run if PosPay Client is already running	CLI-1170
Added STAN to receipt	CLI-1173
Added TSI to receipt	CLI-1175
Removed PSN from receipt	CLI-1176
Multi Merchant clients now send the correct merchant id in the initial terminal request	CLI-1180
PreAuthorization receipt now differ on PIN verification and Signature verification	CLI-1184
PreAuthorization receipt now print all the required fields	CLI-1188
Installer will no longer add duplicates to PATH	CLI-1187
Added support for printing customer id on Norwegian receipts	CLI-1193
Changed the structure of receipt type selection	CLI-1195

Refactored the receipt templates	CLI-1196
Pending request of type LOG will no longer prevent the next service to reconnect	CLI-1197
Cancel() + getResponse() combination from ECR will no longer result in Deadlock	CLI-1199
Passing white spaces as part of responseType will no longer cause invocation of the old API	CLI-1204
Fixed the Linux installer	CLI-1207
Fixed Reversal and Delete PreAuth in Protel Bridge	CLI-1209
Protel Bridge's java process will now successfully be killed when command window closes	CLI-1210
Get response will no longer return response code 101 if no event	CLI-1212
Added support for pin before amount through JNI	CLI-1215
Added host responder code to all Swedish receipts	CLI-1217
Updated Finnish event texts	CLI-1219
Protel Bridge will now properly receive masked pan	CLI-1222

5.25 PosPay Client 4.9.1

Description of changes	Issues
Improved logstreamer	CLI-1054, CLI-1055, CLI-1056, CLI-1058, CLI-1230
Implemented vatOnReceipt	CLI-1121, CLI-1122
We now log client component versions	CLI-1145
Fixed the installer	CLI-1216, CLI-1226, CLI-1228,
Improved Finnish event texts	CLI-1219
Fixed LateCredit service	CLI-1227, CLI-1252
Fixed receiptType selection	CLI-1244

5.26 PosPay Client 4.9.2

Description of changes	Issues
PAN has been removed from Voice Authorization event text	CLI-1267

5.27 PosPay Client 4.9.3

Description of changes	Issues
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Balance with manual pan entry will no longer result in NullPointer	CLI-1297
Balance is now printed on receipt	CLI-1241
Fixed Shift Report invoked in old api	CLI-1301
Receipt from manual deposit will now print the correct value at Ref:	CLI-1261

5.28 PosPay Client 4.10.0

Description of changes	Issues
Removed timeout on server socket accept	CLI-1054
Dropped the list of connections in PayExConnectionManager	CLI-1056
Refactored Class names	CLI-1058
Implemented vatOnReceipt in HTTP/JSON transactionResult	CLI-1121, CLI-1122
We now log client component versions during startup	CLI-1145
The duplicate control is now parameterized	CLI-1150
Implemented VoidActivation service	CLI-1185
We no longer block merchant in PosPay client, the terminal handles the blocking now	CLI-1198
Fixed reversal and deletePreAuth in Protel Bridge	CLI-1209
Protel Bridge java process will now stop correctly when command window exits	CLI-1210
Fixed SSL parameters in installer	CLI-1216
We should no longer get Null values in primitive fields in the database when doing an upgrade	CLI-1218
Removed unused dependencies	CLI-1224
We check if PosPayService depends on RRAS service during an upgrade	CLI-1226
Removed unused jars from class path	CLI-1229
Exceptions is now handled better in logstreamer	CLI-1230
Added PAN on Pre Authorization receipts	CLI-1232
Fixed reversal handling in Protel Bridge	CLI-1239
Upgrade will now work properly	CLI-1340
Balance is now printed at gift card receipts	CLI-1241
Added event filter for filtering dispatched events	CLI-1242
Fixed lateCreditDelegator	CLI-1252
Changed the default regex in PayExVoiceAuthHandler	CLI-1254

