hData

What is hData?

hData is a specification for capturing, managing, and exchanging electronic health data.
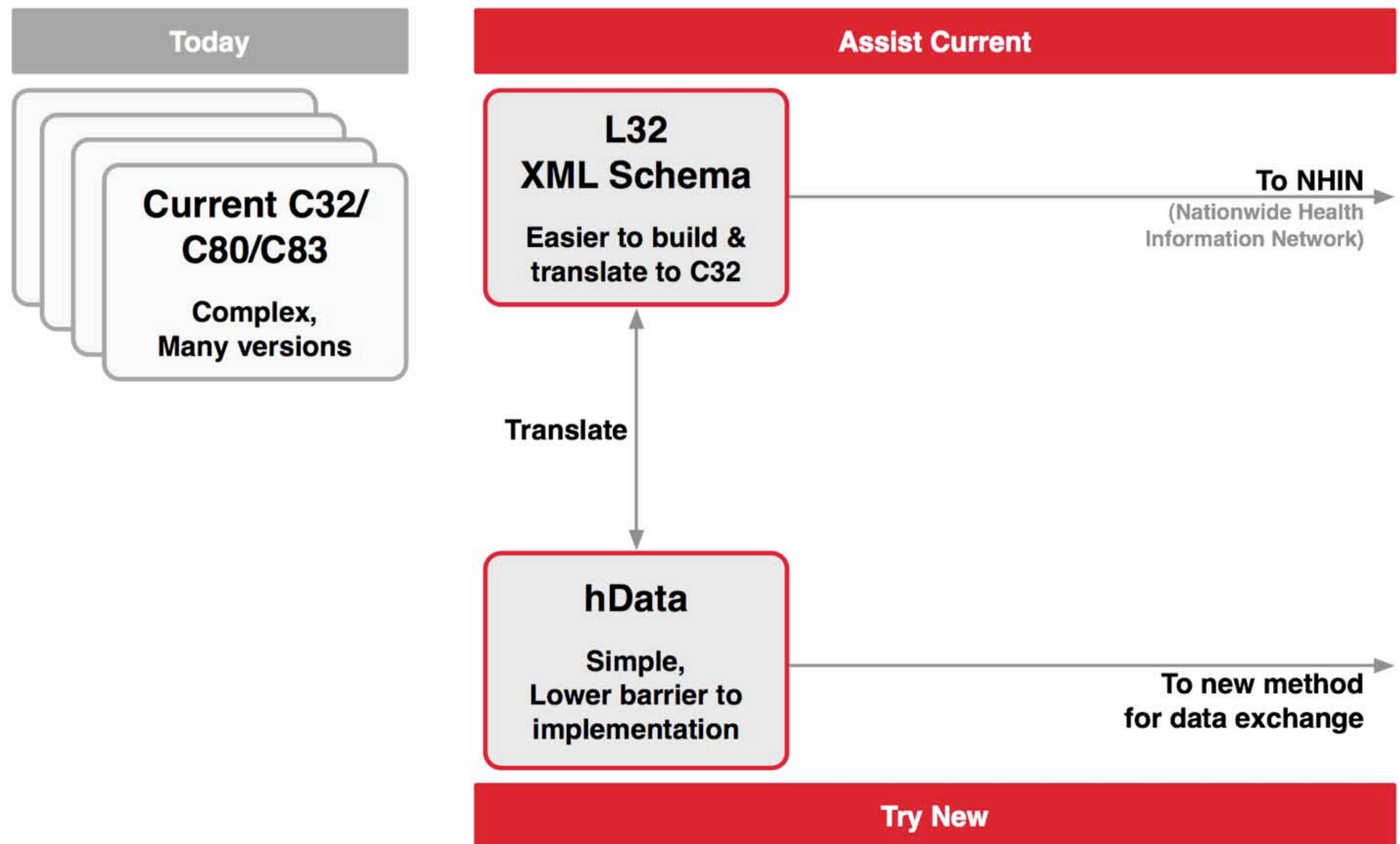
What is the objective of hData?

