

Real Time Data Feeds Using the Streaming API

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Session Objectives

Implement Real Time Data Feeds with Visualforce pages

- Streaming API Implementation
 - Basic implementation of Streaming API
 - Display updates and notifications
- Streaming API Limitations and Alternatives
 - Overview of Streaming API limits
 - Using Apex Remote Actions to poll for updates



What is the Streaming API?

- Long polling approach to pushing updates
 - Long lived connection to Salesforce waiting for changes in data
 - Display updates and notifications
- Clients Subscribe to PushTopics
 - PushTopics are linked to a SOQL query that watches for data changes
 - When a change occurs the connection returns with the new data and reconnects waiting for more changes



Streaming API Implementation Demo



Streaming API Limits

Description	Unlimited Edition	Enterprise Edition	All Other Editions
Max number of PushTopics per org	50	25	20
Max number of clients per topic	100	20	10
Max number of concurrent clients	1,000	500	10
Max number of events per 24hr	1,000,000	200,000	10,000 (1000 for free orgs)

Source: http://www.salesforce.com/us/developer/docs/api_streaming/Content/limits.htm



What Objects can I stream from?

- All Custom Objects
- Account
- Campaign
- Case
- Contact
- Lead
- Opportunity
- Task



Alternatives

Interval Polling

■ Short Polling approach which queries for updates

- Short lived connection which simply runs a method and returns the result of the method
- Interval is scheduled and run from Browser.

■ How Interval Poll on Salesforce

- Use Apex Remote Actions, they are easily executed from Javascript and loose limits
- The Remote Action will return data from the controller and you can take almost any action you want after parsing that data.



Polling Demo



Which one should I use!?!?

- Streaming API
 - Use it if you can, it's great, well thought out and is more efficient than anything else out there.
- Polling alternative
 - Use it if you are hitting limits around the Streaming API.
 - Can use it if your data source is something other than a SOQL query.



Q&A



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All about Bracket Labs



Award-winning AppExchange ISV Partner selling productivity apps. 100% native architecture, focus on usability and simplicity. Founded 2010, Boulder CO

- Campaign Calendar – Top 10 app in Marketing category
- TaskRay – Top app in Project Management and Collaboration categories
- MyDay – Launched Dreamforce 2013
- Notable customers include GE, NBCUniversal, Kelly Services, Tata Communications, Forbes, Houghton Mifflin



Thank you.

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