We can now handle unknown TLVTags	CLI-1257
Implemented new TLVTags from terminal	CLI-1258, CLI-1324
Ref is removed from manual deposit receipts	CLI-1261
Implemented default values in DataStore.hbm.xml	CLI-1260
Implemented VoidActivation service	CLI-1185
Events sent from the terminal can now be TLV encoded	CLI-1278
OK – NOK messages to the terminal is now without length padding	CLI-1282
We now get terminal properties during start up	CLI-1286
Balance with manual PAN entry will no longer result in NullPointer	CLI-1297
Fixed Shift report	CLI-1301, CLI-1302
Added logging for incoming request string in API	CLI-1303
Removed currency check from financial validation	CLI-1312
Implemented support for the latest ECR protocol changes	CLI-1315
Updated customer receipts	CLI-1317
Removed legacy code from runClient.vbs	CLI-1318
Added all missing TLVTags in the completeResponse	CLI-1319
Implemented rejection before authorization – card pulled	CLI-1323
Parameterized terminal data dump	CLI-1327
Removed signature from deposit receipts	CLI-1328
Implemented ATG price payment to credit cards	CLI-1329
Fixed Danish receipts	CLI-1335
Removed signature verification at reversals of signature transactions	CLI-1340
PcPos GUI translated to English	CLI-1341
Added support for transaction status 100 from terminal	CLI-1345
Fixed Linux NOJRE installer	
Open/Close PED is now available in the PPPDLLServer.dll	
Removed exclusion of Castor from manifest	

5.29 PosPay Client 4.10.1

Description of changes	Issues
Fixed hibernate exception during start up	CLI-1309
TLV tag CARD_TOKEN 9F998020 having max length, not fixed length	CLI-1355
Handle getting PAN in the complete response without previously getting carddata	CLI-1358
Add configurable delay after dispatch of complete event	CLI-1243
Fix receipt templates with CardOwnerId	CLI-1346
Finnish translations fix	CLI-1351
Fixed nullpointer when doing closeped with PcPos	CLI-1353
PingService completes before we get a response from terminal	CLI-1356
Remove check for expiry date when validating manual entered cards	CLI-1359
Fixed runComCheck.vbs	CLI-1357
Print amount on price payment receipts	CLI-1354
Verify signature is not removed from the inputDialog queue when cancelling customerId	CLI-1362
We hardcode "cardToken" when setting receiptVo.cardToken in TransactionResultParser	CLI-1373
Error when sending voice auth code to terminal	CLI-1374
Removed xml-apis.jar from classpath in runAdmin/runClient	CLI-1375

5.30 PosPay Client 4.10.2

Description of changes	Issues
We will no longer crash when using an unknown card	CLI-1358
The library folder is now properly wiped during an upgrade in Linux	CLI-1382
Cancel input is changed to use GET as the HTTP API documentation says	CLI-1386
Added signature lines to price payment receipts	CLI-1390
Fixed service description for Void Activation	CLI-1393

5.31 PosPay Client 4.10.3

Description of changes	Issues
All signature receipts will now print customer id if provided	CLI-1422
Fixed logging level	CLI-1424

5.32 PosPay Client 4.10.4

Description of changes	Issues
Increased pending request timeout	CLI-1445

5.33 PosPay Client 4.11.0

Description of changes	Issues
Implemented support for BAX version number	CLI-1171
Implemented support for LOAR	CLI-1172
Implemented support for CVR	CLI-1174
Added configurable delay after dispatch of complete event	CLI-1243
Improved log handling	CLI-1247, CLI-1378, CLI-1424
Fixed hibernate exception during start up	CLI-1309
Added short cut options for TeamViewer to the installer	CLI-1321, CLI-1376
Fixed CardOwnerId at receipts	CLI-1346
Improved Finnish receipts	CLI-1351
Fixed Ping Service	CLI-1356
Fixed ComCheck	CLI-1357
We no longer end up in hang situation if the card is unknown	CLI-1358

