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Figure 1 - GSM1x System Architecture using the MSN

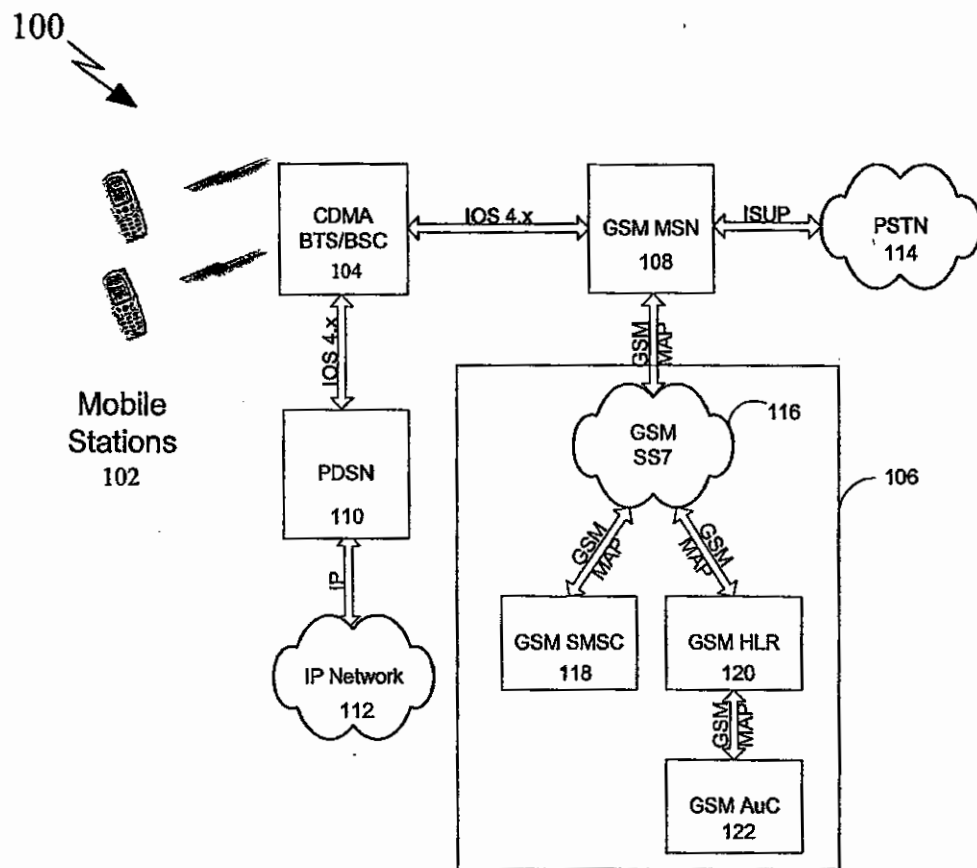


FIGURE 1

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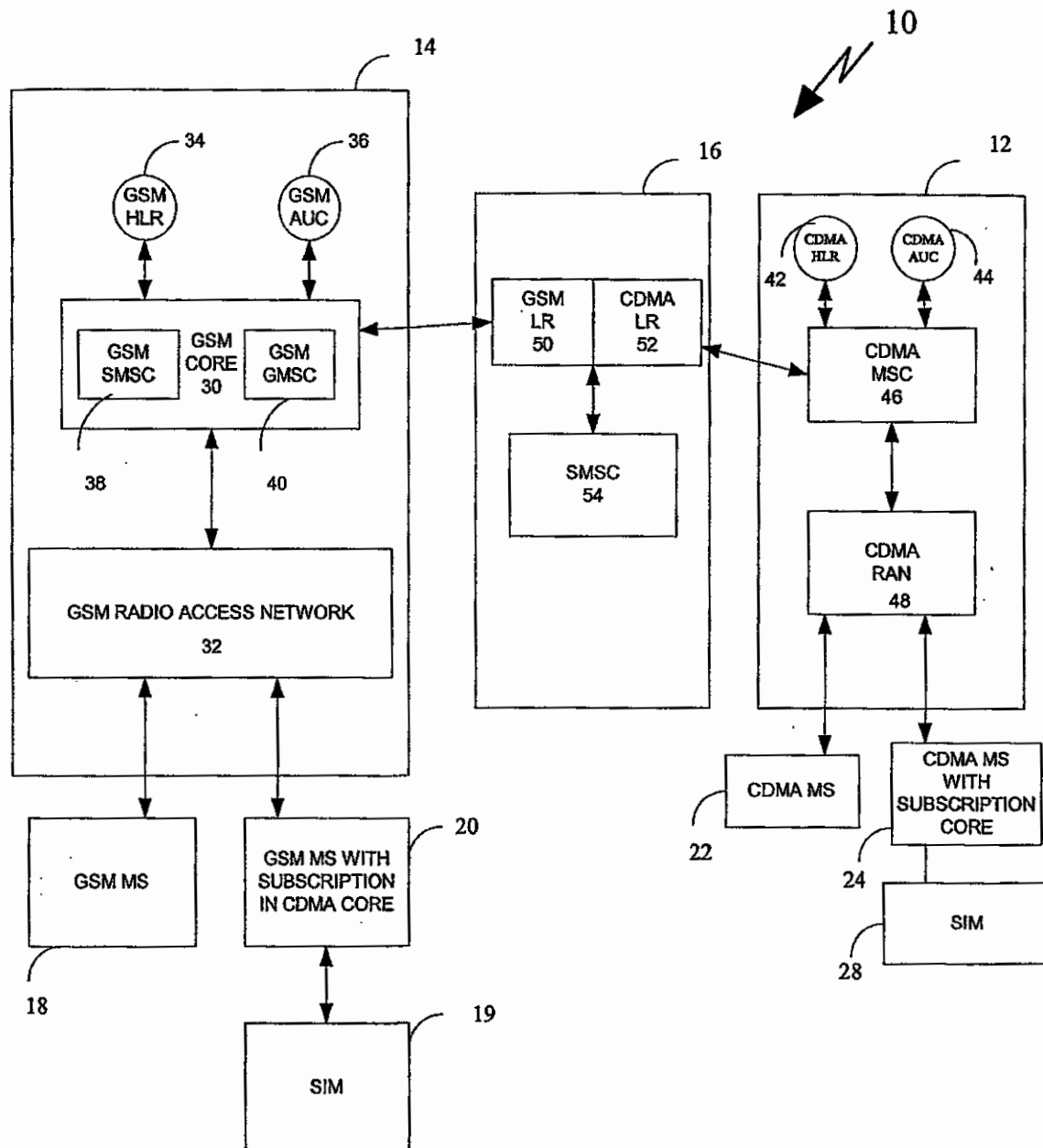


