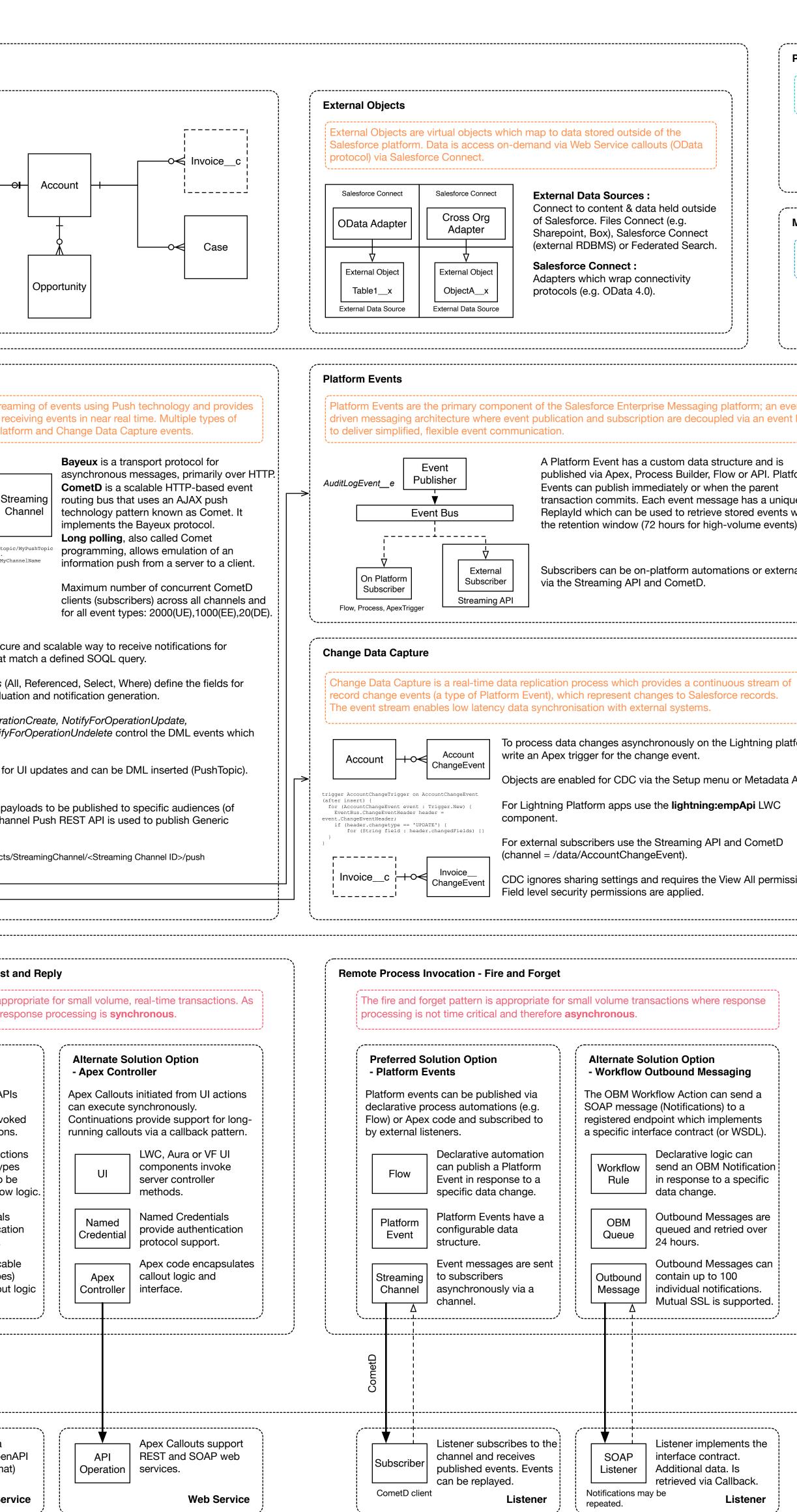
SALESFORCE ARCHITECTURE REFERENCE - INTEGRATION ARCHITECTURE WI21 - FOR INFORMATION PURPOSES ONLY - V1.0 - MARK CANE - 2021-01-31

