



ATS Inter-facility Data Communication (AIDC) Overview

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by

Aeronautical Radio of Thailand Ltd.
(AEROTHAI)

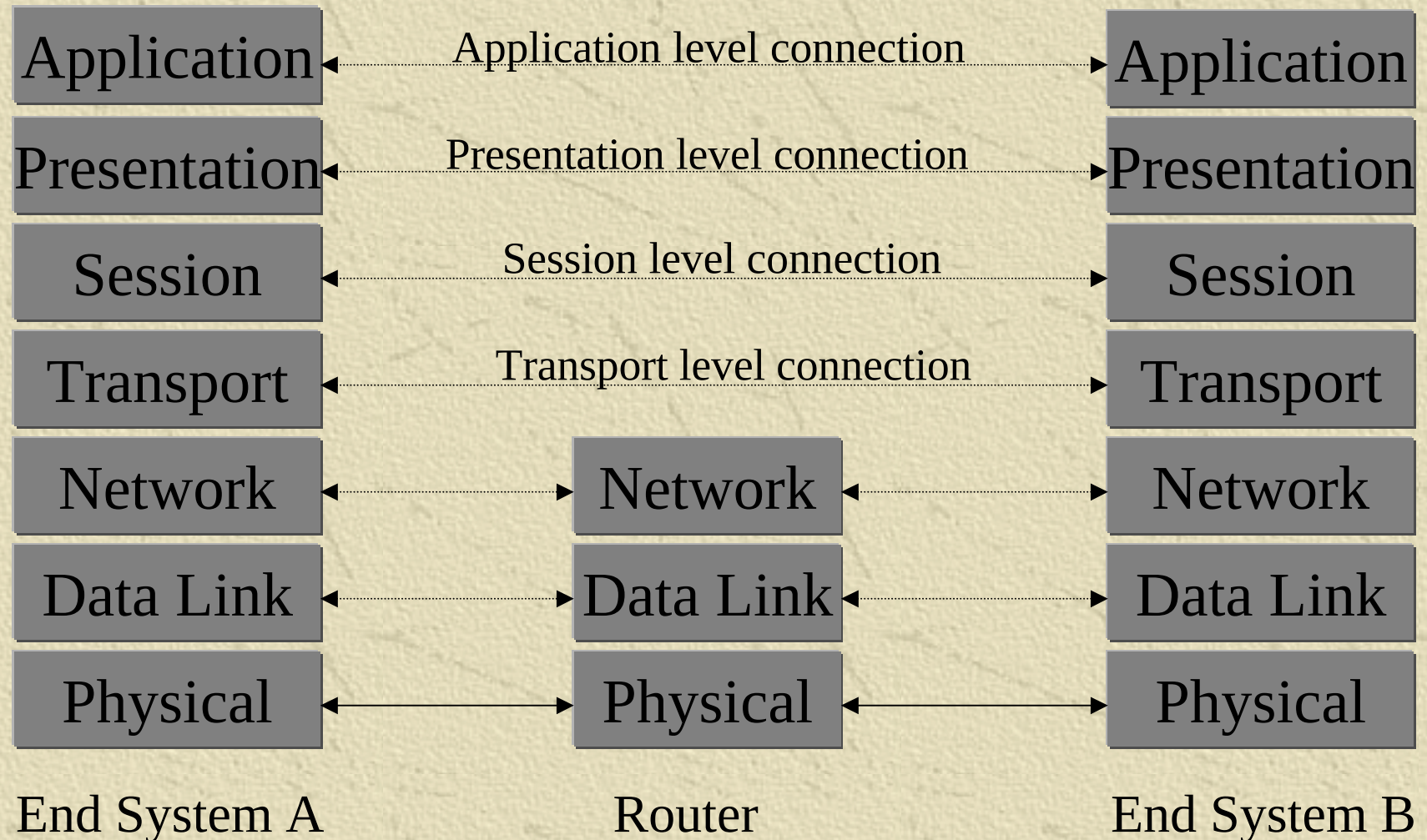
December 2001, Chiangmai, Thailand