FIGURE 2

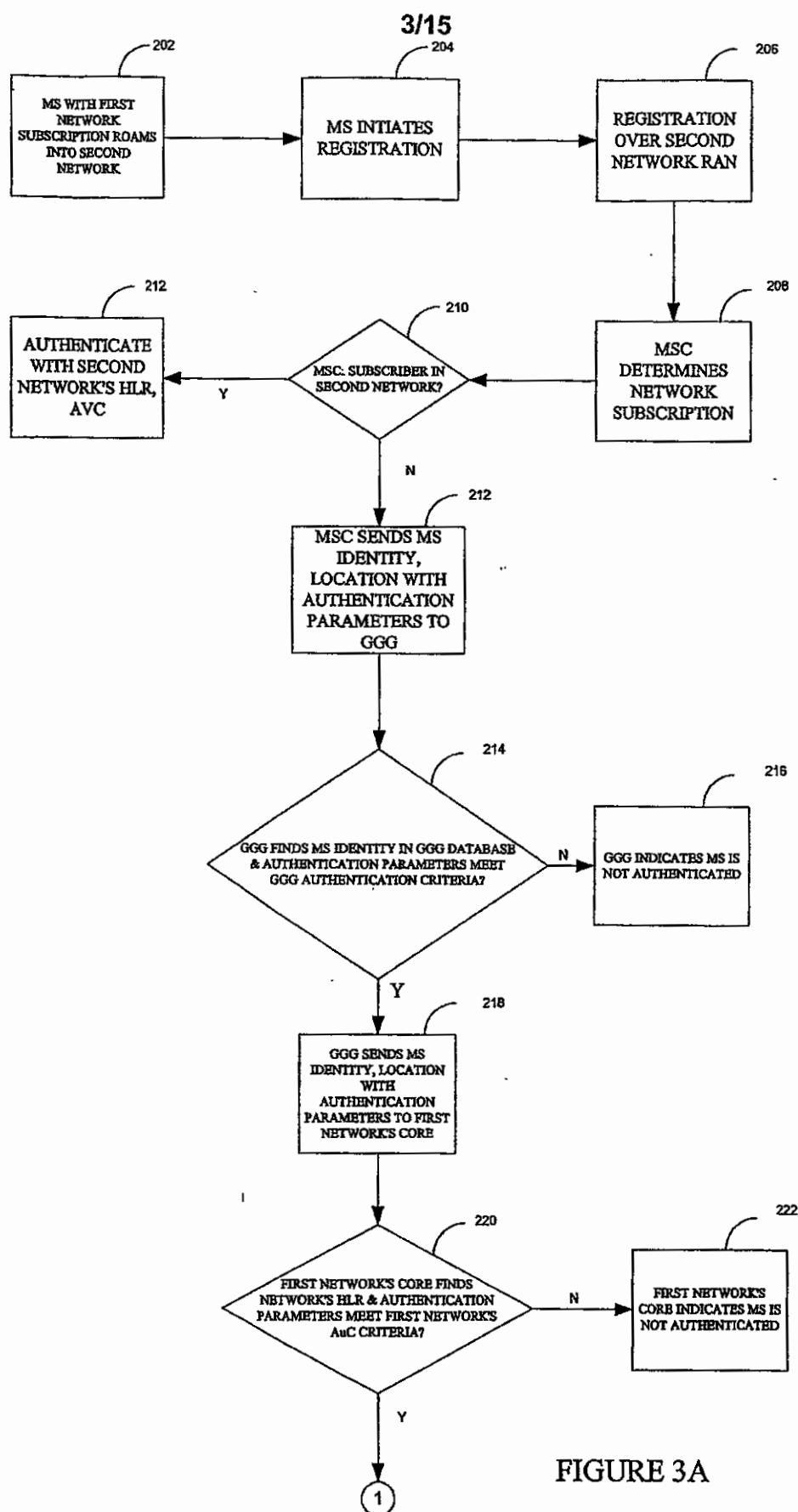


FIGURE 3A

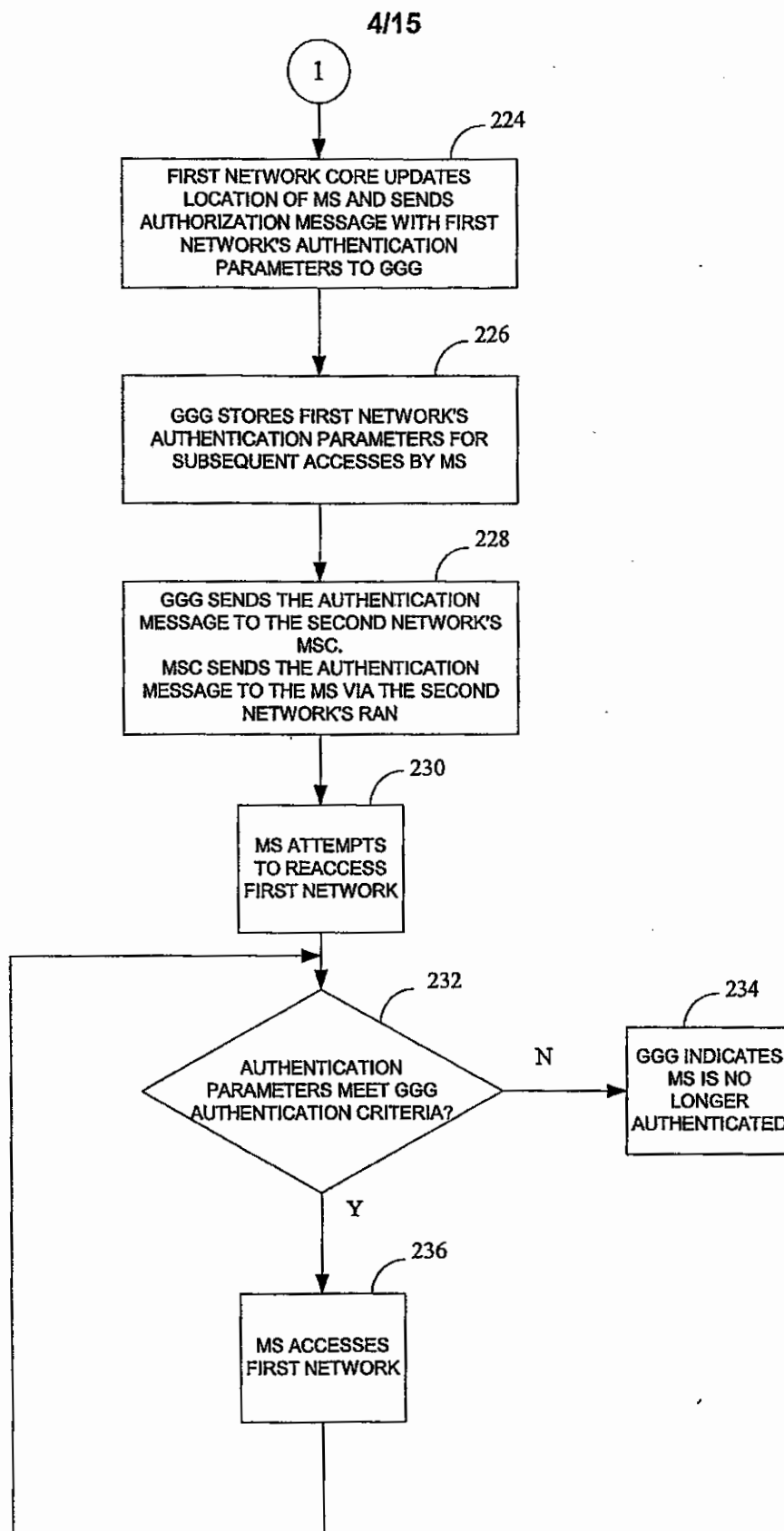


FIGURE 3B

Figure 4