		Data Architecture
		Object Model
		Contact >0-
		Lead +
ate based on Data Changes		Streaming API
	pplies where time-critical data conditions must g. notifications, metrics).	The Streaming API en a subscription mecha events; PushTopic, G
	Preferred Solution Option - Streaming API	Handsl
ne empApi LWC component provides ccess to methods for subscribing to a reaming channel and listening to vent messages.	The Streaming API enables UI updates based on significant data changes. Events are Pushed.	Subscriber
JavaScript	etD	The Streaming API use Bayeux protocol and CometD for long pollin
Jser Interface lightning:empApi	PushTopics define the triggering event plus the data included in the notification.	Push Topics : PushTopic events pro changes to Salesforc
		PushTopic field <i>Notify</i> which a change will c
		PushTopic fields Noti NotifyForOperationDe generate notifications
		Push Topics are typic
		Generic Events : Generic events enabl subscribers). The Stre Events.
		/services/data/v <api td="" vers<=""></api>
		Platform Events : - Change Data Captu

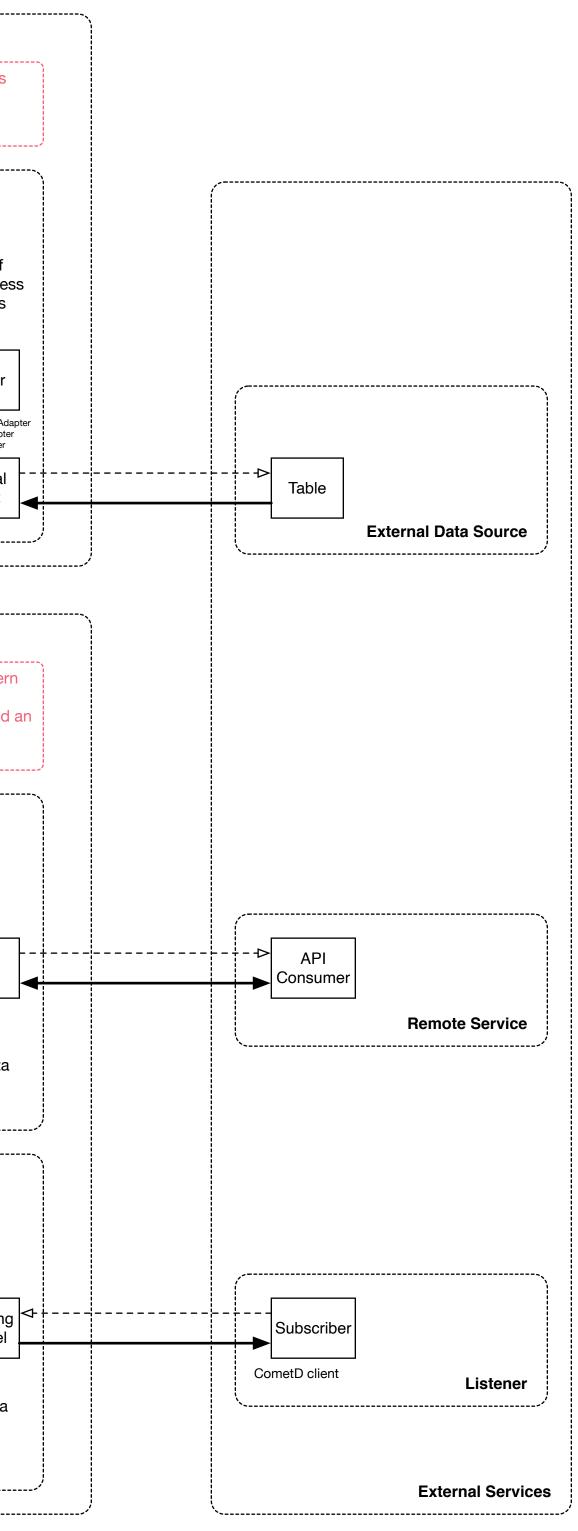
	♥ REST API	OpenAPI schema (JSON-based Oper specification forma
	application/js	web Sei
Extern	al Services	