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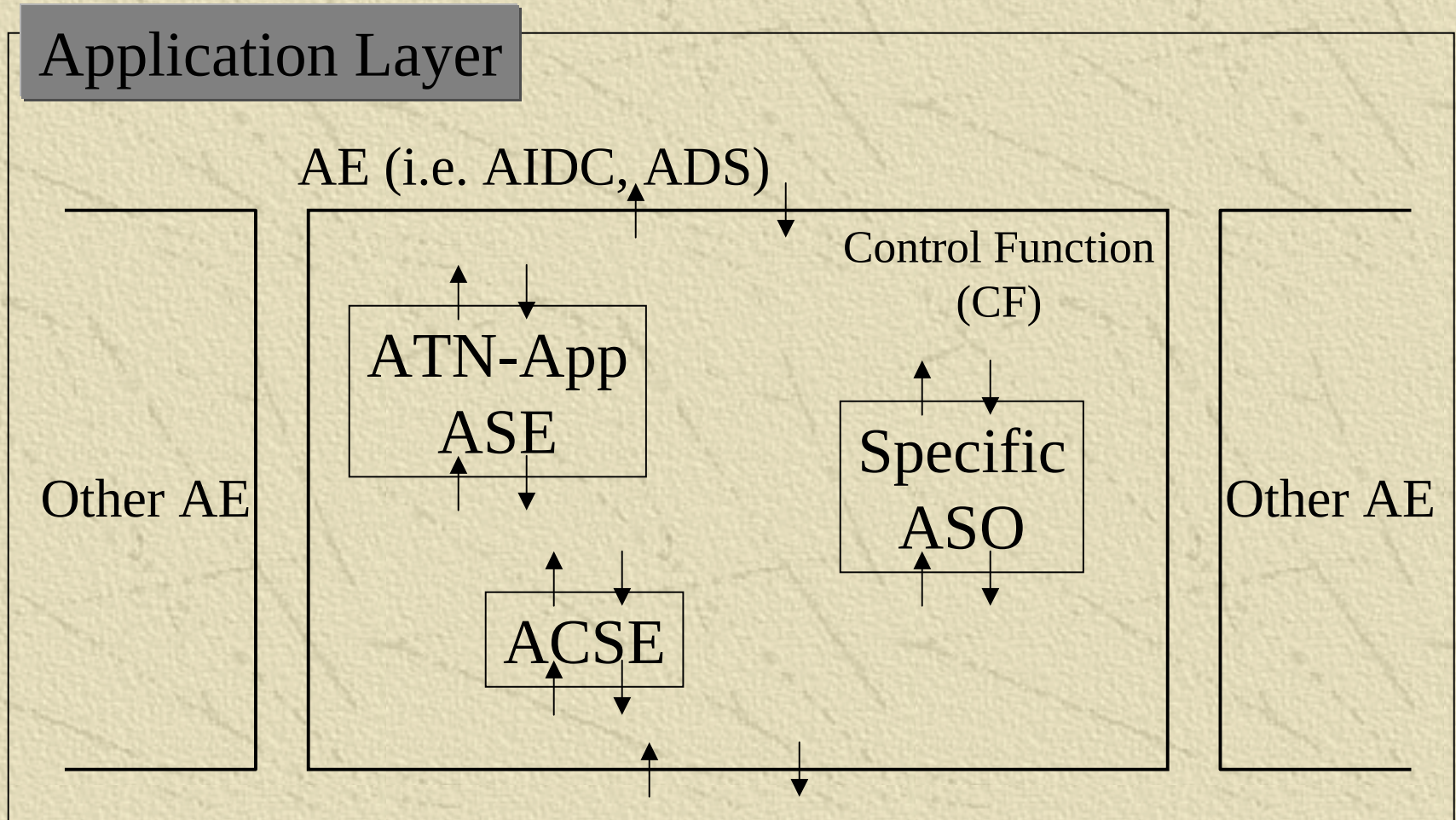
Components

- ✧ Communication part: Upper Layer Communication Services (ULCS)
- ✧ Application part: AIDC Application