ANSI-41 method of producing authentication keys

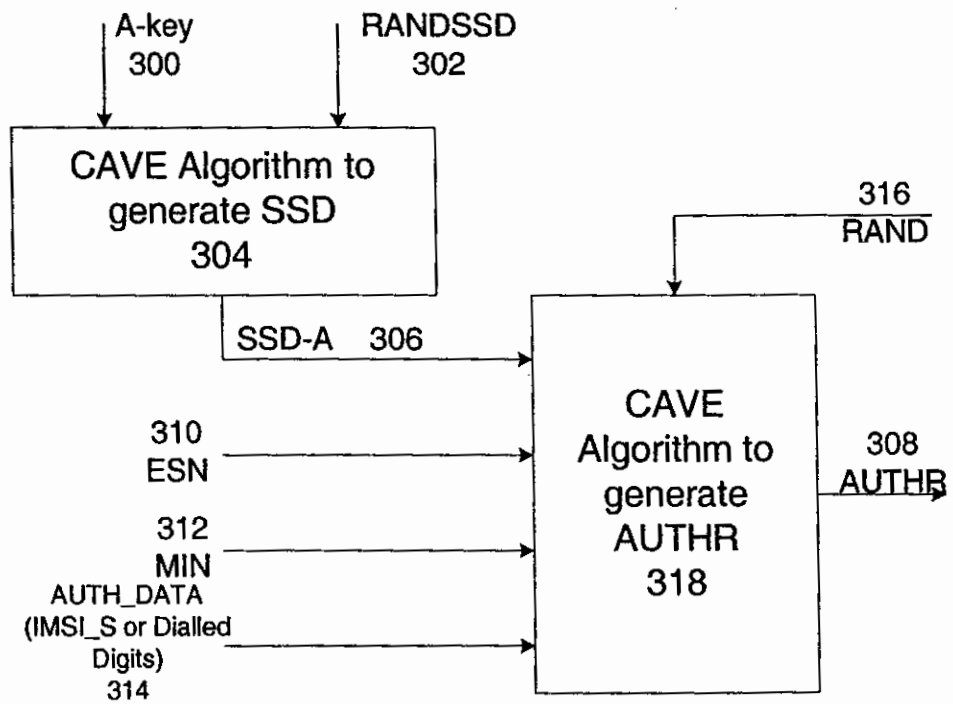


Figure 5

Using Kc as SSD-A

