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15. The method of claim 10, further comprising:  
setting the second cryptographic period to a time period  
less than a latency time in requesting and receiving a  
new control word and associated new ECM from the  
ECM generator.

16. A method comprising:  
caching concurrently, by a computing device, a first set of  
control words and a first set of entitlement control  
messages (ECMs) associated with the first set of control  
words;

encrypting a transport stream, for a first service, using a  
particular control word of the first set of control words  
according to a schedule, wherein the schedule comprises  
an indication to encrypt the transport stream using the  
particular control word during a first cryptographic period,  
using a different control word during a second cryptographic  
period after the first cryptographic period, and using the  
particular control word during a third cryptographic period  
after the first cryptographic period and the second cryptographic  
period;

inserting into the transport stream a particular ECM, of  
the first set of ECMs, corresponding to the particular  
control word; and  
sending, to a device downstream from the computing  
device, the transport stream.

17. The method of claim 16, further comprising:  
receiving from an ECM generator the schedule, the schedule  
being indicative of a use order of the first set of  
control words associated with the first set of ECMs.

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18. The method of claim 16, further comprising:  
receiving a request for the first service;

determining a number of control words sufficient to  
stream the first service for a predetermined period of  
time greater than one cryptographic period based on a  
program schedule associated with the first service;

sending, by the computing device and to an ECM generator,  
a request for a particular number of control words  
equivalent to the number of control words determined to  
be sufficient to stream the first service for the  
predetermined period of time; and

receiving, by the computing device and from the ECM  
generator, a set of control words having a number of  
control words equivalent to the particular number of  
control words of the request.

19. The method of claim 16, further comprising:  
in response to a determination that a number of control  
words cached at the computing device is less than a  
predetermined threshold number, receiving, by the  
computing device and from an ECM generator, a second  
set of control words and a second set of ECMs greater  
than the predetermined threshold number, wherein the  
second set of ECMs is associated with the second set  
of control words.

20. The method of claim 16, wherein the computing  
device comprises an edge quadrature amplitude modulation  
(QAM) modulator with an embedded encryptor.

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