TLS Handshake Agent - session: std::shared ptr<Session> - current state: State - prime group: int - G: std::shared ptr<BigInt> - P: std::shared ptr<BigInt> - s: std::shared ptr<BigInt> - S: std::shared ptr<BigInt> - c: std::shared ptr<BigInt> - C: std::shared ptr<BigInt> - kev: std::shared ptr<BigInt> - local protocol: std::string - partner protocol: std::string - partner encrypted: bool - check protocols(): void - handle message(tls::Message Wrapper): void - receive client hello(): void - receive server hello(tls::Message Wrapper): void - receive certificate(tls::Message Wrapper): void - receive server hello done(): void - receive client key exchange(tls::Message Wrapper): void - receive finished(tls::Message Wrapper): void + TLS Handshake Agent(std::shared ptr<Session>) + notify(tls::Message Wrapper, unsigned int): void + initiate handshake(): void + is secure(): bool + is establishing(): bool + reconnect(): void

+ get key(): std::string

+ generate_random_number(BigInt, BigInt): BigInt
+ red_primes_json(std::string, int, BigInt&, BigInt&): void
+ encrypt(const std::string&, unsigned long&, const string&): void
+ decrypt(const std::string&, unsigned long&, const string&): void

+ send_message(std::string, unsigned long&, std::string): void + receive message(std::string, unsigned long, std::string): void

+ encode_base64(const std::string&): void + decode base64(const std::string&): void