

CASE STUDY **Integrating Salesforce**

with Slack for Improved Incident Management

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At a glance:

The integration of Salesforce with Slack is a pivotal strategy for enhancing operational efficiency. We delve into our innovative approach to solving the challenge of real-time incident notification and management within Slack, bypassing the need for expensive, feature-heavy solutions that exceed the requirements of large organizations. By developing a bespoke integration that not only notifies but also periodically compiles and shares incident reports through Slack, we've showcased our ability to provide scalable, cost-effective solutions tailored to our client's specific needs.

Industry

Customer Relationship Management (CRM)

Technology

- Salesforce
- Slack
- Apex
- Webhooks for Real-Time Data Transmission
- OAuth & Permissions
 Configuration for Slack

Introduction

As a provider of Salesforce Administration services, we understand the critical need for seamless integrations. We often see organizations seeking solutions to alerts, reports, or notifications from Salesforce within Slack or Teams, aiming to avoid unnecessary expenditure on features they don't need. However, existing integration options are often part of larger product suites or solutions that require the purchase of costly licenses dependent on the number of Salesforce users. Especially for large and growing entities with numerous platform users, this quickly becomes an expensive, unnecessary investment in unused features, all to access one straightforward feature.

This leaves many organizations grappling with the challenge of finding an affordable, scalable solution that provides streamlined Salesforce integration with Slack. Additionally, they hope to create an automation that compiles active incidents in a spreadsheet and sends them via Slack at periodic intervals.

Identifying the Problem

We recently collaborated with a client seeking to streamline their incident management process by receiving real-time notifications in Slack when new incidents were generated in Salesforce. Additionally, they aimed to automate the periodic dissemination of active incident reports to maintain oversight and facilitate delegation.

The Challenge

The initial step was to explore potential providers who could offer a solution tailored to our clients' needs. While our analysis outlined that some providers did offer solutions that met and even exceeded the customer's requirements, we determined that the cost, totaling close to \$56,000 annually, was too expensive given they needed just one feature. We felt that we could explore a better solution to meet the customer's request in a more economical way. The customer also agreed that these market solutions weren't the right option either.

The Solution

1. Send Salesforce Incident Details Notification to Slack

To fulfill the client's need for incident alerts, we utilized webhooks to integrate Salesforce with Slack. This allowed us to correctly configure Slack channels and implement Apex logic in Salesforce. Next, we began configuration and implementation on the Salesforce side. We configured a Remote Site to enable access to Slack from Salesforce.

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Following that, we initiated the implementation of Apex logic to send Incident Details to the Slack channel. With these configurations in place, an incident generated in Salesforce would trigger the creation of a new Slack channel, including all involved engineers. A notification including the incident information, like incident status, description, and recommended action, is sent to the channel, allowing involved agents the ability to discuss the incident management in a centralized location, with real-time, updated data.

Here's an example of the delivered message:

ApexTest - December 22nd at 8:17 AM New Incident Registered in Salesforce

- Incident Status: Open
- Incident #: ********
- Correspondent: **********
- Description: Issue with connection, Code: A453, message: transfer has failed
- Number of affected transfers: 6
- API Enabled?: N/A
- Status of Transaction: API Failed
- Processing Time: Within 10 minutes
- Service: ********
- Receive Country: *********
- CC Actions: Can change and/or cancel (Follow Info Icon)
- What to advise: Please get in contact with Tech Team
- Latest Update: 22 Oct 7:16 AM BST notified agents, awaiting response

While this feature proved invaluable for on-call engineers, it proved difficult for management who didn't have Salesforce access, and consequently, didn't have a complete overview of incidents and the number of items being handled at any time. To address this gap in information for management, we developed an additional feature that sent a copy of the incident reports to email, providing management with a quick overview of incidents without being added to relevant engineer Slack channels or managing individual changes in Salesforce.

The configuration for this feature can be seen below:

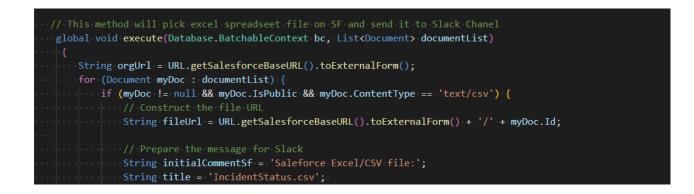


2. Scheduled Incident Report Distribution

To address the client's request for comprehensive incident updates, we developed a feature to generate and distribute periodic incident reports via Slack. Using Apex logic, **we automated the creation of a spreadsheet containing detailed incident summaries**, including all opened and active incidents.



We also configured Slack's 'OAuth & Permissions' settings to enable file sharing. Once the correct permissions were granted on the Slack side, **the next step was to create and send the message** containing the incident details to the Slack channel.