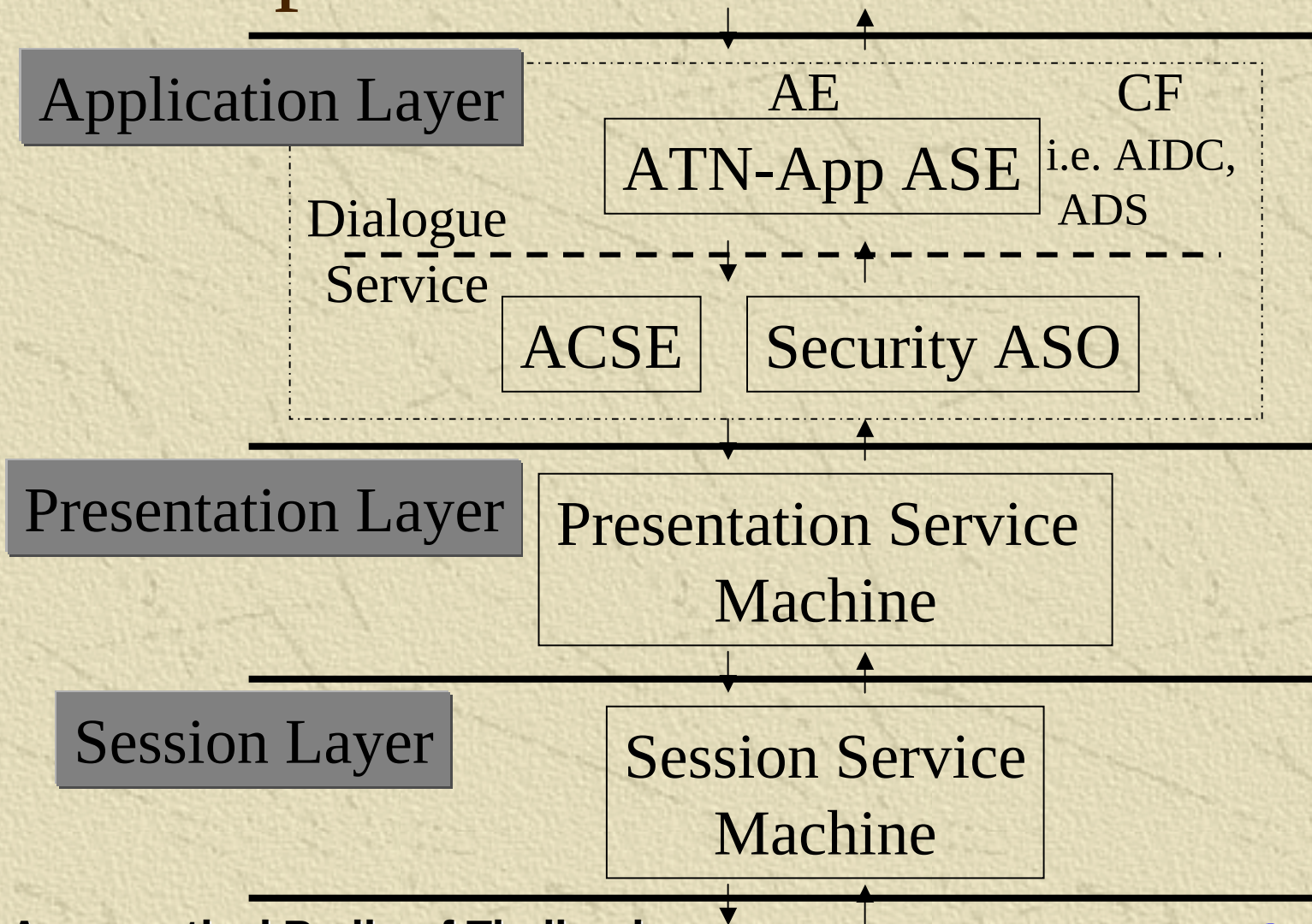
Definition: OSI Structure



