

# Card Transaction Switch (Capability)

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## 1. Role Definition

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This service domain handles the processing and asynchronous switching of Card Transaction related messages, such as Authorization, Sale, Void, Refund, etc. between the Acquiring Bank and the Issuing Bank through the Card Network. It has a role within the Acquiring Bank in switching transactions acquired from the Merchant to the Card Network, within the Card Network to switch the transaction to the applicable Card Issuer, and within the Card Issuer to switch the transaction to the instance of the Card Authorization service domain for the card product involved.

## 2. Example of Use

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An authorization request or sale transaction message is received from the Point of Sale device by the Acquiring Bank, which then needs to route the message to the Card Issuing Bank through the Card Network (e.g. Visa, MC, AMEX or Diners etc.), await the response from the Card Issuer and communicate it to the Merchant through the Point of Sale device.

3. Executive Summary

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This service domain orchestrates the switching and routing of Card Authorization and Financial transactions received through the Card POS Network, Card E-Commerce Gateway, or the ATM Network from the Acquirer to the Issuer through the Card Networks.

4. Key Features

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



- Card transaction capture
- Card transaction routing

Documentation

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Properties

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Property	Value
Service Domain	
API BIAN Portal	Card Transaction Switch API ( <a href="https://app.swaggerhub.com/apis/BIAN-3/CardTransactionSwitch/12.0.0">https://app.swaggerhub.com/apis/BIAN-3/CardTransactionSwitch/12.0.0</a> )
BIAN Proposed ISO20022 Control Record Match	CardTransactionSwitchSession
Core Business Object	 Card Transaction Switch ( <a href="#">object_26.html?object=41145</a> )
Individual Analytics	cardTransactionSwitchOperatingSessionAccumulators cardTransactionSwitchOperatingSessionActivityAnalysis cardTransactionSwitchOperatingSessionPerformanceAnalysis cardTransactionSwitchOperatingSessionTrends&Events
Portfolio Analytics	cardTransactionSwitchOperatingSessionPortfolioActivityAnalysis cardTransactionSwitchOperatingSessionPortfolioMake-UpAnalysis cardTransactionSwitchOperatingSessionPortfolioPerformanceAnalysis
Scenarios	 Authorise Card Use by Acquirer ( <a href="#">views/view_55588.html</a> )  Authorise Card Use by Issuer ( <a href="#">views/view_55275.html</a> )  Authorise Card Use by Card Network ( <a href="#">views/view_54886.html</a> )

Service Role	Orchestrate the switching and routing of Card Authorization and Financial transactions received through the Card POS Network, Card E-Commerce Gateway, or the ATM Network from the Acquirer to the Issuer through the Card Networks.
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BIAN Life Cycle

Registration Status	Registered
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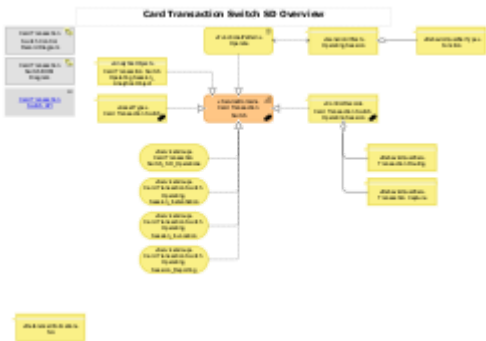
Stereotypes

stereotype	ServiceDomain
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Appears on

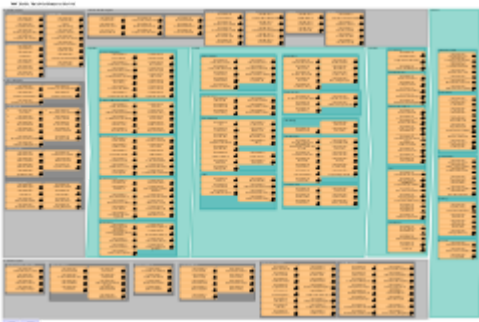
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(views/view\_51471.html)



Card Transaction Switch SD Overview

(views/view\_51705.html)



BIAN Service Landscape V12.0 Value Ch...







