

1 Demo4 Diagrams

1.1 Message Sequence Diagram

$A \rightarrow B : d, N_A, PCR_m$	on C_{AB}
$B \rightarrow T : make_and_load_identity$	on C_{BT}
$T \rightarrow B : AIK^+, AIK_h$	on C_{TB}
$B \rightarrow C : B, AIK^+$	on C_{BC}
$C \rightarrow B : \{K, AIK \}_{EK^+}, \{\{ AIK^+ \}_{CA^-} \}_{K^+}$	on C_{CB}
$B \rightarrow T : activate_identity(AIK_h, AIK)$	on C_{BT}
$T \rightarrow B : K$	on C_{TB}
$B \rightarrow M : d$	on C_{BM}
$M \rightarrow B : e$	on C_{MB}
$B \rightarrow T : quote(AIK_h, PCR_m, (e, N_A, \{ AIK^+ \}_{CA^-}))$	on C_{BT}
$T \rightarrow B : PCR_c, \{ PCR_c , (e, N_A, \{ AIK^+ \}_{CA^-}) \}_{AIK^-}$	on C_{TB}
$B \rightarrow A : e, N_A, PCR_c, \{ AIK^+ \}_{CA^-}$	on C_{BA}
$B \rightarrow A : \{ PCR_c , (e, N_A, \{ AIK^+ \}_{CA^-}) \}_{AIK^-}$	on C_{BA}

KEY

A:	Appraiser
B:	Attestation Agent
T:	TPM
C:	Certificate Authority
M:	Measurer
d :	desired evidence
e :	gathered evidence
N_A :	nonce generated by A
PCR_m :	pcr mask indicating desired pcr registers
PCR_c :	pcr composite structure containing select pcr register values
AIK_h :	AIK key handle(used by TPM to reference loaded keys)
K:	Session key created by C

1.2 Strand Space Diagram

