

Spring '21 Developer Release Notes & Summer '21 Preparation

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Agenda

1. New in Spring '21
2. Preparing for Summer '21



Moving Out of Support



Aura Components in the ui Namespace Are Being Deprecated

- 1st May 2021 – ui namespace components will no longer be supported
- Existing components will still work, but not be maintained by Salesforce in future
- Changes in Google Chrome and Salesforce platform may break ui namespace components in future

```
<ui:inputtext label="enter name"/>
<div>
    <ui:button label="PROGRAMS" class="" />
    <ui:button label="Learning" />
    <ui:button label="Training" />
    <ui:button label="Contacts" />
    <ui:button label="SUPPORT" />
</div>
```



End of Support for Internet Explorer 11 in Lightning

- IE 11 no longer supported by Salesforce Lightning
- Users not blocked, but will see banner indicated browser is out of date
- Classic experience still supported for the time being
- Move users to
 - Microsoft Edge Chromium
 - Google Chrome
 - Mozilla Firefox
 - Apple Safari



Pilots & Beta



Functions

- Announced as Greenfields a long time ago. Newly released as Beta.
- Awesome potential to call functions written with NodeJS / Other languages directly from Salesforce
- Your Salesforce Account Executive may be able to get you access
- Likely paid licensing required



Create a Lightning Web Component Action (Pilot)

- Create quick actions in LWC
- Customise headers and footers, or create non-UI actions
- Limited to specific customers only – speak to your AE
- No formal General Availability announced yet

Account Actions
New Action

Enter Action Information

Object Name	Account
Action Type	Lightning Web Component
Lightning Web Component	c:showCustomUi
Subtype	Screen Action
Standard Label Type	--None--
Label	Custom UI LWC Action
Name	Custom_UI_LWC_Action
Description	
Icon	⚡ Change Icon

Save Cancel

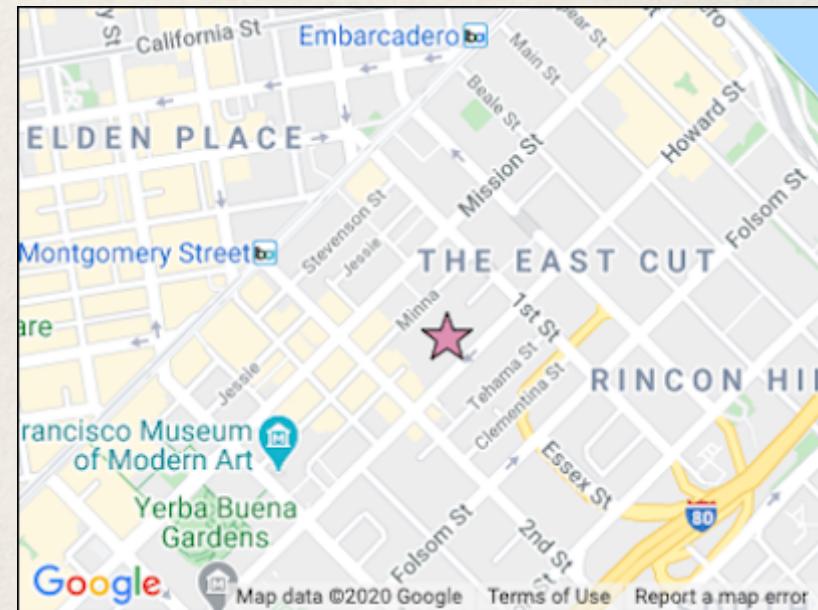


Lightning



Customize Markers and Control Map Behavior in lightning-map Base Component

- Use your own SVG image instead of default markers
- Modify / disable zoom & dragging
- Remove satellite button
- Just define as a static map
- [LINK](#)



Aura Request Event Type (1/2)

- Logs requests from both Aura & LWC components
- View information about requests to Apex methods from Aura or Lightning web components in your event log files. The Aura Request event type in the EventLogFile object enables you to monitor information such as benchmarking request time or identifying the URI of an unsuccessful request.
- CLIENT_GEO attribute
- https://help.salesforce.com/articleView?id=release-notes.rn_api_objects.htm&type=5&release=230



Aura Request Event Type (2/2)

- Example:

Enter or modify a SOQL query below:

```
SELECT
    ApiVersion, EventType, Id, LogDate,LogFile,LogFileContentType,LogFileFieldNames,LogFileFieldTypes,LogFile
    Length FROM EventLogFile
```



Query Results

Returned records 5 - 5 of 19 total records in 0.247 seconds:

ApiVersion	EventType	Id	LogDate	LogFile
5.1.0	AuraRequest	0ATB00000079qcSOAQ	2021-04-02T00:00:00.000Z	IkVWRU5UX1RZUEuiLCJUSU1FU1RBTVaiLCJSRVFVRVNU

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	EVENT_TYPE	TIMESTAMP	REQUEST_ID	ORGANIZATION_ID	USER_ID	RUN_TIME	CPU_TIME	URI	SESSION_KEY	LOGIN_KEY	REQUEST_SIZE	DB_TOTAL	_USER_AGEN	REQUEST_MESSAGE	TIMESTAMP_DERIVED	USER_ID_DE	CLIENT_IP	URI_ID_DERIVED
2	AuraRequest	2.021E+13	4b8x55v16Q	00DB000000	005B000000	57	22	/one/one.ap	dfF8DCWq3XxpLcBDQ0E56MpjD		37389463	Mozilla/5.0 (GET			2021-04-03T23:39:15.268Z	005B000000	60.242.117.207	
3	AuraRequest	2.021E+13	4b8x5BlzbwJ	00DB000000	005B000000	2204	566	/one/one.ap	VGjgsGzrpyXxpLcBDQ0E56MpjD		1391632930	Mozilla/5.0 (GET			2021-04-03T23:39:18.989Z	005B000000	60.242.117.207	
4	AuraRequest	2.021E+13	4b8x5MQC0	00DB000000	005B000000	507	170	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		537765463	Mozilla/5.0 (POST	1\$serviceComponent://ui.global.components.one.one.controller.OneContro	2021-04-03T23:39:20.147Z	005B000000	60.242.117.207		
5	AuraRequest	2.021E+13	TID:5467750	00DB000000	005B000000	28	21	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		1279266	Mozilla/5.0 (POST	1\$serviceComponent://ui.force.components.controllers.hostConfig.HostConfig	2021-04-03T23:39:20.693Z	005B000000	60.242.117.207		
6	AuraRequest	2.021E+13	TID:5507360	00DB000000	005B000000	145	113	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		18900615	Mozilla/5.0 (POST	1\$serviceComponent://ui.force.components.controllers.platformStateManage	2021-04-03T23:39:20.895Z	005B000000	60.242.117.207		
7	AuraRequest	2.021E+13	4b8x5RG6fQ	00DB000000	005B000000	16	14	/auraCmpDe	VGjgsGzrpyXxpLcBDQ0E56MpjD		1495267	Mozilla/5.0 (GET			2021-04-03T23:39:20.914Z	005B000000	60.242.117.207	
8	AuraRequest	2.021E+13	TID:5938050	00DB000000	005B000000	53	44	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		1468541	Mozilla/5.0 (POST	1\$serviceComponent://ui.flexipage.components.page.FlexipageControllerV2/	2021-04-03T23:39:21.199Z	005B000000	60.242.117.207		
9	AuraRequest	2.021E+13	TID:5944840	00DB000000	005B000000	621	105	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		730840951	Mozilla/5.0 (POST	1\$serviceComponent://ui.home.impl.landing.LandingController/ACTIONSpopp	2021-04-03T23:39:21.771Z	005B000000	60.242.117.207		
10	AuraRequest	2.021E+13	TID:6799890	00DB000000	005B000000	211	51	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		155648375	Mozilla/5.0 (POST	1\$serviceComponent://ui.home.impl.myDayHeroChart.MyDayHeroChartContr	2021-04-03T23:39:22.210Z	005B000000	60.242.117.207		
11	AuraRequest	2.021E+13	TID:6816910	00DB000000	005B000000	61	45	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		15997137	Mozilla/5.0 (POST	1\$serviceComponent://ui.force.components.controllers.recordLayoutBroker.R	2021-04-03T23:39:22.261Z	005B000000	60.242.117.207		
12	AuraRequest	2.021E+13	TID:6819350	00DB000000	005B000000	289	97	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		199156413	Mozilla/5.0 (POST	1\$serviceComponent://ui.calendar.impl.controllers.SFDCCalendarDataProvider	2021-04-03T23:39:22.307Z	005B000000	60.242.117.207		
13	AuraRequest	2.021E+13	TID:6843090	00DB000000	005B000000	413	87	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		411568112	Mozilla/5.0 (POST	1\$serviceComponent://ui.home.impl.recordRecentContainer.RecentRecordCo	2021-04-03T23:39:22.455Z	005B000000	60.242.117.207		
14	AuraRequest	2.021E+13	TID:5462260	00DB000000	005B000000	1978	422	/aura	VGjgsGzrpyXxpLcBDQ0E56MpjD		172440700	Mozilla/5.0 (POST	7\$serviceComponent://ui.global.components.one.header.HeaderController/A	2021-04-03T23:39:22.823Z	005B000000	60.242.117.207		