Fixed expiry date validation for manual entered cards	CLI-1359
Fixed verify signature input dialog	CLI-1362
Fixed card token in TransactionResult	CLI-1373
The existing lib folder is now properly wiped during upgrade	CLI-1382
Cleaned up the class paths	CLI-1383
Fixed bug in http api-doc (CancelInput, Event Handling)	CLI-1386
Fixed price payment receipts	CLI-1354, CLI-1390, CLI-1423, CLI-1425, CLI-1459
Fixed service description for Void Activation	CLI-1393
Fixed CardOwnerId at receipts	CLI-1422
Included Deposit Service as a customer verification service for SE	CLI-1444
Increased pending request timeout to allow for larger upgrades	CLI-1445
Fixed TransactionId for balance	CLI-1450
We will no longer end up in NotInitialized state if we get a NullPointerException during start up	CLI-1451
Improved Swedish receipts	CLI-1452
Added PluginExecutionFilter for maven-enforcer-plugin	CLI-1457

5.34 PosPay Client 4.11.1

Description of changes	Issues
We no longer send 4003 event when there is no force signature dialog to cancel	CLI-1470
We try to connect to the terminal a second time in the case of an SocketTimeoutException	CLI-1475
Pin bypass dialog is only created once per transaction	CLI-1477
Fixed typo on Finnish receipts	CLI-1479
DataDumpCleaner will now work on linux as well	CLI-1481
Fixed receipt templates so we do not crash when creating cancel receipts	CLI-1486

5.35 PosPay Client 4.11.2

Description of changes	Issues
Implement support for event code translation	CLI-1534

5.36 PosPay Client 4.12.0

Description of changes	Issues
Implemented card extensions for fuel card handling	CLI-1427

5.37 PosPay Client 4.12.1

Description of changes	Issues
Fixed SSL connection	CLI-1581

5.38 PosPay Client 4.12.2

Description of changes	Issues
Fixed input response	CLI-1663
Added support for whitelisting of src addresses for PPP	CLI-1651
Swedish receipts will no longer contain KONTANT when payment card is used	CLI-1647
Minimized OTRS receipts	CLI-1387
Abort receipts will now print card data if payment card is used	CLI-1344
Fixed mileage input dialog for YX cards	CLI-1670

5.39 PosPay Client 4.12.3

Description of changes	Issues
Fixed SSL installer	CLI-1728
It's now possible to use config.properties file when upgrading	CLI-1381
Fixed Loyalty cash	CLI-1653, CLI-1680, CLI-1773

5.40 PosPay Client 4.13.0

Description of changes	Issues
Improved receipts	CLI-1300, CLI-1344, CLI-1387, CLI-1647, CLI-1665
Will no longer fail if there is a space in config parameters	CLI-1489
Space is now permitted in Content-Type	CLI-1673
Improved handling of terminal logs	CLI-1714
Added support for PayEx TMS	CLI-1735

5.41 PosPay Client 4.13.1

Description of changes	Issues
Updated PosPay Client certificate	CLI-1792

5.42 PosPay Client 4.14.0

Description of changes	Issues
Added possibility to choose TMS for terminal upgrade	CLI-1646
Remove Fred settings from test config	CLI-1759
Removed LogStreamer	CLI-1778
Added event text for 4004 – Data request response	CLI-1786

Added support for Recurring payments	CLI-1800, CLI-1801, CLI-1812, CLI-1832, CLI-1833
Improved the receipt handling	CLI-1815, CLI-1831, CLI-1835, CLI-1837, CLI-1850, CLI-1892
PayEx Remote Support shortcut is now linked to TeamViewer 10	CLI-1839
An upgrade of a LAN installation will now work as intended	CLI-1865
Added support for contactless	CLI-1793, CLI-1863, CLI-1867, CLI-1870, CLI-1895, CLI-1909
Added new events	CLI-1893
Added support for improved mapping of Blackhawk response codes	CLI-1894
PosPay Client will no longer end up in a deadlock if TLV encoding is wrong configured	CLI-1911
CardProductName is no longer missing in TransactionResult	CLI-1913

5.43 PosPay Client 4.14.1

Description of changes	Issues
Improved the receipt handling	CLI,1834, CLI-1958
Added support for additional terminal events	CLI-1910
Improved the handling of concactless cancellations	CLI-1957

