2.D.1 Statement by Each Submitter

I, _____Seungwan Hong_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826____ , do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____ , 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

☑ 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: _____ PCT Application No., PCT/KR2017/013119_____ .

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

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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2.D.2 and 2.D.3 of the Call For Proposals, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.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: Shan
Title: Mr.
Date: April 9th, 2018
Place: Seoul National Univ.

2.D.1 Statement by Each Submitter

I, _____Yongsoo Song_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____;

 ✓☐ 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: _____ PCT Application No., PCT/KR2017/013119_____.

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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: YS

Title: Dr.

Date: April 6th, 2018

Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____Seong-Min Hong_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826_____, *do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;*

        ☑ *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: _____ PCT Application No., PCT/KR2017/013119 _____ .*

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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: *hong*
Title: Dr.
Date: April 9th, 2018
Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____ *Jinsu Kim* _____, of _____ *1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826* _____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____ *Lizard* _____, 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* _____; **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* _____, *may be covered by the following U.S. and/or foreign patents:* _____ *(describe and enumerate or state "none" if applicable)* _____;

☑ *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:* _____ *PCT Application No., PCT/KR2017/013119* _____.

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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: *[signature]*
Title: Dr.
Date: April 6th, 2018
Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____Dongwoo Kim_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea,_____ _08826___ , do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____ , 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 _____; 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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

    ☑ 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: _____ PCT Application No., PCT/KR2017/013119_____ .

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Signed: ⟋⟍

Title: Mr.

Date: 2018. 04. 06

Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____Duhyeong Kim_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____;

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Signed: ~~(signature)~~

Title: Mr.

Date: April 6th, 2018

Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____ *Joohee Lee* _____, of _____ *1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826* _____, *do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as* _____ *Lizard* _____, *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* _____; **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* _____, *may be covered by the following U.S. and/or foreign patents:* _____ *(describe and enumerate or state "none" if applicable)* _____ ;

☑ *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:* _____ *PCT Application No., PCT/KR2017/013119* _____.

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Signed: *Johee Lee*
Title: Ms.
Date: April 6th, 2018.
Place: Seoul National University

2.D.1 Statement by Each Submitter

I, _____Sangjoon Park____, of ____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard____, 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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Signed: Park

Title: Visiting Professor

Date: April 06, 2018

Place: Seoul National University.

2.D.1 Statement by Each Submitter

I, _____Jung Hee Cheon_____, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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: _____ (describe and enumerate or state "none" if applicable)_____ ;

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Signed: *Jg Ku Cheon*
Title: Professor
Date: April 9th, 2018
Place: Seoul National Univ.

2.D.1 Statement by Each Submitter

I, _____*Jieun Lee*_____, of _____*6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324*_____ , do *hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as* _____*Lizard*_____ *, 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* _____; **OR** *(check one or both of the following):*

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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: 이 지 운
Title: Mrs.
Date: April 6th 2018
Place: KISA

2.D.1 Statement by Each Submitter

I, _____Jun-Sub Kim_____, of ___6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324___, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____;

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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: ~~~W

Title: Dr.

Date: April 6 2018

Place: KISA

2.D.1 Statement by Each Submitter

I, _____*Kimoon Kim*_____, of _____*6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324*_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____*Lizard*_____, 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 _____;* **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;*

  ☑ *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: _____ PCT Application No., PCT/KR2017/013119 ___ .*

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.

Signed: KKM
Title: Mr
Date: April 6 2018
Place: KISA

2.D.1 Statement by Each Submitter

I, _____Eunyoung Choi_____, of _____6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

    ☑ 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: _____ PCT Application No., PCT/KR2017/013119 _____ .

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.

Signed: 최 은 영

Title: Dr.

Date: April 6th 2018

Place: KISA

2.D.1 Statement by Each Submitter

I, _____Haeryong Park_____, of _____6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324_____,
do hereby declare that the cryptosystem, reference implementation, or optimized
implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign
patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

☑ 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: _____
PCT Application No., PCT/KR2017/013119_____.

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.

Signed: 박내홍
Title: Dr
Date: April 6 2018
Place: KISA

2.D.1 Statement by Each Submitter

I, _____Jeongsu Kim_____, of _____50, UNIST-gil, Ulsan 44919, Republic of_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

        ☑   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: _____ PCT Application No., PCT/KR2017/013119_____ .

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.

Signed: *Jeongsu Kim*
Title: Mr.
Date: April. 6, 2018
Place: UNIST

2.D.1 Statement by Each Submitter

I, _____Aaram Yun_____, of _____50, UNIST-gil, Ulsan 44919, Republic of_____, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as _____Lizard_____, 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 _____; **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 _____, may be covered by the following U.S. and/or foreign patents: _____ (describe and enumerate or state "none" if applicable)_____ ;

☑ 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: _____ PCT Application No., PCT/KR2017/013119_____.

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.

Signed:

Title: Dr.

