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.

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.

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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: Juan
Title: Mr.
Date: April 9th, 2013
Place: Cornell University
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):

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PCT Application No., PCT/KR2017/013119 ____.

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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 EachSubmitter

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the reference and optimized implementations, may be withdrawn by the submitter(s) and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

Signed: [Signature]
Title: Mr.
Date: 2018.04.06
Place: Seoul National University
2.D.1 Statement by EachSubmitter

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)

☒ 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.

Signed: [Signature]
Title: [Title]
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):

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☐ 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/KR2017/0013119 ______.

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Signed: Jinho Lee
Title: M.S.
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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the reference and optimized implementations, may be withdrawn by the submitter(s) and
owner(s), as appropriate.

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the reference and optimized implementations, may be withdrawn by the submitter(s) and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

Signed: 01 지 우
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):

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the reference and optimized implementations, may be withdrawn by the submitter(s) and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

Signed: [Signature]

Title: Dr.

Date: April 6, 2018

Place: KUSA
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.

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☑ 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: Kisk
2.D.1 Statement by Each Submitter

I, Eunyoung Choi, of 6E, 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: ______


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: 
Date: April 6th 2018
Place: KSA
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 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 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 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: [Signature]
Title: [Title]
Date: April 6, 2018
Place: [Place]
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 Lizard: **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 Lizard, 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 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: [Signature]
Title: Dr.
Date: April 6, 2018
Place: UNIST

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):

- [x] 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: _Jung Hee Cheon_
Title: _Professor_
Date: _April 9th, 2018_
Place: _Seoul National Univ_

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, Jinhung-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: 
Title: 
Date: April 6, 2023
Place: 

CISA
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: 01 7/ 2
Title: Mys,
Date: Apr/1 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: 

Title: Dr.

Date: April 6th, 2018

Place: Korea
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 I, 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 __I, 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, notwithstanding that the implementations may be copyrighted or copyrightable.

Signed: ________________
Title: ________________
Date: ________________
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:  
Title:  
Date:   April 6th, 2018  
Place:  Seoul National University