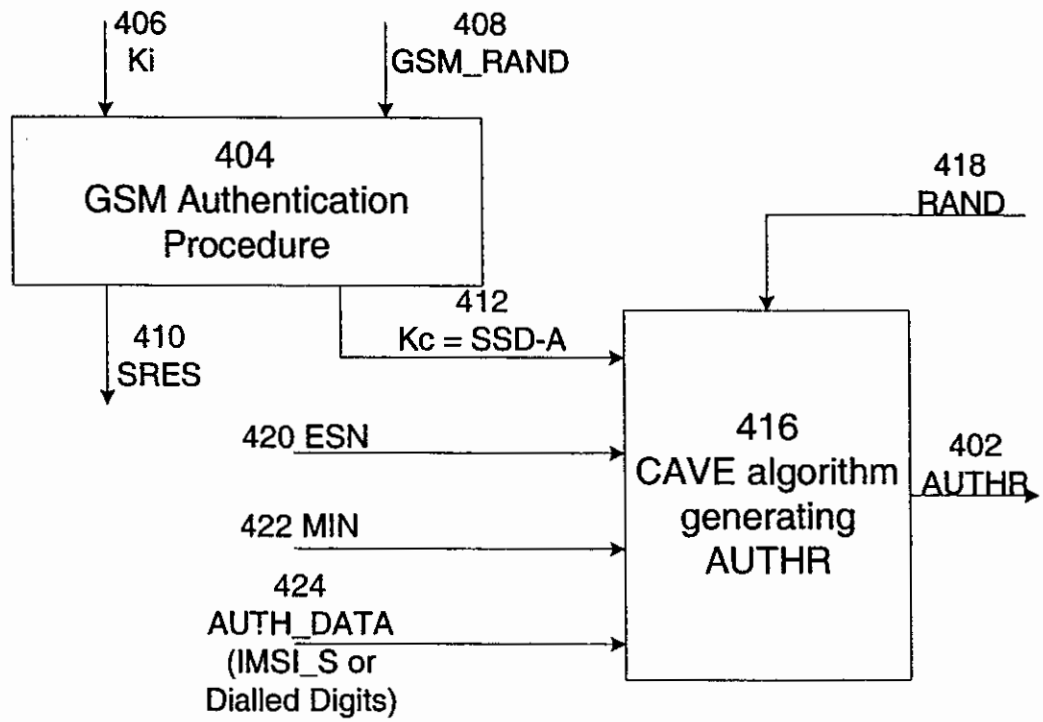


Figure 6

Successful SSD update procedure

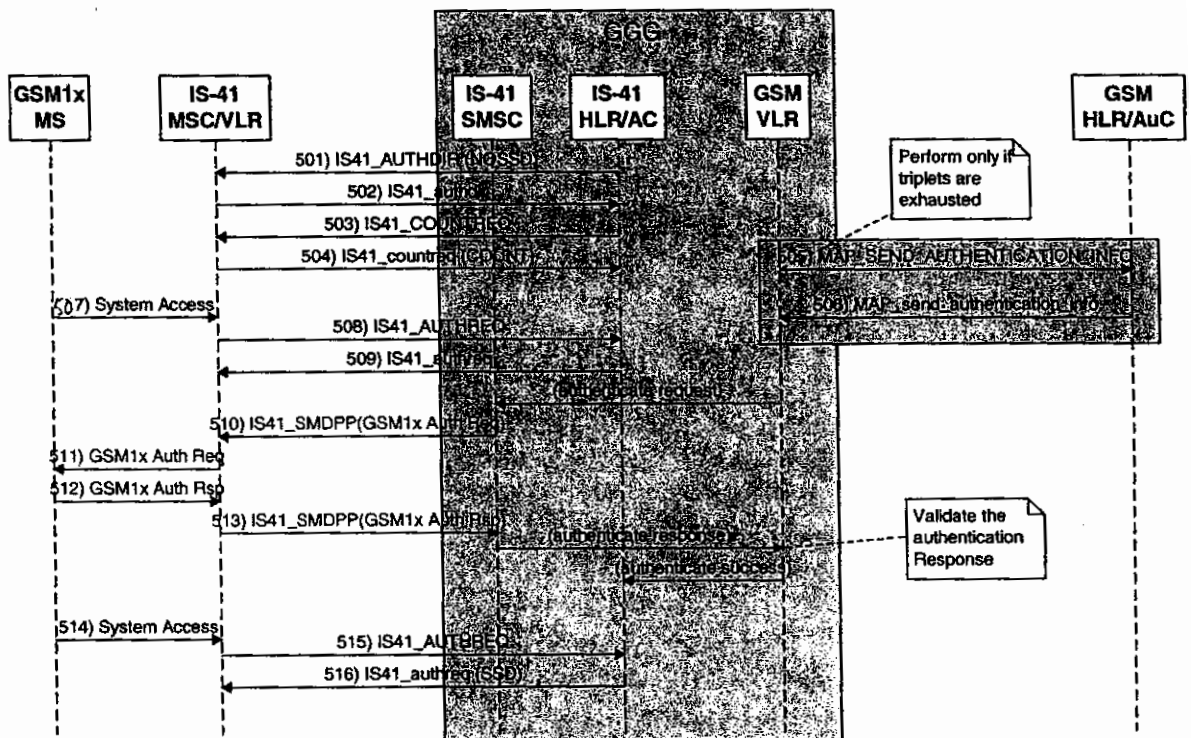


