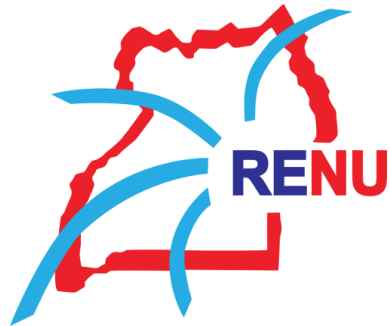




# Enhancing Network Hygiene: Network-wide blocking and Whitelisting for Effective Email Spam Filtering

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## Overview

26th October 2023

## Outline

- Introduction
- The Problem
- What Has Been Done In RENU
- Spam Score Before Filtering
- Execution Overview
- Spam Score After Filtering
- Effects On Productivity
- Conclusion

# Introduction



# Introduction - Global Email Spam Propagators

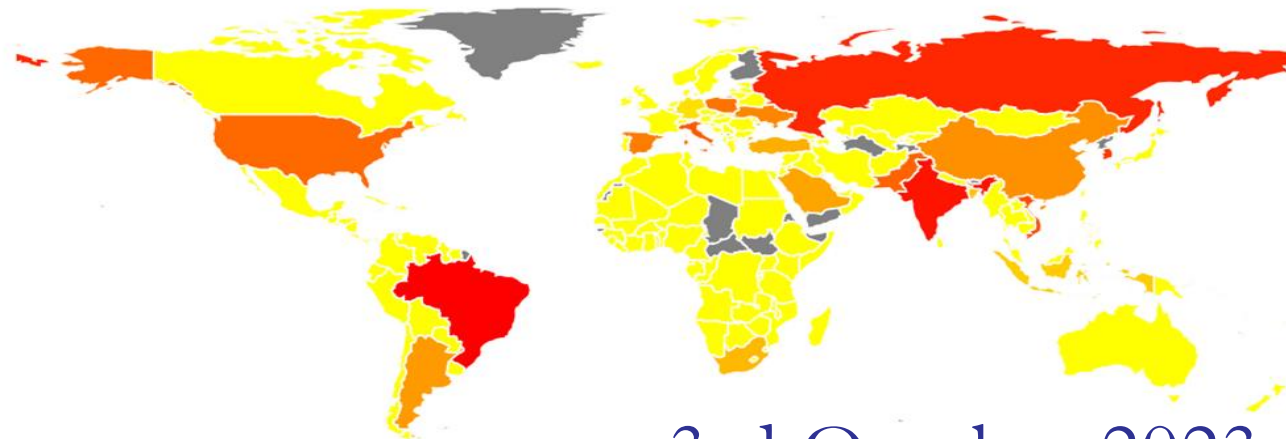


## UCEPROTECT-NETWORK

### Statscenter

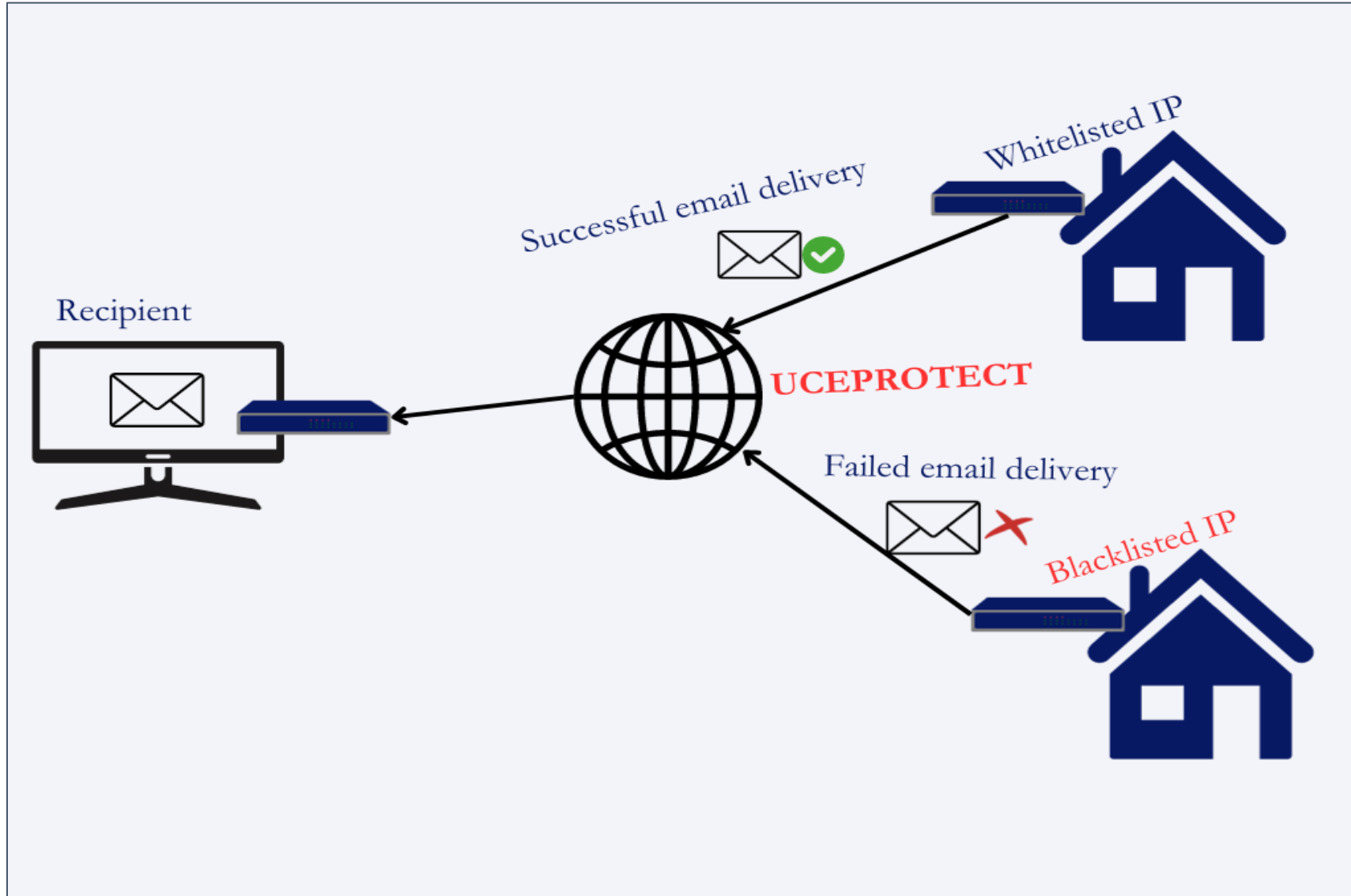
**UCEPROTECT Zones:** Level 1: 📌 72803 IP's, Level 2: 📌 13886 Allocations, Level 3: 📌 978 ASN's. Last Updated: 03.10.2023 16:15 CEST

- 📌 Global Spam Activity
- 📌 UCEPROTECT Details
- 📌 Backscatterer Details
- 📌 Last Day
- 📌 Last Week
- 📌 Measurement info