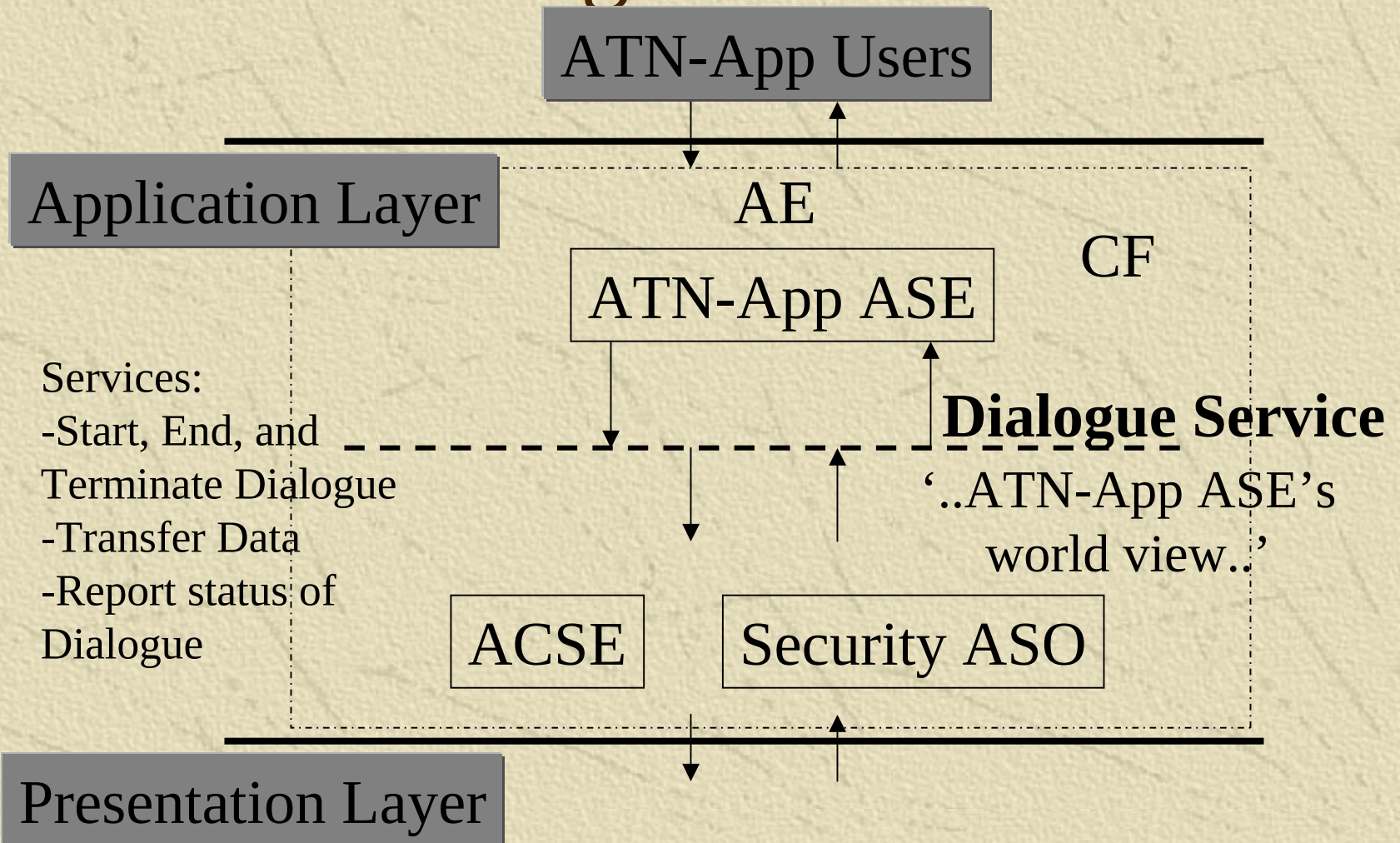
Definition: Application Entity (AE)



