ATAK UAS Tool PX4 and APM Support – MAVLink Messages 9/12/2024:

MAVLINK_MSG_ID_HEARTBEAT
MAVLINK_MSG_ID_TIMESYNC
MAVLINK_MSG_ID_HOME_POSITION
MAVLINK_MSG_ID_GLOBAL_POSITION_INT
MAVLINK_MSG_ID_MISSION_REQUEST_INT
MAVLINK_MSG_ID_MISSION_ACK
MAVLINK_MSG_ID_COMMAND_ACK
MAVLINK_MSG_ID_STATUSTEXT
MAVLINK_MSG_ID_AUTOPILOT_VERSION
MAVLINK_MSG_ID_RADIO_STATUS
MAVLINK_MSG_ID_MISSION_ITEM_REACHED
MAVLINK_MSG_ID_SET_MODE
MAVLINK_MSG_ID_PARAM_VALUE
MAVLINK_MSG_ID_PARAM_EXT_VALUE
MAVLINK_MSG_ID_PARAM_EXT_REQUEST_LIST
MAVLINK_MSG_ID_PARAM_EXT_SET
MAVLINK_MSG_ID_GLOBAL_POSITION_INT
MAVLINK_MSG_ID_MISSION_REQUEST
MAVLINK_MSG_ID_MISSION_REQUEST_INT
MAVLINK_MSG_ID_MISSION_ITEM_INT
MAVLINK_MSG_ID_MISSION_ITEM
MAVLINK_MSG_ID_MISSION_ACK
MAVLINK_MSG_ID_COMMAND_ACK
MAVLINK_MSG_ID_COMMAND_INT
MAVLINK_MSG_ID_COMMAND_LONG
MAVLINK_MSG_ID_EXTENDED_SYS_STATE
MAVLINK_MSG_ID_MANUAL_CONTROL

MAV_CMD_NAV_TAKEOFF
MAV_CMD_COMPONENT_ARM_DISARM
MAV_CMD_NAV_RETURN_TO_LAUNCH
MAV_CMD_REQUEST_PROTOCOL_VERSION
MAV_CMD_REQUEST_AUTOPILOT_CAPABILITIES
MAV_CMD_DO_MOUNT_CONTROL
MAV_CMD_DO_SET_ROI_NONE
MAV_CMD_DO_SET_ROI_LOCATION
MAV_CMD_DO_SET_HOME
MAV_CMD_DO_REPOSITION
MAV_CMD_DO_ORBIT
MAV_CMD_NAV_WAYPOINT
MAV_CMD_DO_CHANGE_SPEED
MAV_CMD_NAV_LAND
MAV_CMD_RESET_CAMERA_SETTINGS
MAV_CMD_REQUEST_VIDEO_STREAM_STATUS
MAV_CMD_REQUEST_CAMERA_INFORMATION
MAV_CMD_REQUEST_VIDEO_STREAM_INFORMATION

MAV_CMD_VIDEO_START_STREAMING
MAV_CMD_VIDEO_STOP_STREAMING
MAV_CMD_SEND_GIMBAL_PITCHYAW

*Note:

ATAK UAS Tool makes use of MAVLink Common Dialect (https://mavlink.io/en/) and some portions of the Camera Microservice (https://mavlink.io/en/services/camera_def.html) and the Gimbal Protocol v2 (https://mavlink.io/en/services/gimbal_v2.html).

ATAK UAS Tool follows RAS-A IOP where possible (see https://github.com/Dronecode/air-iop-definitions)

If you find deficiencies in the MAVLink support please email concerns to support@tak.gov