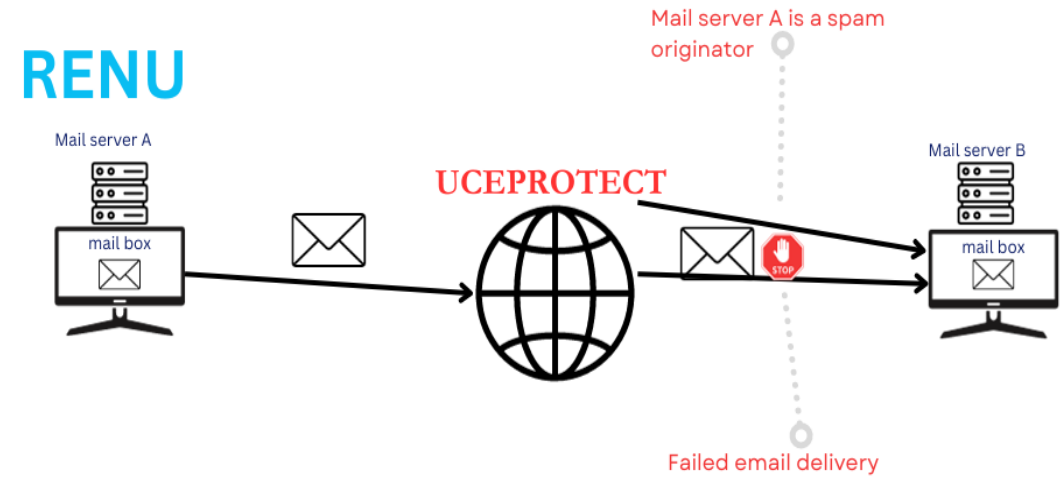
3rd October 2023

# Introduction

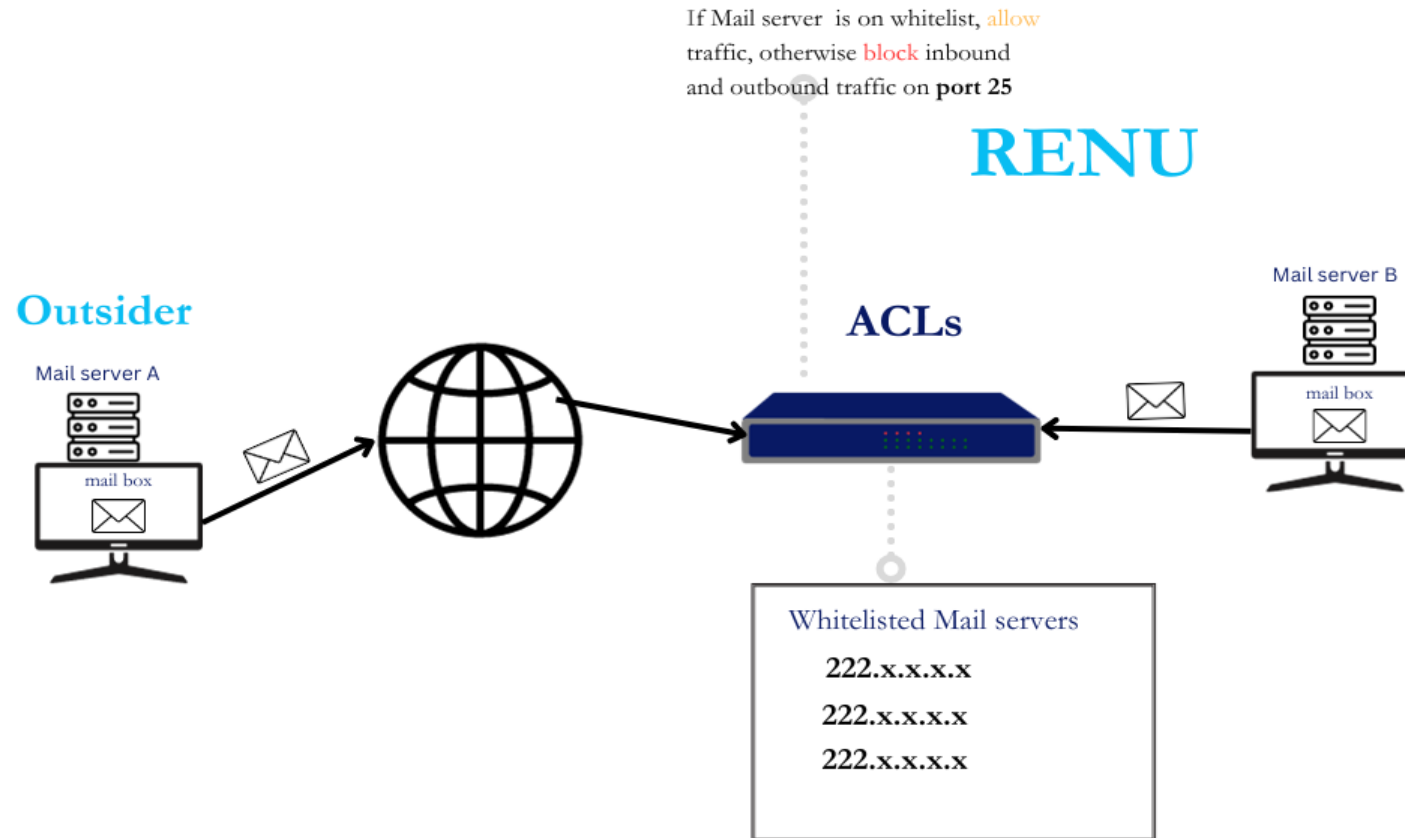


# The problem

- High spam scores led to IP and subnet blocking by Internet operators.
- Impact on reputation, productivity and email communication.
- Compromised machines that were used to send out spam.



