

Introduction

This application note describes how the EpiSensor Gateway interprets the status codes returned from the server after an attempted data export via HTTP(S). It is important that the HTTP(S) server returns the correct error to indicate why the transport failed. For example, returning 4XX error codes when there is a server-side problem could cause the Gateway to retry an export that will consistently fail, disrupting the normal flow of data.

The EpiSensor Gateway exports data via HTTP in both “RKDAP” and “EpiSensor JSON” formats. The same status code handling applies to both formats. This status code handling applies from Gateway Software Version V04.01.00.00 and onwards.

Related Documents

Related installation and configuration documents are listed in the following table:

Document	Reference No.
EpiSensor NGR-30-3 Datasheet	EPI-102-00
EpiSensor NGR-30-5 Datasheet	EPI-077-00
Gateway API User Guide	ESE-009-08

Pre-Export Checks

The Gateway will validate the JSON before export. This however will not prevent against data corruption during export. The Gateway will not export an empty data array. The Gateway will not export an empty file (explicit check for this will be included from Gateway software release V04.01.00.01 onwards).

Successful (2xx) Codes

Code	Meaning	Gateway Interpretation
200	OK	Export Successful

201	Created	Export Successful
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Client Error (4xx) Codes

Code	Meaning	Gateway Interpretation
400	Bad Request	Export was not successful but the Gateway will retry to export this data at a later time. This will account for headers and payloads which were corrupted during transport between client and server.
406	Not Acceptable	Export was not successful because the data is not acceptable. The Gateway will NOT attempt to export this data at a later time. The data file will be moved to quarantine in the "data file archive".
All other 4XX	Other Client Side Errors	Export was not successful, but the Gateway will retry to export this data at a later time. This will account for headers and payloads which were corrupted during transport between client and server.

Server Error (5xx) Codes

Code	Meaning	Gateway Interpretation
5xx	Server Side Errors	Export was not successful but the Gateway will retry to export this data at a later time. This will account for headers and payloads which were corrupted during transport between client and server.

Other Error Codes

The Gateway does not expect 1xx (Informational) or 3xx (Redirection) status codes to be returned. In the case that they are returned the Gateway will treat this as "export failed" and retry the export later.