As digital engagements and adoptions are exponentially increasing among consumers across industries and channels, entire technology ecosystem (including vendors, customers, partners, system integrators) is under pressure to improve efficiency, provide best lifestyle support, increase profitability and transform their value proposition in order to thrive and sustain business models in today's hyper connected world.

Having a viable digital strategy can make the difference between transforming ecosystem's business and capitalizing on opportunities based on adoption of emerging technologies. Application Programming Interfaces (APIs) play a foundational role in realizing this strategy.

Mindtree brings in technology expertise in order to respond to increasingly connected consumers with intelligent, personalized, integrated and delightful experiences. We recognize the trends together customer requirements and realize the strategy in order to capitalize on the big shift. Our continuous mantra has been 'API First' throughout Enterprise Connected Services (ECS) integration practice.

It opens door for agile innovation, quickly adapt to market changes, new competitors and capitalize the opportunity to gather wealth of data about products, services, apps, developers and users as single ecosystem. Enables business to participate in the digital economy.

### Enterprise Connected Services

<table>
<thead>
<tr>
<th>Integration practice complete enablement and journey for enterprise</th>
</tr>
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<tbody>
<tr>
<td><strong>CORE</strong> Run the business</td>
</tr>
<tr>
<td><strong>EDGE</strong> Change the business</td>
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<table>
<thead>
<tr>
<th>DevOps</th>
<th>Deployment model</th>
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<tbody>
<tr>
<td>APIs</td>
<td>Containers</td>
</tr>
<tr>
<td>CI / CD</td>
<td>Process &amp; Data integration</td>
</tr>
<tr>
<td>Micrservices</td>
<td>Managed services</td>
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</tbody>
</table>
Integration practice leverages experiences from different projects and stakeholders of an enterprise to react quickly to dynamic nature of user requirements and business execution. Mission critical core processes (also known as “core services”) are still managed and operated by central IT with system integrators and vendors as managed services. These services run the business and change rather frequently.

Other side of the spectrum is the line-of-business trying out new or adapt to business / digital disruptions quickly in an agile way. Innovation by ‘fail-fast’ strategy is experienced and practiced, which in turn is creating “edge services”. Edge services is getting more and more importance to enhance or disrupt existing business models and therefore changing the business.

Mindtree’s Integration Strategy is purely driven by our commitment and continuous engagements with customers. Customer engagements have been primarily focused into consultancy, architecture assessment, implementations, delivery, support, partner collaboration, presales support and operations for HIP (Hybrid Integration Platform) enablement.

Mindtree’s well established business working model and technical frameworks or accelerators around Continuous Delivery, focus areas have been into – Microservices, Process Integration, Data Integration, EDA (Event Driven Architecture), API Management & Lifecycle adoption, iPaaS & iPaaS based solution as well as deployment, Streaming Analytics, IoT Integration, Big Data, Data Lake & Big Memory Integration & Adoption, Cognitive Computing (including AI, Machine Learning), DevOps adoption from middleware perspectives and BPM driven IT transformation. Focus areas have been evolved to align with Hybrid Integration Platform (HIP).

**Components required for HIP to run and change the business successfully is shown as:**

- **API Management**
- **API Getaway**
- **Application Integration** (on a PaaS)
- **Application Integration** (on premise / public cloud)
- **iPaaS** (Integration Platform as a service)
- **iPaaS** (Integration Software as a service)
- **Cloud-Native** (Integration Software as a service)
- **Cloud Ready** (Integration Software as a service)
- **Process integration**
- **Streaming Analytics**

**Benefits reaped through Mindtree’s Enterprise Connected Services (ECS) are described as:**

- Independently deployable and scalable services (microservices based approach) in addition to existing EAI and SOA driven implementations. Starts with enabling customer through technical workshops and sessions as awareness into microservices architectural style

