


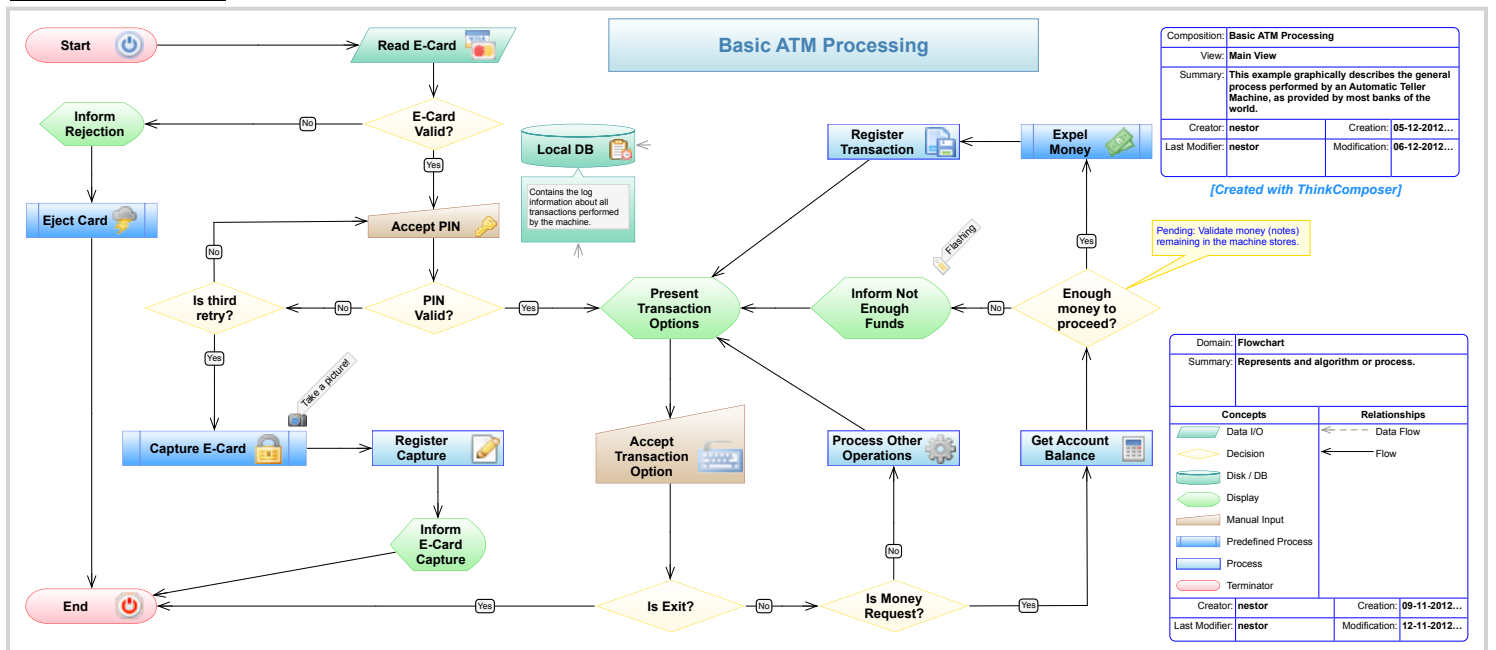
Basic ATM Processing

Flowchart

Flowchart: Basic ATM Processing

Name/Title Basic ATM Processing						Pictogram 
Tech-Name Basic_ATM_Processing						
Summary This example graphically describes the general process performed by an Automatic Teller Machine, as provided by most banks of the world.						
Domain Flowchart					Global ID c6e6c233-ec4b-4076-bf73-c0021535bd84	
Route Basic ATM Processing						
Version Number	Version Sequence	Creation	Creator	Last Modification	Last Modifier	
0.0.00	129	05-12-2012 23:47:11	nestor	06-12-2012 4:34:14	nestor	




View: Main View












Complements

Kind	Content
Text	Basic ATM Processing
Text	[Created with ThinkComposer]

List of composing Concepts

Name/Title	Summary	Pict.	Concept Definition
Accept PIN	Requests and read the user typed Personal Identification Number (his secret password).		Manual Input
Accept Transaction Option	Reads the keyboard input associated to a transaction option.		Manual Input
Capture E-Card	The insertion slot pulls in the E-Card into the Captured-Cards-Box.		Predefined Process
E-Card Valid?	Validates that the inserted E-Card has information correctly formatted. The algorithm used is the standard ECRD-V03-2007.		Decision