# What Has Been Done In RENU



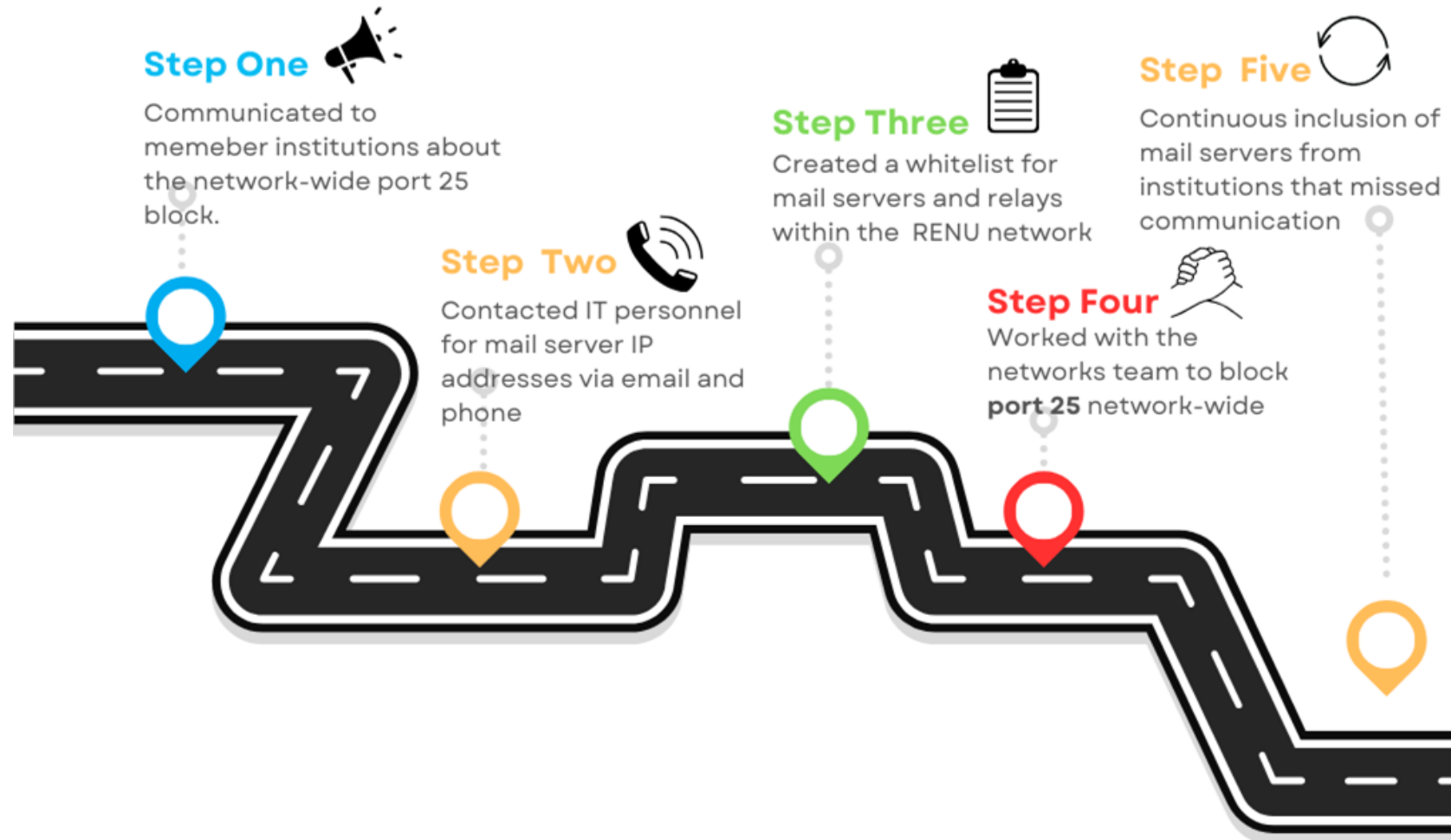
# Email Spam Propagation in RENU (Before)



