

XPression DataLinq™ and Scoreboard Sources

XPression DataLinq

DataLinq enables live templates to be automatically filled with external data from XML files, RSS feeds, SMS servers, Text and JSON files, or any ODBC data source, such as Microsoft Access, Microsoft SQL, InterBase, Firebird, MySQL, and common scoreboard vendor interfaces.

The XPression DataLinq Server software runs on either the XPression engine itself, or for more complex installations, users will install the DataLinq server software on one or more other computer systems in the facility. Using the XPression DataLinq Manager, objects in an XPression project running on an XPression real-time render engine with the DataLinq option can link to any of the external data sources gathered by the connected DataLinq servers. Some DataLinq sources require a subscription from the listed providers.

Available DataLinq Sources

The available types of DataLinq sources are as follows:

- **ADODB DataLinq Source** - access data contained in an ADODB (OLEDB, ODBC, Access, Excel and other databases) sources. This source allows users to form SQL queries within their graphics templates to search and sort data from a variety of database types.
- **Amtote DataLinq Source** - access data from an Amtote serial data source.
- **ANC DataLinq Source** - access data contained in ANC streaming scoreboard protocols.
- **ASCII DataLinq Source** - access streamed ASCII data sources. Multiple message parsing supported over the same port using table presets feature.
- **Bodet Scorepad Source** - Access data from the Bodet Scorepad for a variety of common sports.
- **Captioning DataLinq Source** - access streamed caption data sources.
- **Colorado Time Systems Scoreboards DataLinq Source** - access Colorado Timing Systems data sources.
- **Daktronics DataLinq Source** - access data from the Daktronics TV Feed sports feed database.
- **Daktronics RTD DataLinq Source** - access to Daktronics RTD streaming data protocol. (Separate ITF files required to parse incoming data, based on sport).
- **DashBoard DataLinq Source** - access data from a DashBoard server.
- **Electro-Mech Scoreboards DataLinq Source** - access data from the Electro-Mech Scoreboards football or hockey/lacrosse data source.
- **Genius Live Stream DataLinq Source** - access to the Genius API Sports Live Stream.
- **Genius Sports InArena DataLinq Source** - access to the Genius Sports InArena Data over TCP.

- **GSIS DataLinq Source (Legacy)** - access data from the NFL Game Statistics & Information System. (GSIS is now integrated via the XML DataLinq source). NFL NextGen Stats is REST via HTTP DataLinq™ (JSON).
- **JSON DataLinq Source** - access JSON data files.
- **NBA NGSS DataLinq Source** - access data from the NBA NGSS stats API.
- **NHL Hits DataLinq Source** - access streamed NHL Hits Scoreboard Feed data source.
- **OES Scoreboards DataLinq Source** - access data from the OES Football, Lacrosse, Baseball Model7929, Basketball, Hockey, Soccer, Volleyball, Wrestling, Baseball ISC9000Std, or Baseball ISC9000 Pro feeds.
- **RSS / HTTP DataLinq Source** - Access to variety of data via HTTP endpoints. RSS, XML, JSON, and text. Allows users to access data using one or more static or dynamic URLs. A variety of authentication methods are also supported (OAuth2, customizable headers, body messages). Integration with REST APIs is achieved using this DataLinq source.
- **Sportech DataLinq Source** - access data from a Sportech serial data source.
- **Stats Perform API DataLinq Source** - Access to Stats Perform API data sources.
- **Stats Perform DataLinq Source** - access data from the Stats Perform Out of Town Scores data source.
- **Swiss Timing Scoreboards** - access the Swiss Timing Saturn/Vega and NBA Tissot Scoreboard data sources.
- **Teletimer DataLinq Source** - access a Teletimer data source.
- **Teleview DataLinq Source** - access a Teleview (International Sound) data source.
- **Text DataLinq Source** - access data contained in delimited text files stored on disk.
- **Web Socket DataLinq Source** - Access to data over WebSocket sources.
- **White Way DataLinq Source** - access data from White Way scoreboard sources.
- **XML DataLinq Source** - access data contained in XML files stored on disk.
- **XML/JSON TCP DataLinq Source** - access to XML/JSON data over TCP (Server or Client).