Date: April 6, 2018

Place: UNIST

2.D.2 Statement by Patent (and Patent Application) Owner(s)

If there are any patents (or patent applications) identified by the submitter, including those held by the submitter, the following statement must be signed by each and every owner, or each owner's authorized representative, of each patent and patent application identified.

I, ___Jung Hee Cheon___, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826____, am the owner or authorized representative of the owner of the following patent(s) and/or patent application(s): ____PCT Application No., PCT/KR2017/013119____, and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as ___Lizard___ is selected for standardization, in consideration of its evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the standard (check one):

☑ *without compensation and under reasonable terms and conditions that are demonstrably free of any unfair discrimination,* **OR**

☐ *under reasonable terms and conditions that are demonstrably free of any unfair discrimination.*

I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.

I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.

I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.

I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed: *Jg He Ch*
Title: Professor
Date: April 9th, 2018
Place: Seoul National Univ

2.D.2 Statement by Patent (and Patent Application) Owner(s)

If there are any patents (or patent applications) identified by the submitter, including those held by the submitter, the following statement must be signed by each and every owner, or each owner's authorized representative, of each patent and patent application identified.

I, ___Joohee Lee___, of _____1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea, 08826_____, *am the owner or authorized representative of the owner of the following patent(s) and/or patent application(s):_____PCT Application No., PCT/KR2017/013119_____, and do hereby commit and agree to grant to any interested party on a worldwide basis, if the cryptosystem known as Lizard_____ is selected for standardization, in consideration of its evaluation and selection by NIST, a non-exclusive license for the purpose of implementing the standard (check one):*

    ☑ *without compensation and under reasonable terms and conditions that are demonstrably free of any unfair discrimination,* **OR**

    ☐ *under reasonable terms and conditions that are demonstrably free of any unfair discrimination.*

I further do hereby commit and agree to license such party on the same basis with respect to any other patent application or patent hereafter granted to me, or owned or controlled by me, that is or may be necessary for the purpose of implementing the standard.

I further do hereby commit and agree that I will include, in any documents transferring ownership of each patent and patent application, provisions to ensure that the commitments and assurances made by me are binding on the transferee and any future transferee.

I further do hereby commit and agree that these commitments and assurances are intended by me to be binding on successors-in-interest of each patent and patent application, regardless of whether such provisions are included in the relevant transfer documents.

I further do hereby grant to the U.S. Government, during the public review and the evaluation process, and during the lifetime of the standard, a nonexclusive, nontransferrable, irrevocable, paid-up worldwide license solely for the purpose of modifying my submitted cryptosystem's specifications (e.g., to protect against a newly discovered vulnerability) for incorporation into the standard.

Signed: Joohee Lee
Title: Ms.
Date: 4/6 /2018.
Place: Seoul National University

2.D.3 Statement by Reference/Optimized Implementations' Owner(s)
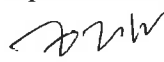
The following must also be included:

I, _Jun-Sub Kim_ , of _6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324_ , 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: _(signature)_
Title: Dr.
Date: April 6 2018
Place: KISA

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

The following must also be included:

I, __Kimoon Kim__ , of __6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324__ , 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: kkM
Title: Mr
Date: April 6 2018
Place: KISA

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

The following must also be included:

I, __Jieun Lee__ , of __6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324__ , 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: 이 지 은
Title: Mrs.
Date: April 6th 2018
Place: KISA

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

The following must also be included:

I,___Eunyoung Choi___, of ___6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324___, 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.
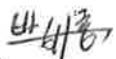
Signed: 최 은 영
Title: Dr.
Date: April 6th 2018
Place: KISA

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

The following must also be included:

I, _Haeryong Park_ , of _6F, 9, Jinheung-gil, Naju-si, Jeollanam-do, Korea, 58324_ , 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: _[signature]_
Title: Dr.
Date: April 6 2018
Place: KISA

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

The following must also be included:

I, ___Yongsoo Song___ , of ___1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea___ , 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: YS
Title: Dr.
Date: April 6th, 2018
Place: Seoul National University

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

The following must also be included:

I, , ___Joohee Lee___ , of ___1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea___ , 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: Joohee Lee
Title: Ms.
Date: Apr. 6th, 2018
Place: Seoul National University

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

The following must also be included:

I, , _____Jung Hee Cheon_____, of _1, Gwanak-ro, Gwanak-gu, Seoul, Republic o,_
owner or authorized representative of the owner (print full name, if different than.
the submitted reference implementation and optimized implementations and hereby
U.S. Government and any interested party the right to reproduce, prepare derivative
based upon, distribute copies of, and display such implementations for the purposes of
quantum algorithm public review and evaluation process, and implementation if the
corresponding cryptosystem is selected for standardization and as a standard, notwithstana
that the implementations may be copyrighted or copyrightable.

Signed: _Jg Hee Che_
Title: Professor
Date: April 9th, 2018
Place: Seoul National Univ.

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

The following must also be included:

I, _Duhyeong Kim_ , of _1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea_ , 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: _[signature]_
Title: Mr
Date: April 6th, 2018
Place: Seoul National University