



WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

ADMINISTRATIVE INSTRUCTIONS UNDER THE
PATENT COOPERATION TREATY (PCT)
STANDARD FOR THE ELECTRONIC FILING AND PROCESSING
OF INTERNATIONAL APPLICATIONS

INSTRUCTIONS ADMINISTRATIVES DU
TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)
NORME CONCERNANT LE DÉPÔT ET LE TRAITEMENT ÉLECTRONIQUES
DES DEMANDES INTERNATIONALES

PROPOSAL FOR CHANGE FILE
DOSSIER RELATIF À LA PROPOSITION DE MODIFICATION

SUBJECT: Changes to Annex F, Appendix I, section 3.6 (Changes to hash algorithm standard within Annex F)		PROPOSED BY: EP,JP, US	
SUJET : Modifications de la section 3.6 de l'appendice I de l'annexe F (Changes to hash algorithm standard within Annex F)		PROPOSÉE PAR :	
HANDLING: Expedited cycle		PROPOSED DATE OF ENTRY INTO FORCE:	
TRAITEMENT : Cycle accéléré		DATE PROPOSÉE D'ENTRÉE EN VIGUEUR : 1.7.2010	
ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
1	Changes to HASH algorithm standard within Annex F	EP,JP,US	15.10.2009
2	Changes to the event level protocol tables	EP,JP,US	15.10.2009
3	Comment	IB	2.11.2009
4	Comment	EP	17.11.2009
5	Comment	SK	16.12.2009
6	Comment	UZ	18.12.2009
7	Comment	RU	22.12.2009
8	Comment	US	14.01.2010
9	Comment	IB	5.02.2010

[Annex follows/
L'annexe suit]

NEXT ACTION: Entry in to force		BY:	
PROCHAINE ACTION : Entrée en vigueur		POUR LE : 1.7.2010	

CHANGES TO HASH ALGORITHM STANDARD WITHIN ANNEX F

1. Introduction

Weakness of SHA-1, one of the hash algorithms for electronic signature, has been discussed for years. In February 2005, National Institute of Standards and Technology, the U.S. Department of Commerce, (NIST) encouraged a rapid adoption of the SHA-2 hash functions for digital signatures, and, in any event, Federal agencies must stop relying on digital signatures that are generated using SHA-1 by the end of 2010¹. In 2008, the Japanese Cabinet Secretariat information security center (NISC) announced that transition from SHA-1 to SHA-2 should be conducted no later than 2013 fiscal year².

Because current Annex F allows only SHA-1 for has algorithm, the JPO proposes PFC for accepting stronger algorithms considering the above background.

2. Concept of this PFC

- In consideration of the influence on the existing system, the format of Event level protocol which is using SHA-1 should be left as it is, and a format for new code algorithms is to be added.
- In consideration of future extendibility, the proposal should cover all SHA-2 family (including SHA-224, SHA-256, SHA-384 and SHA-512) which are considered as promising hash algorithms at present.

3. Change Outline

The concrete changed part is as follows.

(1) Addition of algorithms other than SHA-1

In addition to SHA-1, SHA-2 (general term of SHA-224, SHA-256, SHA-384 and SHA-512) is added for PCT e-filing purpose.

(2) Addition of the format in Event level protocol

Format in Event level protocol is newly added so that new hash algorithms other than SHA-1 can be used. For new algorithms, protocol_version is to be defined as "0200", and the items of algorithm_name, division_hash2_length, and division_hash2 (for details, see attached sheet 2 reference) are newly added.

¹ <http://csrc.nist.gov/groups/ST/toolkit/documents/shs/NISTHashComments-final.pdf>

² http://www.nisc.go.jp/active/general/pdf/crypto_pl.pdf

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

4. Proposed Changes to Annex F of the PCT Administrative Instructions

Submitted by	JPO	Date: 2008-10-15
Requested modification	Addition of SHA -2 group algorithm	
PFC TO-08/01	<Additional part> page 40:5.1.4 Transaction management header elements Add: <Additional contents> The following items are newly added. (1) - Attrib.Name:algorithm name - Values:ASCII with right-hand space padding - Length:10 bytes (10 x 8bit chars) - Description: the name of algorithm used - Example: SHA-256 (2) - Attrib.Name:division_hash2_length - Values:Numeric ASCII with left-hand zero padding - Length:4 bytes (4 x 8bit chars) - Description: length of division_hash2. (3) - Attrib.Name:division_hash2 - Values:ASCII upper case Hexadecimal representation - Length : variable length (length specified by division_hash2_length) - Description: hash value computed with the algorithm specified by algorithm name	
Items impacted		
Reason	Overcoming weakness of current hash algorithm (adoption of stronger algorithms)	

