MICROSECOND TEMPORAL FRAGMENTATION SYSTEM

Defensive Cybersecurity Platform - MWRASP (Total)

FIG. 1 - TEMPORAL FRAGMENTATION OVERVIEW
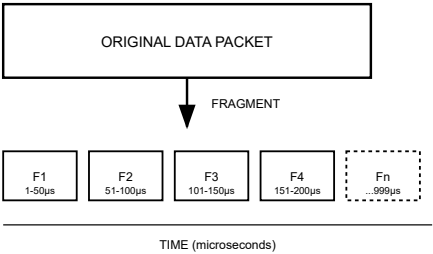
ORIGINAL DATA PACKET

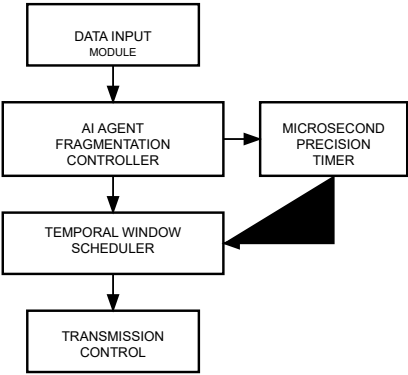FRAGMENT

| F1 1-50μs | F2 51-100μs | F3 101-150μs | F4 151-200μs | Fn ...999μs |

TIME (microseconds)

FIG. 2 - SYSTEM ARCHITECTURE

DATA INPUT
MODULE

AI AGENT FRAGMENTATION CONTROLLER → MICROSECOND PRECISION TIMER

TEMPORAL WINDOW SCHEDULER

TRANSMISSION CONTROL

FIG. 3 - MICROSECOND PRECISION TIMING DIAGRAM

0μs   250μs   500μs   750μs   1000μs

F1 F2 F3 F4 F5

GB   EMPTY   RESERVED
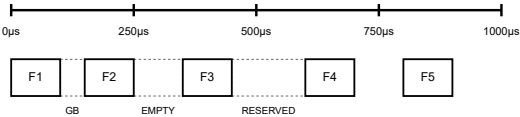
FIG. 4 - FRAGMENT-TO-WINDOW ASSIGNMENT

F1
F2   AI AGENT ASSIGNMENT ALGORITHM   → W1
F3   → W2
                                       → W3
                                         W4
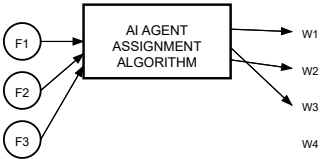
FIG. 5 - DEFENSIVE SECURITY IMPLEMENTATION

ENCRYPTED DATA STREAM

TEMPORAL OBFUSCATION

| F3 | F1 | F5 | F2 | F4 | F6 |

NON-SEQUENTIAL TRANSMISSION
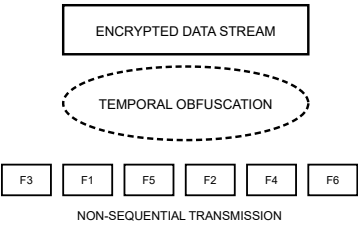
FIG. 6 - MWRASP DEFENSIVE APPLICATIONS

FINANCIAL   INDUSTRIAL

MWRASP TEMPORAL CORE

MEDICAL   AUTOMOTIVE
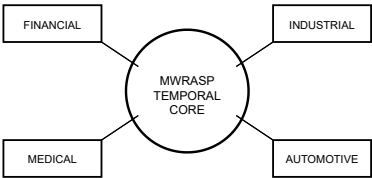
FIG. 7 - BANDWIDTH OPTIMIZATION THROUGH TEMPORAL MULTIPLEXING

Traditional:

SEQUENTIAL PACKET TRANSMISSION

MWRASP Temporal:

| CH1 | CH2 | CH3 | CH4 | CH5 |

PARALLEL TEMPORAL FRAGMENTATION
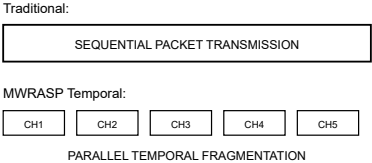
FIG. 8 - AI AGENT NETWORK ARCHITECTURE

MASTER AI AGENT COORDINATOR

AI-1   AI-2   AI-3   AI-N

DISTRIBUTED DEFENSIVE AI AGENTS
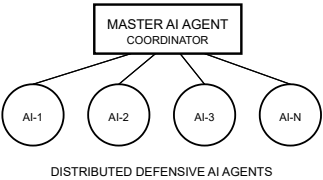
FIG. 9 - FRAGMENT REASSEMBLY PROCESS
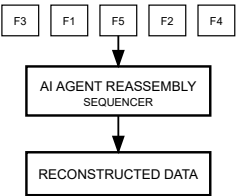
| F3 | F1 | F5 | F2 | F4 |

AI AGENT REASSEMBLY SEQUENCER

RECONSTRUCTED DATA

FIG. 10 - TSN INTEGRATION

IEEE 802.1 TSN INFRASTRUCTURE

MWRASP TEMPORAL FRAGMENTATION
DEFENSIVE AI AGENT LAYER

PROTECTED APPLICATION DATA

SEAMLESS TSN COMPATIBILITY

MICROSECOND TEMPORAL FRAGMENTATION - MWRASP (TOTAL) DEFENSIVE CYBERSECURITY PLATFORM

Patent Pending - Comprehensive Mathematical Woven Responsive Adaptive Swarm Platform