**API Predictions and Trends**

- API Consumption at a rapid rate
- API Discovery and Marketplaces are springing up to facilitate API consumption
- API Product Management and Full Lifecycle API Management will see more increase in adoption
- Graph QL and Nodejs will continue to grow quickly
- Open API specification will gain wider adoption
- Bots, AI and IoT will continue to drive API adoption
- Microservices , DevOps will become more closely associated with API Gateway (Integrate, Secure and Monetize Microservices)
- Server-less architecture will be adopted by all cloud / HIP (Hybrid Integration Platform) providers
- IoT Security mandatory clause will force API security
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- Domain driven design pattern for projects like Data Lake and common integration platform driven by APIs is experienced where business domains / LOBs enforce segregation of monoliths and organized around business capabilities.
- De-centralized governance and data management brings in more operational efficiency from infrastructure, production support, operations and DevOps support structure teams.
- DevOps first approach is currently practiced by customers where there is joint collaboration between SI, developers/architects community within customers & System Integrators and operations team. For projects involving initial architecture with solution, physical and logical –stress have been mainly into – a. deployment models (either on-premise/ hybrid / cloud based), b. architectural guidelines, policies & principles, sizing & capacity planning (Elasticity without downtime) based on volumetric analysis & forecasting of TPS, c. Design & Configuration (Automated Configuration management, Continuous Release aligned with agile practice in multiple defined sprints, application build and deployment process), d. Automation during implementation phase achieved through continuous integration, continuous monitoring, installation & setup, continuous testing, e. Operational intelligence – business services profiling, performance optimization, KPIs monitoring (business as well as system specific to supporting infrastructure).

- Responsive & Resiliency – With adoption of API, CIP, Mediation, ESB, and BPM stack along the core hybrid integration platform continuously measuring application response and providing resilient mechanisms have become an utmost priority starting with complying with mandatory compliances. Ensuring resiliency with processes, standards, functions and entire value chain drives complete solution to meet NFR requirements throughout CoE practices.

A holistic view of our ECS consists of Product view, Capability view, Industry Use Case view, Architectural view, Feature and Methodology view. These views are taken into consideration during consultancy, architectural assessment, technical proposal, presales/post sales and execution / delivery engagements.
Product View

Practice team provides competitive intelligence and analysis as part of product view to customers during evaluation and assessment phases of middleware / API products.

<table>
<thead>
<tr>
<th>Product Features</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Architecture (EA)</td>
<td>Provides architecture guidelines, principles and design patterns. Practice focuses on artifacts associated with EAI, SOA, BPM, API engagements</td>
</tr>
<tr>
<td>Enterprise Service Bus (ESB)</td>
<td>ESB forms the core backbone for middleware practice and adoption within customer’s projects</td>
</tr>
</tbody>
</table>
| Model to Execute (M2E), BPM       | Understanding Business Process Management (BPM) as a management practice. Includes both organizational and technical implementation projects. Uncover challenges:  
  - How will business requirements be implemented  
  - How will business and IT work in concert  
  - How will work progress and be synchronized between business and IT  
  - How will transparency be assured during implementation  
  - How will change request for already implemented processes be handled  
  To meet these challenges, M2E is proposed, while runtime execution of M2E requires BPM stack |
| Operational Intelligence & Streaming Analytics | Streaming analytics, also called event stream processing, is the analysis of large, in-motion data called event streams. These streams comprise events that occur as the result of an action or set of actions, such as a financial transaction, equipment failure, or some other trigger.  
  Operational Intelligence (OI) is a form of real-time dynamic, business analytics that delivers visibility and insight into business operations. OI solutions run query analysis against live feeds and event data to deliver real-time visibility and insight into business and IT operations. |
| Messaging                         | An enterprise messaging system (EMS) is a set of published enterprise-wide standards that allows organizations to send semantically precise messages between computer systems. EMS systems promote loosely coupled architectures that allow changes in the formats of messages to have minimum impact on message subscribers. |
| In Memory Data Fabric (IMDF)      | Comprehensive in-memory data platform that includes data grid, compute grid, complex event processing and real-time streaming |
| DevOps (Middleware context)       | DevOps practice / scenarios for middleware reflects different usage patterns for middleware application development, improvement and maintenance. DevOps in this context provides guidance to – a. Accelerate software delivery, b. Balance speed, cost, quality and risk, c. Reduce time to feedback |
| Microservices                     | Microservices is a specialization of an implementation approach for service-oriented architectures (SOA) used to build flexible, independently deployable software systems. In a microservices architecture, services should have a small granularity and the protocols should be lightweight. |
| Deployment Model                  | There are different deployment models required for applications to be running. We focus on three kinds of deployment models and practices – On-Premise, Public Cloud and Hybrid models. Based on different cloud computing practices like iSaas and iPaaS, deployment models are proposed accordingly. |
Application to Application (A2A) Integration with MDM