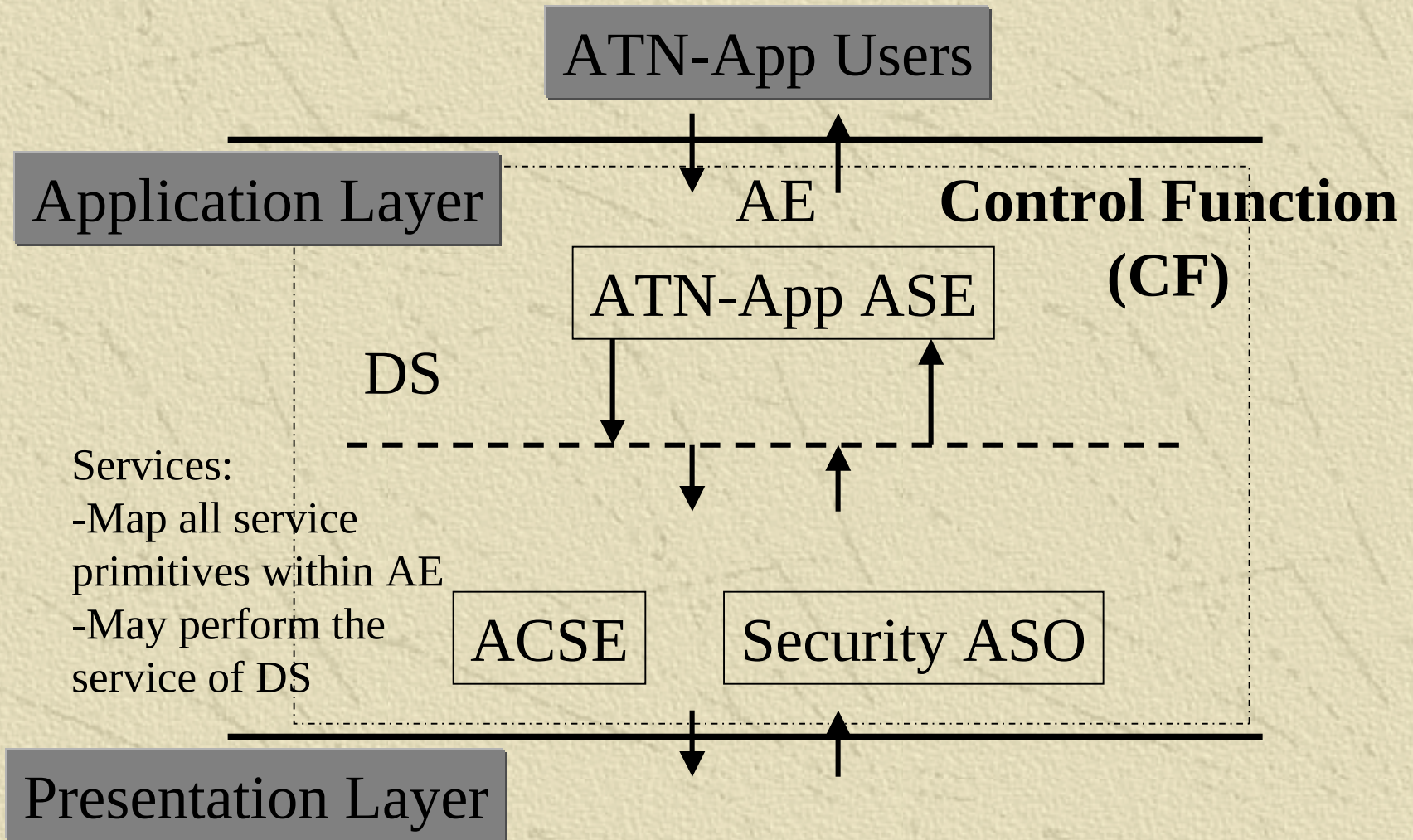
Components of ULCS Services



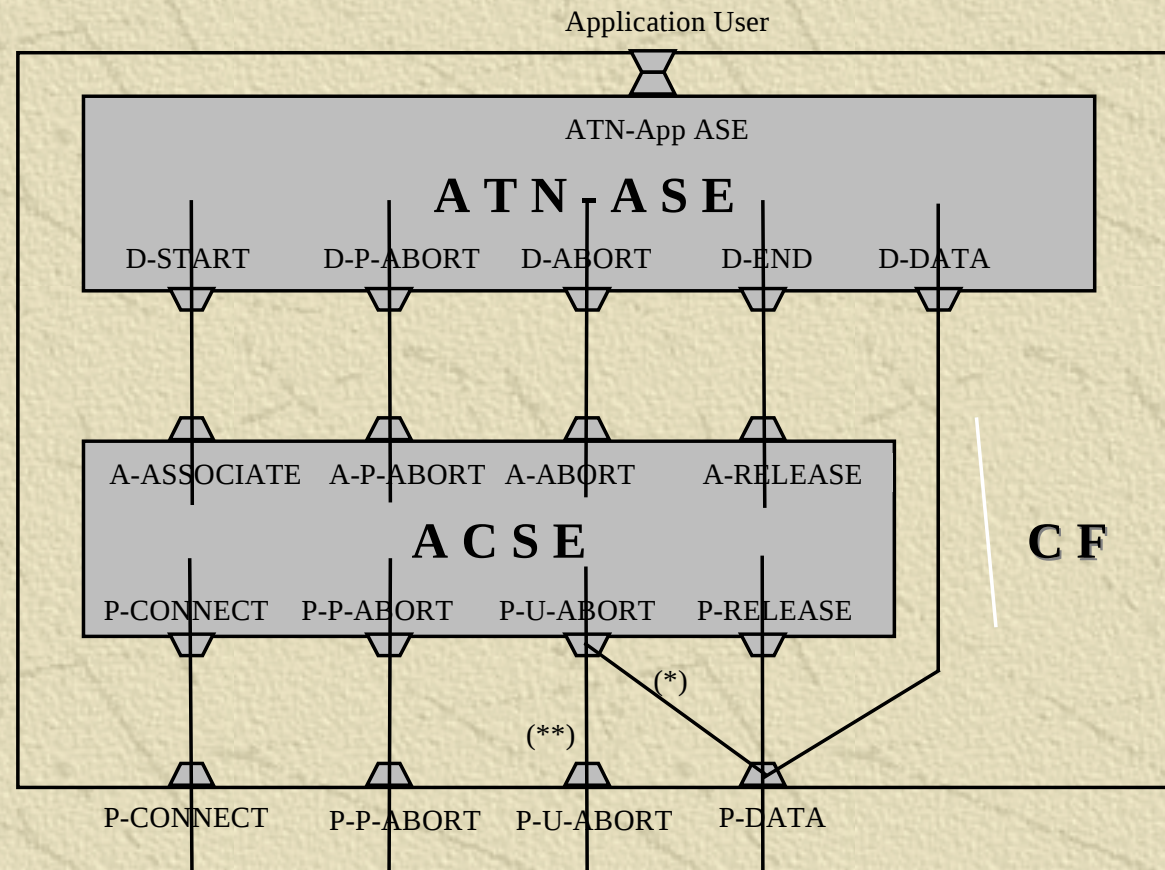
ULCS: Dialogue Service



ULCS: Control Function



ULCS: Control Function (cont')

