# MQTT TOPICS WITH PROTOBUF MESSAGE FORMAT

**User synchronization:**

AMS device requests for users to the platform by giving its client Id in message.

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| AMS publishes to topic | sync/users/request |

PROTO FORMAT:

message SyncRequest{

String clientId = 1

}

AMS device receives list of users which are not synced to the device.

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| AMS subscribes to topic | ams/sync/users/{clientId} |

PROTO FORMAT:

message UserSyncResponse {

message User {

int64 userId = 1;

string username = 2;

string fullname = 3;

string email = 4;

string password = 5;

string countryCode = 6;

string phone = 7;

string department = 8;

string designation = 9;

string status = 10;

string createdOn = 11;

string updatedOn = 12;

message Roles {

int64 roleId = 1;

string roleDesc = 2;

}

repeated Roles roles = 13;

message Manager {

int64 userId = 1;

string email = 2;

string fullname = 3;

string username = 4;

string phone = 6;

string countryCode = 7;

}

Manager manager = 14;

}

repeated User user = 1;

}

AMS device sends acknowledgement to the platform when it receives response from the platform.

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| AMS publishes acknowledgement to topic | sync/ack/users |

PROTO FORMAT:

message AmsSyncAck {

String clientId = 1;

bool received = 2;

}

NOTE: If users received successfully, received field in the message is set to true, else set to false.

AMS device receives response from the platform if users are already synced.

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| AMS subscribes to topic | response/users/{clientId} |

PROTO FORMAT:

message ResponseMessage {

string message = 1;

}