<b><u>UCEPROTECT-Level3</u></b>							
Reputation of ASN 327687   RENU, UG							
AS	Status	Spamscore	Provider has total IP's	Level 1 listed abusers within the last 7 days	Impacts from Level 1	Level 3 Escalation limit by Impacts	Optional express delisting WARNING! PROBLEM MUST BE FIXED FIRST TO PREVENT NEW LISTINGS
327687	<b>LISTED</b>	<b>76.7</b>	114688	3	88 <small>60 Min.</small>	57	Express delisting available

10th May 2023

# Execution Overview



# Spam Score After Filtering



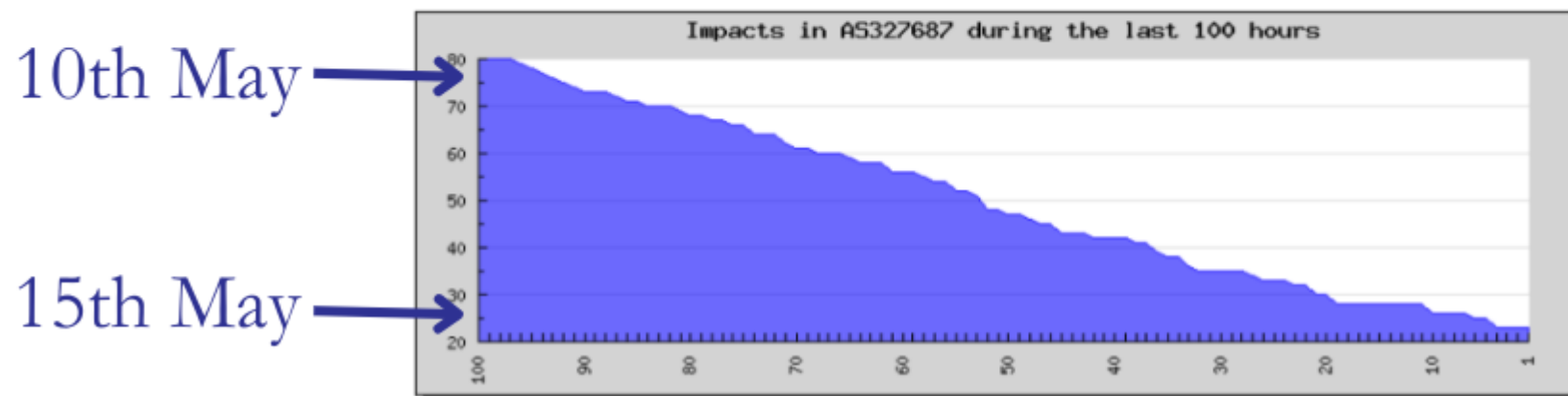
## UCEPROTECT-Level3

Reputation of ASN 327687 | RENU, UG

AS	Status	Spamscore	Provider has total IP's	Level 1 listed abusers within the last 7 days	Impacts from Level 1	Level 3 Escalation limit by Impacts	Optional express delisting WARNING! PROBLEM MUST BE FIXED FIRST TO PREVENT NEW LISTINGS
327687	ATTENTION Increased Listingrisk	20.1	114688	1	23	57	Not available

[DETAILS ABOUT ALL ABUSER IP'S LISTED IN LEVEL 1 AND THEIR IMPACTS CAN BE FOUND HERE!](#)

Link of this Query: <http://www.uceprotect.net/en/rblcheck.php?asn=327687>



# Spam Score After Filtering



## UCEPROTECT-Level1

(Single IP)

IP	Status	Impacts	Listingrisk
[Redacted]	NOT LISTED	0	HIGH DNS Problem

## UCEPROTECT-Level2

Networks this IP belongs to

Networks	Status	Level 1 listed abusers within the last 7 days	Impacts in this net within the last 7 days	Li
137.63.128.0/17	NOT LISTED	1	1	
[Redacted]	NOT LISTED	0	0	

17th May 2023

## UCEPROTECT-Level3

Reputation of ASN 327687 | RENU, UG

AS	Status	Spamscore	Provider has total IP's	Level 1 listed abusers within the last 7 days	Impacts from Level 1	Level
327687	NOT LISTED	0.9	114688	1	1	

# Effects On Productivity



- Uninterrupted Email Communication
- Mitigation of IP Address and Subnet Blocking



**Security Is Everyone's Responsibility**  
**Thank You!**

**~End~**