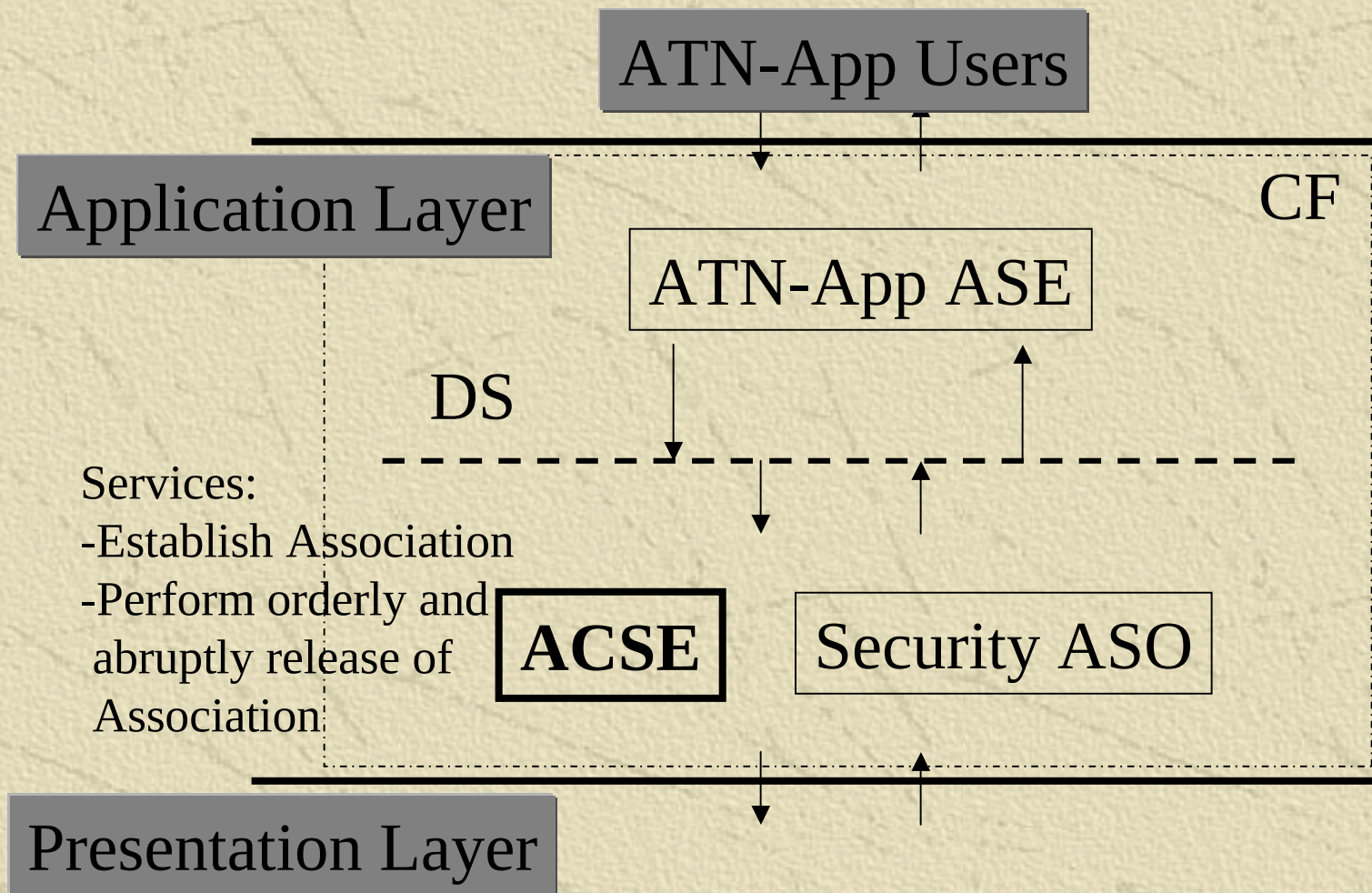


(*) user data in the abort

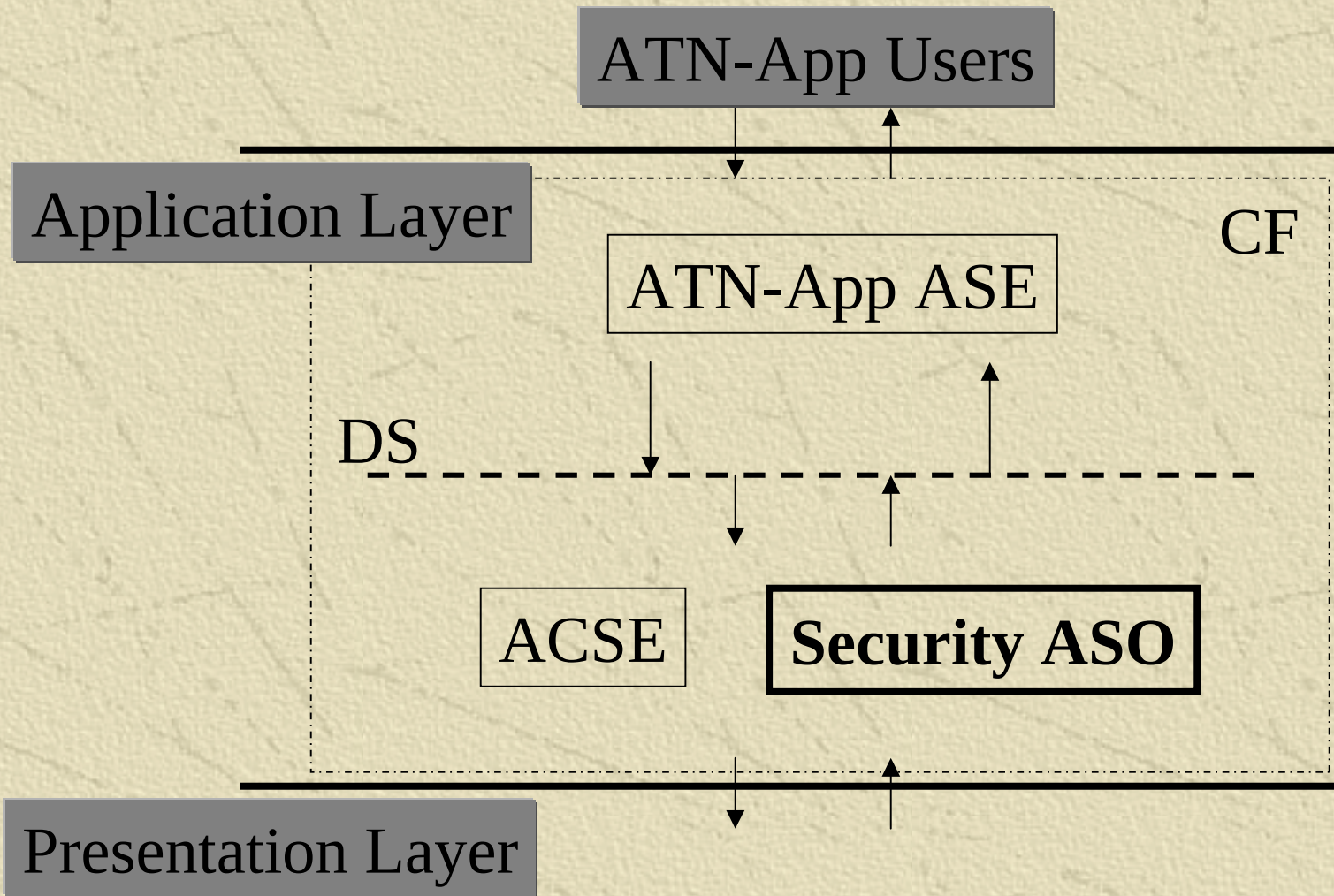
(**) no user data in the abort