5.44 PosPay Client 4.15.0

Description of changes	Issues
Database.script is now created if it is missing	CLI-1447
Improved receipt handling	CLI-1834, CLI-1908, CLI-1958, CLI-1995
Improved installer	CLI-1926
Refund with cash back will now be rejected properly	CLI-1955
Cancel requests rejected by terminal will no longer case deadlock	CLI-1957

Pin bypass is now supported in fuel solutions	CLI-1969
Improved cancel handling	CLI-1971, CLI-2016, CLI-2048, CLI-2064. CLI-2069, CLI-2070
Added support for unknown terminal events	CLI-2011
Added support for unknown terminal transaction statuses	CLI-2013
Upgraded to Java8	CLI-2018
Default TMS is changed from PayEx to Ingenico	CLI-2047
Manual reversal of LyaltyCash and Balance is now rejected properly	CLI-2050, CLI-2060
Logical terminalId is now a part of the initial transaction	CLI-2059

5.45 PosPay Client 4.15.1

Description of changes	Issues
Added support for fuel specific entries at Swedish receipts	

5.46 PosPay Client 4.15.2

Description of changes	Issues
Fixed format for expire date	

5.47 PosPay Client 4.15.3

Description of changes	Issues
Added new certificates	

5.48 PosPay Client 4.15.4

Description of changes	Issues
Fixed SSL keystore update when certificate has expired	

5.49 PosPay Client 4.16.0

Description of changes
Implemented MobilePay functionality.
Improved exception handling.
Improved checks for catching invalid inputs.
Improved logged messages for PPP.key errors.
Fixed issue regarding cashback with 0 amount.
Fixed text on Swedish receipts for reject and cancel.
Fixed text on receipts for blocked terminals.
The installer has been renamed from myntinstaller to PosPayInstaller.

5.50 PosPay Client 4.16.1

Description of changes
Added functionality for response code for MobilePay
Changed log level for MobilePay transactions
Changed port for MobilePay transactions
Fixed issue that saved transactions to database twice
Fixed silent installer
Fixed cancel handling

5.51 PosPay Client 4.16.2

Description of changes
Added MobilePay dialog in card-extensions flow
Fixed deadlock from cancelled fuel dialogs
Fixed SSL keystore updates when certificate has expired

5.52 PosPay Client 4.17.0

Description of changes
Improved logging
Added possibility to install RRASpingMonitorService during install
Implemented support for uploading logs to PayEx TMS
Manual entered PAN will no longer be logged
Improved receipts
Implemented scheduled ping (once every hour)
Login request is no longer config based
Implemented support for masking bin ranges at merchant receipts

5.53 PosPay Client 4.17.1

Description of changes
Implemented loyalty cash in http api (Fuel)

5.54 PosPay Client 4.17.2

Description of changes
Changed receipt text for ATG's deposit
Fixed update of database

5.55 PosPay Client 4.17.3

Description of changes
Fixed typo on deposit receipt

5.56 PosPay Client 4.18.0

Description of changes
It's no longer required to edit config.properties to enable MobilePay transactions.

Changed DNS addresses in TEST Installer
Support for receiving item tax code from ECR
When using YX bonus card, the receipt text is no longer defaulted to “Trumf registret”
LoyaltyCash is now supported in http api

5.57 PosPay Client 4.18.1

Description of changes
Implemented support for AdditionalData version 8
Added more space for customer signature at Swedish receipts
Fixed PATH in Windows to access the native components correctly

5.58 PosPay Client 4.18.2

Description of changes
More space for signature at DK, NO, FI and SE receipts
Emulated response on offline report call (reportType3)
Now able to run GetCardInfo with delay – ATG fix

5.59 PosPay Client 4.19.1

Description of changes
Text description added to event 4006.
ExtensionMessages in card-extensions are now translated to correct language.
Client installation on Linux works now correctly.
Support for latest additional data at POS Server.
Support for recurring flag in initial transaction.
Support for new CardTypes required by Preem.
More space for signature at DK, NO, FI and SE receipts.
Emulated response to avoid crash when asking for offline reports.