Name/Title	Summary	Pict.	Concept Definition
Eject Card	Pushes out the E-Card from the insertion slot.		Predefined Process
End	The ATM machine and its integrated computer is turned OFF.		Terminator
Enough money to proceed?	The user account has a quantity of money greater or equal than the requested?		Decision
Expel Money	Expels the requested amount of money.		Predefined Process
Get Account Balance	Contact the Bank's central system to know whether the user Account has enough money to proceed.		Process
Inform E-Card Capture	Displays "Your E-Card has been captured. Go to your bank to get a new one."		Display
Inform Not Enough Funds	Displays "Your account has not enough funds to proceed".		Display
Inform Rejection	Displays "The inserted E-Card is invalid".		Display
Is Exit?	The user wants to end the session?		Decision
Is Money Request?	The user wants some cash?		Decision
Is third retry?	Validates a possible third try to enter the PIN, which implies a security risk.		Decision
Local DB	Contains the log information about all transactions performed by the machine.		Disk / DB
PIN Valid?	The PIN matches the one informed by the Bank's central system?		Decision
Present Transaction Options	Displays the available transaction options. This is variable depending on the type of Card and user Account.		Display
Process Other Operations	Execute the process associated with the selected transaction option.		Process
Read E-Card	Upon its insertion in the machine slot, an E-Card magnetic band is read.		Data I/O
Register Capture	The captured E-Card is registered locally and informed to the Bank's central system.		Process
Register Transaction	Saves the information about the transaction just performed and informs the Bank's central system.		Process
Start	The ATM machine and its integrated computer is turned ON. Communication is started with the Bank's central system.		Terminator


List of composing Relationships

Name/Title	Summary	Pict.	Relationship Definition
Data Flow (Idea 24)			Data Flow
Data Flow (Idea 25)			Data Flow
Flow (Idea 26)			Flow
Flow (Idea 27)			Flow
Flow (Idea 28)			Flow
Flow (Idea 29)			Flow
Flow (Idea 30)			Flow
Flow (Idea 31)			Flow
Flow (Idea 32)			Flow
Flow (Idea 33)			Flow
Flow (Idea 34)			Flow
Flow (Idea 35)			Flow
Flow (Idea 36)			Flow
Flow (Idea 37)			Flow
Flow (Idea 38)			Flow
Flow (Idea 39)			Flow
Flow (Idea 40)			Flow
Flow (Idea 41)			Flow

Name/Title	Summary	Pict.	Relationship Definition
Flow (Idea 42)			Flow
Flow (Idea 43)			Flow
Flow (Idea 44)			Flow
Flow (Idea 45)			Flow
Flow (Idea 46)			Flow
Flow (Idea 47)			Flow
Flow (Idea 48)			Flow
Flow (Idea 49)			Flow
Flow (Idea 50)			Flow
Flow (Idea 51)			Flow
Flow (Idea 52)			Flow

Content of the composing Concepts

Manual Input: Accept PIN

Name/Title Accept PIN	
Tech-Name Accept_PIN	
Summary Requests and read the user typed Personal Identification Number (his secret password).	
Concept Definition Manual Input	Global ID 1e71bb04-f4fa-459a-9084-775c243ef5ff
Route \\Basic ATM Processing\\Accept PIN	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
E-Card Valid? [Decision]	Yes	Origin	Link	Flow (Idea 28) [Flow]		Target	Link
Is third retry? [Decision]	No	Origin	Link	Flow (Idea 31) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
PIN Valid? [Decision]		Target	Link	Flow (Idea 29) [Flow]		Origin	Link

Manual Input: Accept Transaction Option

Name/Title Accept Transaction Option	
Tech-Name Accept_Transaction_Option	
Summary Reads the keyboard input associated to a transaction option.	
Concept Definition Manual Input	Global ID 50886499-dd15-4744-a2b0-7b2086c85cfd
Route \\Basic ATM Processing\\Accept Transaction Option	


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Present Transaction Options [Display]		Origin	Link	Flow (Idea 40) [Flow]		Target	Link


Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Is Exit? [Decision]		Target	Link	Flow (Idea 41) [Flow]		Origin	Link

Predefined Process: Capture E-Card

Name/Title	Pictogram
Capture E-Card	
Tech-Name Capture_E-Card	
Summary The insertion slot pulls in the E-Card into the Captured-Cards-Box.	
Concept Definition Predefined Process	
Global ID bc0cbca0-aceb-46ec-a7c4-45cfe1862f70	
Route \\Basic ATM Processing\\Capture E-Card	

Markers

Definitor	Pict.	Name/Title	Summary
Red		Take a picture!	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Is third retry? [Decision]	Yes	Origin	Link	Flow (Idea 32) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Register Capture [Process]		Target	Link	Flow (Idea 33) [Flow]		Origin	Link

Decision: E-Card Valid?