Master Data management is practiced from application to application integration for federated as well as centralized data hubs. In digital integration practice, some of the design patterns and frameworks are developed to facilitate data lake initiatives and data driven workflows.

Governance

Governance adopted in HIP and iPaaS scenarios, practice could easily manage service interfaces as well as ensures all the system interactions are secure and conform to policies and standards as applicable.

Capability View

Capability view is formulated by ECS practice team based on technology categories and their support to integration scenarios, patterns, deployment & operational models and governance.

Methodology View

ECS follow CoE adopted methodology for API, Integration and BPM based solutions and projects. Also includes frameworks, accelerators in the form of utilities or tools and artifacts associated with execution model and automated testing. Methodology activities or tasks are classified as assessment, implementation and operations.
ECS practice focuses on adopting methodologies based on Mindtree’s extensive experience into middleware integration practice.
Mindtree ECS practice provides initial assessment of the integration adoption and maturity along with vertical practice engagements. Depending on requirements, consultants with various skills and level of experience are engaged into core integration projects.

**ECS Practice and API Maturity Model**
Mindtree’s ECS Practice maturity model is focused on either Bimodal (Systematic + Adaptive) or Staying-on-Top (Plug-and-Play)

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Each of these aspects are religiously reviewed with assessment at customer’s API adoption engagements. With evolving nature of digital business platform, integration practice also keeps evolving with new evaluation and maturity assessment criterion.

**API Maturity**
Focus on practicing and adoption of microservices based approach, SOA based implementations covering a journey from Megalith platform to Monolith platform to Macro SOA platform to Meso application platform to Microservices platform.
DevOps Adoption with ECS practices and delivery

API maturity is also assessed through adoption of DevOps with the following aspects of practice and tools deployed during phases:

- Application performance management
- Monitoring & health check
- End user experience monitoring
- Analytics and operational intelligence
- Incident management
- Continuous integration
- Continuous build automation
- Automated configuration management
- Continuous testing
- Continuous delivery & release
- Artifact repository
- REST API
- Source code management
- Release automation
- Containers
- Microservices
- QA automation
- Load testing
- Performance testing
- Log analytics
- On-Demand application environment
- Collaboration and communication
- DevOps integration
- Adaptive security
- Backup & recovery

In addition, KPI driven DevOps metrics is also monitored and adopted through the engagements.

- Deployment frequency
- Change volume
- Lead time (From development to deployment)
- Percentage of failed deployments
- Mean time to recovery (MTTR)
- Customer ticket volume
- % change in user volume
- Availability
- Performance (Response time)

API Strategy and Landscape

‘API First’ adoption strategy is practiced by Mindtree across partners and customers. Using API as platform it provides tangible benefits in a short to long term API engagements and consultancy services.

API landscape is focused towards three major areas – firstly current offering to API adoption customer (In alignment with API Maturity adoption), second – Strategy execution and thirdly – Market growth and presence realization with API adoption.
Table shows different kinds of API platform and benefits.

