

General description

Logging messages (strings) of format NMEA-0183 (<https://nl.wikipedia.org/wiki/NMEA-0183>)

We use ASCII extended and in .NET the encoding: `Encoding.GetEncoding(437)`;

Currently with only the extended characters '0xFE' and '0xFF'

MessageHistoryTypeId enum

```
public enum MessageHistoryTypeId
{
    None = 0,
    IotGatewayMessageSent = 1,
    IotGatewayMessageReceived = 2,
}
```

MessageHistory class

```
public class MessageHistory
{
    // Message History Identifier
    [Key]
    [DatabaseGenerated(DatabaseGeneratedOption.Identity)]
    public long Id { get; set; }
    public MessageHistoryTypeId TypeId { get; set; }

    // Message
    public DateTime MessageSentDateTimeUtc { get; set; }
    public DateTime MessageReceivedDateTimeUtc { get; set; }
    public string MessageTypeId { get; set; }
    public string Message { get; set; }

    // Message Sender
    public string MessageSenderType { get; set; }
    public string MessageSenderId { get; set; }

    // Message Destination
    public string MessageDestinationType { get; set; }
    public string MessageDestinationId { get; set; }
}
```

Saving data with the DbContext

```
this.DbContext.Set<MessageHistory>().AddRange(entities);
await this.DbContext.SaveChangesAsync();
```