I, Benoît-Michel Cogliati, of Thales DIS France SAS, 6 rue de la verrerie, 92190 Meudon, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV, 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):

7	I do not hold and do not intend to hold any patent or patent application with a classification amended to include a claim that may cover the cryptosystem, reference implement implementations that I have submitted, known as PROV; OR (check one or both or	tation, or optimized
	to the best of my knowledge, the practice of the cryptosystem, reference implement implementations that I have submitted, known as (print name of cryptosystem) covered by the following U.S. and/or foreign patents: (describe and enumerif applicable);	e m), may be
	□ to the best of my knowledge, the following pending U.S. and/or foreign patent app the practice of my submitted cryptosystem, reference implementation or optimized (describe and enumerate or state "none" if applicable)	

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.

MO

Signed: Benoît-Michel Cogliati

Title: Doctor Date: 05/25/2023 Place: Meudon

I. Brice Minaud, of 127 rue Jeanne d'Arc, Paris, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV, 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):

K	I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
	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: (describe and enumerate or state "none" if applicable)

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.

Signed: Brice Minaud

Title: Inria Junior Researcher

Date: 23 May 2023 Place: Paris, France B)

I, Gilles Macario-Rat, of 108 avenue Victor Hugo 92170 Vanves FRANCE, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as (print name of cryptosystem); 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
X	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: NONE.

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: MA COMT Title: Gilles Macario-Rat Date: May 30, 2023

Place: Châtillon, France

I, Jacques Patarin, of 5 avenue Germaine, 78470 Saint-Rémy-lès-Chevreuse France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as **PROV**, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV ; 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 (print name of cryptosystem), may be covered by the following U.S. and/or foreign patents: (describe and enumerate or state "none" if applicable);
	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: (describe and enumerate or state "none" if applicable)

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.

Signed: Jacques Patarin Title: University professor

Date: 23 may 2023

Place: Saint-Rémy-lès-Chevreuse

I, Jean-Charles Faugère, of CryptoNext Security - 16 Boulevard Saint Germain 75005 Paris - France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known **PROV**, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV ; OR (check one or both of the following):
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	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: (describe and enumerate or state "none" if applicable)

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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.

Signed:

Title: Dr. Jean-Charles Faugère

Date: May 29, 2023 Place: Paris, France

I, Louis GOUBIN, of University of Versailles St-Quentin-en-Yvelines, 45 avenue des Etats-Unis, 78035 Versailles Cedex, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV, 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):

Ž	I do not hold and do not intend to hold any patent or patent application with a claim or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV; OR (check one or both of the following):
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	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:(describe and enumerate or state "none" if applicable)

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

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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: Louis GOUBIN Title: Professor Date: 19/05/2023

Place: Versailles, France

I, Pierre-Alain Fouque, of University of Rennes, 263 avenue du Général Leclerc, 35000 Rennes, France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV; 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 PROV, may be covered by the following U.S. and/or foreign patents: none;
	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: none.

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.

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Signed: Pierre-Alain Fouque Title: Professor Date: May, 11, 2023 Place: Rennes, France

FOUQUE

I, Robin Larrieu, of CryptoNext Security - 16 Boulevard Saint Germain 75005 Paris - France, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known **PROV**, 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 or that could be amended to include a claim that may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as PROV ; OR (check one or both of the following):
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	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: (describe and enumerate or state "none" if applicable)

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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.

Signed:

Title: Dr. Robin Larrieu Date: May 29, 2023 Place: Paris, France

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)

The following must also be included:

I, Brice Minaud, 127 rue Jeanne d'Arc, 75013 Paris, France, am 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: Brice Minaud

Title: Inria Junior Researcher

Date: 23 May 2023 Place: Paris, France B