Figure 7

Initial registration with SSD sharing

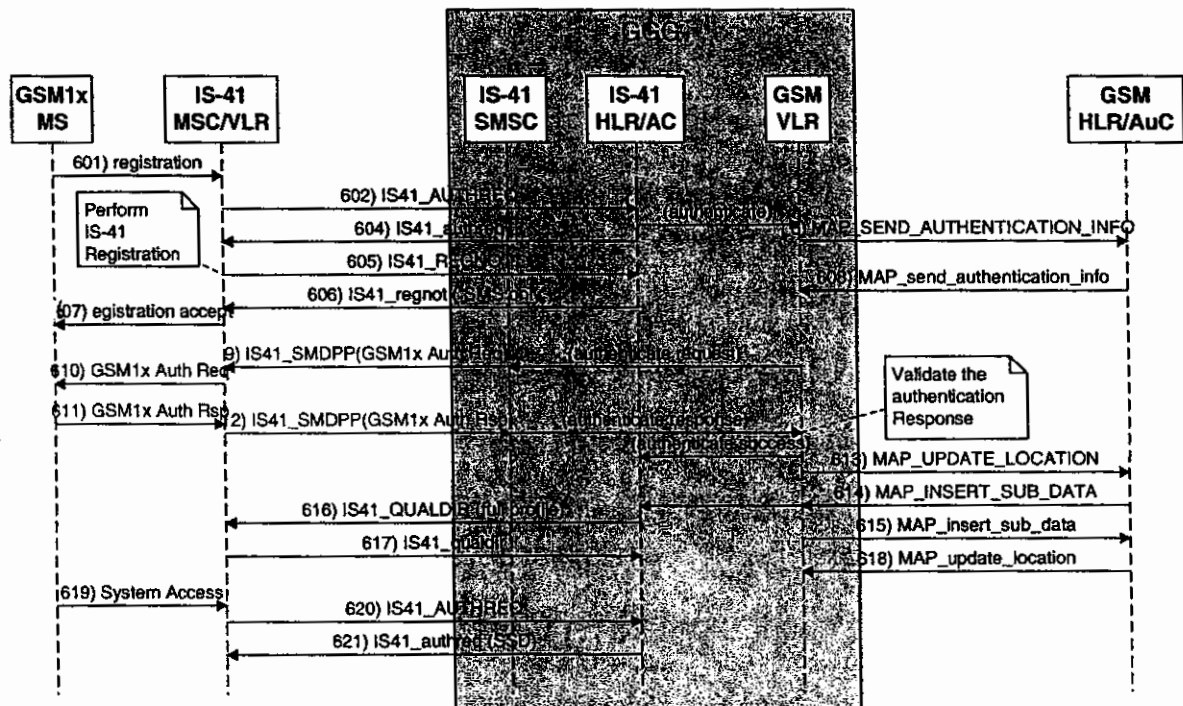
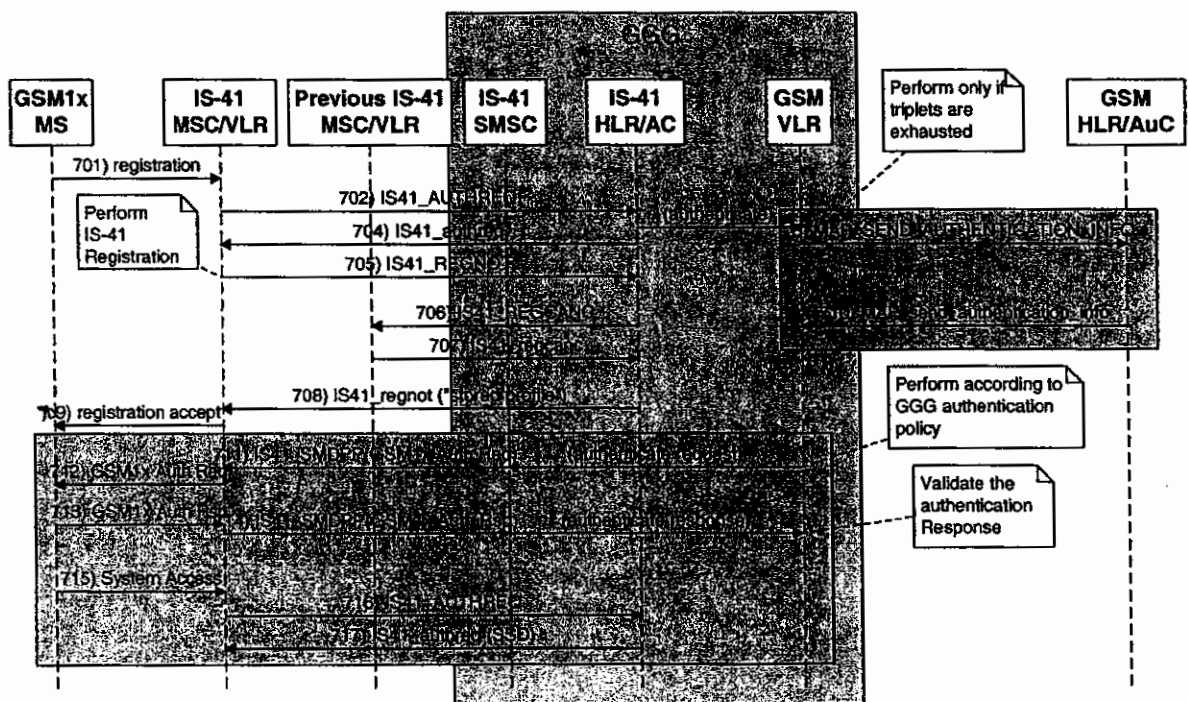


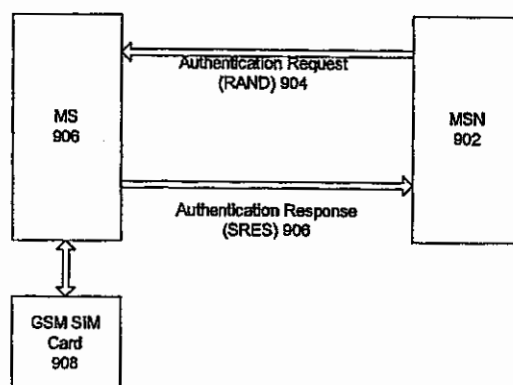
FIGURE 8

Successful registration with new MSC/VLR with SSD sharing.