Name/Title	Pictogram
E-Card Valid?	
Tech-Name E-Card_Valid_	
Summary Validates that the inserted E-Card has information correctly formatted. The algorithm used is the standard ECRD-V03-2007.	
Concept Definition Decision	
Global ID 40cde2aa-aa3c-4802-a6d3-7f126ec797d9	
Route \\Basic ATM Processing\\E-Card Valid?	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Read E-Card [Data I/O]		Origin	Link	Flow (Idea 27) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Accept PIN [Manual Input]		Target	Link	Flow (Idea 28) [Flow]	Yes	Origin	Link

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Inform Rejection [Display]		Target	Link	Flow (Idea 36) [Flow]	No	Origin	Link

Predefined Process: Eject Card

Name/Title	Pictogram
Eject Card	
Tech-Name Eject_Card	
Summary Pushes out the E-Card from the insertion slot.	
Concept Definition Predefined Process	
Global ID 933c9c55-81c5-497f-b797-e8c3b4086ff8	
Route \Basic ATM Processing\Eject Card	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Inform Rejection [Display]		Origin	Link	Flow (Idea 37) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
End [Terminator]		Target	Link	Flow (Idea 38) [Flow]		Origin	Link

Terminator: End

Name/Title	Pictogram
End	
Tech-Name End	
Summary The ATM machine and its integrated computer is turned OFF.	
Concept Definition Terminator	
Global ID 9a7851b4-eaeb-40fb-b314-fdc4c5992675	
Route \Basic ATM Processing\End	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Inform E-Card Capture [Display]		Origin	Link	Flow (Idea 35) [Flow]		Target	Link
Eject Card [Predefined Process]		Origin	Link	Flow (Idea 38) [Flow]		Target	Link
Is Exit? [Decision]	Yes	Origin	Link	Flow (Idea 42) [Flow]		Target	Link

Decision: Enough money to proceed?

Name/Title	Pictogram
Enough money to proceed?	
Tech-Name Enough_money_to_proceed_	
Summary The user account has a quantity of money greater or equal than the requested?	
Concept Definition Decision	
Global ID b6644dbd-9d29-497f-ae7b-b196a2d0c731	
Route \Basic ATM Processing\Enough money to proceed?	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Get Account Balance [Process]		Origin	Link	Flow (Idea 47) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Inform Not Enough Funds [Display]		Target	Link	Flow (Idea 48) [Flow]	No	Origin	Link
Expel Money [Predefined Process]		Target	Link	Flow (Idea 50) [Flow]	Yes	Origin	Link

Complements

Kind	Content
Callout	Pending: Validate money (notes) remaining in the machine stores.

Predefined Process: Expel Money

Name/Title Expel Money	
Tech-Name Expel_Money	
Summary Expels the requested amount of money.	
Concept Definition Predefined Process	
Route \\Basic ATM Processing\Expel Money	Global ID fc2a5c3b-a716-4acb-9047-fb8e5b5af66d


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Enough money to proceed? [Decision]	Yes	Origin	Link	Flow (Idea 50) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Register Transaction [Process]		Target	Link	Flow (Idea 51) [Flow]		Origin	Link

Process: Get Account Balance

Name/Title Get Account Balance	
Tech-Name Get_Account_Balance	
Summary Contact the Bank's central system to know whether the user Account has enough money to proceed.	
Concept Definition Process	
Route \\Basic ATM Processing\Get Account Balance	Global ID e790582e-a2cd-4ecf-b1e8-681a9a16cb27

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Is Money Request? [Decision]	Yes	Origin	Link	Flow (Idea 46) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Enough money to proceed? [Decision]		Target	Link	Flow (Idea 47) [Flow]		Origin	Link

Display: Inform E-Card Capture

Name/Title Inform E-Card Capture	Pictogram
Tech-Name Inform_E-Card_Capture	
Summary Displays "Your E-Card has been captured. Go to your bank to get a new one."	
Concept Definition Display	
	Global ID 13455813-430f-49b7-9ba5-9ca827024d06
Route \\Basic ATM Processing\\Inform E-Card Capture	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Register Capture [Process]		Origin	Link	Flow (Idea 34) [Flow]		Target	Link


Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
End [Terminator]		Target	Link	Flow (Idea 35) [Flow]		Origin	Link

Display: Inform Not Enough Funds

Name/Title Inform Not Enough Funds	Pictogram
Tech-Name Inform_Not_Enough_Funds	
Summary Displays "Your account has not enough funds to proceed".	
Concept Definition Display	
	Global ID 7669f0da-391a-4f3c-ae50-71595f9b4a43
Route \\Basic ATM Processing\\Inform Not Enough Funds	

Markers

Definitor	Pict.	Name/Title	Summary
Yellow		Flashing	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Enough money to proceed? [Decision]	No	Origin	Link	Flow (Idea 48) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Present Transaction Options [Display]		Target	Link	Flow (Idea 49) [Flow]		Origin	Link

Display: Inform Rejection

Name/Title		Pictogram
Inform Rejection		
Tech-Name		
Inform_Rejection		
Summary		
Displays "The inserted E-Card is invalid".		
Concept Definition	Global ID	
Display	ca727b66-68a7-49e2-a9f9-a7ab0a03a0e2	
Route		
\\Basic ATM Processing\\Inform Rejection		

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
E-Card Valid? [Decision]	No	Origin	Link	Flow (Idea 36) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Eject Card [Predefined Process]		Target	Link	Flow (Idea 37) [Flow]		Origin	Link

Decision: Is Exit?