NEXT ACTION:	Entry into force	BY:	1.07.2010
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Submitted by	JPO	Date: 2008-10-15
Suggested handling of this proposal		expedited consideration
PFC TO-08/02	<Correction part> page 44:5.1.8.1 Calculating the division hash value Change: The hash, which is calculated using the SHA-1 algorithm, is placed as the first element of each division. <u>To:</u> The hash, which is calculated using the SHA-1 algorithm, is placed as the first element of each division. However, if the algorithm used is other than SHA-1, all space is set to division_hash and the hash value computed with the algorithm specified by algorithm_name is set to division_hash2.	
Items impacted		
Reason	Overcoming weakness of current hash algorithm (adoption of stronger algorithms)	

NEXT ACTION:	Entry into force	BY:	1.07.2010
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Submitted by	JPO	Date: 2008-10-15
Requested modification	Addition of new format accompanying addition of SHA -2 group algorithm	
PFC TO-08/03	<Additional part> page 44 - page 49:5.1.9 Event level protocol Add: New formats of "Protocol version:0200" are added as described in the attached sheet 2 (Annex II) for the following parts under 5.1.9 : 5.1.9.1 Begin transaction 5.1.9.2 Send package header 5.1.9.3 Send package data 5.1.9.4 Get receipt 5.1.9.5 End transaction 5.1.9.6 Get package header for notification 5.1.9.7 Get package data for notification 5.1.9.8 Send receipt check notice for notification 5.1.9.9 Get package header for dispatch list 5.1.9.10 Get package data for dispatch list 5.1.9.11 Send receipt check notice for dispatch list 5.1.9.12 Get Package header for application receipt list 5.1.9.13 Get package data for application receipt list 5.1.9.14 Send receipt check notice for application receipt list	
Items impacted		
Reason	Overcoming the weakness of the current hash algorithm (adoption of stronger algorithms)	

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Submitted by	JPO	Date: 2008-10-15
Requested modification	Addition of SHA -2 group algorithm	
PFC TO-08/04	<Correction part> page 75:4.6 Message digest algorithms Change: 4.6 Message digest algorithms The message stream must be input to the strong one-way message digest algorithm SHA-1 to create a message digest. Other encryption algorithms (e.g. MD5) will be included in this section after consultation and agreed upon by Offices. <u>To:</u> 4.6 Message digest algorithms The message stream must be input to the strong one-way message digest algorithm SHA-1 or SHA- 2 group to create a message digest. Other encryption algorithms will be included in this section after consultation and agreed upon by Offices.	
Items impacted		
Reason	Overcoming the weakness of the current hash algorithm (adoption of stronger algorithms)	

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Submitted by	JPO	Date:	2008-10-15
Requested modification	Addition of SHA -2 group algorithm		
PFC TO-08/05	<Correction part> page 76: APPENDIX IIPKI ARCHITECTURE FOR THE E-PCT STANDARD 5.1 Wrapped and signed package (WASP) Change: Rules for producing the PKCS #7 SignedData for certification To: Rules for producing the PKCS #7 SignedData for certification (Although SHA-2 group is also used besides SHA-1, SHA-1 is shown as an example below.)		
Items impacted			
Reason	Overcoming the weakness of the current hash algorithm (adoption of stronger algorithms)		

[Annex II follows /
L'annexe II suit]

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX II /ANNEXE II

Change from:**5.1.9.1 *Begin transaction*****Post Message**

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pbeg	Blank	???	0	0	0	0	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	16
Value	X	0100	pbeg	New id	???	16	16	0	0	0	???	???	???

