

Chapter 1

Intellectual Property Statement /Agreements/Disclosures

1.1 Statement by Each Submitter

I, Kalikinkar Mandal, Department of Electrical and Computer Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON, N2L 3G1, CANADA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check at least one of the following):

- 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 SYCON;
- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON may be covered by the following U.S. and/or foreign patents: None;
- 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: None.

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

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

required by Sections 2.4.2 and 2.4.3, 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 lightweight crypto 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 2.4.1, 2.4.2 and 2.4.3, including use rights of the reference and optimized implementations, may be withdrawn by the submitter(s) and owner(s), as appropriate.

Signed: *Kaliumken Mandel*
Title: *Research Assistant Professor*
Date: *20/03/2019*
Place: *Waterloo*

1.2 Statement by Reference and Optimized/Additional Implementations' Owner(s)

I, Kalikinkar Mandal, Department of Electrical and Computer Engineering, University of Waterloo, 200 University Avenue West, Waterloo, ON, N2L 3G1, CANADA, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation, optimized and additional 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 lightweight cryptography 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: Kalikinkar Mandal
Title: Research Assistant Professor
Date: 20/03/2019
Place: Waterloo

Chapter 1

Intellectual Property Statement /Agreements/Disclosures

1.1 Statement by Each Submitter

I, Dhiman Saha, Department of Electrical Engineering and Computer Science, Indian Institute of Technology Bhilai, GEC Campus, Sejbahar, Raipur, Chhattisgarh, INDIA, PIN - 492015, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check at least one of the following):

- 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 SYCON;
- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON may be covered by the following U.S. and/or foreign patents: None;
- 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: None.

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Signed: *Dhiman Saha*

Title: Assistant Professor

Date: 20/03/2019

Place: Raipur, Chhattisgarh, INDIA

1.2 Statement by Implementations' Owner(s)

I, Dhiman Saha, Department of Electrical Engineering and Computer Science, Indian Institute of Technology Bhilai, GEC Campus, Sejbahar, Raipur, Chhattisgarh, INDIA, PIN - 492015, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation, optimized and additional 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 lightweight cryptography 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: Assistant Professor

Date: 20/03/2019

Place: Raipur, Chhattisgarh, INDIA

1.3 Statement by Implementations' Owner(s)

I, Aikata, Department of Electrical Engineering and Computer Science, Indian Institute of Technology Bhilai, GEC Campus, Sejbahar, Raipur, Chhattisgarh, INDIA, PIN - 492015, am the owner or authorized representative of the owner (print full name, if different than the signer) of the submitted reference implementation, optimized and additional 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 lightweight cryptography 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: 3rd Year Undergraduate Student (Computer Science and Engineering)

Date: 20/03/2019

Place: Raipur, Chhattisgarh, INDIA

Chapter 1

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1.1 Statement by Each Submitter

I, Sumanta Sarkar, TCS Innovation Labs, GS3-71, Tata Consultancy Services, Deccan Park, Madhapur, Hyderabad 500 081, INDIA, do hereby declare that the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON, is my own original work, or if submitted jointly with others, is the original work of the joint submitters.

I further declare that (check at least one of the following):

- 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 SYCON;
- to the best of my knowledge, the practice of the cryptosystem, reference implementation, or optimized implementations that I have submitted, known as SYCON may be covered by the following U.S. and/or foreign patents: None;
- 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: None.

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required by Sections 2.4.2 and 2.4.3, below, for any patent or patent application identified to cover the practice of my cryptosystem, reference implementation or optimized implementations and the right to use such implementations for the purposes of the public review and evaluation process.

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Signed:



Title: Doctor

Date: March 20, 2019

Place: Hyderabad, INDIA