Current electronic health data standards are overly complex, hard to implement, and difficult to manage. hData is a simple XML-based, flexible framework that addresses these issues and lays the foundation for efficient health IT technologies.
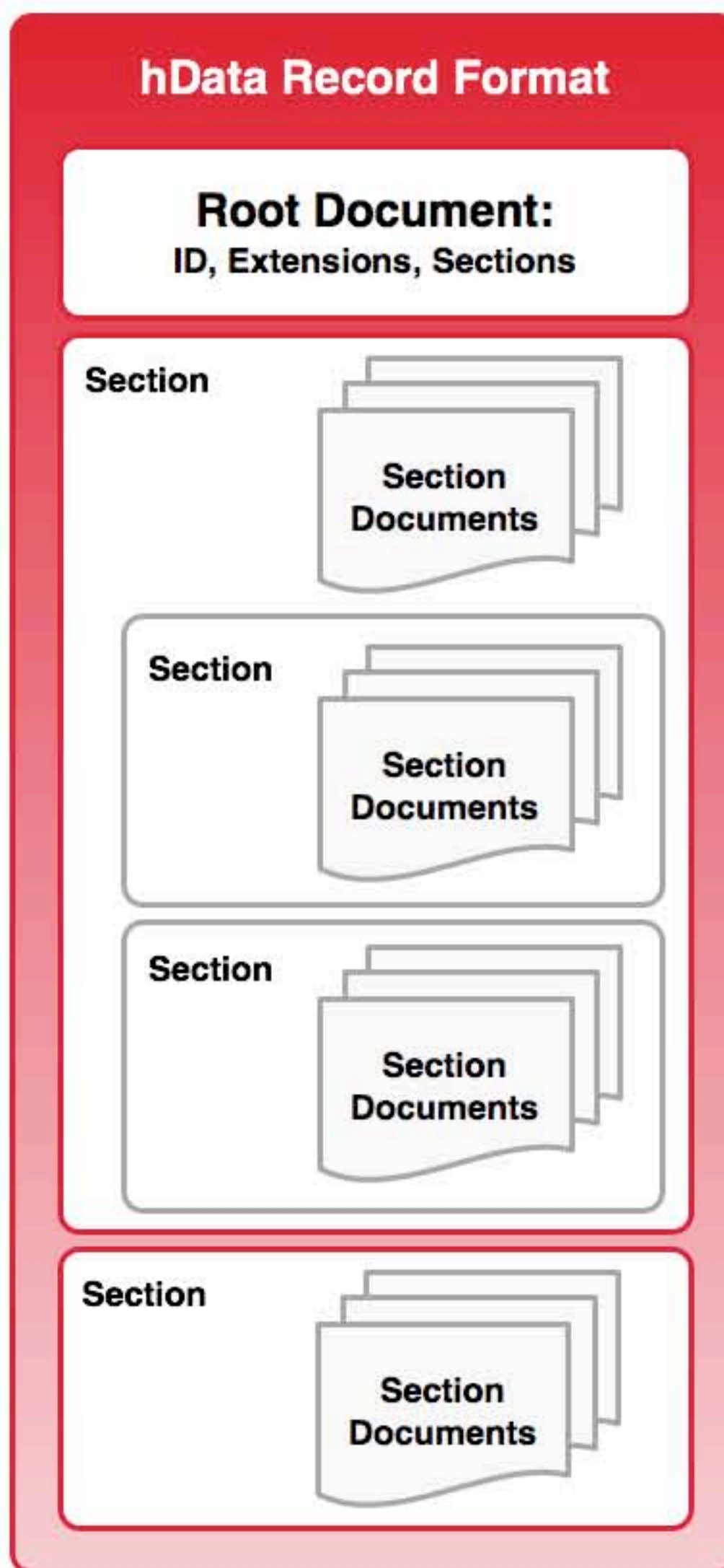
What is the hData design philosophy?

hData is designed for ease of implementation and improved efficiency by reducing the size of the data set, implementing a single way to represent data, and using standard XML best practices.

For more information, visit us at: **http://www.projecthdata.org**.

Today	Assist Current

Current C32/ C80/C83

Complex, Many versions

L32 XML Schema

Easier to build & translate to C32

To NHIN
(Nationwide Health Information Network)

Translate

hData

Simple, Lower barrier to implementation

To new method for data exchange

Try New

Parallel approach offers alternatives to speed interoperability

hData Record Format (HRF)

