IFG for Integration – SAP Application Interface Framework Status Update & Roadmap

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Agenda

Overview – SAP Application Interface Framework

Recent innovations

Roadmap
AIF at a glance
SAP Application Interface Framework
Value Proposition

Reduce time & cost for error handling
- Less IT workforce through empowered business users
- Role-based access, automated alerts, easy error handling

Ensured governance across your system landscape
- Application interface logic manageable in a structured way
- Fast implementation
  → well defined guidelines, reuse of components
- Role-based authorizations
  → controlled access, sensitive fields hidden
SAP Application Interface Framework

The big picture

SAP S/4HANA or SAP Business Suite

- Standard Applications
  - SAP Functions
  - Custom Functions
  - Data
  - Alert Management
  - Application Log
  - Security / Authorizations

SAP Application Interface Framework

- Interface Customizing
  (e.g. data validation, value mapping, actions, variants, etc.)

- Monitoring & Error Handling
  (Forward Error Correction)

API Layer (e.g. IDoc, Proxy, RFC, Web Services, files, OData, etc.)

Application Layer

Integration Layer

SAP Cloud Platform Integration Suite incl. Integration Advisor

SAP Process Orchestration

3rd Party Middleware

Cloud Applications
On-Premise Applications
B2B / B2G

Cloud Applications
On-Premise Applications
B2B / B2G

Integration Developer

Business User

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Recent innovations
Recap: Enhanced Data Protection and Privacy capabilities at a glance
Shipped with AIF add-on 4.0

Master Guide Enhanced
- New chapter Data Protection and Privacy provides you with an overview of the personal data in SAP Application Interface Framework and with details about how to protect these data.
- See Master guide at help.sap.com

External Contact Enhanced
- New autonomous object replacing the external address of a recipient.
- Enables you to independently manage external contacts and to protect their personal data in the best possible way.

Read Access Log (New)
- Read access logging for the content of data messages and uploaded files.
- Enables you to answer questions about who accessed particular data within a specified time frame.

Change Log Enhanced
- Change logging for the content of data messages, value mappings, and external contacts.
- Enables you to check when a change was made, which employee made which change, the previous value, and the current value.

Data Archiving Enhanced
- New archiving objects and archiving programs for data messages, file adapter, and all related data.
- Enables you to use SAP Information Lifecycle Management (SAP ILM) for a more sophisticated and automated information lifecycle.

Blocking and Deletion (New)
- New SAP ILM objects for data messages, value mappings, and external contacts.
- Enables you to manage the blocking and deletion of personal data according to your legal obligations.
Recent innovations at a glance

Protocol support
- RFC enabled
- Basic OData enablement to display errors for error monitoring

Web Dynpro message dashboard enhancements
- Users enabled to download message content in the message dashboard
- Better payload view for the message monitor
- Forward navigation to another application

Display message alerts in notification center of the SAP Fiori launchpad

API for integrating AIF with FRUN

Optimized monitoring of serialization scenarios
- Navigate to root predecessor
UI improvements
Display message alerts in notification center of the SAP Fiori launchpad
Download message content in the message dashboard
Better payload view for the message monitor

**Before**

**New**
Optimized monitoring of serialization scenarios
Serialization purpose: Sequencing of Interface Messages

Requirement
- Some interface messages need to be processed in a certain order
- A subsequent change is allowed to be executed only after all predecessor messages have been processed successfully

Example
- Multiple subsequent updates of address data
- FI Document change/reverse

Serialization Type:
- External Index
- External Timestamp
- Internal Timestamp
Sample: Serialization Customizing for Central Finance
Challenges

- Lots of messages are in status *In Process*
- High volume
- High number of errors
Improvement addressing *blocked* messages

New: Navigate to root predecessor

SAP note 2713863 - Serialization: to quickly locate root predecessor messages

Action:
- Solve the business error and re-process Message in /AIF/ERR
- In case of “Document already posted” errors, you can cancel such message after double checking
- The successor messages will be automatic triggered and processed
Improvement planned addressing lots of *In Process* messages

Sub status for *In Process* messages
- In Process
- Waiting to be processed
- Auto reprocessing
- Blocked by predecessor
- Error in job processing

Planned* to be shipped with release 1909

* This is the current state of planning and may be changed by SAP at any time without notice.
Roadmap
Customer Engagement Initiative Project in 2019
Monitoring and error handling in SAP S/4HANA and SAP S/4HANA Cloud

As SAP Application Interface Framework has become the de facto default monitoring and error handling tool in SAP S/4HANA and SAP S/4HANA Cloud, its adoption is increasing.

With the growing usage in SAP S/4HANA and SAP S/4HANA Cloud, new requirements towards the framework have come up, and hence SAP plans to invest in the following topic areas:

- Fiori UI for message monitoring incl. monitoring of serialization scenarios
- Fiori UI for customizing & configuration of the application interfaces
- Monitoring in the context of SAP Central Finance
- Interoperability between AIF & SAP Cloud Platform Integration
- Interoperability between AIF & SAP Cloud Platform Workflow Services
Innovation Roadmap

**Recent**

Data protection and privacy compliance
- Log access to personal data
- Enhanced change log to track changes
- Block and delete personal data using *SAP Information Lifecycle Management*

Monitoring and error handling
- Navigate to root predecessor
- Message alerts in *SAP Fiori* notification center (Cloud)

Interoperability
- Advanced message monitor in *Focused Run for SAP Solution Manager*

**Planned***

Monitoring and error handling
- Find predecessor in Web Dynpro UI
- Sub status for *In Process* messages
- *SAP Fiori* UI

Protocol support
- OData enablement

Interoperability
- Show technical errors of *SAP Cloud Platform Integration*
- *SAP Cloud Platform Workflow* service for alerting, approvals, etc.
- *SAP Cloud Platform Integration Advisor* to create mappings and validation checks
- Machine Learning to cluster errors, predict erroneous situations, automatically resolve errors, etc.

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Sneak preview: Interoperability between AIF & CPI
Scenario: CPI is used as middleware to send messages to S/4HANA
Problem: Errors in SAP CPI are not monitored in AIF
Approach: Error Forwarding from SAP CPI to SAP AIF
Summary Error Forwarding from SAP CPI to SAP AIF

Supported Scenario: Inbound IDOC, Inbound Web Service

Timeline*:

- On-premise: Release 1909
- Cloud: Release 1911

What will be provided:

- Custom Application Engine, Custom Persistence Engine in AIF
- Integration Package with Examples and Integration Guide on SAP API Business Hub

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Further information
Further information

- Product information
- Roadmap
- Solution brief
- Community
- SAP Help Portal
  - Release notes, master guide, installation and upgrade guide, security guide, etc.
- FAQ note
- License FAQ
Thank you.

Contact information

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