

Purchase Stamp		
Actors	Sender, Vendor	
Description	Through ECS (Email Client Software), Initiates purchase stamp to acquire stamp(s) for sending mail from vendor.	
Assumption	Sender has credit card. Sender has receiver's email address. There exists a channel between sender and vendor for the business.	
Steps	User Actions	System Actions
	(1) Intimate purchase stamp function.	
		(2) Client software begins purchase stamp dialog.
	(3) User inputs (Receiver email address, vendor to purchase stamps from, quantity and so on)	
		(4) ECS communicates with vendor software
		(5) Send stamps
	(6) Receive stamps	

Sender Sends email		
Actors	Sender, Vendor, Receiver	
Description	Through ECS, sends email to receiver if stamp for email is not available then ECS automatically purchase stamps from vendor.	
Assumption	Sender has properly configured and ECS is able to automatically purchase stamps.	
Steps	User Actions	System Actions
	(1) User creates email	
	(2) Sends email	
		(3) Check for sending with a stamp or not
		(4) If with stamps, check for available stamps, if no stamps available, then purchase stamp automatically.
		(5) Sends email and display response message.
	(6) Receives email and send responds	

Receiver Receives Email		
Actors	Receiver, Authenticator, Sender	
Description	Through Email Client Server, Receiver receives email. Email Client Server Determines if email is from	
Assumption	Email is no corrupted. Sender and receiver use the same E-Stamp technology. The public key of authenticator is not comprised.	
Steps	User Actions	System Actions
		(1) Receive email with stamp (2) Gets public key in case the public key is comprised or hasn't been obtained by the ECS.
		(3) Verify the validation of the stamp.
		(4) If the stamp is valid, ECS displays the message of the email, otherwise, rejects it and send response message to the user.
	(5) User views the email	

Receiver Reply to Email		
Actors	Receiver, vendor	
Description	Through ECS, In case of Receiver wants to reply the email, Receiver check if the stamp of the received email is for multiple use, and decide if a new stamp is necessary.	
Assumption	Email is no corrupted. The reply email address is given.	
Steps	User Actions	System Actions
	(1) Create email	
	(2) Send email	
		(3) Check if the stamp is for multiple uses.
		(4) If it is for multiple use, log in it as a multiple use stamp, otherwise, communicate the vendor for a stamp (purchase a stamp automatically)
		(5) Sends email and display response message
	(6) Receive stamps	

Sender Receive Reply		
Actors	Sender	
Description	Through ECS, sender receives the replay from the receiver with a supposed multiple-use stamp.	
Assumption	The email is not comprised. The receive will reply. The sender is able to recognize a stamp for multiple-use purpose somehow.	
Steps	User Actions	System Actions
		(1) Receive email with stamp (2) Check if the email a multiple-use stamp
		(3) If the stamp is for multiple-use, ECS then displays the reply message, otherwise, reject the email and send a response message to the user.
	(4) User views the reply email	

Sender/Receiver Configures ECS		
Actors	Receiver, Sender	
Description	The user configures ECS before it can be actually used. The configuration of the ECM is concerned with all the functions dealing with stamps that must be done transparently and automatically instead of manually	
Assumption	ECS is configurable and amenable to change of configuration.	
Steps	User Actions	System Actions
	(1) User opens the configuration dialog.	
	(2) User enters the configuration information	
	(3) User submits the final configuration.	
		(4) Check the validation of this type of configuration.
		(5) If everything is fine, the ECS save the configuration, otherwise, display the error configuration messages to the user.
	(6) The user checks if the configuration is successful. It is not, do the configuration again and go back to step (2).	