AIDX is the XML messaging standard for exchange of flight-related information in the operational window of a flight.

It is endorsed as a standard by:

- ACI Recommended Practice 501A07
- ATA Recommended Practice 30.201A
- IATA Recommended Practice 1797A

AIDX was developed through an international effort to standardise the format of data pertaining to the exchange of information concerning Operational Flight Legs, between Airlines, Airports and Aviation Industry service providers. Prior to the release of AIDX, and in the absence of any standard, a plethora of custom message formats was developed to satisfy the needs of stakeholders with data requirements exceeding the IATA AMH (Airport Handling Manual) MVT (Movement) message. The goal for the working group in developing AIDX was to identify the common data in use, and to draw it into a standard.

The initial development of the AIDX XML schema took place between 2005 and 2008 and involved over 80 Airlines, Airports and Vendors. The schema uses IATA codesets; however provision has been made for the use of ICAO Airport, Airline and Aircraft identifiers. The schema, which was initially launched in October 2008, currently comprises 95 distinct data elements, covering multiple aspects of Operational Flight Legs such as:

- Flight Identification
- Codeshare
- Line of Work
- Operational Times
- Disruption Detail
- Status and Remarks
- Airport Resource Requirement
- Passenger, Baggage, Fuel, Cargo statistics
- Aircraft Detail

The standard is maintained and developed by the AIDX Working Group (aidx@iata.org) that is governed by the Airport Services Committee that goes into the Passenger Services Conference. The XML Schemas reside with IATA PADIS (Passenger and Airport Data Interchange Standards).

A considerable focus of the AIDX development was to address a thorough set of disruption use cases. Stakeholders identified typical issues with disruption seen in custom messaging, and designed the AIDX schema to resolve these issues and satisfy the disruption use cases.

The current release of AIDX supports SESAR A-CDM (Airport Collaborative Decision Making) Operational Time and Status. The AIDX working group continues to work with SESAR to ensure that the schema will support A-CDM as it evolves. The ACI ACRIS (Airport Community Recommended Information Services) is using AIDX as a payload for services addressing A-CDM.

There are many implementations of AIDX globally, involving multiple Airlines, Airports, Service Providers and Vendors. It was envisaged that AIDX implementations would typically address a few days around a Flight Leg operation date; however there are current implementations that have extended AIDX messaging considerably beyond this temporal scope.

It is envisaged to migrate the AIDX standard into the IATA Industry Data Model. In order to make that happen all AIDX data elements and attributes need to be modelled in the IATA Industry Data Model. This effort is envisaged to commence with the arrival of a backward incompatible change request.