Data Message: max_division_size (16 bytes)

5.1.9.2 *Send package header***Post Message**

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	phdr	tranid	???	X	Y	Z	0	0	???	blank	pkghdr

Data Message: WASP containing package header

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	phdr	tranid	???	0	0	0	a	b	???	blank	None

5.1.9.3 *Send package data***Post Message**

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pdat	tranid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: WASP containing package data

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pdat	tranid	???	0	0	0	a	b	???	blank	None

NEXT ACTION: Entry in to force
PROCHAINE ACTION : Entrée en vigueur

BY:
POUR LE : 1.7.2010

5.1.9.4 *Get receipt*

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prct	trnid	???	0	0	0	???	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	prct	trnid	???	x	y	z	???	0	???	blank	Receipt

Data Message: WASP containing receipt

5.1.9.5 *End transaction*

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pend	trnid	???	0	0	0	0	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pend	trnid	???	0	0	0	a	b	???	???	None

5.1.9.6 *Get package header for notification*

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pphn	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pphn	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.7 Get package data for notification

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppdn	trnid	???	0	0	0	a	b	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppdn	trnid	???	x	y	Z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

5.1.9.8 Send receipt check notice for notification

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcn	trnid	???	0	0	0	0	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcn	trnid	???	0	0	0	a	b	???	blank	None

5.1.9.9 Get package header for dispatch list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pphd	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pphd	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.10 Get package data for dispatch list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppdd	trnid	???	0	0	0	a	b	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppdd	trnid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

5.1.9.11 Send receipt check notice for dispatch list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcd	trnid	???	0	0	0	0	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcd	trnid	???	0	0	0	a	b	???	blank	None

5.1.9.12 Get Package header for application receipt list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppha	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppha	trnid	???	X	Y	Z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.13 Get package data for application receipt list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppda	tranid	???	0	0	0	a	b	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppda	tranid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

5.1.9.14 Send receipt check notice for application receipt list

Post Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prca	tranid	???	0	0	0	0	0	???	blank	None

Response Message

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prca	tranid	???	0	0	0	a	b	???	blank	None

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

To:

5.1.9.1 *Begin transaction*

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pbeg	Blank	???	0	0	0	0	0	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	16
Value	X	0100	pbeg	new id	???	16	16	0	0	0	???	???	???

Data Message: max_division_size (16 bytes)

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pbeg	Blank	???	0	0	0	0	0	???	blank	None	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pbeg	new id	???	16	16	0	0	0	???	???	???	???	???	x

Data Message: max_division_size (16 bytes)

5.1.9.2 *Send package header*

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	phdr	tranid	???	x	y	z	0	0	???	blank	pkghdr

Data Message: WASP containing package header

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	phdr	tranid	???	0	0	0	a	b	???	blank	None

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	phdr	trnid	???	x	y	z	0	0	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	phdr	trnid	???	16	16	0	a	b	???	blank	none	???	???	x

5.1.9.3 Send package data

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pdat	trnid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: WASP containing package data

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pdat	trnid	???	0	0	0	a	b	???	blank	None

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pdat	trnid	???	x	y	z	0	0	???	blank	pkgdata	???	???	x

Data Message: WASP containing package data

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pdat	trnid	???	0	0	0	a	b	???	blank	none	???	???	x

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.4 Get receipt

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prct	tranid	???	0	0	0	???	0	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	prct	tranid	???	x	y	z	???	0	???	blank	receipt

Data Message: WASP containing receipt

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prct	tranid	???	0	0	0	???	0	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prct	tranid	???	x	y	z	???	0	???	blank	receipt	???	???	x

Data Message: WASP containing receipt

5.1.9.5 End transaction

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pend	tranid	???	0	0	0	0	0	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pend	tranid	???	0	0	0	a	b	???	???	None

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pend	tranid	???	0	0	0	0	0	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pend	tranid	???	0	0	0	a	b	???	???	none	???	???	x

5.1.9.6 Get package header for notification

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pphn	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pphn	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pphn	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pphn	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.7 Get package data for notification

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppdn	tranid	???	0	0	0	a	b	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppdn	tranid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppdn	tranid	???	0	0	0	a	b	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppdn	tranid	???	x	y	z	0	0	???	blank	pkgdata	???	???	x

Data Message: C-WASP containing WASP

5.1.9.8 Send receipt check notice for notification

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcn	tranid	???	0	0	0	0	0	???	blank	none

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcn	tranid	???	0	0	0	a	b	???	blank	none

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prcn	tranid	???	0	0	0	0	0	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prcn	tranid	???	0	0	0	a	b	???	blank	none	???	???	x

5.1.9.9 Get package header for dispatch list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	pphd	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	pphd	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pphd	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	pphd	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.10 Get package data for dispatch list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppdd	trandid	???	0	0	0	a	b	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppdd	trandid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppdd	trandid	???	0	0	0	a	b	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppdd	trandid	???	x	y	z	0	0	???	blank	pkgdata	???	???	x

Data Message: C-WASP containing WASP

5.1.9.11 Send receipt check notice for dispatch list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcd	trandid	???	0	0	0	0	0	???	blank	none

