1, Daniel J. Bernstein	, of (S, 851 S. Margan (MC152), Chicago, IL 60607-7053, do
hereby declare that the cryptosystem,	reference implementation, or optimized implementations that I have , is my own original work, or if submitted jointly
submitted, known as	, is my own original work, or if submitted jointly
with others, is the original work of t	he joint submitters. I further declare that (check one):

- - □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as ______ may be covered by the following U.S. and/or foreign patents: ______
 - □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: D.J. Sensition Title: Research Professor Date: 14 March 2018

Place: Eindhoven

I, *Christoph Dobraunig*, *IAIK* - *Graz* - *University Of Technology*, *Inffeldgasse 16a*, A-8010 Graz, declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS⁺</u>; OR (check one or both of the following):
 - to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS⁺</u>, may be covered by the following U.S. and/or foreign patents: _____
 - I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

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consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Under Man Title:

Date: 29. November 2017 Place: Graz, Austria

I, Christoph Dobraunig, of IAIK - Graz - University Of Technology, Inffeldgasse 16a, A-8010 Graz, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- - to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS⁺</u>, may be covered by the following U.S. and/or foreign patents: _____
 - □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

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Signed: Umhaph Delum Title:

Date: 29. November 2017 Place: Graz, Austria

I, Maria Eichlseder, of Graz University of Technology, Inffeldgasse 16a/I, 8010 Graz, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

(X) I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺;

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed: Maria Eichlseder Title: Date: 29 November 2017 Place: Graz

I, Scott Roy Fluhrer, of 31 Massand Road, North Attleboro, MA, USA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>; OR (check one or both of the following):

- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, may be covered by the following U.S. and/or foreign patents: _____
- □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

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Signed: Mult Title: Mr SeoH Fluhre-Date: MassacuseHs, VSA Place: 11/28/17

2

I, Stefan-Lukas Dominik Gazdag, of genua GmbH (Domagkstr. 7, 85551 Kirchheim b. München, Germany), do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺; OR (check one or both of the following):
 - to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, may be covered by the following U.S. and/or foreign patents:
 - I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed:	Stefan - tukas	Garday
Title:	M.Sc.	0
Date:	26th Nor.	2017
Place:	kirchheim b.	München, Germany

I, Andreas Thomas Hülsing, of Eindhoven University of Technology, De Rondom 70, 5612 AP Eindhoven, The Netherlands, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; **OR** (check one or both of the following):

to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, may be covered by the following U.S. and/or foreign patents: _____

I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed: A. HA Title: Dr. Andrews Thomas Hulsing, Postdoc Date: November 23, 2017 Place: Eindhoven, The Nethelands

I, **Panos Kampanakis** of **RTP2H/3**, **7025-2 Kit Creek Rd**, **RTPNC 27709**, **USA**, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

✓ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; **OR** (check one or both of the following):

to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, may be covered by the following U.S. and/or foreign patents: _____

I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed: GA AR Title: Panos Kampanakis Date: 11/28/2017

Place: RTP, *NC*, *USA*

I, Stefan Kölbl, Richard Petersen Plads, Building 324, room 210, 2800 Kgs. Lyngby, Denmark, declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

 I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS⁺</u>; OR (check one or both of the following):

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Signed: An Mm

Date: 23. November 2017 Place: Kgs. Lyngby, Denmark

I, <u>TANTA LANGE</u>, of <u>Particul SKI</u>, <u>TUre</u>, <u>5600H7Emothore</u>, <u>N</u>, to hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that (check one):

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 - □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as ______ may be covered by the following U.S. and/or foreign patents: ______
 - □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:

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Signed: Vorg-Zang Title: Profesor Date: 14 March 2018 Place: Emdhore

I, <u>Martin Mehl Lauridsen</u>, of <u>Carl Jacobsens Vej 17M, 4. th., 2500 Valby, Denmark</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; OR (check one or both of the following):
 - □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, may be covered by the following U.S. and/or foreign patents: <u>none</u>;
 - □ *I* do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: <u>none</u>.

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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ladill.Li

I, Florian Mendel, Margarethe-Selenka-Str. 17, 81737 Munich, Germany, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one).

- I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; **OR** (check one or both of the following):
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 <u>SPHINCS</u>⁺, may be covered by the following U.S. and/or foreign patents: _____
 - I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations:

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed: Florion Muchel Title: Date: 29. November 2017

Place: Munich, Germany

I, <u>Ruben Niederhagen</u> of <u>Fraunhofer Institute for Secure Information Technology</u>, <u>Rheinstraße 75</u>, 64295 <u>Darmstadt</u>, <u>Germany</u>, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

- *I* do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; **OR** (check one or both of the following):
 - □ to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, may be covered by the following U.S. and/or foreign patents:
 - □ I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

I acknowledge that NIST will announce any selected cryptosystem(s) and proceed to publish the draft standards for public comment.

