What is claimed is:

1. A transaction card processing system of a financial institution comprising:

an enrollment function of one or more processors of a backend server of the financial institution that receives customer data consisting at least in part of designations of a transaction card source account of the customer, a non-acquirer account of a recipient, a payment amount, and a scheduled payment date;

an automated bill pay function of the one or more processors of the backend server that debits the payment amount from the transaction card source account and credits the debited payment amount to one or more non-acquirer bridging accounts on a payment initiation date that is a predetermined number of days in advance of the scheduled payment date; and

the automated bill pay function of the one or more processors of the backend server that debits the credited payment amount from the one or more non-acquirer bridging accounts and transfers the payment amount to the non-acquirer recipient account by crediting to an intrabank ledger account or transferring via a non-card association channel comprising an interbank transfer system processor after the payment initiation date and on or before the scheduled payment date.

2. The transaction card processing system of claim 1, further comprising the enrollment function of the one or more processors of the backend server that receives the customer data via one of a website or a mobile application.

3. The transaction card processing system of claim 1, further comprising the enrollment function of the one or more processors of the backend server that performs a database screening check of the customer and the recipient against a predetermined list of entities with whom transactions are prohibited.

4. The transaction card processing system of claim 1, further comprising the automated bill pay function of the one or more processors of the backend server that triggers an authorization request to an authorization function of the one or more processors of the backend server on the payment initiation date.

5. The transaction card processing system of claim 4, further comprising the authorization function of the one or more processors of the backend server that performs checks consisting at least in part of an availability of credit and absence of delinquency for the transaction card source account.

6. The transaction card processing system of claim 4, further comprising the authorization function of the one or more processors of the backend server that performs checks consisting at least in part of velocity checks.

7. The transaction card processing system of claim 1, further comprising the automated bill pay function of the one or more processors of the backend server that debits the payment amount from the one or more non-acquirer bridging accounts based on a successful authorization response from an authorization function of the one or more processors of the backend server to an authorization request.

8. The transaction card processing system of claim 7, further comprising the automated bill pay function of the one or more processors of the backend server that posts the debited payment amount to the transaction card account based on the successful authorization response.

9. The transaction card processing system of claim 1, further comprising the automated bill pay function of the one or more processors of the backend server that transfers the payment amount via a non-card association channel comprising an interbank transfer system processor employing a domestic fund transfer network transfer protocol.

10. The transaction card processing system of claim 9, further comprising the automated bill pay function of the one or more processors of the backend server that transfers the payment amount via a non-card association channel comprising an interbank transfer system processor employing a General Interbank Recurring Order (GIRO) domestic fund transfer network transfer protocol.

11. The transaction card processing system of claim 9, further comprising the automated bill pay function of the one or more processors of the backend server that transfers the payment amount via a non-card association channel comprising an interbank transfer system processor employing a Financial Information eXchange (FIX) adapted for streaming (FAST) domestic fund transfer network transfer protocol.

12. A method for transaction card processing by a financial institution comprising:

receiving, by an enrollment function of one or more processors of a backend server of the financial institution, customer data consisting at least in part of designations of a transaction card source account, a non-acquirer recipient account, a payment amount, and a scheduled payment date;

debiting, by an automated bill pay function of one or more processors of the backend server, the payment amount from the transaction card source account and crediting, by the automated bill pay function of the one or more processors of the backend server, the debited payment amount to one or more non-acquirer bridging accounts on a payment initiation date that is a predetermined number of days in advance of the scheduled payment date; and

thereafter debiting, by the automated bill pay function of the one or more processors of the backend server, the payment amount from the one or more non-acquirer bridging accounts and transferring, by the automated bill pay function of the one or more processors of the backend server, the payment amount to the non-acquirer recipient account by crediting to an intrabank ledger account or transferring via a non-card association channel comprising an interbank

transfer system processor after the payment initiation date and on or before the scheduled payment date.

13. The method of claim 12, wherein receiving the customer data further comprises receiving, by the enrollment function of the one or more processors of the backend server, the customer data via one of a website or a mobile application.

14. The method of claim 12, further comprising performing, by the enrollment function of the one or more processors of the backend server, a database screening check of the customer and the recipient against a predetermined list of entities with whom transactions are prohibited.

15. The method of claim 12, further comprising triggering, by the automated bill pay function of the one or more processors of the backend server, an authorization request to an authorization function of the one or more processors of the backend server on the payment initiation date.

16. The method of claim 15, wherein debiting the payment amount from the one or more non-acquirer bridging accounts further comprises debiting, by the automated bill pay function of the one or more processors of the backend server, the payment amount from the one or more non-acquirer bridging accounts based on a successful authorization response from the authorization function of the one or more processors of the backend server to the authorization request.