Name/Title		Pictogram
Is Exit?		
Tech-Name		
Is_Exit_		
Summary		
The user wants to end the session?		
Concept Definition	Global ID	
Decision	da8a6516-4e62-4924-9868-4ad186c8959d	
Route		
\\Basic ATM Processing\\Is Exit?		

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Accept Transaction Option [Manual Input]		Origin	Link	Flow (Idea 41) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
End [Terminator]		Target	Link	Flow (Idea 42) [Flow]	Yes	Origin	Link
Is Money Request? [Decision]		Target	Link	Flow (Idea 43) [Flow]	No	Origin	Link

Decision: Is Money Request?

Name/Title		Pictogram
Is Money Request?		
Tech-Name		
Is_Money_Request_		
Summary		
The user wants some cash?		
Concept Definition	Global ID	
Decision	3b8343e8-4002-425c-bad7-71a1f2f09720	

Route
 \Basic ATM Processing\Is Money Request?

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Is Exit? [Decision]	No	Origin	Link	Flow (Idea 43) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Process Other Operations [Process]		Target	Link	Flow (Idea 44) [Flow]	No	Origin	Link
Get Account Balance [Process]		Target	Link	Flow (Idea 46) [Flow]	Yes	Origin	Link

Decision: Is third retry?

Name/Title Is third retry?	Pictogram
Tech-Name Is_third_retry_	
Summary Validates a possible third try to enter the PIN, which implies a security risk.	
Concept Definition Decision	
Route \Basic ATM Processing\Is third retry?	Global ID db6ff592-c421-4556-9e96-cc328e9664be

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
PIN Valid? [Decision]	No	Origin	Link	Flow (Idea 30) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Accept PIN [Manual Input]		Target	Link	Flow (Idea 31) [Flow]	No	Origin	Link
Capture E-Card [Predefined Process]		Target	Link	Flow (Idea 32) [Flow]	Yes	Origin	Link

Disk / DB: Local DB

Name/Title Local DB	Pictogram
Tech-Name Local_DB	
Summary Contains the log information about all transactions performed by the machine.	
Concept Definition Disk / DB	
Route \Basic ATM Processing\Local DB	Global ID eff3ef59-f5d9-41de-9aa5-a166617f0dfc

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Register Capture [Process]		Origin	Link	Data Flow (Idea 24) [Data Flow]		Target	Link
Register Transaction [Process]		Origin	Link	Data Flow (Idea 25) [Data Flow]		Target	Link

Decision: PIN Valid?

Name/Title	Pictogram
PIN Valid?	
Tech-Name	
PIN_Valid_	
Summary	
The PIN matches the one informed by the Bank's central system?	
Concept Definition	Global ID
Decision	a265f929-681a-4990-a3d5-a23667ccbe9c
Route	
\Basic ATM Processing\PIN Valid?	

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Accept PIN [Manual Input]		Origin	Link	Flow (Idea 29) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Is third retry? [Decision]		Target	Link	Flow (Idea 30) [Flow]	No	Origin	Link
Present Transaction Options [Display]		Target	Link	Flow (Idea 39) [Flow]	Yes	Origin	Link

Display: Present Transaction Options

Name/Title	Pictogram
Present Transaction Options	
Tech-Name	
Present_Transaction_Options	
Summary	
Displays the available transaction options. This is variable depending on the type of Card and user Account.	
Concept Definition	Global ID
Display	96c3239a-2a2f-4565-b1f3-dceae1931c33
Route	
\Basic ATM Processing\Present Transaction Options	


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
PIN Valid? [Decision]	Yes	Origin	Link	Flow (Idea 39) [Flow]		Target	Link
Process Other Operations [Process]		Origin	Link	Flow (Idea 45) [Flow]		Target	Link
Inform Not Enough Funds [Display]		Origin	Link	Flow (Idea 49) [Flow]		Target	Link
Register Transaction [Process]		Origin	Link	Flow (Idea 52) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Accept Transaction Option [Manual Input]		Target	Link	Flow (Idea 40) [Flow]		Origin	Link

