

ABSTRACT

SYSTEM AND METHOD FOR CONTEXT AWARE NETWORK FILTERING

In general, certain examples of the present disclosure provide techniques or mechanisms for automatically filtering network messages in an aviation network for an aircraft based on a current system context. According to various examples, a method is provided comprising receiving a network message transmitted from a source avionic device to a destination avionic device via one or more network packets within the aviation network. A current system context, indicating an aggregate status of avionic devices within the aviation network, is determined based on monitoring the avionic devices. The network message is analyzed by identifying a plurality of attributes corresponding to header and data fields of the one or more network packets corresponding to the network message. The acceptability of the network message within the current system context is determined based on one or more filter rules that specify what attributes are allowed within a particular system context.

Figure 1A