SOA Expert Series:
Intro to Oracle MFT for SOA Suite Customers

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Webinar Housekeeping

- Use the streaming audio or call into any of the US or International numbers provided by GoToWebinar
- Everyone will be on mute for the session – ask all questions via the Q&A interface
- Ask questions throughout the session. We will answer as we go via Q&A and then discuss a few more broadly during the Q&A at the end
- Slides, recording of session and consolidated Q&A will be made available within a day or two at www.middleworks.com/soa-expert
- After this session, please fill out the feedback survey:
  - www.surveymonkey.com/r/12c-upgrade-webinar-feedback
Agenda

• Intro and Kickoff
• Dave Berry: Oracle prod mgmt MFT overview
• Ben Kothari: An MFT implementation case study
• Q&A

Please take this unique opportunity to ask any detailed or technical questions of the MFT engineering, prod mgmt and A-team experts we have on the webinar!

For those with a specific MFT project, please fill out the Oracle prod mgmt MFT survey at: https://www.surveymonkey.com/r/SZH6YSB
MFT Intro Q&A and Wrapup

• Please fill out the webinar feedback survey:
  • https://www.surveymonkey.com/r/SOAExpertFeedback
• All slides plus extra content available by tomorrow at:
  • http://www.middleworks.com/soa-expert/#MFTWebinar
• Next webinar scheduled to be OSB internals session presented by Oracle A-team and based on the Oracle internal SOA “Blackbelt training”
• And thanks!!!
Oracle Managed File Transfer

Mature, Fast and Flexible

Dave Berry
Director – SOA Product Management
Program Agenda

1. Customer Update
2. MFT Functional Overview & Demo
3. Partner Customer Use Case
4. Q & A
Oracle MFT Customer Profiles

“MFT is a great addition to a great integration platform”

• Customers base spread across all verticals
• Batch Files: HR, orders/remittance, product, project ...
• Traction with existing FMW, SOA and SaaS customers
• Primary use cases: Bank sFTP(s) <-> eBiz/PSFT/SaaS ...
• Value Add: Encryption, visibility, SOA/B2B integration
• Replaced: Legacy, custom, and ESB file solutions
• MFT Cloud Service & Hybrid Cloud for SaaS/HCM/ERP batch integrations

Customer Quotes

“MFT doesn’t require tons of support. It’s off the shelf software with enough customization capability to adjust how it behaves to meet our needs. One less thing I have to worry about. It is 100% reliable.”

“We love Oracle MFT”
MFT Banking Connectivity Architecture

- SAP ECC ERP
- Fusion MFT
- ISO/XML File encryption using PGP & sFTP
- Remittance Statement & Payments
- Connection request for sFTP initiated from the MFT server external banks; No inbound connections from banks
- Remittance Statement & Payments Files
- ISO/XML File encryption using PGP sFTP
- Citibank
- HSBC Bank
- FiREapps FX exposure Analytics Software
- Bank of America Merrill Lynch
- Ledger detail from SAP

From 2015 Oracle Open World Session
Oracle MFT Cloud SaaS Batch Integrations

Fusion HCM Cloud
- Recruitment
- Payroll
- Benefits

Fusion ERP Cloud
- Financials
- Procurement
- Project Portfolio
Program Agenda

1. Customer Update
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Uncontrollable problem of file exchanges
Lack of control, visibility, security & reliability

- Cost of using custom or outdated solution
- No central control on exchanges of sensitive information
- No global visibility
- Not integrated with enterprise security standards: FTP servers are rarely integrated with directories
- Single points of failure: FTP servers rarely offer HA capabilities
- Self Managed: Pain of upgrades
Oracle MFT – Functional Overview

Separate SKU for On Premise and Oracle Public Cloud

- Enterprise HA & Security – SSH, PGP, sFTP, SSL …
- Simple Console Based Designer
- Global Visibility & Management of File Transfers
- Automated Push, Polling & Scheduled File Transfers
- Large Pass-by-Reference File Handling
- Fully Integrated: SOA, WLS, iDM, B2B, ODI, WCC …
- Extensible by Integration or Programmatically
- Cloud endpoints, Event Triggers, REST API’s …
MFT Functional Use Case Patterns

**Sources**
- Embedded and Remote sFTP(s)
- Local File
- SOA Suite/ SOAP
- ODI/B2B/Healthcare
- WebCenter/Oracle Cloud Storage

**Transfers**
- Content Filters
- PGP Encryption
- Compress
- Notification

**Targets**
- Remote sFTP(s)
- Local File
- SOA Suite/ SOAP
- ODI/B2B/Healthcare
- WebCenter/Oracle Cloud Storage

**Direct**
12.2.1 - Run Now Event

- S -> MFT -> T

**Fan Out**

- S -> MFT -> MFT
- MFT -> T

**Pass-By-Reference**

- S -> MFT
- MFT -> SOA
- SOA -> MFT
- MFT -> T

**ODI Deliver and Notify**

- S -> MFT
- MFT -> sFTP
- sFTP -> ODI

**Hybrid Cloud**

- S -> MFT
- S -> SOA

**Backup/Big Data**

- T -> STOR
- STOR -> BIGD

**Document Collaboration**

- S -> MFT
- MFT -> WCC
- WCC -> DOCS

**SaaS Deliver and Notify**

- S -> MFT
- MFT -> WCC
- WCC -> HCM
Oracle MFT – SOA Integration

• Use Cases
  – SOA 11g/12c Reference invokes MFT Source
  – SOA 11g/12c Service invoked by MFT SOA Target
  – Process very large files by passing an FTP or file reference
  – Leverage SOA manual tasks, orchestration, transformations ...
  – OSB: virtualize file transfers, additional protocols, JMS ...

