

How to add support for my tool in Site Stats

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Requirements

Site Stats trunk or ≥ 2.0 (unreleased) and EntityBroker $\geq 1.3.5$ (present in Sakai 2.6 or trunk) are required for the features demonstrated on this page.

1. How it works

SiteStats consults the EntityProviderManager service to find which tools implement the [Statisticable](#) capability from [EntityBroker](#). This capability - implemented by tools - provides the following information to Site Stats:

- Associated sakai tool id
- List of events to be supported in SiteStats
- Localized events description

2. Example

Suppose you have already a basic Entity Provider capability, as shown on the next code listing:

TestToolEntityProvider.java with basic AutoRegisterEntityProvider capability

```
package org.sakaiproject.testtool.logic.entity;

import org.sakaiproject.entitybroker.entityprovider.capabilities.AutoRegisterEntityProvider;

public class TestToolEntityProvider implements AutoRegisterEntityProvider {

    // 'AutoRegisterEntityProvider' capability:
    public final static String PREFIX = "testtool";

    public String getEntityPrefix() {
        return PREFIX;
    }
}
```

Adding the Statisticable capability to your class, will require you to implement 3 new methods. The code belows assumes that a 'Events.properties' message bundle exists and contains the event descriptions.

TestToolEntityProvider.java with Statisticable capability

```

package org.sakaiproject.testtool.logic.entity;

import java.util.HashMap;
import java.util.Locale;
import java.util.Map;
import org.sakaiproject.entitybroker.entityprovider.capabilities.AutoRegisterEntityProvider;
import org.sakaiproject.entitybroker.entityprovider.capabilities.Statisticable;
import org.sakaiproject.util.ResourceLoader;

public class TestToolEntityProvider implements AutoRegisterEntityProvider, Statisticable {

    // 'AutoRegisterEntityProvider' capability: -----
    public final static String PREFIX = "testtool";

    public String getEntityPrefix() {
        return PREFIX;
    }

    // 'Statisticable' capability: -----
    public final static String TOOL_ID = "sakai.testtool";
    public final static String EVENT_NEW = "testtool.new";
    public final static String EVENT_EDIT = "testtool.edit";
    public final static String EVENT_DELETE = "testtool.delete";
    public final static String EVENT_READ = "testtool.read";
    public final static String[] EVENT_KEYS =
        new String[] {
            EVENT_NEW, EVENT_EDIT, EVENT_DELETE, EVENT_READ
        };

    /**
     * Return the associated common tool.id for this tool
     *
     * @return the tool id (example: "sakai.messages")
     */
    public String getAssociatedToolId() {
        return TOOL_ID;
    }

    /**
     * Return an array of all the event keys which should be tracked for statistics
     *
     * @return an array if event keys (example: "message.new" , "message.delete")
     */
    public String[] getEventKeys() {
        return EVENT_KEYS;
    }

    /**
     * OPTIONAL: return null if you do not want to implement this<br/>
     * Return the event key => event name map for a given Locale,
     * allows the author to create human readable i18n names for their event keys
     *
     * @param locale the locale to return the names for
     * @return the map of event key => event name (example: for a 'en' locale: {"message.new","A new message"})
     OR null to use the event keys
     */
    public Map<String, String> getEventNames(Locale locale) {
        Map<String, String> localeEventNames = new HashMap<String, String>();
        ResourceLoader msgs = new ResourceLoader("Events");
        msgs.setContextLocale(locale);
        for(int i=0; i<EVENT_KEYS.length; i++) {
            localeEventNames.put(EVENT_KEYS[i], msgs.getString(EVENT_KEYS[i]));
        }
        return localeEventNames;
    }
}

```

After this, you can log events as usual using the `EventTrackingService` and these events will be automatically supported in `SiteStats` (using cover for simplicity):

Example of event logging

```
EventTrackingService.post(  
    EventTrackingService.newEvent(  
        TestToolEntityProvider.EVENT_DELETE,  
        item.getReference().toString(),  
        true)  
    );
```

3. Related configuration bits

By default, `SiteStats` will use the (localized) event descriptions provided by the [Statisticable](#) interfaces and, if not found, fallback to local event descriptions provided within the [Site Stats bundles](#). You can change this behavior with the following setting in sakai. properties:

- `checkLocalEventNamesFirst@org.sakaiproject.sitestats.api.event.EntityBrokerEventRegistry = true`