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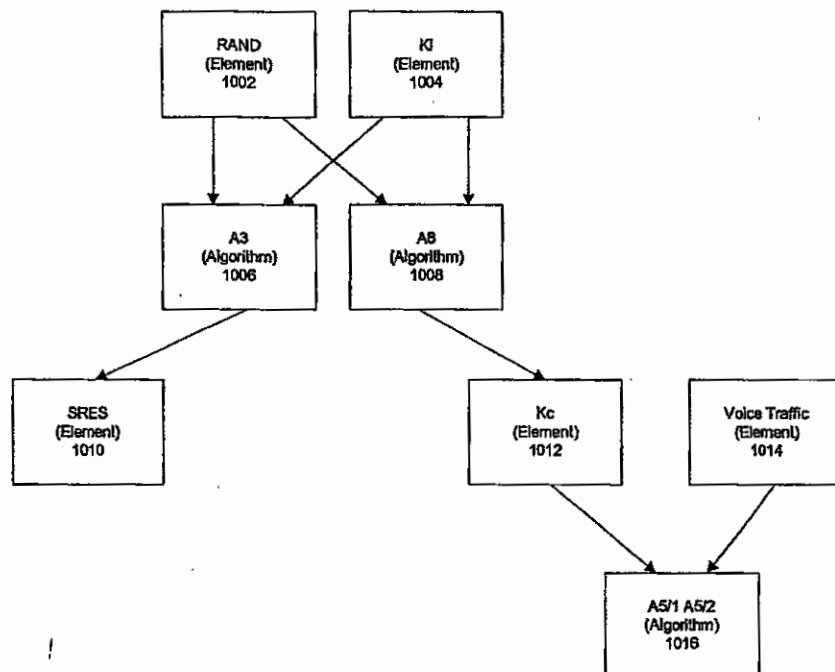
**Figure 9 - Outline of
Authentication Procedure**



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Figure 10 - GSM Key Generation

