.conf2015

Supercharge Your Mobile App Delivery With Splunk MINT

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splunk>

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"How the hell did that happen?"

- Random Mobile Developer

BugSense it was...

We love developers and developers love us back!

- 12 Person company
- Based in Greece
- \$100k Seed investment
- Supporting Android, iOS, HTML5, WP7, WP8, Windows 8, Xamarin
- Running on hundreds of millions of devices, probably including yours [©]



Splunk MINT it Became!

September 16, 2013 - Splunk acquired BugSense

- Team moved to Splunk's HQ
- New product line
- Combine BugSense's data collection with Splunk's capabilities



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One objective: Get mobile data into Splunk!

Splunk MINT



Can you imagine the possibilities?

Splunk MINT Product Update

BugSense A Splunk Company



- Cloud-only
- Crash detection, usage insights and retention information
- Not integrated with Splunk Enterprise



splunk>MINT

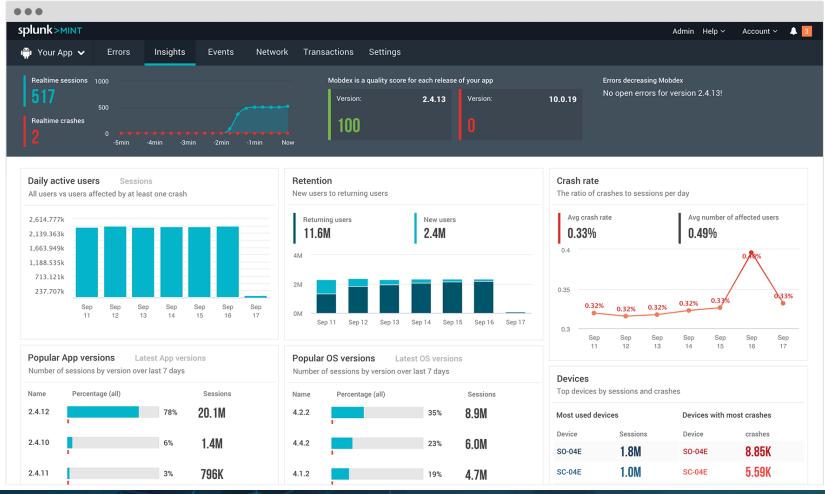
- Splunk MINT Express: adds <u>transactions</u> and <u>network performance</u>
- Splunk MINT Enterprise: connects to Splunk Enterprise, more features and analytics
- Correlates

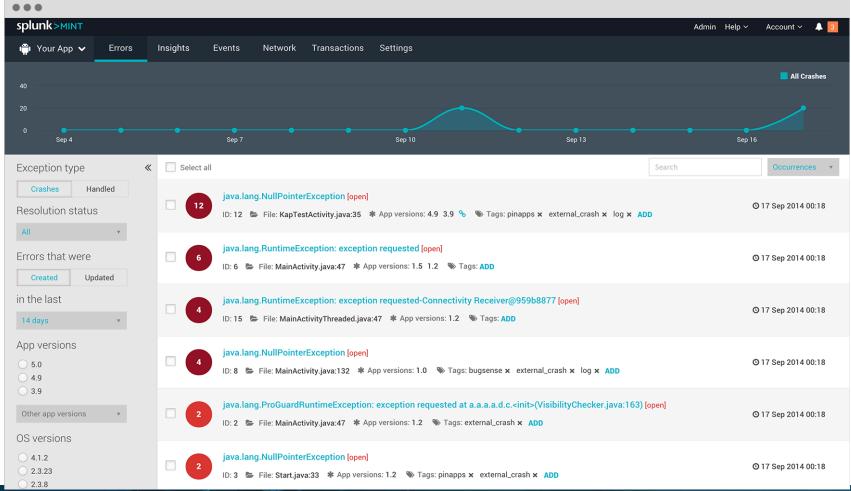
 infrastructure,
 application and mobile
 data in Splunk Enterprise

