Banknote Handling Industry Survey By the Central Bank Cash Machine Group (CBCMG)

As you may be aware, in the past, the Bureau of Engraving and Printing has been an auxiliary participant in CBCMG activities. In July 2009, the Federal Reserve formally joined the CBCMG, and the BEP will continue to participate. As members, we share the goal of the CBCMG to ensure that future bank notes can be reliably authenticated using automated cash handling equipment. To that end, we are interested in facilitating communications with the manufacturers of bank note handling equipment in general and with your company in particular.

The purposes of this Survey are to: (1) determine discussion topics of mutual interest (**Planning Section**); (2) identify emerging technical challenges involved in authenticating and processing bank notes (**Technical Issues Section**); and (3) evaluate your interest in discussing ways to improve new note introduction and circulation processes (**Business Issues Section**).

Yo	our Name / Title:		
Co	ompany name:		
Se	ction 1: Planning		
	Under a non-disclosure agreement, would your company be interested in p bi-lateral meetings with US members of the CBCMG? Please note that the gathered at such meetings would not pass outside the participating central ba	inform	ation
	Comments:		
2.	During bilateral meetings, would you be interested in discussing the following (a) Update on features to authenticate banknotes (b) Update on current authentication technologies (c) Issues related to fitness standards (d) Techniques for fitness sorting (e) Issues related to substrates (e.g., currency paper) (f) Issues related to quality control (g) Development of different types of banknote processing machines (h) Challenges for machine authentication/fitness sorting (i) Potential new technologies for machine processing (j) Potential new machine readable features (k) Upcoming new note introductions (l) Other:	ig topic Y	ss? N
	Comments:		

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3.	On which issues could we communicate to you that wou $\mathbf{Y} = \mathbf{N}$	ld benefit you most? Y N
	(a) Note specifications	nns 🗌
	(e) Other:	
	Comments:	
1.	If your company would like to communicate with us, is t your:	technical information coming from
	Local office ? Head Office ?	? 🗌
	Other location?	
	How often?	
	Please provide two contacts:	
		Tel: Fax:
		Email:
	Name:	Tel:
	Title:	Fax:
	Address:	Email:

Section 2: Technical Issues

In this section, we aim at identifying emerging issues confronting your industry and at identifying areas of collaboration for the next generation of bank notes. **Please note that your answers will serve as a basis for the bilateral meetings**.

We would like to better understand the nature of your business to facilitate discussions and understand technical requirements.

1.	We have segmented the market into the following groups. Please indicate whether this is an appropriate segmentation, and if not, please suggest proper terminology on the line below.					
	(a) Single Note Scanner	(validation only)	Y	N		
	(b) Automatic Note Acceptors	(acceptance and validation)				
	(c) Automatic Note Dispensers (ATM's)	(counting and dispensing only)				
	(d) Note Recyclers	(acceptance, validation, counting and dispensing)				
	(e) Counters and Sorters (Back Office)	(counting, sorting and validation)				
	(f) High Speed Processors	(high accuracy multi-detector counting, sorting, validation and packaging)				
(Comments on market segments:					
2.	In general terms are you experiencing any caused by: (a) Loss of efficacy of a feature due to comments:		tion/pr Y	ocessing N		
	(b) Loss of efficacy of a feature due to we	ear in circulation)?	Y	N □		

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	(c) Public knowledge of security features (IR, magnetics) Comments:	<u>Y</u>	N
	(d) An inadequate number of machine readable features? Comments:	Y	N □
	(e) Inadequate design / location of the features?	Y	N □
	(f) Note production variability? Comments:	Y	N □
	(g) Other factors? Comments:	Y	N
3.	When accommodating an upgraded banknote or a new currency design, what greatest technical challenges?	have b	oeen you
4.	In what way can banknotes evolve to alleviate these challenges?		
5.	In recent years, have you changed detection specifications or technologies: (a) to look at any feature in a more sophisticated way? If yes, in what way?	Y	N □

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	(b) to look at another feature in banknotes? If yes, which feature?	Y	N
6.	Is your company developing or considering next generation technologies for lauthentication:	oankno	ote
	(a) for commercial reasons?	Y	N □
	(b) as a result of counterfeiting? If yes, what type of machine-readable features could be useful in the next gen currency notes?	Y — eration	N n of
	Any other comments?		

Section 3: Business Issues

In this section, we look to evaluate your interest in discussing ways to improve new note introduction processes. **Technology topics/issues will be addressed in bilateral meetings.**

1.	Would your company be interested in participating in an industry-wide gather exchange experiences gained during the introduction of new currency notes?	ring to Y	N
	If yes, would your company be willing to discuss its experience by preparing on the process involved? Comments:	a prese Y	entation N
2.	Are there other issues you feel could be usefully discussed at an industry-wide If yes, which ones:	e gathe Y	ering? N
3.	Are the in-house / on-site preview sessions of new note-design helpful?	Y	N
CE int	Are current test-deck designs with variations helpful to you to develop your algorithms already established a regular biannual conference with your industry eractions already established with BEP and CTO, are there other ways that we bics with your company?	. Outs	ide the
	Comments:		
	Any other comments?		

Thank you for taking the time to answer these questions.