hData Record Format

Root Document:
ID, Extensions, Sections

Section
Section Documents

Section
Section Documents

Section
Section Documents

Section
Section Documents

Extensions contain types that MAY be within the HDR

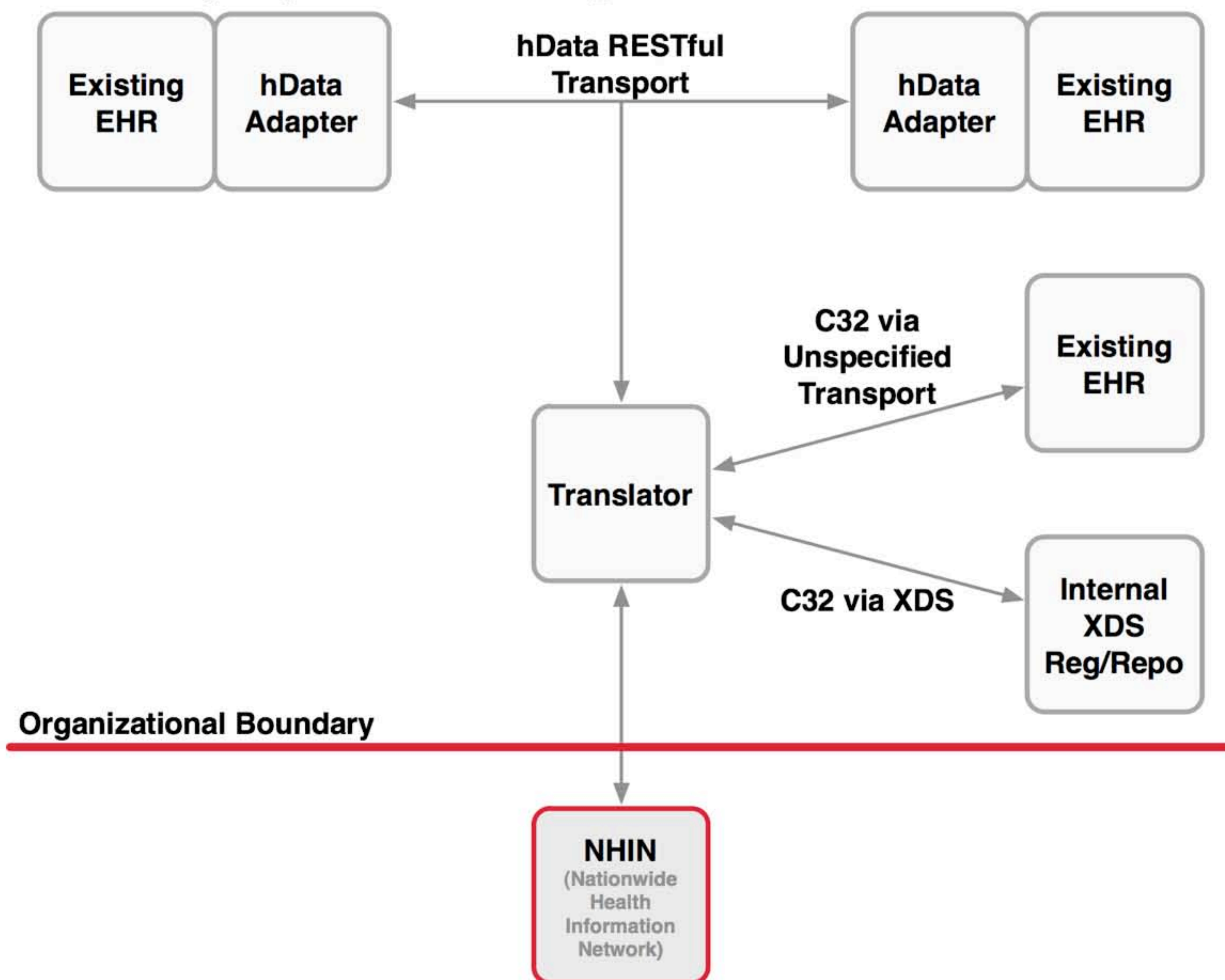Sections contain location where documents are within HDR

Sections can contain subsections

Example hData Root Document

```
<root xmlns="http://projecthdata.org/hdata/schemas/2009/06/core">
  <documentId>c64e620d-f648-4531-9703-14b37afefc2c</documentId>
  <version>0.1</version>
  <created>2009-07-12-04:00</created>
  <lastModified>2009-07-12-04:00</lastModified>
  <extensions>
    <extension requirement="mandatory">
      http://projecthdata.org/hdata/schemas/2009/09/patient_information
    </extension>
    <extension requirement="mandatory">urn:empty</extension>
    <extension requirement="mandatory">
      http://projecthdata.org/hdata/schemas/2009/06/allergy
    </extension>
  </extensions>
  <sections>
    <section
        typeId="http://projecthdata.org/hdata/schemas/2009/09/patient_information"
        name="Patient Information" path="patientinformation"/>
    <section
        typeId="urn:empty"
        name="Adverse Reactions" path="adversereactions">
      <section
          typeId="http://projecthdata.org/hdata/schemas/2009/06/allergy"
          name="Allergies" path="allergies"/>
    </section>
  </sections>
</root>
```

hData

hData Deployment & Integration

| Existing EHR | hData Adapter | hData RESTful Transport | hData Adapter | Existing EHR |

Translator

C32 via Unspecified Transport → **Existing EHR**

C32 via XDS → **Internal XDS Reg/Repo**

Organizational Boundary

NHIN (Nationwide Health Information Network)

Patient-Centric EHRs Using hData

HDRs discoverable through XRD, HDRs can use ProtectServe Relationship Manager for access authorization

Discovery & Authorization Service (DAS)

Access Policies

XRD

HDR — Insurance Company

HDR — Hospital A

HDR — Physician B

3. Returns list of authorized HDR System endpoints

0. Configures

2. Queries for existing HDRs

4. Requests resource, initiates ProtectServe protocol

1. Points to Discovery and Authorization Service

EHR System

Specialist C

hData