<table>
<thead>
<tr>
<th>API Platform</th>
<th>Benefits</th>
<th>API Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run Business Anywhere</td>
<td>The APIs support multiple channels of access, preferably without the service needing to change its implementation to support other channels</td>
<td>System APIs connect with existing assets (System of Records) through multi protocol, enterprise adapter based integrations. They are built for longer sustainability and, relatively complex solutions.</td>
</tr>
<tr>
<td>Connect and share enterprise data with Cloud service providers.</td>
<td>Increase business agility and reduce development costs since services can be reused across channels</td>
<td>Process APIs help in building a hybrid integration model, aggregate information, route to System APIs.</td>
</tr>
<tr>
<td>Single published interface for the services</td>
<td>Hybrid platforms provide strong connectivity with existing assets (ERP, CRM, Messaging backbone)</td>
<td>Experience or Channel APIs are lightweight, enable faster integration, suitable for partner subscription management, published for app development and experimentation.</td>
</tr>
<tr>
<td>Used by development, testing and consumers for integration.</td>
<td>Secures the communication with partners against multiple threats and attacks</td>
<td>Device APIs are primarily exposed for consuming information from sensor enabled devices through lightweight messaging protocols.</td>
</tr>
<tr>
<td>Managing Access</td>
<td>Measures and throttles the consumption of services as per subscription tier, SLA, policies</td>
<td>Public APIs are consumed by end users and clients.</td>
</tr>
<tr>
<td>User &amp; application management, SSL, registration/access tokens, encryption.</td>
<td>Promote reuse and development of mobile apps through developer portal and device registration.</td>
<td>Private APIs are consumed by internal systems and channels.</td>
</tr>
<tr>
<td>Partner Subscription</td>
<td></td>
<td>Partner APIs are consumed by B2B partners in the ecosystem.</td>
</tr>
<tr>
<td>Manage Metering and Billing of APIs.</td>
<td></td>
<td>API Marketplace are new revenue generating avenues using APIs.</td>
</tr>
<tr>
<td>Hosting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Services hosted in the client’s own data center or hosted in Cloud.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caching</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduce frequent requests to the database server</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don’t re-invent the wheel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leverage COTS products for existing capabilities</td>
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<td></td>
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</tbody>
</table>

An example of our CPG Reference architecture where “API First” approach is adopted starting from conceptualization to realization phases of project execution.
ECS integration practice and delivery teams supports and aligns combined strategies for API management, PaaS and Hybrid Integration. Entire bundle extends solution spans across unified solution for API management, APIs built using Node.js standards, and developer focused API development and deployment.

**Mindtree’s API Adoption & Practice Focus Areas**

- **API implementation functions based on semantics, modules and functions**

- **Tighter connections with systems of record**
  1. Offloading legacy, mainframes, plm, crm and erp data in the form of data services considered as BaaS ‘backend as a service’
  2. Custom built in libraries and functions exposed as BaaS APIs as adapters
  3. CRUD operations performed as write-behind pattern

- **Adding features to digital practices and projects like –**
  1. cognitive computing,
  2. big data,
  3. machine learning
  4. legacy integration
  5. streaming analytics

- **Supporting industry standards data models like financial services, healthcare, air traffic management**

- **High level business solution focus**

- **B2B use cases**
  1. Federated Identity management
  2. Features for administrators at B2B partners
     i. Manage respective API users and teams
     ii. Serve internal API scenarios
  3. Full featured API gateway
     i. Policy authoring
     ii. Quotas and rate limits
  4. Open web APIs
     i. Package custom API policies – used by API management tools
  5. API product definition
  6. Digital business ecosystem vision
     i. Unified B2B relationship
     ii. EDIs and MFT
     iii. Serve huge transaction volumes from IoT, Mobile and other digital sources

- **API mediation and performance**
  1. Paging, caching and message enrichment
  2. VETRO Pattern
     i. Transform, route and mediate (SOAP ↔ REST, XML ↔ JSON)
     ii. Message parsing, validation, translation and enrichment
     iii. Service aggregation, virtualization, and orchestration with simulation

- **Data center consolidation and migration with respect to middleware (Common integration platform)**
  i. Deployment models extended to hybrid in addition to SaaS based and customer managed

- **API lifecycle management**
  1. From inception to implementation to retirement
  2. Versioning (how different versions of the same API can be leveraged to meet rapidly changing business and customer needs)