We were able to create a system to create a new message, retrieve and attach the generated incident file to the message, and then send it to the Slack channel. We scheduled this message to be sent four times per day to the Slack channel, providing a regular, comprehensive update available for both management and agents.

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cidentStatus.csv	*										
Incident Number	Incident Status	Correspondent	Created Date	Error Code	Transactions Affected	API Enabled	Status of Transaction	Standard Processing Time	Service	Receive Country	Affect
	Open	10.10	2023-11-24 13:28:41	N/A			N/A	N/A	10.10	-	Do Not
1,10,000000	Open	Access Name	2023-11-17 12:07:17	1		API Cancelled	Within 10 minutes	Airtime Topup	etigtue (unter	40	Do Not
	Open	10.10	2023-09-15 16:27:26	test marko sf admin	34234234		N/A	Within 3 working days	10.10	and and a second	N/A
1,10,0000	Open	10.10	2023-08-07 11:06:55	MARKO BALANT TEST SF ADMIN	234234234		N/A	Within 3 working days	40.00	10.14	N/A
1,10,000	Open	10.10	2023-08-01 13:21:43	MARKO BALANT TEST SF ADMIN	23423423423		N/A	Within 3 working days	10.10	10.1	N/A
1,11,000011	Open	10.10	2023-08-01 13:18:16	MARKO BALANT TEST SF ADMIN	423423423		N/A	Within 3 working days	4.4	10.1	N/A
1,0,000	Open	10.10	2023-08-01 13:15:59	MARKO BALANT TEST SF ADMIN	32423423		N/A	Within 3 working days	10.10	Laboration	N/A
1,10,000111	Open	10.10	2023-08-01 13:13:09	MARKO BALANT TEST SF ADMIN	432423432		N/A	Within 3 working days	10.1	Laboration (N/A
1,10,000111	Open	10.10	2023-08-01 12:54:44	TEST MARKO BALANT SF ADMIN	3423423423		N/A	Within 3 working days	10.14	Laboration (Contraction)	N/A
1,10,000110	Open	10.10	2023-08-01 12:44:17	TEST MARKO BALANT SF ADMIN	24234234234		N/A	Within 3 working days	10.10	Laboration (N/A
1,10,000100	Open	10.10	2023-07-25 14:41:18	TEST SF ADMIN MARKO	TEST		N/A	Within 3 working days	10.00	10.1	N/A
1,10,000000	Open	10.10	2023-07-25 13:50:14	TEST MARKO BALANT SF ADMIN	423423423		N/A	Within 3 working days	2012	10.1	N/A
parts Ministra	Open	10.10	2023-07-25 12:25:56	TEST SF ADMIN MARKO	213213213213		N/A	Within 3 working days	10.1	10.1	N/A
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-	Open	10.10	2023-04-27 08:15:02	TEST SALEFORCE ADMIN Mark…	TEST SALEFORCE ADMIN Mark		N/A	Within 3 working days	10.1	Realized following colors.	N/A
	Open	10.10	2023-04-26 12:41:48	TEST MARKO BALANT MULTIPL.		N/A	Within 3 working days	N/A	hartmala,	8.4	N/A
-	Ongoing Issues	10.10	2023-04-26 11:49:50	TEST MARKO BALANT SF ADMIN	TEST MARKO BALANT SF ADMIN		N/A	Within 3 working days	10.00	folgeting barrenda, raition	N/A
	Open	Access Section	2023-04-26 10:29:07	423432432		API Failed	Within 3 working days	Airtime Topup	Indicion Applic, Salar	and an a	N/A

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Results and Outcomes

The implementation of custom automation yielded significant improvements in operational efficiency for our client's organization. By integrating their Salesforce incident notifications into Slack, agents experienced enhanced time management, resulting in heightened productivity. Previously, the absence of such automation often led to oversight of old open incidents, contributing to inefficiencies within the system.

With the new automation framework in place, management gained invaluable insight into daily incident activities, empowering them to exercise effective task delegation, even for long-standing or neglected incidents. This comprehensive oversight facilitated proactive measures in addressing issues, ensuring a streamlined workflow and timely resolution of incidents.

Conclusion

This case study demonstrates the necessity of customized solutions for organizations dealing with unique operational hurdles. While off-the-shelf options are available, cost concerns often deter their adoption. By introducing custom automation, our client not only addressed these challenges but also saved over \$56,000 annually compared to standardized solutions. This success highlights the practical benefits of tailored approaches in improving operational efficiency and cost-effectiveness. In essence, our case study illustrates how personalized solutions effectively meet specific business needs in a straightforward and economical way.



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