

Event Logging Framework

PROJECT BACKGROUND

Idea: Event Logging Framework for Mule Services.

Business Case: Generic Event logging framework for mule services

Problem Statement:

Currently All Mule applications use the Logger (default), Mule server will use this and write the files. Which as a result consumes the Heap Memory.

Goal Statement:

Creating an Event Logging Framework for Mule Services to perform Event Logging in DB, reduced the Heap Dump issue and helps to track down issues easily using event logs tables and also provides code reusability.

SOLUTION IMPLEMENTED

Creating a reusable Event Logging Framework for Mule Services to perform Event Logging in DB, and reduced the Heap Dump issue and helps to track down issues easily using event logs tables and also provides code reusability.

OTHER DETAILS

Idea Logged By: Himanshu S Srivastava

Project/Team Name: UHOne Transformation 2.0

Project Nature: Event Logging Framework

IT Leader: Srinivas Ramsagar

Business Segment: OGS

ADG:

ADG Leader:

Offshore approver: K T, Srikanth

Onsite Approver: N/A

BENEFITS

- No need to create the event logging separately for each service.
- Developer can easily use the API using jar reference from maven repository.
- API is open source, easy to maintain and can be enhanced in future as well.
- Easy to access logs from event tables.
- **Implemented in IVR, Stepwise and Facets Attachments.**
- **Currently being utilized in Email Notification API as well.**

Financial Impact

Description	Before Improvement	After Improvement	Units	Comments
Service Per Quarter	6	6	APIs	For each API custom event logging needs to be added.
Custom Event Logging Efforts Per Service	95	12	Hrs.	After development of generic logging API ,no testing needs to be done for event logging API separately, Just needs to verify the event logging data in tables
AppOps Debugging and Analysis Efforts Per Quarter	32	16	Hrs.	Per Week = 2hrs. Per Quarter = 32 hrs. After Improvement(Per Quarter) : 16hrs
Total Effort (Yearly)	(2220+768) = 3048	(288+256) =544	Hrs.	(Efforts Per Service*Service Per Quarter)*4 + (Debug Efforts *Service per Quarter)*4
Savings	2504 Hrs		Dollars	\$39 per Hrs.
Total Cost Savings: 2504Hrs			Dollars	\$97656.00

Other Details

UTILIZATION DETAILS

Decreased manual effort where resource has to spend time on writing Event Logging for Mule Services to perform Event Logging in DB. Also reduced that Heap Dump issue and helps to track down issues easily using event logs tables and also provides code reusability.

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Leveraging Opportunity

This Concept can be implemented in any project where Mulesoft is being used.

SIGN-OFF MAIL



FW: The Bright Idea Event Logging Framework for Mule Services - Approved By Black Bell (To be implemented By Srirastava Himanshu S[Factis].msg)



RE: The Bright Idea Event Logging Framework for Mule Services - Approved By Black Bell (To be implemented By Srirastava Himanshu S[Factis].msg)