Apex



ID.to15() method

- Convert 18 character ID's to 15 character case sensitive ID's
- Fixes mangled casing
- Better to implement the Salesforce API than write your own

```
String Id_15_char = '0D5B000001DVM9t';
String Id_18_char = '0D5B000001DVM9tkAh';
ID testId = Id_18_char;
System.assertEquals(testId.to15(),Id_15_char);
```

- https://help.salesforce.com/articleView?id=release-notes.rn_apex_nc.htm&type=5&release=230



Change Data Capture



Enrich Change Event Messages with Extra Fields

- Now General Availability
- Add unchanged fields to your change event
- Supported for CometD-based subscribers only
- Configured through the Metadata or Tooling API

```
{  
  "FullName": "SalesEvents_AccountChangeEvent",  
  "Metadata": {  
    "enrichedFields": [  
      {  
        "name": "External_Account_ID_c"  
      },  
      {  
        "name": "Industry"  
      }  
    ],  
    "eventChannel": "SalesEvents_chn",  
    "selectedEntity": "AccountChangeEvent"  
  }  
}
```



SOQL



SOQL FIELDS(Custom)

- New addition to existing FIELDS(ALL) and FIELDS(STANDARD)
- Currently works with CLI and SOAP/REST API – Does not work in APEX
- Limited to maximum 200 records
 - Select all custom fields in SOQL
 - SELECT FIELDS(CUSTOM) FROM Account LIMIT 200
 - Can mix with specific standard fields
 - SELECT Name, Id, FIELDS(CUSTOM) FROM Account LIMIT 200



Sandboxes



Track differences between your Project and your Sandbox

- Automatically track changes to metadata components, saving you from tracking them manually.
- See changes pushed to a sandbox by other developers.
- Identify and resolve conflicts between your local project and the sandbox prior to pushing or pulling source.
- CLI command: **sfdx force:source:status -u DevSandbox**

==== Source Status			
STATE	FULL NAME	TYPE	PROJECT PATH
Local Add	WidgetClass	ApexClass	/WidgetClass.cls-meta.xml
Local Add	WidgetClass	ApexClass	/WidgetClass.cls
Remote Changed (Conflict)	Widget_c . s/Widget__c/Widget__c.object-meta.xml	CustomObject	force-app/main/default/object
Remote Deleted	Widget_c.all s/Widget__c/listViews/All.listView-meta.xml	ListView .	force-app/main/default/object
Remote Add	WidgetPermissions	PermissionSet	



Other Stuff



Manual Record Sharing in Lightning

- Classic function finally appears in Lightning

Share

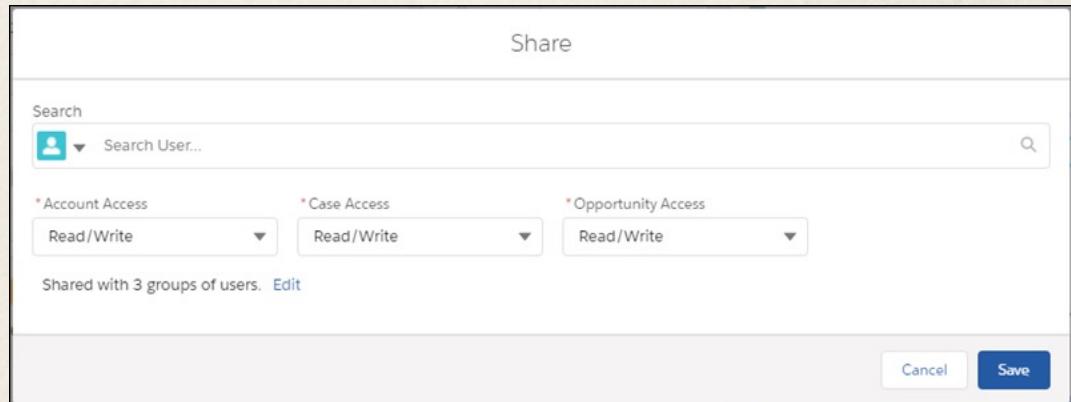
Search

*Account Access *Case Access *Opportunity Access

Read/Write Read/Write Read/Write

Shared with 3 groups of users. [Edit](#)

