

May 1, 2016

RPR Progress Report On Project Upstream

The purpose of this document is to provide an update regarding RPR's progress on the Upstream project since engaging in Q12016. Working at the direction of the UpstreamRE, LLC Board of Managers, RPR has made significant progress with the technology development of the Upstream platform. Concurrently, RPR has made strong progress with UpstreamRE to establish Pilot Markets for Upstream Alpha/Beta testing in 2016. RPR is now actively engaging MLS software vendors, brokers, and brokers' 3rd-party vendors to begin the Pilot integrations that will serve as a working proof of concept for Upstream, which is the first major milestone of the program. Specifically, the initial goal of Alpha testing in each Pilot Market is to have one Upstream member brokerage successfully enter and manage its listings in Upstream, flowing into one MLS system.

Software Development Update:

- RPR employs the Agile software development methodology. Agile is an iterative approach where goals of working software are delivered through monthly development cycles (i.e. "sprints"). The process uses proofs-of-concept to help determine technical direction. Vetted solutions are then hardened. In 2016, RPR's development sprints for Upstream have accomplished the following goals:
 - Determined and built out the software and system architecture
 - Developed system security including the build-out of user roles and management
 - Learned and extracted complex MLS system business rules
 - Developed APIs (Application Programming Interface) to interact with user roles and publish listing data

Currently RPR is in the process of delivering a number of activities necessary to engage MLSs, vendors, and brokerage systems in the implementation of an API to receive listings from Upstream.

Operation/Implementation Update:

- RPR is completing the process of initial market outreach and communications to UpstreamRE Board members and their selected representative companies, in order to establish the Upstream Pilot Markets.

- As of May 1, 2016 RPR has engaged **46** UpstreamRE, LLC. Board of Managers companies, or their selected representatives.
- In parallel with the Upstream Pilot outreach to brokerage firms, RPR is completing its initial outreach and communications to MLSs interested in participating as an Upstream Pilot MLS in 2016.
 - As of May 1, 2016, RPR has engaged **24** MLSs. Additionally, RPR began providing an Upstream monthly update report to each MLS who has participated in Upstream Pilot overview meetings.
- **Pilot Markets Identified:** In April 2016, The Upstream Pilot Plan Work Group met and finalized an assessment process designed to select the 5 MLSs to be invited to participate as Phase I Pilot Markets. Each market has been contacted, responded positively and is now engaged in a process of communication related to the collection of their MLS's business rules and the release of the Upstream Application Programming Interface (API) framework. The process in which these markets were determined is as follows:
 - An extensive outreach effort was made by RPR (on behalf of UpstreamRE) to gauge interest from 24 MLSs and 46 brokers.
 - MLS markets were selected based upon a number of criteria, including, but not limited to interest and availability of an MLS and its corresponding broker members, bandwidth for engagement in 2016 and the timely return of information and assessment documents for the Upstream Pilot process.
- **Engagement of MLS Software Vendors, Brokers, and Brokers' 3rd Party Vendors:** Now that the Pilot markets have been identified, RPR is actively working with the relevant stakeholders as follows:
 - Commence with joint software development with the MLSs and their software vendors. The MLS systems will need to integrate the APIs that are developed for Upstream.
 - Brokers in these markets who have completed the broker profile assessments have confirmed with RPR their selected Alpha office and have identified their initial list of vendors they currently work with. RPR will also begin to collect requirements for broker level business rules in each of their market areas.
 - Participating Brokers' vendors will be identified to integrate with Upstream. They will need to collaborate with RPR so that they will be able to integrate with the Upstream API framework in order to receive listings in conjunction with the broker-defined rules.

Thank you for your continued interest and support of Upstream. Please feel free to contact RPR with any questions and/or concerns.