

BAN modified Andrew Secure RPC

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Summary: Modified version of Andrew Secure RPC correcting a freshness flaw. Exchanged of a fresh shared key, Symmetric key cryptography.

Protocol specification (in common syntax)

```
A, B :          principal
Kab, K'ab :     symkey
Na, Nb, N'b :   nonce
succ :          nonce -> nonce

1.   A  -> B   :   A, {Na}Kab
2.   B  -> A   :   {succNa, Nb}Kab
3.   A  -> B   :   {succNb}Kab
4.   B  -> A   :   {K'ab, N'b, Na}Kab
```

Description of the protocol rules

The nonce N_a has been added to the message 4 of Andrew Secure RPC to prevent the flow presented in Andrew Secure RPC.

Requirements

See Andrew Secure RPC.

References

[BAN89]

See also

Andrew Secure RPC, BAN concrete Andrew Secure RPC, Lowe modified BAN concrete Andrew Secure RPC.

Citations

- [BAN89] Michael Burrows, Martin Abadi, and Roger Needham. A logic of authentication. Technical Report 39, Digital Systems Research Center, february 1989.