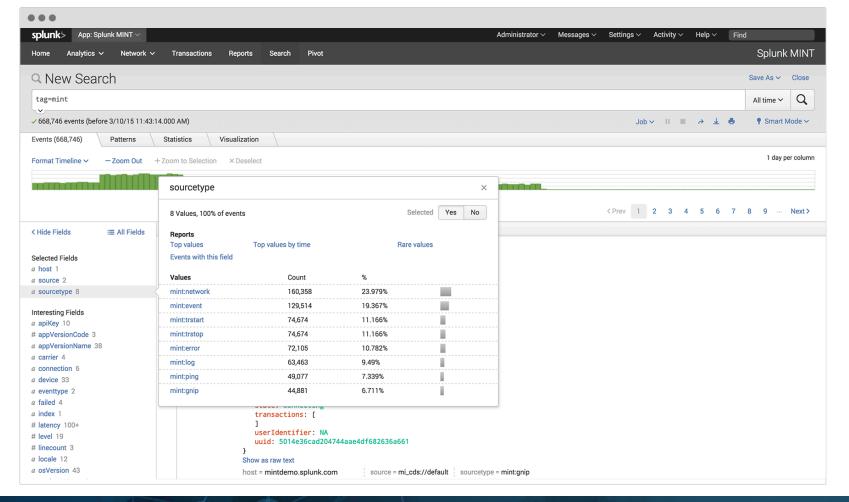


What is a Splunk MINT?

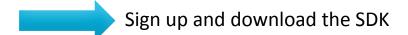
"An awesome technology that helps you gain insights about your mobile application."

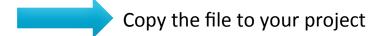


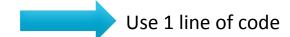




How to Use It







Start collecting data!

Good Old Functionality

Still There!

Crash Reporting

- Track your crashes automatically in real time.
- One line of code!
- That's it! ☺

Android Mint.initAndStartSession(Context, "APIKEY");

iOS [[Mint sharedInstance] initAndStartSession@"API KEY"];

Crash Reporting + Insights

Track your crashes automatically in real time. One line of code!

Full analytics and reports Mobdex Score

REAL TIME ANALYTICS
WITH ONLY ONE LINE OF CODE!

Android

iOS

Log Handled Exceptions

What about Handled Exceptions? We can report them as well!

```
Android

try{
String a = null;
a.toString();
} catch(Exception ex) {
ex.printStackTrace(); // in case you want to see the stacktrace in your log cat output
Mint.sendException(ex); //OR
Mint.sendExceptionMessage("level", "2", ex);
}

iOS

MintLogException(NSException, LimitedCrashExtraDataList) // More in our website
```

Crash Extra Data*

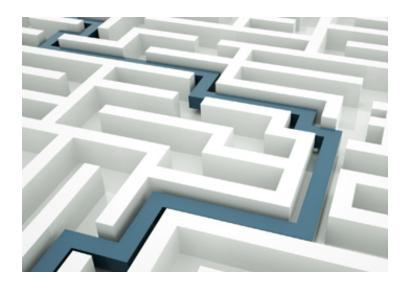
We offer the ability to get more information on your crashes and add your custom data.

* With a small tweak in the new version

Android
iOS

Breadcrumbs

Show me the path of the user through the application.



Android Mint.leaveBreadcrumb("Login Screen");

[[Mint sharedInstance] leaveBreadcrumb:@"Login Screen"];

iOS

User Identifier

You are able to locate existing users in MINT using name, email, server ID, etc.

Find everything that the specific user experienced.



Android

Mint.setUserIdentifier("kp@splunk.com");

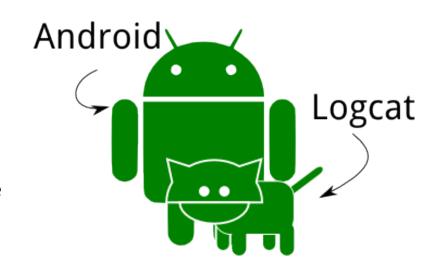
iOS

[Mint sharedInstance].userIdentifier = @"kp@splunk.com";

Logcat / Apple Logging System Support

Lots of important information is included in the logcat output. Check there for all your crashes.