I do hereby agree to provide the statements required by Sections 2.D.2 and 2.D.3 in the Call For Proposals for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

I acknowledge that, during the post-quantum algorithm evaluation process, NIST may remove my cryptosystem from consideration for standardization. If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Nrd Signed: Title:

Date: November 23, 2017 Place: Darmstadt

I, _Christian Rechberger_, of _TU Graz, Inffeldgasse 16a, A-8010 Graz____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>[±], is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>[±]; **OR** (check one or both of the following):

- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS[±]</u>, may be covered by the following U.S. and/or foreign patents: _____
- I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: Title:

Date: 23.11.2017 Place: Graz, Austria

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I, Leendert Cornelis Joost Rijneveld, of Radboud University, Comeniuslaan 4, 6525 HP Nijmegen, The Netherlands, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺; **OR** (check one or both of the following):

> to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, may be covered by the following U.S. and/or foreign patents:

I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Condent Cornelis Joost Rijneveld & Signed PhD Student Title: Date: 23-11-2017 Endhoven, the Netherlands Place:

I, Peter Schwabe, of Radboud University, Comeniuslaan 4, 6525 HP Nijmegen, The Netherlands, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check one):

✓ I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as <u>SPHINCS</u>⁺; OR (check one or both of the following):

to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS⁺, may be covered by the following U.S. and/or foreign patents:

I do hereby declare that, to the best of my knowledge, the following pending U.S. and/or foreign patent applications may cover the practice of my submitted cryptosystem, reference implementation or optimized implementations: _____

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Signed

ed that the

Title: Dr. Peker Schwabe, Assistant Prokssor

Date: Nov. 23, 2017

Place: Eindhoven, The Netherlands

The following must also be included:

I, Panos Kampanakis, RTP2H/3, 7025-2 Kit Creek Rd, RTPNC 27709, USA, am the owner or authorized representative of the owner of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Title: Panos Kampanakis Date: 11/28/2017 Place: RTP, NC, USA

The following must also be included:

I, <u>Martin Mehl Lauridsen, Carl Jacobsens Vej 17M, 4. th., 2500 Valby, Denmark</u>, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the postquantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Martin Mehl Lauridsen Title: PhD Date: November 23, 2017 Place: Copenhagen

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The following must also be included:

I, Stefan Kölbl, Richard Petersen Plads, Building 324, room 210,2800 Kgs. Lyngby, Denmark, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: Title:

Date: 23. November 2017 Place: Kgs. Lyngby, Denmark

The following must also be included:

I, Leendert Cornelis Joost Rijneveld, Radboud University, Comeniuslaan 4, 6525 HP Nijmegen, The Netherlands, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Leendert Cornelis Jost Rijneveld Grund Signed: Title: Date: 23 - 11 - 2017 Eindhoven, The Netherlands Place:

The following must also be included:

I, Peter Schwabe, Radboud University, Comeniuslaan 4, 6525 HP Nijmegen, The Netherlands, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation and optimized implementations and hereby grant the U.S. Government and any interested party the right to reproduce, prepare derivative works based upon, distribute copies of, and display such implementations for the purposes of the post-quantum algorithm public review and evaluation process, and implementation if the corresponding cryptosystem is selected for standardization and as a standard, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed:

Title: Dr. Pele Schwabe, Assistant Professor

Date: 23 Nov. 2017

Place: Eindheven, The Netholands

I, Jean-Philippe Aumasson, of avenue de l'esplanade 28, 1012 Lausanne, Switzerland, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS+, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that:

I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SPHINCS+:

I do hereby acknowledge and agree that my submitted cryptosystem will be provided to the public for review and will be evaluated by NIST, and that it might not be selected for standardization by NIST. I further acknowledge that I will not receive financial or other compensation from the U.S. Government for my submission. I certify that, to the best of my knowledge, I have fully disclosed all patents and patent applications which may cover my cryptosystem, reference implementation or optimized implementations. I also acknowledge and agree that the U.S. Government may, during the public review and the evaluation process, and, if my submitted cryptosystem is selected for standardization, during the lifetime of the standard, modify my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability).

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Sh

Signed:

Title: Jean-Philippe Aumasson Date: July 31st, 2019 Place: Lausanne, Switzerland