- **API solution security**
  1. Security integration
  2. Closed-loop OAuth2 – Mitigate complex enterprise scenarios through configuration rather than custom coding
  3. Device-to-back-end API authentication
  4. Device-level certificate management
  5. Role based access control
     i. Define usage quota and limits by application (roles and groups)
     ii. Traffic throttling and shaping
     iii. Content routing and blocking
  6. Single sign-on to multiple applications
  7. Transfer user sessions across devices
  8. Flexible portal customization
  9. DoS – Denial of Service protection and pre-notification
  10. API attack protection
  11. Bot detection – preprocessing, comparison of feature code, API HOOK, fast detection and sequence detection
  12. Message and Transport layer security (not limited to digital signatures, message envelopes and encryption)

- **API economy**
  1. Integrate pricing and billing out of the box for direct revenue model from APIs
  2. Quotas and rate limits
  3. Customized API portal

- **API analytics**
  1. Streaming APIs
  2. Monitor SLA and QoS
  3. Service profiling
  4. Problem identification including guidance in debugging
  5. API usage tracking and trend analysis (API retirement consideration)
  6. Audit trails

- **Configurable lifecycle management**
  1. Lifecycle stages and transitions
  2. Approval workflow based requirements

- **Federated LOB publishing**

- **Policy authoring, processing**

- **IoT scenarios like – connected cars, telematics, smart logistics, medical devices, industrial IoT**
Integration with DevOps tools
1. Live API creator tool
2. Microservices
3. Containers
4. Continuous integration
5. Configuration management
6. Integration with PaaS
7. Integration with processes and events platforms

Development, Collaboration and Governance
1. Team publishing
2. Driver of Agility
3. Composable enterprises
4. Web based development tools
5. Service life cycle governance
   i. Effective operation of mature
   ii. Communities features
       1. Co-creation processes with internal and external API users

API socialization & deep collaboration
i. Self-registration and subscription
ii. Access to documents, schemas, models, services based on level of authorization
iii. Blog, ratings and comments
iv. Incident ticket management
v. Social media integration (followers and RSS feeds)
vi. Promote and test services

Open source API platform
1. Identity management
2. Integration (Mediation, ESB, Streaming analytics, Operational Intelligence, IMDF, Policies, Audit, DevOps and Governance)
3. Open standards adoption for federal identification and authentication using OAuth and SAML
4. Process management and orchestration
5. Event driven architecture
6. API manager product package
   i. API users
   ii. API publishing and implementation
   iii. Team publishing
7. Service lifecycle management
8. Reports (Based on filter conditions)
9. Back end API orchestration availability in SaaS
10. Public enhancement API backlog
11. Hybrid architecture adoption
   i. Multiple traffic delivery mechanisms including open source
   ii. Integration with caching and distribution power of full CDNs
   iii. Unlimited fully hardened gateway nodes
   iv. Deployed multiple kinds of traffic delivery from vanish gateways to global CDNs, vendor specific APICast Cloud proxy, all the way to lightweight code plugins
   v. Anonymous functioning to deliver traffic while synching with the core management layer out-of-band
   vi. ‘Mix and Match’ based on traffic pattern

Industry specifications, adherence, API marketplace
1. RAML spec during design and definition of APIs
2. Swagger specifications – Import & export Open APIs
3. Integration with Apache camel – Combined API management and implementation platform
4. Trello – API project management and organizing assets, artifacts
5. Access varied arrays of APIs through API marketplace – adoption in progress
   i. Consolidation of APIs from varied vendors into single account
   ii. Slimmed down API management platform

Hybrid integration platform brings in APIs lifecycle management, unified and centralized runtime service monitoring approach during design and implementation phases.

