The Canadian Real Estate Association

DATA DISTRIBUTION FACILITY DATA FEED TECHNICAL DOCUMENTATION

Technology Provider Addendum

V 2.4

Contents

Version History

Version	Published Date	Description
2.0	June 25th, 2013	Technology Provider release
2.1	August 8th, 2013	Updated GetDestinations explanation
2.2	December 11th, 2014	Updated DDF® acronym, fixed page numbers
2.3	September 30, 2015	Added RETS-style Destinations Search
2.4	January 01, 2016	Added note to Examples in section 4

1. Technology Provider Overview

DDF® Technology Providers are organizations that pull multiple data feeds for different users. These feeds can be of any type that agents and brokerage owners are able to register: Member Website Feeds – My Listings, Member Website Feed - All Offices, National Shared Pool.
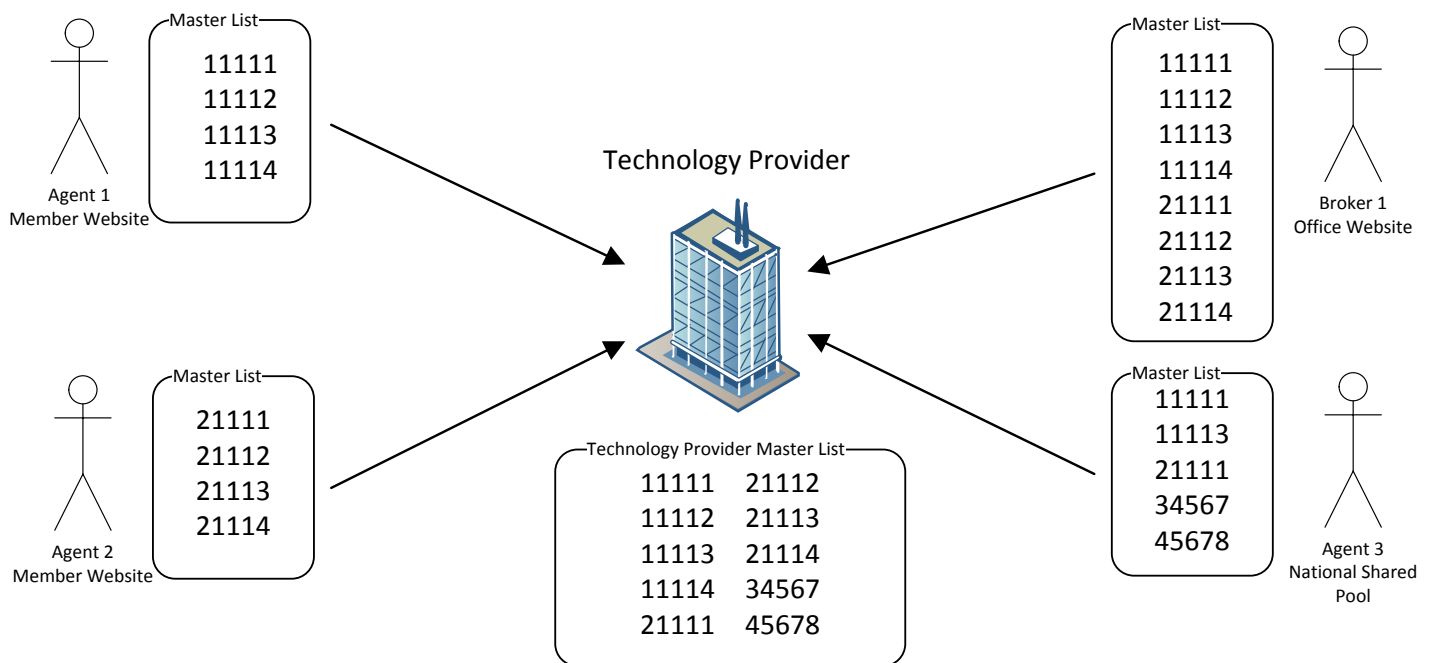
While these data feeds can be pulled separately, this creates 2 problems for Technology Providers:

1) Each data feed being pulled would require the provider to log in using that feeds credentials. If pulling hundreds of feeds, this requires constant logging in and out of DDF®.
2) Properties that are available to multiple feeds would need to have their details pulled for each data feed. In the case of the National Shared Pool, with potentially hundreds of thousands of properties available, this duplication is cumbersome and slow.

To avoid these problems, CREA has created a way to link multiple data feeds to a single Technology Provider account, which will merge all linked feeds into a single feed. Technology Provider accounts have their own authentication credentials, and receive a merged dataset, eliminating the need to constantly log in and out and download the same listing over and over.
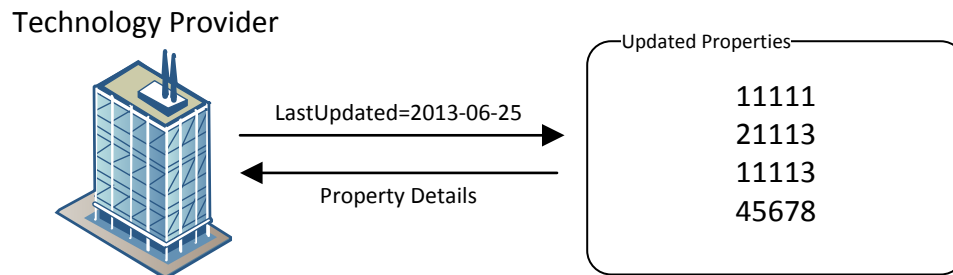
2. Merged Master List Queries

As with standard DDF® data feeds, a daily Master List call is required to make sure all properties have been properly updated, and to let clients know which properties in their system to delete. When a Technology Provider makes a Master List query (ID=*), they will get a complete list of any properties that are available in any of their linked feeds.