RRASpingMonitor fixed
Removed TLVTag for BAX_APPLICATION_VERSION_NUMBER, replaced by PSN
Timed out MobilePay transactions is cancelled if an unexpected response type is received
Remove the old serviceinvoker/httpapi
Removed TLVTag VAT
PPP_JAVA_HOME is now properly set in NOJRE installers
Improved handling of Loyalty cards if ‘card read error’ event
Fixed issue related to the receipt builder and Loyalty cards when no response text is received from host

5.60 PosPay Client 4.19.2

Description of changes
Added a Time-out if no response is received when requesting properties from terminal.
Support for German language when printing receipts.
Print “bonus registered” when using loyalty cards.
Fixed card lookup in card extension's module.
Reimplement full support for English language.

5.61 PosPay Client 4.20.0

Description of changes
Support for read card quietly and online non-payment token.
“Verified by device” on receipts when using a NFC mobile-app (VISA requirement)
Add option to input item list from xml in pcpas
Support for Dankort BLE receipts
Increased buffer limit. Support for adding more product data.
Support for manual insertion/scanning of loyalty cards

5.62 PosPay Client 4.20.1

Description of changes
Support card-combo validation between manually inserted loyalty PAN and CHIP-card.
ReadCardInfo tries to handle loyalty cash after a failed loyalty cash transaction.
PosPayClient keeps in memory previous loyaltyPan

5.63 PosPay Client 4.21.0

Description of changes
Support for Recurring Payment 2.0
Support for orderId field in balance, withdrawal and deposit

5.64 PosPay Client 4.22.1

Description of changes
POS-5595 - Implement split payment flag in client for Purchase
POS-5557 - The client doesn't print mandatory receipt strings on some response codes
POS-5469 - Client stuck in CancelFromReadyState if cancel is called
POS-5717 - Support windows install of PosPayClient in C:\Program Files
POS-5692 - Improved client logging

5.65 PosPay Client 4.22.2

Description of changes
POS-6232 - Added property to enable or disable PPPpingervice running hourly
POS-5469 – Return loyalty information in the transaction result
POS-5172 – Added missing terminal events to PosPayClient
POS-6106 – Changed PIN to capital letters in Message_da_DK.properties
POS-6012 - PosPayClient should prevent sending "approved" to the ECR when the terminal incorrectly sends offline approved RC (Y3 or Y1) back to PosPayClient

5.66 PosPay Client 4.22.4

Description of changes
POS-6452 - Fixed a bug where the client couldn't download new SSL certificates.
POS-6461 - Fixed a bug where there was a delay after the customer inserted their card in to the terminal, if card extensions was enabled.

5.67 PosPay Client 4.22.5

Description of changes
POS-6571 – Fixed product restrictions after it stopped working in 4.22.2

5.68 PosPay Client 4.22.6

Description of changes
POS-6578 – Added support for Driver ID input from terminal

5.69 PosPay Client 4.23.0

Description of changes
POS-7545 – Adapt configuration properties to new external addresses in production

5.70 PosPay Client 4.23.1

Description of changes
POS-7498 – Support UTA card's track1 in PosPayClient

5.71 PosPay Client 4.23.2

Description of changes
POS-7667 – Fix bug in 4.23.1 where a NullPointerException is thrown when cancelling a transaction before the customer has used a card on the terminal
POS-7831 – Update Client Certificate for PosPay client
POS-7835 – Fix problem where cardExtension handling is taking a long time, because it is eager loading all product restrictions

5.72 PosPay Client 4.23.3

Description of changes
POS-7963 – Fix splitting of productsallowed (P-63) in pospay client for CGI host
POS-8157 – Add support for English language in PosPay Client
POS-8191 – Implement delivery receipts for YX on transactions performed with a fuel card

5.73 PosPay Client 4.23.4

Description of changes
POS-8426 – Add support for posReference up to 25 characters in PosPay Client
POS-9099 – Add new PosPaySSLClient.P12 certificate to PosPayClient