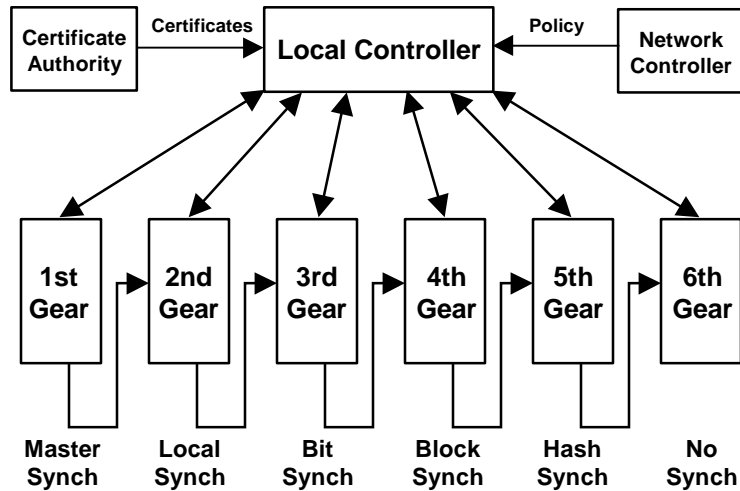


Adaptive Cryptographically Synchronized Authentication (ACSA)

High-Level Model



New Ideas

Employ methods of authentication which adapt to network risk and load by monitoring relevant variables and shifting among a set of authentication sub-systems.

Employ a context negotiating method for determining and maintaining an optimized configuration for multiple network entities.

Apply the concepts of probabilistic authentication and integrity assurance to adaptive network security.

Impact

An authentication method which can operate at speeds fast enough to meet the demands of Next Generation Internet (NGI) ultra-fast networks.

General techniques for securely performing adaptive synchronization of network parameters between users of NGI ultra-fast networks.

General techniques for using relatively slow cryptographic components to provide high-speed communications security.

Schedule

TASK	1998				1999				2000			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
System Factors Analysis				▲								
System Design								▲				
Prototype Software												▲
Demonstration												▲
Final Report												▲