GSM Cryptography

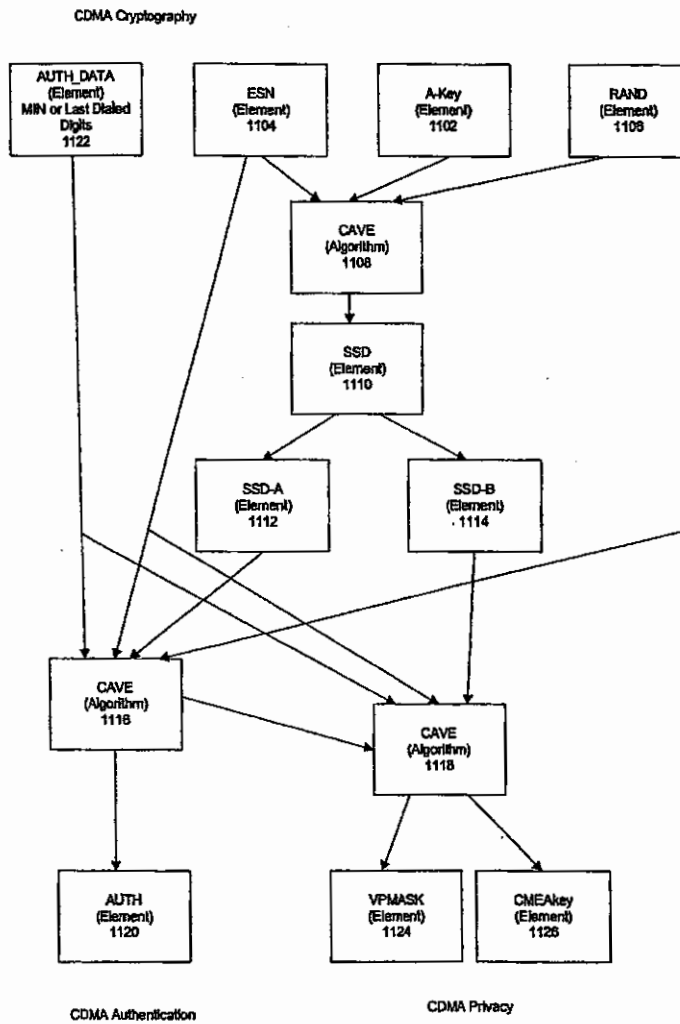


GSM Authentication

GSM Privacy

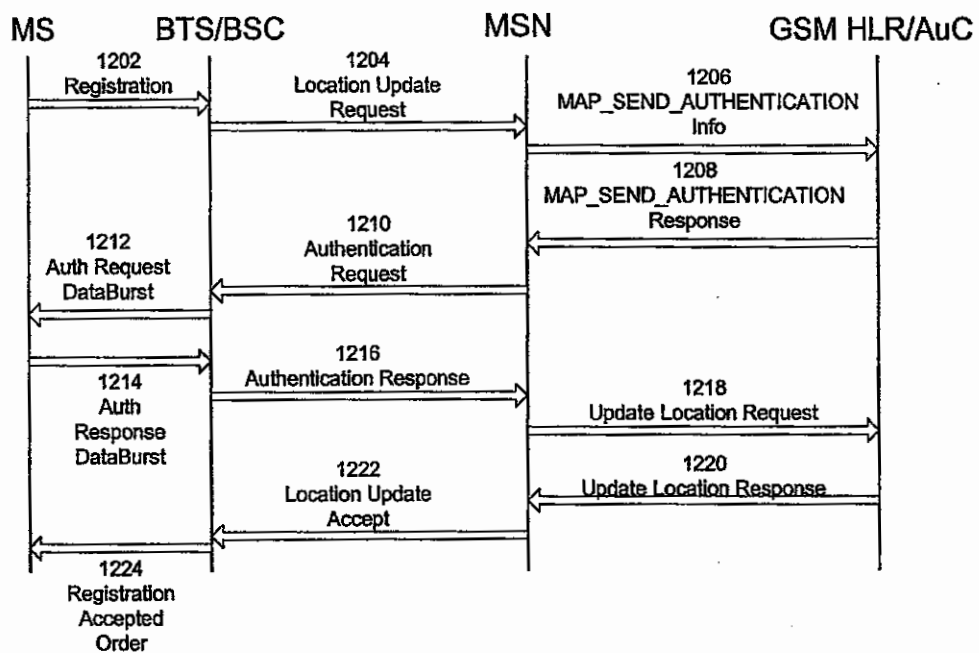
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Figure 11 - CDMA Key Generation



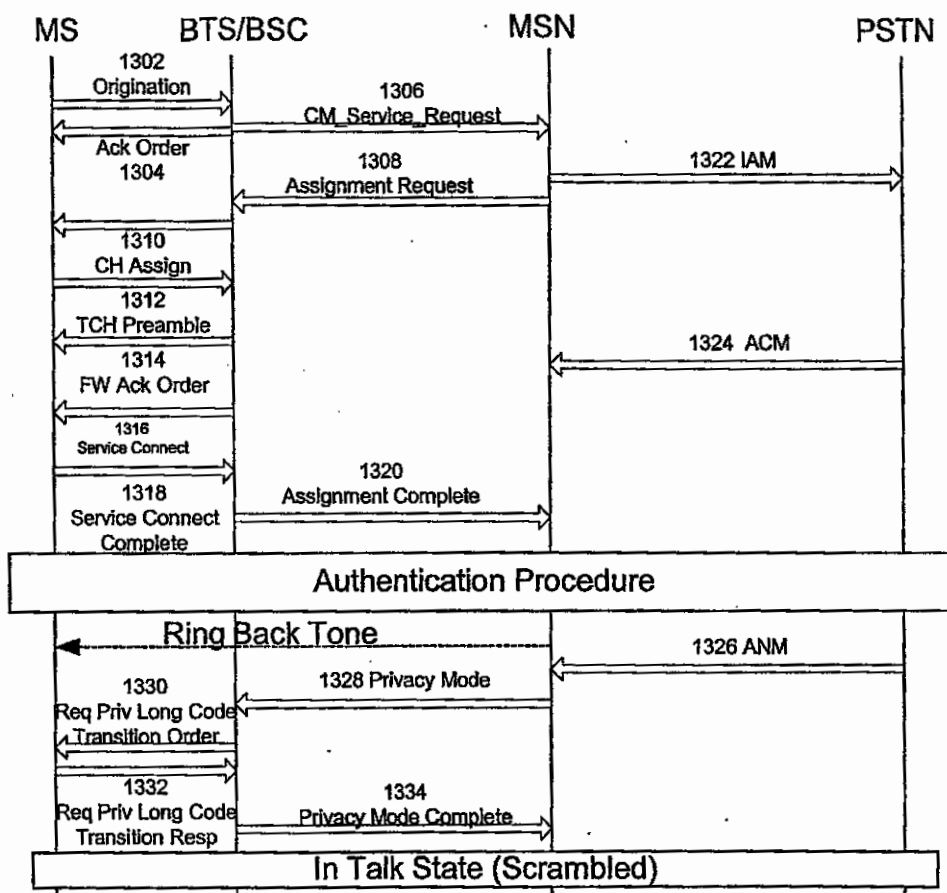
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Figure 12 - Message Flow during Registration



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Figure 13 - Message Flow during MO Call



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Figure 14 - Message Flow during MT Call