Process: Process Other Operations

Name/Title	Pictogram
Process Other Operations	
Tech-Name	
Process_Other_Operations	
Summary	
Execute the process associated with the selected transaction option.	
Concept Definition	Global ID
Process	6c078567-1d71-4099-979c-96cfa5e86d64
Route	
\Basic ATM Processing\Process Other Operations	


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Is Money Request? [Decision]	No	Origin	Link	Flow (Idea 44) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Present Transaction Options [Display]		Target	Link	Flow (Idea 45) [Flow]		Origin	Link

Data I/O: Read E-Card

Name/Title	Pictogram
Read E-Card	
Tech-Name	
Read_E-Card	
Summary	
Upon its insertion in the machine slot, an E-Card magnetic band is read.	
Concept Definition	Global ID
Data I/O	0013eb94-a20b-4bc3-ab60-e82690d01335
Route	
\Basic ATM Processing\Read E-Card	


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Start [Terminator]		Origin	Link	Flow (Idea 26) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
E-Card Valid? [Decision]		Target	Link	Flow (Idea 27) [Flow]		Origin	Link

Process: Register Capture

Name/Title	Pictogram
Register Capture	
Tech-Name	
Register_Capture	
Summary	
The captured E-Card is registered locally and informed to the Bank's central system.	
Concept Definition	Global ID
Process	610ea3d0-7a12-44a5-b5aa-60832f3cdb53
Route	
\Basic ATM Processing\Register Capture	


Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Capture E-Card [Predefined Process]		Origin	Link	Flow (Idea 33) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Local DB [Disk / DB]		Target	Link	Data Flow (Idea 24) [Data Flow]		Origin	Link
Inform E-Card Capture [Display]		Target	Link	Flow (Idea 34) [Flow]		Origin	Link

Process: Register Transaction

Name/Title Register Transaction	
Tech-Name Register_Transaction	
Summary Saves the information about the transaction just performed and informs the Bank's central system.	
Concept Definition Process	
Route \\Basic ATM Processing\Register Transaction	Global ID 1c3ae266-5246-410a-8c9e-d570dc579157

Related From...

Origin Idea	Origin Link Desc.	Origin Link Role	Origin Link Var.	By Relationship	Target Link Desc.	Target Link Role	Target Link Var.
Expel Money [Predefined Process]		Origin	Link	Flow (Idea 51) [Flow]		Target	Link

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Local DB [Disk / DB]		Target	Link	Data Flow (Idea 25) [Data Flow]		Origin	Link
Present Transaction Options [Display]		Target	Link	Flow (Idea 52) [Flow]		Origin	Link

Terminator: Start

Name/Title Start	
Tech-Name Start	
Summary The ATM machine and its integrated computer is turned ON. Communication is started with the Bank's central system.	
Concept Definition Terminator	
Route \\Basic ATM Processing\Start	Global ID c1162ab0-f3e9-410c-8c61-a0d021b85754

Related To...

Target Idea	Target Link Desc.	Target Link Role	Target Link Var.	By Relationship	Origin Link Desc.	Origin Link Role	Origin Link Var.
Read E-Card [Data I/O]		Target	Link	Flow (Idea 26) [Flow]		Origin	Link

Content of the composing Relationships

Data Flow: Data Flow (Idea 24)

Name/Title		Pictogram
Data Flow (Idea 24)		
Tech-Name		
Data_Flow_(Idea_24)		
Summary		
Relationship Definition		Global ID
Data Flow		01fd5c57-9997-4f80-ac7a-8eab9df22129
Route		
\Basic ATM Processing\Data Flow (Idea 24)		

Links

Idea	Type	Role	Variant	Descriptor
Register Capture [Process]	Origin	Origin	Link	
Local DB [Disk / DB]	Target	Target	Link	

Data Flow: Data Flow (Idea 25)

Name/Title		Pictogram
Data Flow (Idea 25)		
Tech-Name		
Data_Flow_(Idea_25)		
Summary		
Relationship Definition		Global ID
Data Flow		d37c256d-f64e-4132-8e20-fea0f7944ea9
Route		
\Basic ATM Processing\Data Flow (Idea 25)		

Links

Idea	Type	Role	Variant	Descriptor
Register Transaction [Process]	Origin	Origin	Link	
Local DB [Disk / DB]	Target	Target	Link	

Flow: Flow (Idea 26)

Name/Title		Pictogram
Flow (Idea 26)		
Tech-Name		
Flow_(Idea_26)		
Summary		
Relationship Definition		Global ID
Flow		876c85f0-89a0-4e6d-ad7d-07a9b3695d61
Route		
\Basic ATM Processing\Flow (Idea 26)		

Links

Idea	Type	Role	Variant	Descriptor
Start [Terminator]	Origin	Origin	Link	
Read E-Card [Data I/O]	Target	Target	Link	