				\		
				Data Virtu	alisation	
Platform Secu	ırity			where	ata virtualisation patt e realtime access is re nal data.	1 State 1 Stat
		security features, the list below hi	ghlights a small	L		
L	d to the context of this diagram or		tion protocol used by		ferred Solution Opti llesforce Connect	on
support (basi Token Exchar org-wide nan	lentials provide authentication pro ic password, OAuth 2.0, JWT, JWT nge, and AWS Signature Version 4 ned principal or per-user authentic	for the keys required for the t	nnected App provides oken exchange which	whic the s on-c	rnal Objects are virtua h map to data stored Salesforce platform. D emand via Web Servi ata protocol) via Sales nect.	outside of ata is acces ce callouts
Monitoring an				Exte	rnal Objects	Adapter
		rm limit management in a connect o rate limits determined by edition		supp dele	oort read, write and te operations nst external data	OData 2.0/4.0 Ada Cross-org Adapter Custom Adapter
Platform Even (event publisl	 > Outbound Messaging Delivery nts - PlatformEventUsageMetric hing and CometD-client delivery) Setup>Environments>System Over 	object 100,000 plus ast 24H. UE - 5,000 per st	imit Calculation: andard license (EE 1,000) dbox 5M	sour	ces. Relationships be added to local	External Object
	REST API			\		
ent bus		rful but simple REST-based web so REST API Authentication is via OA		Batch Dat	a Synchronisation	
form	Example Resources: GET /services/data/vXX.0 POST /services/data/vXX.0 GET /services/data/vXX.0	/sobjects/account/describe 0/sobjects/account (JSON body)		applie synch	atch data synchronis es where data should pronised between Sale nal system with low la	be esforce and
ue within s).	POST services/data/vXX.0 POST services/data/vXX.0	/composite (Dependent requests singl /composite/tree (Create nested or m /composite/batch (Multiple requests	e call) ultiple records)	Dat	a Initialisation:	
al					ferred Solution Opti Ilk API Insert / Query	
		act-first web service implementation DAP) standards and is optimised for iew records at a time		data Bulk	to establishing synchronisation the API can be used to eve or insert data	Bulk
	The SOAP API enables too the SOAP protocol to prog and data. Two WSDL conti	Is and development platforms (via rammatically interact with the Sale acts are provided; Partner WSDL VSDL is strongly typed and reflect	sforce environment is generic and	volu The stan volu	ently at high mes. Bulk API is based on dards and operates o mes asynchronously ground queue.	n high data
form,	Bulk API			Dat	a Synchronisation:	
API.	Bulk API is based on REST	principles and is optimised for loa nously via parallel processing.	ding or deleting	· · · ·	ferred Solution Opti nange Data Capture	on
	(1) Create Job POST /services/data/vXX.0/jobs/ingest	(2) Add Data (4) C PUT /jobs/ingest/jobID/batches Setup Content-Type=text/csv body=csv data Or,	heck the Status of the Job > Bulk Data Load Jobs	publ ever	nge Data Capture ishes data change ts in near real-time h enables external	Streaming Channel
sion.	"operation" : "insert", "object" : "Account", "contentType" : "CSV", "lineEnding" : "CRLF" }	(3) Close Job (initiates processing) PATCH /jobs/ingest/jobID		reco	ems to synchronise rd changes. nge Data Capture is e	
) 	L	{"state" : "UploadComplete"})	Stre	aming API Channels t rnal subscribers regis	o which
F	Remote Call In	ies to all inbound transactions; sta				

- Platform APIs	on Option	Alternate Solution Option - Apex REST
The Salesforce pla standards-based V implementations for manipulation opera	Veb Service or synchronous data	Standard REST API resources can be extended via Apex code to implemen custom API operations.
SOAP = Contract t integration via WS XML message forr	DL & SOAP	Apex Apex code defines resource path and supported HTTP methods.
Lightweight impler HTTP methods. XI message formats.		The REST Platform AF handles authenticatior via OAuth 2.0.
API		
-		

resources are exposed securely to external systems.



Legend	
0	Integration Patterns
0	Integration Capabilities
0	Security
0	Monitoring