- Print messages to the console using the ALS (Apple Logging System)
- In debug mode all the messages will be printed in the console window
- In release mode only Notice messages and above will be printed in the device log, while all your messages will forwarded to Splunk server



Android	Mint.setLogging(true); Mint.setLogging(lines, filter);
iOS	[[Mint sharedInstance] enableLogging:YES]; MintLog(DebugLogLevel, @"%@", @"A debug log");

Last Breath

You can do important things when you know the application will crash...before it crashes!

```
Android public class MainActivity extends Activity implements ExceptionCallback {
}

@Override
public void lastBreath(Exception ex) {
//do or save stuff here
}

BugSenseHandler.setExceptionCallback(this);

Due to platform nature and restrictions this feature is not supported
```

Events

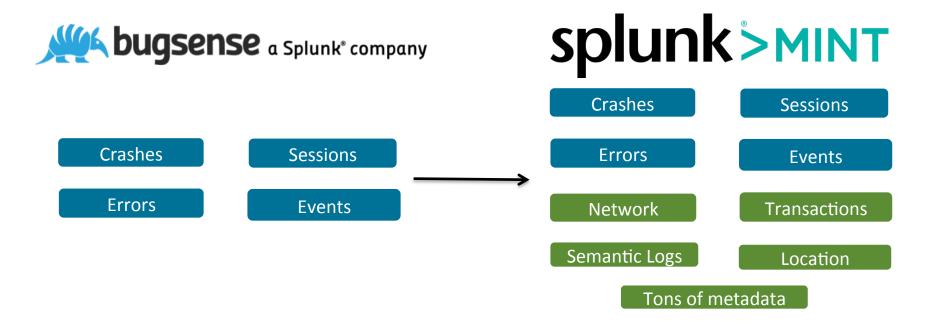
Get informed about anything users are doing in your mobile application with events!

Android Mint.logEvent("button1pressed");

iOS [[Mint sharedInstance] logEventAsyncWithTag:@"button1pressed" completionBlock:nil];



Splunk MINT Data Types



Global Extra Data

Add extra data to all your actions to get better information.

```
Android Mint.addExtraData("level","2");
//or
Map<String, String> map = new HashMap<String,String>();
map.put("level","2");
Map.put("character","warrior");
Mint.addExtraData(map);

iOS

[[Mint sharedInstance] addCrashExtraData:[[CrashExtraData alloc] initWithKey:@"level"
andValue:@"2"]];
```

Advanced Events

Get informed about anything users are doing in your mobile application with events!

Break down events by app version, OS version, see the trend and stats.

Android Mint.logEvent("button1pressed");

iOS [[Mint sharedInstance] logEventAsyncWithTag:@"button1pressed" completionBlock:nil];

Transactions

A transaction is used to monitor critical functionality in your app like a purchase. It is basically an event with a start and finish.

Android	Mint.transactionStart("userLogin"); //start transaction
	Mint.transactionStop("userLogin"); //successfully end transaction Mint.transactionCancel("userLogin", "user pressed back"); //cancel transaction with a reason
iOS	[[Mint sharedInstance] transactionStart:@"userLogin" andResultBlock:nil]; [[Mint sharedInstance] transactionStop:@"userLogin" andResultBlock:nil]; [[Mint sharedInstance] transactionCancel:@"userLogin" reason:@"user pressed back" andResultBlock:nil];

Developer Settings

What if you could change your variables remotely?

Set the difficulty of your game at Mint, retrieve the variable when the app starts.

Android

int level = Integer.parseInt(Mint.getDevSettings("level"));

iOS

[[MINT sharedInstance] getDevSettings@"level"];

Collecting Data from Hybrid Apps

Supporting web components Collect crashes, errors, events and transactions from hybrid apps.

Watch the **Collecting Data From Hybrid Applications** presentation.

Android

MINTWebView webView = (MINTWebView) findViewbyId(R.id.webview);

iOS

MintUIWebView *webView = [[MintUIWebView alloc] init];

Network Monitoring

Automatically keep track of all your application's network requests!



Android

roid

iOS

Everything Available on Splunk

You have raw access to all the data through Splunk, you can create your own dashboards and alerts.

"Everything looks cool, can I have a real example?"

- Random .conf attendee

"Of course, Sir!"

- Kostas Polychronis