3. Merged LastUpdated Queries

Similar to the merged Master List query results, when a Technology Provider makes a LastUpdated query, they will receive matching properties from any of their linked data feeds. Whether a property is available on only a single linked data feed or available on hundreds of linked data feeds, the Technology Provider will only need to retrieve that property details a single time.

Technology Provider

LastUpdated=2013-06-25

Property Details

┌─Updated Properties─┐

11111
21113
11113
45678

4. Data Feed Master List Queries

The ability for Technology Providers to get up to date records for all of their clients in a single feed is only part of the process. The next step is to determine which properties go with which data feed client. For example, a single property may be displayed on Client A's member website, and Client B's National Shared Pool site, but shouldn't be displayed on Client C's National Shared Pool site because that client only receives properties from a single province.

To determine the relationship between properties and data feed clients, Technology Providers are required to also pull the Master List for each data feed client. This can be accomplished by making a Master List query with an optional DestinationID parameter included.

Examples

Technology Provider Master List: http://data.crea.ca/Search.svc/Search?Format=Standard-XML&SearchType=Property&Class=Property&QueryType=DMQL2&Query=(ID=*)&Count=1

Master List for Client A: http://data.crea.ca/Search.svc/Search?Format=Standard-XML&SearchType=Property&Class=Property&QueryType=DMQL2&Query=(ID=*),(DestinationID=1234)&Count=1

Master List for Client B: http://data.crea.ca/Search.svc/Search?Format=Standard-XML&SearchType=Property&Class=Property&QueryType=DMQL2&Query=(ID=*),(DestinationID=3456)&Count=1

Note: If testing is done in a web browser, special characters should be encoded in the URLs.

5. GetDestinations Queries

To be able to query Master Lists for their clients, Technology Providers need to know the DestinationID of each of their data feed clients. To give them this information, a   new endpoint is available to Technology Providers to get details about each data feed linked to them. The result is a XML response with a collection of Destination objects, each with details about the data feed.

5.1 To retrieve **all** destinations associated with your Technology Provider account:

http://data.crea.ca/Search.svc/Search?Format=STANDARD-XML&SearchType=Destination&Class=Destination&QueryType=DMQL2&Query=(ID=*)&Culture=en-CA

5.2 To retrieve details of a **single** destination associated with your Technology Provider account:

http://data.crea.ca/Search.svc/Search?Format=STANDARD-XML&SearchType=Destination&Class=Destination&QueryType=DMQL2&Query=(ID=123)&Culture=en-CA

* NOTE: A data feed may be suspended by CREA if it is found to be violating the terms of use – e.g. displaying sold listings, redistributing to unauthorized sites, etc.

5.3 Sample Output

```xml
-<RETS ReplyCode="0" ReplyText="Operation successful">
  -<RETS-RESPONSE>
    -<DestinationDetails ID="787">
        <UserName>k3QHFec74Z8rfBz5jaLc6HqA</UserName>
        <DestinationStatus>Active</DestinationStatus>
      -<DestinationOwner>
          <Name> Sample Agent </Name>
          <CreaID>800368</CreaID>
          <IndividualID>270590</IndividualID>
          <FirmID>1000125</FirmID>
          <Email/>
        </DestinationOwner>
        <DestinationName>Redesign NFPTP</DestinationName>
        <DestinationURL>http://redesnfptp.ca</DestinationURL>
        <DestinationType>National Franchisor Pool</DestinationType>
        <BrokerageOwner>false</BrokerageOwner>
        <InsertedDate>16/09/2015 11:41:00 AM</InsertedDate>
        <LastUpdated>16/09/2015 11:41:00 AM</LastUpdated>
      -<DestinationFilters>
          <PriceMin>0.0000</PriceMin>
          <PriceMax>0.0000</PriceMax>
          <RentMin>0.0000</RentMin>
          <RentMax>0.0000</RentMax>
          <OwnershipTypeIDs/>
          <UploadedByIDs/>
          <PropertyTypeIDs/>
          <ProvinceIDs/>
          <Waterfront>False</Waterfront>
          <TransactionTypeID>1</TransactionTypeID>
        </DestinationFilters>
    </DestinationDetails>
  </DestinationDetails>
```

5.3 End Point to be deprecated

The **GetDestinations** end-point, and thus the following queries, will be deprecated in the future.

Get all Destinations:	http://data.crea.ca/GetDestinations.svc/getDestinations
Individual Destination:	http://data.crea.ca/GetDestinations.svc/getDestinations?ID=1234
Active Only:	http://data.crea.ca/GetDestinations.svc/getDestinations?Status=Active
Inactive Only:	http://data.crea.ca/GetDestinations.svc/getDestinations?Status=Inactive
Suspended Only:	http://data.crea.ca/GetDestinations.svc/getDestinations?Status=Suspended

5.4 "Master list query" format to be deprecated

Master List for Client A: http://data.crea.ca/Search.svc/Search?Format=Standard-XML&SearchType=Property&Class=Property&QueryType=DMQL2&Query=(ID=*)&Count=1&DestinationID=1234

Master List for Client B: http://data.crea.ca/Search.svc/Search?Format=Standard-XML&SearchType=Property&Class=Property&QueryType=DMQL2&Query=(ID=*)&Count=1&DestinationID=3456

6. Sample Environment Credentials

CREA offers a sample environment where external technical staff can test and try out their corresponding data feed type before pointing their environments to the live DDF® service.

Credentials

Data Feed Type	Username	Password
Technology Provider	tVOeZ2tB5kR33O58Aq5NAaEL	TWwBEjgEqCTuZdeHk56DYplb