• New 12c JDeveloper Support for MFT
  – New MFT WS Binding for Composites and BPEL
  – Process inline payload, attachments or pass-by-reference
  – Easy header processing: File name, size, user, transfer name

• Integrated MFT and EM Monitoring
  – Bi-directions cross linking of consoles
  – Shared ECID, Correlation Id
Oracle Managed File Transfer – Release Timeline

12.1.3 On Prem
- sFTP/FTP, Embedded servers
- Visibility, monitoring
- Security: PGP, SSH

12.1.3: MFT CS
- Embedded sFTP (Push)
- Remote sFTP (Pull)
- User Clustered Provisioning
- Metered + Non-Metered
- Scheduled Purge

12.2.1.0 On Prem
- OPC Storage. WebCenter(HCM/ERP)
- ODI binding types: sFTP
- API’s: REST, Events
- Schedules dashboard, New UI
- Transfer Priorities, Notifications

12.2.1.0: MFT CS
- OPC Storage. WebCenter(HCM/ERP)
- ODI binding types: sFTP
- API’s: REST, Events
- Schedules dashboard, New UI
- Transfer Priorities, Notifications

12.2.1.1/2 OnPrem
- PGP/SSH Certificate UI
- Scheduled & Purge now UI
- REST Management API’s
- Target resiliency, Performance
- Actions: RunScript, Replace

17. * MFT CS
- Multi-node 12.2.1 cluster
- MFT <-> ICS SOAP Adapter
- SFTP Server Auto Provisioned
- Integration Cloud Suite

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MFT Cloud Service Simple Provisioning

Create Instance

MFT Cluster

Installs and configures Oracle Managed File Transfer.

Oracle MFT 12.1.3

- WebLogic Server and Fusion Middleware 12.1.3 on Oracle Linux 6.4

Oracle MFT 12.2.1

- WebLogic Server and Fusion Middleware 12.2.1 on Oracle Linux 6.4
Oracle MFT Demo – Hyperion Accounts to Fusion ERP GL

- Account Sync
- Real time push
- Secure protocols
- Encrypted payload
- Filter by filename
- Dynamic pass-by-ref
- Delivery notification
Program Agenda

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Hardware and Software
Engineered to Work Together
Oracle MFT Packaging

*Standalone SKU for Both On Premise and Cloud*

- MFT SKU’s are **not** part of SOA Suite or SOA CS
- MFT On Premise SKU
  - Pre-Req: WLS EE or Suite + Oracle DB
  - Processor(30k) and Named User Options(600)
- MFT Cloud Service SKU
  - Pre-Req: DBaaS(SE, EE) + Storage(TB’s)
  - Optional: OTD Load Balancer, VPN service
  - MFT CS provisioned as SOA CS Service Type
  - Non-Metered (2250/mo), Metered (4500/mo) subscription

[cloud.oracle.com/soa](http://cloud.oracle.com/soa)
MFT Extensibility Use Cases

*Integrate and Extend*

- **Extend by Integrating**
  
  SOA Suite/Data Integrator/SOAP
  
  - XML transformation, Workflow approval, Big data
  
  - Orchestration, Complex batching/debatching

  B2B/Healthcare Partner Management
  
  - File translation: EDI/HL7 translation
  
  - Protocols: AS2/AS3/AS4

- **Extend Programmatically**
  
  Java Callouts/Apps
  
  - Checksum validation Find/Replace, CSV Debatch
  
  - File rename, code translation, File upload

  Scripting: JavaScript, Python, Win Bat, Shell …
  
  - File handling: validation, md5, tar, gzip, custom FTP
  
  - Endpoints: HCM, DOCS CIFS/SMB, S3, SharePoint …
Oracle MFT – Enterprise Security

*Out of the Box End to End Security using Multiple Keystores*

• File Encryption – PGP
  – Encrypt/decrypt Actions on all artifacts
  – Certificates keystore managed by WLST commands

• FTP and sFTP Embedded Servers Access
  – Inbound file upload
  – Pass-by-reference outbound access

• Source & Target Web Service Policies
  – Standard OWSM policies
  – SOA, SOAP, OSB, ODI, B2B, HealthCare

• Web Console SSL and Role Based Access
  – Admin(All), Deploy(r/o monitor), Monitor(r/o design)
  – Managed from WebLogic Console/API’s
Oracle MFT Topology
Enterprise Deployment Guide

bit.ly/mftedg
Oracle Managed File Transfers
The center of attention