Mindtree’s GTM repository
API repository consists of accelerators, tools, artifacts and POVs

Templates
- Digital Integration Architecture Assessment
- API Architecture Assessment
- Digital Integration Product Evaluation Framework
- Hybrid Integration Platform Adoption Assessment
- DevOps Maturity Assessment
- API Maturity Assessment
- API Design Documentation Template
- Digital Integration Documentation Template
- BPM Technical Design Documentation
- API Deployment Model Design Document

Methodologies
- API Lifecycle Management
- API Adoption
- API Monitoring – Data Lake view
- API Operational Intelligence
- Unified and Centralized Management/ Administration and Monitoring

Tools
- Distributed caching,
- Traffic throttling,
- Quota limit, billing rate, billing fulfillment,
- Pricing,
- Automated API retirement notification,
- Logging framework,
- API services profiling,
- Test automation,
- Exceptional handling, audit trail and trace mechanism

Use Case solutions and frameworks
- OAuth setup
- Product and Price comparison
- API framework for Apigee and SAP ERP
- Scaling and aligned with Hybrid Integration
API Takeaways and Challenges

- Rapid Growth of the API Industry Accelerates Even More with Mobile & IoT Expected to Drive Future Growth
- Improved Integration Drives Decision Making as Lack of Integration Between Existing Tools Holds Teams Back
- Organizations Understand the Need for API Security and Want to See the Security Challenge Solved in the Years Ahead
- API Performance is Paramount — For Both Providers and Consumers
- API Providers Struggle to Balance Speed of Delivery and API Quality
- API Providers Face Losing Users/Customers as a Result of Quality Issues
- The Demand for Efficient, Easy-to-Use Tools Increases as Teams Try to Manage Limitations on Time, Resources, and Skills
- The Lines Between Teams Blur as Developers, Testers, and IT/Operations Are Involved Throughout the Entire API Lifecycle
- Teams Understand the Need for Standardization but Face Challenges When Implementing Key Components

Mindtree’s ECS Practice Strategy Summary

Mindtree’s API GTM enabling offerings is driven by custom and hybrid approach taken along with product vendor and CoE group teams in ECS practice.

- Integration between application integration, data integration, process integration and API management is achieved by identifying gaps in product components by providing home grown frameworks and solutions.
- Enables different roles to work together across citizen integrators, Ad-hoc integrators and integration specialists
- Practice supports the integration of mobile apps, B2B, IoT, data from social media and cloud deployment models
- Practice multiple deployment models like – cloud, on-premises and hybrid
- Framework around unified and centralized management & administration and monitoring for different technology vendors
- Adherence to Rapid application development requirements based on exploiting leveraging rich set of pre-packaged integrations, cloudstreams and adapters to improve overall productivity and supporting high velocity digital business requirements
- Managed active ecosystems of software vendors, technology partners and customers
- ECS Integration practice team formation is a result of continuous journey for more than a decade
  - Socialized HIP capabilities with LOB stakeholders
  - Timely identification of outcomes and contingencies, mitigating risks
  - Evolving nature of capabilities yielding productive solutions
- DIY or Self-service integration practice for customers involving different integration stakeholders
  - Integration facilitation team as part of CoE
  - iPaaS and iSaaS based deployment framework practice
- Measure tangible value of integration deliverables (API first approach)
  - Productize foundational APIs with api economy
  - Reuse these assets across organization
  - Integration products value equity attached to measurable objectives
- Cost reduction
- Process improvements
- New revenue opportunities
- Improved customer experience

Debashish Maity is a recognized expert in the enterprise integration. Brings over 13 plus years of experience in the presales, development, architecture & design and implementation of large scale integration and business transformation programs. IT experience spanning over API, SOA, BPM, DevOps, PLM, MDM, EA Practice, ERP and Data Science. He leverages his global experience to bring unique perspective on the business transformations across industries including manufacturing, CPG, Telecom, Banking & Financial Institutes and Consultancy.

Debashish holds a Master from Symbiosis Institute of Computer Studies and Research, Pune India.

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About Mindtree

Mindtree [NSE: MINDTREE] delivers digital transformation and technology services from ideation to execution, enabling Global 2000 clients to outperform the competition. “Born digital,” Mindtree takes an agile, collaborative approach to creating customized solutions across the digital value chain. At the same time, our deep expertise in infrastructure and applications management helps optimize your IT into a strategic asset. Whether you need to differentiate your company, reinvent business functions or accelerate revenue growth, we can get you there. Visit www.mindtree.com to learn more.