Flow: Flow (Idea 27)

Name/Title		Pictogram
Flow (Idea 27)		
Tech-Name		
Flow_(Idea_27)		
Summary		
Relationship Definition		Global ID
Flow		99c0ac72-83ae-48a4-b59d-5d1c1fbd1f44
Route		
\Basic ATM Processing\Flow (Idea 27)		

Links

Idea	Type	Role	Variant	Descriptor
Read E-Card [Data I/O]	Origin	Origin	Link	
E-Card Valid? [Decision]	Target	Target	Link	

Flow: Flow (Idea 28)

Name/Title		Pictogram
Flow (Idea 28)		
Tech-Name		
Flow_(Idea_28)		
Summary		
Relationship Definition		Global ID
Flow		6816e316-5d3f-44b2-aeb8-5d2e4ca7eaf5
Route		
\Basic ATM Processing\Flow (Idea 28)		

Links

Idea	Type	Role	Variant	Descriptor
E-Card Valid? [Decision]	Origin	Origin	Link	Yes
Accept PIN [Manual Input]	Target	Target	Link	

Flow: Flow (Idea 29)

Name/Title		Pictogram
Flow (Idea 29)		
Tech-Name		
Flow_(Idea_29)		
Summary		
Relationship Definition		Global ID
Flow		e6d9efa6-1703-4255-85a7-d38852588e7e
Route		
\Basic ATM Processing\Flow (Idea 29)		

Links

Idea	Type	Role	Variant	Descriptor
Accept PIN [Manual Input]	Origin	Origin	Link	
PIN Valid? [Decision]	Target	Target	Link	

Flow: Flow (Idea 30)

Name/Title	Flow (Idea 30)	Pictogram
Tech-Name	Flow_(Idea_30)	
Summary		
Relationship Definition	Flow	Global ID 0b21a2ac-3302-43e9-b22b-2fe2bc1cfca3
Route	\Basic ATM Processing\Flow (Idea 30)	

Links

Idea	Type	Role	Variant	Descriptor
PIN Valid? [Decision]	Origin	Origin	Link	No
Is third retry? [Decision]	Target	Target	Link	

Flow: Flow (Idea 31)

Name/Title	Flow (Idea 31)	Pictogram
Tech-Name	Flow_(Idea_31)	
Summary		
Relationship Definition	Flow	Global ID 64dca8e8-7ba7-449e-a93b-767ab2895ec4
Route	\Basic ATM Processing\Flow (Idea 31)	

Links

Idea	Type	Role	Variant	Descriptor
Is third retry? [Decision]	Origin	Origin	Link	No
Accept PIN [Manual Input]	Target	Target	Link	

Flow: Flow (Idea 32)

Name/Title	Flow (Idea 32)	Pictogram
Tech-Name	Flow_(Idea_32)	
Summary		
Relationship Definition	Flow	Global ID b333861b-35fb-42fc-be86-33c9dc332d0a
Route	\Basic ATM Processing\Flow (Idea 32)	

Links

Idea	Type	Role	Variant	Descriptor
Is third retry? [Decision]	Origin	Origin	Link	Yes
Capture E-Card [Predefined Process]	Target	Target	Link	

Flow: Flow (Idea 33)

Name/Title		Pictogram
Flow (Idea 33)		
Tech-Name		
Flow_(Idea_33)		
Summary		
Relationship Definition		Global ID
Flow		a70ac728-abc9-4e52-9b98-7bc84b7e7833
Route		
\Basic ATM Processing\Flow (Idea 33)		

Links

Idea	Type	Role	Variant	Descriptor
Capture E-Card [Predefined Process]	Origin	Origin	Link	
Register Capture [Process]	Target	Target	Link	

Flow: Flow (Idea 34)

Name/Title		Pictogram
Flow (Idea 34)		
Tech-Name		
Flow_(Idea_34)		
Summary		
Relationship Definition		Global ID
Flow		55562da0-506e-4ce4-bf9b-b2cc29867526
Route		
\Basic ATM Processing\Flow (Idea 34)		

Links

Idea	Type	Role	Variant	Descriptor
Register Capture [Process]	Origin	Origin	Link	
Inform E-Card Capture [Display]	Target	Target	Link	

Flow: Flow (Idea 35)

Name/Title		Pictogram
Flow (Idea 35)		
Tech-Name		
Flow_(Idea_35)		
Summary		
Relationship Definition		Global ID
Flow		7fcfdc2f-d606-488f-9261-f86c90bff923
Route		
\Basic ATM Processing\Flow (Idea 35)		

Links

Idea	Type	Role	Variant	Descriptor
Inform E-Card Capture [Display]	Origin	Origin	Link	
End [Terminator]	Target	Target	Link	

Flow: Flow (Idea 36)