Scoreboard Vendors and Sports Supported via Dataling

| Vendor | Sport | Minimum XPression Version and Build |
|-----------------------------------|----------------------------------|-------------------------------------|
| ANC | Generic Feed - Stat Server | 4.3 build 2252 |
| Bodet Scorepad | Badminton | 11.1 build 5757 |
| | Basketball | 11.1 build 5770 |
| | Floorball | 11.1 build 5770 |
| | Handball | 11.1 build 5790 |
| | Ice Hockey | 11.1 build 5770 |
| | Table Tennis | 11.1 build 5770 |
| | Tennis | 11.1 build 5789 |
| | Volleyball | 11.1 build 5786 |
| Colorado Time Systems | Swimming | 5.9 build 3141 |
| Daktronics¹ | Baseball | 3.10 build 1719 |
| | Basketball/ (Basketball (Rev 0)) | 3.10 build 1719 |
| | Basketball (Rev 01) | 4.1 build 2107 |
| | Basketball (Rev 02) | 6.1 build 3413 |
| | Football | 3.10 build 1719 |
| | Football (Legacy protocol) | 4.0 build 1997 |
| | Hockey | 3.10 build 1719 |
| | Lacrosse | 5.9 build 3155 |
| | Soccer | 3.10 build 1719 |
| | Volleyball | 3.10 build 1719 |
| Daktronics RTD² | Baseball | 7.1 build 3850 |
| | Basketball | Rugby |
| | Cricket | Soccer |
| | Curling | Taekwondo |
| | Football | Tennis |
| | Gymnastics | Track |
| | Hockey | Volleyball |
| | Judo | Water Polo |
| | Karate | Wrestling |
| | Lacrosse | |
| Electro-Mech | Basketball | 6.5 build 3561 |
| | Football | 5.9 build 3104 |
| | Hockey/Lacrosse | 5.9 build 3152 |
| Genius Sports API | Basketball | 11.1 build 5780 |
| Genius Sports InArena | All Sports | 11.1 build 5771 |
| GSIS Real-time Stats | NFL Football | 1.70 build 1442 |
| OES | Baseball (Model 7929) | 4.3 build 2256 |
| | Baseball (ISC 9000) | 7.0 build 3761 |
| | Basketball | 5.4 build 2618 |
| | Field Hockey | 8.2 build 4424 |
| | Football | 3.10 build 1734 |
| | Hockey | 5.4 build 2651 |
| | Lacrosse | 4.3 build 2256 |
| | Soccer | 5.7 build 3047 |
| | Volleyball | 5.7 build 3047 |
| | Wrestling | 5.9 build 3136 |
| SMT Tennis Umpire Clock | Tennis | 10.1 build 5390 |
| Stats Perform | College and Professional Sports | 9.5 build 4978 |
| Swiss Timing | Saturn/Vega Scoreboard | 5.9 build 3146 |
| | NBA Tissot Timer | 6.7 build 3716 |
| White Way | Basketball | 4.1 build 2113 |
| | Football | 5.9 build 3106 |

¹Daktronics "TV Feed" data. If connecting to a Dak 5000 style controller, the "All Sport CG" interface controller from Daktronics is required.

²Daktronics RTD feed require separate ITF files required to parse incoming data, based on sport.

Other Data Sources

Other sports data services are accessed using the industry standard CII Protocol using the XPression CII Gateway and the CII X-Commands for External Data Source use.

JSON sources such as Stats Perform (Opta), and SportRadar may be providing RESTful API feeds in JSON format, which can use the RSS/HTTP tools in DataLinq™ which were updated in 11.0 and 11.5 releases to include support for Static and Dynamic URL's, Basic and OAuth2 authorization, and text delimiter formatting.

Google Sheets

Support for Google sheets is now possible, using the XPression 11.5 release of DataLinq™ and the RSS/HTTP DataLinq™ source, with the URL settings formatted as TEXT. The Google Sheet should be set up to share using Share to Web using Comma Separated Values (.csv).