[Cancel](#) [Save](#)



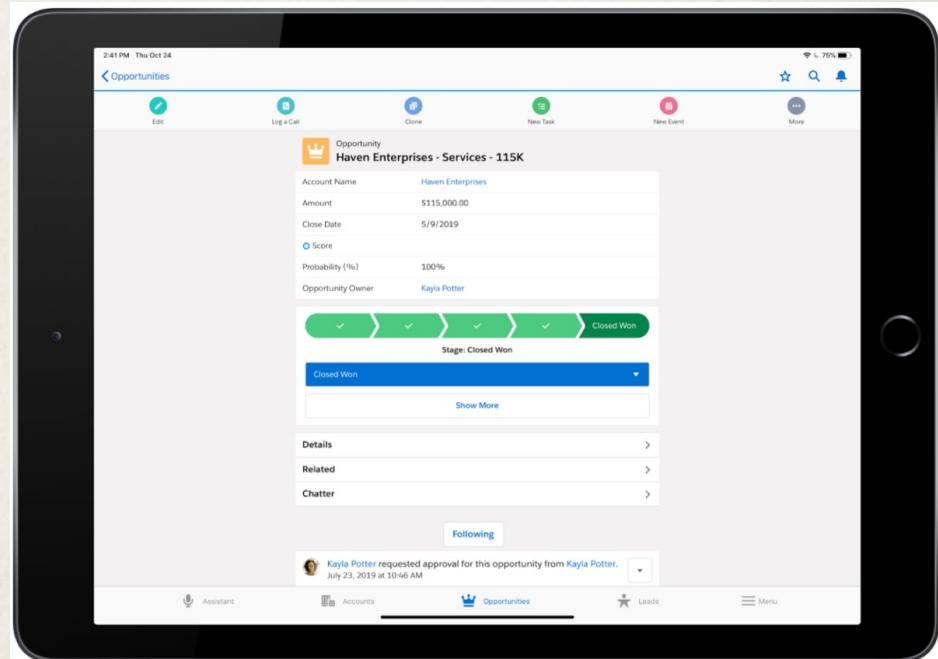
Role limit increase

- Now create up to 5,000 Roles
- Customer Support request to enable this in Orgs created prior to Spring '21
- Be careful of potential Performance impacts



Turn on the New Salesforce Mobile App Tablet Experience

- Salesforce Mobile users can use new single column layout on Tablets
- iOS and Android
- Configured in Admin under **New Salesforce Mobile App Quickstart**





Getting Ready – Summer '21





Key Dates for Summer '21



Pre-Release
Org Sign Up



Sandbox
Preview Starts



Release
Module



Release
Weekends



Release
Notes



Release
Site



Release
Overview Deck &
Feature Matrix



Release Readiness
Live!

15/4

20/4

7/5

7/5

7/5

11/5

14/5 | 4/6 | 11/6

21/5 - 28/5

Summer '21 Release Updates (1/4)

- Enforce Access Modifiers on Apex Properties in Lightning Component Markup
- Aura and LWC will not be able to use private getters in Apex classes

```
public class EnforcePrivateGetter {  
    @AuraEnabled  
  
    public Integer counter { private get; set; }  
  
    @AuraEnabled  
    public static EnforcePrivateGetter GetRepro2()  
    {  
        EnforcePrivateGetter result = new EnforcePrivateGetter();  
        result.counter = 2;  
        return result;  
    }  
}
```



Summer '21 Release Updates (2/4)

- Disable Access to Non-global Apex Controller Methods in Managed Packages
- *“Only methods marked with the global access modifier are accessible by Aura components from outside the package namespace”*
- Updating and testing of managed packages in preview highly recommended



Summer '21 Release Updates (3/4)

- Require Verification When Experience Cloud Users, Partners, and Customers Change Their Email Address
- “*external users to confirm their community email address changes*”
- Make sure your training, support and change management is up to date



Summer '21 Release Updates (4/4)

- Enforce Data Access in Flow Merge Fields
- “enforces the running user’s data access when Flow Builder uses a merge field to access a field on a related record”
- Recommend to test all Flows and Flow execution paths



Finishing Up



- Get this deck : <https://github.com/andrewwhitten/Presentations>
- LinkedIn : <https://www.linkedin.com/in/andrew-whitten-8835b8/>



Trailblazer COMMUNITY GROUPS



Thank You!



Let's succeed together!