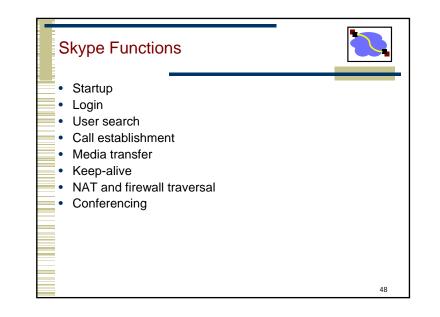


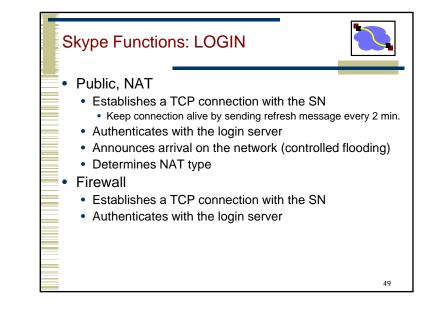




- We have NOT reverse engineered Skype executable but it can be done (Biondi and Desclaux)
- Skype version: Linux v1.2, Windows v1.4.0.84
- Experiments performed between June-July and Nov-Dec 2005
- Tools Used
 - Ethereal (for packet capture)
 - NetPeeker (for tuning per process bandwidth)
 - NCH Tone generator (for generating tones of various frequencies)
 - APIMonitor (for monitoring the system calls)
 - LD_PRELOAD: Linux shared library and system call interception
 - Skype fails to run with ltrace and strace

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Skype Functions: USER SEARCH



- From the Skype website
 - Guaranteed to find a user it exists and logged in the last 72 hours
- Search results are cached at intermediate nodes
- · Unable to trace messages beyond SN
- Cannot force a node to become a SN
 - Host cache is used for connection establishment and not for SN selection
- User does not exist. How does search terminate?
 Skype contacts login server for failed searches
- SN searches for a user behind UDP-restricted firewall
- Same wildcard (sal*) search query from two different machines initiated at the same time gives different results

Skype Functions: CALL [Strable Strable Strab