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prcd	trandid	???	0	0	0	a	b	???	blank	none

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prcd	tranid	???	0	0	0	0	0	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prcd	tranid	???	0	0	0	a	b	???	blank	none	???	???	x

5.1.9.12 Get Package header for application receipt list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppha	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppha	tranid	???	x	y	z	a	b	???	blank	pkghdr

Data Message: WASP containing package header

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppha	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppha	tranid	???	x	y	z	a	b	???	blank	pkghdr	???	???	x

Data Message: WASP containing package header

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

5.1.9.13 Get package data for application receipt list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	ppda	tranid	???	0	0	0	a	b	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	???
Value	X	0100	ppda	tranid	???	x	y	z	0	0	???	blank	pkgdata

Data Message: C-WASP containing WASP

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppda	tranid	???	0	0	0	a	b	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	ppda	tranid	???	x	y	z	0	0	???	blank	pkgdata	???	???	x

Data Message: C-WASP containing WASP

5.1.9.14 Send receipt check notice for application receipt list

Post Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prca	tranid	???	0	0	0	0	0	???	blank	None

Response Message, protocol 1.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message
Length	40	4	4	36	32	16	16	16	4	4	4	256	0
Value	X	0100	prca	tranid	???	0	0	0	a	b	???	blank	None

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

Post Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prca	tranid	???	0	0	0	0	0	???	blank	none	???	???	x

Response Message, protocol 2.0

Name	Division hash	Protocol version	Transaction type	Transaction id	Reserved use	Total bytes	Division size	Division offset	Division RC	Application RC	Encoding method	Error message	Data message	Algorithm name	Division hash 2 length	Division hash 2
Length	40	4	4	36	32	16	16	16	4	4	4	256	0	10	4	???
Value	blank	0200	prca	tranid	???	0	0	0	a	b	???	blank	none	???	???	x

[Annex III follows /
L'annexe III suit]

NEXT ACTION:	Entry into force	BY:	1.07.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX III /ANNEXE III

Comment by the International Bureau

For administrative reasons the International Bureau has proposed an entry into force date of July 1, 2010; the International Bureau welcomes indications as to whether this is a realistic date for implementation.

[Annex V follows /
L'annexe V suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX IV /ANNEXE IV

Comment by the European Patent Office

From the text it is not clear what should be the content of the division_hash field in case SHA-2 is used.

[Annex V follows /
L'annexe V suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX V /ANNEXE V

Comment by the Industrial Property Office of the Slovak Republic

The Industrial Property Office of the Slovak Republic in its capacity as a receiving Office under the Patent Cooperation Treaty has no comments concerning the proposals for change to the Standard for the Electronic Filing and Processing of International Applications under PCT which are mentioned in the Circular C.PCT 1194.

[Annex VI follows /
L'annexe VI suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX VI /ANNEXE VI

Comment by the Republic of Uzbekistan State Patent Office

The State patent Office of the Republic of Uzbekistan has no comments or proposals regarding this circular.

[Annex VII follows /
L'annexe VII suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX VII /ANNEXE VII

Comment by the Federal Service for Intellectual Property, Patents and Trademarks (ROSPATENT)

Referring to the Circular letter C.PCT 1194 of November 5, 2009 we would like to communicate that the specialists of the Federal Service fir Intellectual Property, Patents and Trademarks (ROSPATENT) have carefully considered the proposed modifications to Annex F of the Administrative Instructions under the PCT and have no objections to them.

[Annex VIII follows /
L'annexe VIII suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX VIII /ANNEXE VIII

Comment by the United States Patent and Trademark Office

It appears that the proposed modifications to Annex F Section 5.1.9.1 through 5.1.9.14 to include post message protocol 2.0, etc. would necessitate modifications to Annex F Section 5.1.8.1, which refers to the SHA-1 algorithm and hash calculation.

[Annex IX follows /
L'annexe IX suit]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	

ANNEX IX /ANNEXE IX

Comment by the International Bureau

Following review of the comments received, the International Bureau will modify Annex F of the administrative instructions as described in the proposal above, noting that the explanation that the division_hash will be 'white space' or blank when SHA-1 is not used will be added, ready for entry into force on July 1, 2010.

[End of Annex and of file/
Fin de l'annexe et du dossier]

NEXT ACTION:	Entry in to force	BY:	1.7.2010
PROCHAINE ACTION :	Entrée en vigueur	POUR LE :	