Name/Title				Pictogram
Flow (Idea 36)				
Tech-Name				
Flow_(Idea_36)				
Summary				
Relationship Definition				Global ID
Flow				fe337289-1783-4adf-85f5-acc4b717c88
Route				
\Basic ATM Processing\Flow (Idea 36)				

Links

Idea	Type	Role	Variant	Descriptor
E-Card Valid? [Decision]	Origin	Origin	Link	No
Inform Rejection [Display]	Target	Target	Link	

Flow: Flow (Idea 37)

Name/Title				Pictogram
Flow (Idea 37)				
Tech-Name				
Flow_(Idea_37)				
Summary				
Relationship Definition				Global ID
Flow				8a89a0f5-2511-4d6d-b8a5-9a0957073671
Route				
\Basic ATM Processing\Flow (Idea 37)				

Links

Idea	Type	Role	Variant	Descriptor
Inform Rejection [Display]	Origin	Origin	Link	
Eject Card [Predefined Process]	Target	Target	Link	

Flow: Flow (Idea 38)

Name/Title				Pictogram
Flow (Idea 38)				
Tech-Name				
Flow_(Idea_38)				
Summary				
Relationship Definition				Global ID
Flow				3ab54c1c-e032-412c-815a-88e2b8900bf2
Route				
\Basic ATM Processing\Flow (Idea 38)				

Links

Idea	Type	Role	Variant	Descriptor
Eject Card [Predefined Process]	Origin	Origin	Link	
End [Terminator]	Target	Target	Link	

Flow: Flow (Idea 39)

Name/Title		Pictogram
Flow (Idea 39)		
Tech-Name		
Flow_(Idea_39)		
Summary		
Relationship Definition		Global ID
Flow		abd51c5b-ddf8-47ae-94a9-5f06333d8e67
Route		
\Basic ATM Processing\Flow (Idea 39)		

Links

Idea	Type	Role	Variant	Descriptor
PIN Valid? [Decision]	Origin	Origin	Link	Yes
Present Transaction Options [Display]	Target	Target	Link	

Flow: Flow (Idea 40)

Name/Title		Pictogram
Flow (Idea 40)		
Tech-Name		
Flow_(Idea_40)		
Summary		
Relationship Definition		Global ID
Flow		eb91f9ae-ce00-4a90-b180-533ea4189736
Route		
\Basic ATM Processing\Flow (Idea 40)		

Links

Idea	Type	Role	Variant	Descriptor
Present Transaction Options [Display]	Origin	Origin	Link	
Accept Transaction Option [Manual Input]	Target	Target	Link	

Flow: Flow (Idea 41)

Name/Title		Pictogram
Flow (Idea 41)		
Tech-Name		
Flow_(Idea_41)		
Summary		
Relationship Definition		Global ID
Flow		b833f611-7497-4fc8-8cd9-63ea06a29eb8
Route		
\Basic ATM Processing\Flow (Idea 41)		

Links

Idea	Type	Role	Variant	Descriptor
Accept Transaction Option [Manual Input]	Origin	Origin	Link	
Is Exit? [Decision]	Target	Target	Link	

Flow: Flow (Idea 42)

Name/Title		Pictogram
Flow (Idea 42)		
Tech-Name		
Flow_(Idea_42)		
Summary		
Relationship Definition		Global ID
Flow		b3acd393-be37-438b-aa9e-e105158bafd7
Route		
\Basic ATM Processing\Flow (Idea 42)		

Links

Idea	Type	Role	Variant	Descriptor
Is Exit? [Decision]	Origin	Origin	Link	Yes
End [Terminator]	Target	Target	Link	

Flow: Flow (Idea 43)

Name/Title		Pictogram
Flow (Idea 43)		
Tech-Name		
Flow_(Idea_43)		
Summary		
Relationship Definition		Global ID
Flow		79ab46da-68a7-4d81-8153-250e66b02142
Route		
\Basic ATM Processing\Flow (Idea 43)		

Links

Idea	Type	Role	Variant	Descriptor
Is Exit? [Decision]	Origin	Origin	Link	No
Is Money Request? [Decision]	Target	Target	Link	

Flow: Flow (Idea 44)

Name/Title		Pictogram
Flow (Idea 44)		
Tech-Name		
Flow_(Idea_44)		
Summary		
Relationship Definition		Global ID
Flow		ddd4f509-0af4-46e2-afb5-6a3a54903e5c
Route		
\Basic ATM Processing\Flow (Idea 44)		

Links

Idea	Type	Role	Variant	Descriptor
Is Money Request? [Decision]	Origin	Origin	Link	No
Process Other Operations [Process]	Target	Target	Link	

Flow: Flow (Idea 45)

