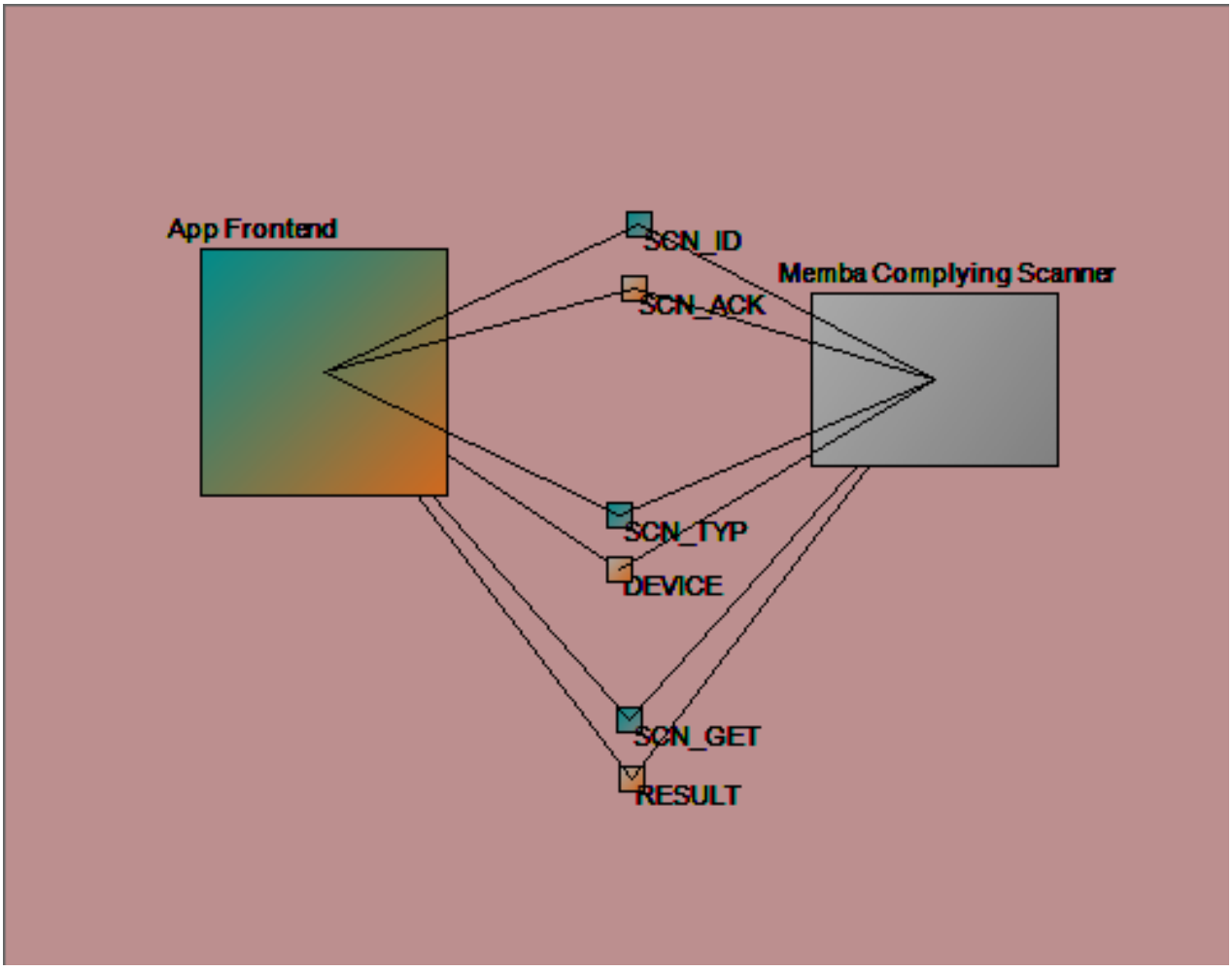
# Memba Complying Reader Specification

The following document is meant to serve as an implementation guide for a MembaReader complying device.

The reader may be any device capable of scanning a code of any technology, using the provided protocol.

Upon getting a response, the buffers should be cleared before the next command.




Any frontend implementing the protocol should be capable of conversing with a Memba complying scanner. The commands may be of any type, provided that they are distinct, though suggestions may be provided:

SCN_ID (Frontend>Scanner): The frontend sends this request to all available devices at varying baud rates, expecting a SCN_ACK, after a set amount of time. Suggested waiting time for the SCN_ACK is low, as this is a simple check to verify the device complies with the protocol.

SCN_ACK (Scanner>Frontend): This is a response meant to acknowledge that the prompted device understands the protocol.

SCN_TYP (Frontend>Scanner): The frontend gathers information regarding the device type. It is a good idea to recheck the device type before a SCN_GET to prevent issues if multiple compliant devices are used. Suggested waiting time is medium as the DEVICE may be a human-readable string of text.

DEVICE (Scanner>Frontend): Explains the technology of the scanner. May be a human readable text string, but any type will suffice. Meant to prevent conflicts when 2 technologies read 2 different codes as a same key.

SCN_GET (Frontend>Scanner): A request to scan the code is sent. Waiting time should be high as scanning may require human input.

RESULT (Scanner>Frontend): The result of a scan. Together with DEVICE should be enough to identify each entity.

Implementing the above specified protocol allows any technologies to be used in a implementation of a valid MembaReader.