Picture from Doc 9739 Guidance Material Chapter 2

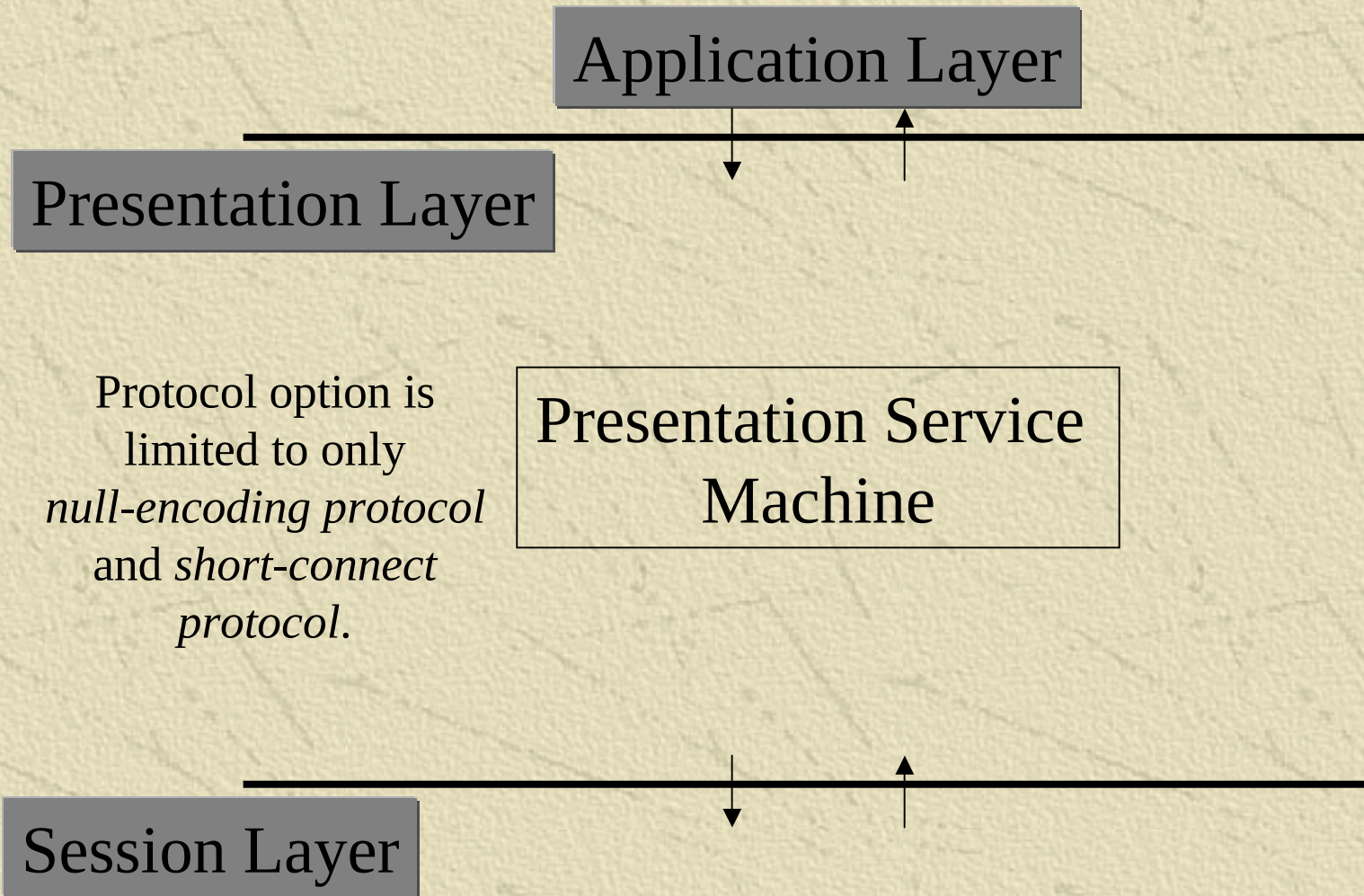
ULCS: Association Control Service Element ACSE