Name/Title				Pictogram
Flow (Idea 45)				
Tech-Name				
Flow_(Idea_45)				
Summary				
Relationship Definition			Global ID	
Flow			e8bc7556-5792-42e0-a052-3bb8418a5d52	
Route				
\Basic ATM Processing\Flow (Idea 45)				

Links

Idea	Type	Role	Variant	Descriptor
Process Other Operations [Process]	Origin	Origin	Link	
Present Transaction Options [Display]	Target	Target	Link	

Flow: Flow (Idea 46)

Name/Title				Pictogram
Flow (Idea 46)				
Tech-Name				
Flow_(Idea_46)				
Summary				
Relationship Definition			Global ID	
Flow			df351571-bad8-4aac-a5cf-c21da990fd6c	
Route				
\Basic ATM Processing\Flow (Idea 46)				

Links

Idea	Type	Role	Variant	Descriptor
Is Money Request? [Decision]	Origin	Origin	Link	Yes
Get Account Balance [Process]	Target	Target	Link	

Flow: Flow (Idea 47)

Name/Title				Pictogram
Flow (Idea 47)				
Tech-Name				
Flow_(Idea_47)				
Summary				
Relationship Definition			Global ID	
Flow			66ef4a24-2cff-47ab-8dfe-58e11a3e4db5	
Route				
\Basic ATM Processing\Flow (Idea 47)				

Links

Idea	Type	Role	Variant	Descriptor
Get Account Balance [Process]	Origin	Origin	Link	
Enough money to proceed? [Decision]	Target	Target	Link	

Flow: Flow (Idea 48)

Name/Title		Pictogram
Flow (Idea 48)		
Tech-Name		
Flow_(Idea_48)		
Summary		
Relationship Definition		Global ID
Flow		a5a0ba14-af6d-4f7d-a3a3-e66a07f29bea
Route		
\Basic ATM Processing\Flow (Idea 48)		

Links

Idea	Type	Role	Variant	Descriptor
Enough money to proceed? [Decision]	Origin	Origin	Link	No
Inform Not Enough Funds [Display]	Target	Target	Link	

Flow: Flow (Idea 49)

Name/Title		Pictogram
Flow (Idea 49)		
Tech-Name		
Flow_(Idea_49)		
Summary		
Relationship Definition		Global ID
Flow		a6bfdeae-02ec-42a2-aa2a-a19e88548dd0
Route		
\Basic ATM Processing\Flow (Idea 49)		

Links

Idea	Type	Role	Variant	Descriptor
Inform Not Enough Funds [Display]	Origin	Origin	Link	
Present Transaction Options [Display]	Target	Target	Link	

Flow: Flow (Idea 50)

Name/Title		Pictogram
Flow (Idea 50)		
Tech-Name		
Flow_(Idea_50)		
Summary		
Relationship Definition		Global ID
Flow		9d3f84d0-2fba-4e39-a76e-9cd78b28c9c1
Route		
\Basic ATM Processing\Flow (Idea 50)		

Links

Idea	Type	Role	Variant	Descriptor
Enough money to proceed? [Decision]	Origin	Origin	Link	Yes
Expel Money [Predefined Process]	Target	Target	Link	

Flow: Flow (Idea 51)

Name/Title		Pictogram
Flow (Idea 51)		
Tech-Name		
Flow_(Idea_51)		
Summary		
Relationship Definition		Global ID
Flow		9262d6e9-de3b-4bc8-9851-ee44c6c62ff1
Route		
\Basic ATM Processing\Flow (Idea 51)		

Links

Idea	Type	Role	Variant	Descriptor
Expel Money [Predefined Process]	Origin	Origin	Link	
Register Transaction [Process]	Target	Target	Link	

Flow: Flow (Idea 52)

Name/Title		Pictogram
Flow (Idea 52)		
Tech-Name		
Flow_(Idea_52)		
Summary		
Relationship Definition		Global ID
Flow		1c566dcf-e23d-4a9b-adb9-103ad7f557de
Route		
\Basic ATM Processing\Flow (Idea 52)		

Links

Idea	Type	Role	Variant	Descriptor
Register Transaction [Process]	Origin	Origin	Link	
Present Transaction Options [Display]	Target	Target	Link	

Domain: Flowchart**Concept Definitions**

Name/Title	Summary	Pict.
Process		
Predefined Process		
Alternate Process		
Delay		
Preparation		
Manual Operation		
Terminator		
Decision		
Connector		
Off-Page Connector		
Merge		
Extract		
OR		
AND		
Data I/O		
Document		
Multi-Document		
Display		
Manual Input		
Card		
Punched Tape		
Stored Data		
Disk / DB		
Direct Access Storage		
Internal Storage		
Sequential Access Storage		
Collate		
Sort		

Relationship Definitions

Name/Title	Summary	Pict.
Flow		
Data Flow		