(views/view\_51891.html)























BIAN Service Landscape V12.0 Matrix Vi...


# Relations



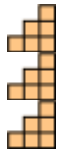
aggregated by	 Wave 2 (object_25.html?object=153742)
	 Operational Services (object_25.html?object=171737)
gets input from	 Card Transaction Switch (object_20.html?object=29401)
	 Card Authorization (object_22.html?object=44578)
is equal to	 Card Transaction Switch (object_36.html?object=29402)
is part of	 Operational Services (object_25.html?object=130011)

realized by

-  Card Transaction Switch Operating Session\_ Analytics Object (object\_25.html?object=111463)
-  Add new service operations for Card Transaction Switch SD (object\_30.html?object=161645)
-  Card Transaction Switch\_SD\_Operations (object\_20.html?object=166148)
-  Card Transaction Switch Operating Session\_Invocation (object\_17.html?object=166153)
-  Card Transaction Switch Operating Session\_Reporting (object\_17.html?object=166155)
-  Card Transaction Switch Operating Session\_Instantiation (object\_17.html?object=166162)
-  Card Transaction Switch\_SD\_Service Group (object\_20.html?object=245783)
-  Initiate a Card Transaction Switch operating session at acquirer (object\_12.html?object=29602)
-  Update details of a Card Transaction Switch operating session at network (object\_12.html?object=29892)
-  In BQ Initiate a card transaction switch capture function (object\_13.html?object=32129)
-  Retrieve details about a Card Transaction Switch operating session at acquirer (object\_13.html?object=32547)
-  Re BQ Retrieve details about a card capture transaction (object\_14.html?object=34460)
-  Retrieve details about a Card Transaction Switch operating session at issuer (object\_14.html?object=34646)
-  Retrieve details about a Card Transaction Switch operating session at network (object\_14.html?object=34965)
-  Initiate a Card Transaction Switch operating session at network (object\_14.html?object=35444)
-  Re BQ Retrieve details about a card transaction switch routing transaction (object\_14.html?object=38126)
-  Update details of a Card Transaction Switch operating session at issuer (object\_14.html?object=38175)
-  Card Transaction Switch (object\_24.html?object=38776)
-  In CR Initiate a card transaction switch operating session (object\_15.html?object=40707)
-  Ec CR Accept, verify, etc. a card transaction switch session (object\_15.html?object=40747)
-  Initiate a Card Transaction Switch operating session at issuer (object\_15.html?object=41139)
-  Up CR Update an active card transaction switch operating session (object\_16.html?object=44492)
-  Co CR Control the processing of a card transaction operating session (e.g. suspend) (object\_16.html?object=45227)
-  Update details of a Card Transaction Switch operating session at acquirer (object\_16.html?object=45851)
-  Card Transaction Switch Operating Session (object\_24.html?object=47889)
-  In BQ Initiate the routing function (object\_17.html?object=48443)
-  Re CR Retrieve details about an active card transaction switch operating session (object\_17.html?object=48789)

 Operate (object\_28.html?object=58128)

sends output  
to



Card Transaction Switch (object\_20.html?object=29401)

Card Network Participant Facility (object\_22.html?object=42759)

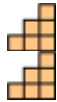
Card Authorization (object\_22.html?object=44578)

serves



Money Movement Management (object\_6.html?object=130159)

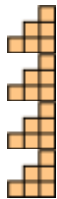
triggered by



Card Transaction Switch (object\_20.html?object=29401)

Card Authorization (object\_22.html?object=44578)

triggers



Card Transaction Switch (object\_20.html?object=29401)

Operational Gateway (object\_21.html?object=32276)

Card Network Participant Facility (object\_22.html?object=42759)

Card Authorization (object\_22.html?object=44578)