

## Statement by Each Submitter

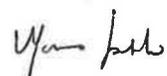
*I, Marco Baldi, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Breccie Bianche 12, I-60131, Ancona, Italy, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt.*

*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 If my cryptosystem (or the derived cryptosystem) is removed from consideration for standardization or withdrawn from consideration by all submitter(s) and owner(s), I understand that rights granted and assurances made under Sections 2.D.1, 2.D.2 and 2.D.3, including use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: 

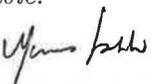
Title: Dr.

Date: 29 July 2019

Place: Ancona

## Statement by Reference/Optimized Implementations' Owner(s)

*I, Marco Baldi, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Brecce Bianche 12, I-60131, Ancona, Italy, am one of the owners 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: *29 July 2019*

Place: *Ancona*

## Statement by Each Submitter

*I, Franco Chiaraluce, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Brezze Bianche 12, I-60131, Ancona, Italy, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt.*

*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: *Franco Chiaraluce*

Title: *Professor*

Date: *24 July 2019*

Place: *Ancona*

**Statement by Reference/Optimized Implementations' Owner(s)**

*I, Franco Chiaraluce, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Brezze Bianche 12, I-60131, Ancona, Italy, am one of the owners 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: *Franco Chiaraluce*

Title: *Professor*

Date: *24 July 2019*

Place: *Ancona*

## Statement by Each Submitter

*I, Paolo Santini, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Breccie Bianche 12, I-60131, Ancona, Italy, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt.*

*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: *Santini Paolo*

Title: *MR.*

Date: *30 JULY 2019*

Place: *ANCONA*

## Statement by Reference/Optimized Implementations' Owner(s)

*I, Paolo Santini, of Università Politecnica delle Marche, Dipartimento di Ingegneria dell'Informazione (DII), Via Breccie Bianche 12, I-60131, Ancona, Italy, am one of the owners 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: Santini P. B.

Title: Mr.

Date: 30 JULY 2019

Place: ANCONA

## Statement by Each Submitter

*I, Gerardo Pelosi, of Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Via G. Ponzio 34/5, I-20133, Milano, Italy, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt.*

*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: 

Title: Prof.

Date: 30 JULY 2019

Place: MILAN, ITALY

Statement by Reference/Optimized Implementations' Owner(s)

*I, Gerardo Pelosi, of Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Via G. Ponzio 34/5, I-20133, Milano, Italy, am one of the owners 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: *Gerardo Pelosi*

Title: *Prof.*

Date: *30 JULY 2019*

Place: *MILAN, ITALY*

## Statement by Each Submitter

*I, Alessandro Barenghi, of Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Via G. Ponzio 34/5, I-20133, Milano, Italy, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt, is my own original work, or if submitted jointly with others, is the original work of the joint submitters. I further declare that I do not hold and do not intend to hold any patent or patent application with a claim which may cover the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as LEDAcrypt.*

*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: *Alessandro Barenghi*

Title: *PhD*

Date: *29/7/2019*

Place: *MILANO*

Statement by Reference/Optimized Implementations' Owner(s)

*I, Alessandro Barengi, of Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Via G. Ponzio 34/5, I-20133, Milano, Italy, am one of the owners 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: *Alessandro Barengi*

Title: *PhD*

Date: *29/7/2019*

Place: *MILANO*