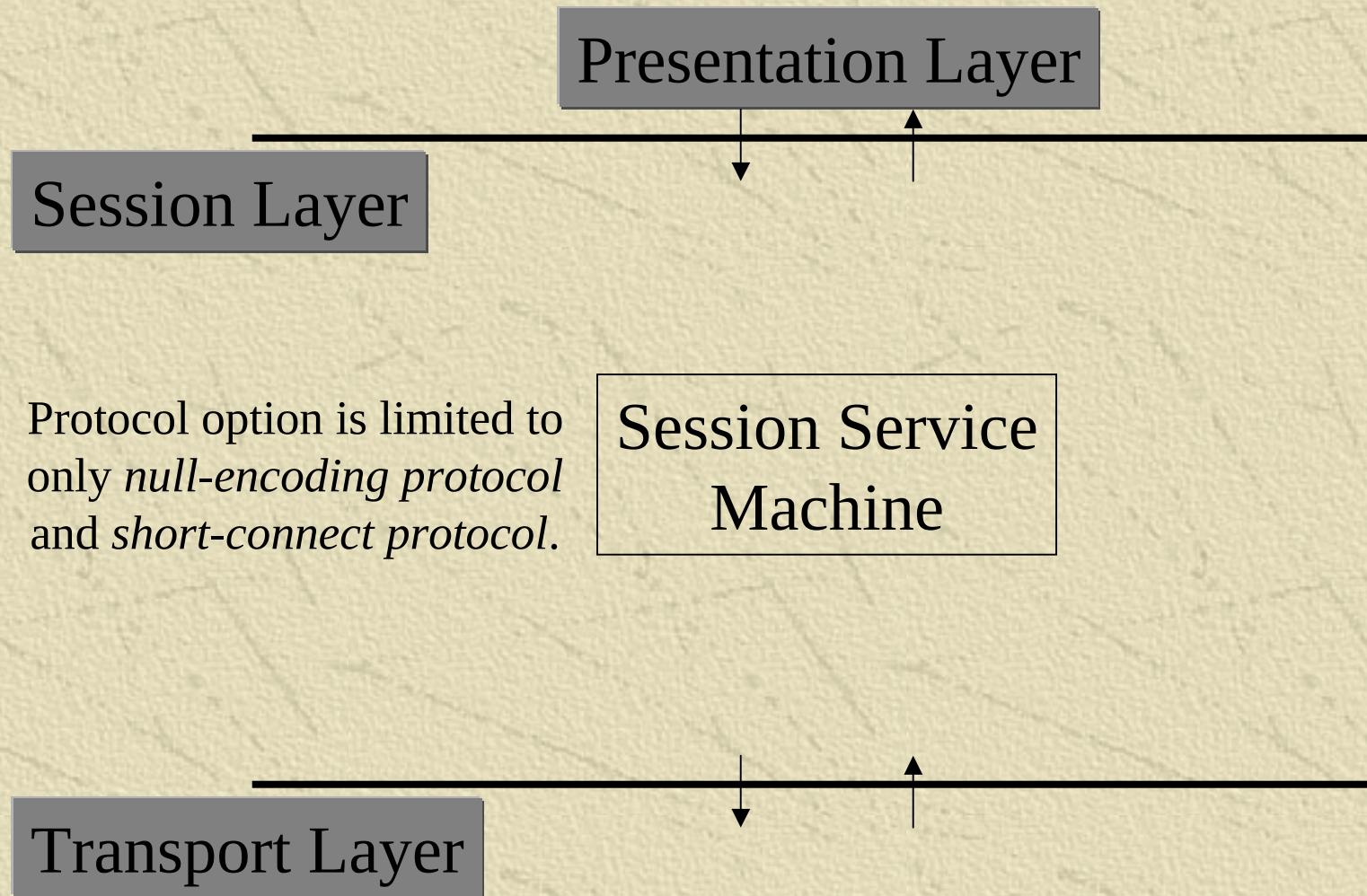
ULCS: Security ASO



ULCS: Presentation Service



ULCS: Session Service



ULCS: Session Service Protocol Option

✧ Null-encoding Protocol

- ◆ Permit a data transfer phase with **zero** session protocol control information (PCI).
- ◆ Lack the ability to signal the orderly release of the session connection.

✧ Short-connect Protocol

- ◆ Used to negotiate protocol options i.e. for null-encoding protocol
- ◆ May use one byte PCI during negotiation.



END ULCS Presentation