



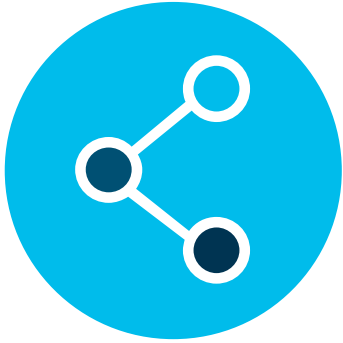
Cisco Intersight: Enabling management of Cisco UCS and HyperFlex

Jeff Foster, Sr. Product Manager - UCS

Agenda

- Background
- Value Proposition & Offering
- Architecture
- Security
- Getting Started
- Server Management
- API

Challenges We're Solving Against



Physical and Virtual
Sprawl, IoT,
Microservices



Scale, Speed, Complexity in
Modern Data Centers is
Unmanageable



Building a Monster to
Manage the Monster

Strategy for Next-Generation Systems Management



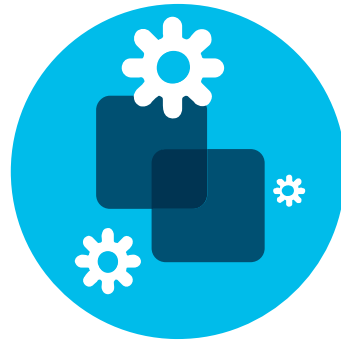
1

Connect Everything



2

Create Actionable Insight



3

Have Machines
Manage Machines

Introducing Cisco Intersight

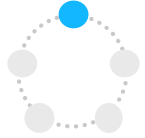


IT'S NOT A SERVER.



IT'S A SYSTEM.

Cisco Intersight Elements

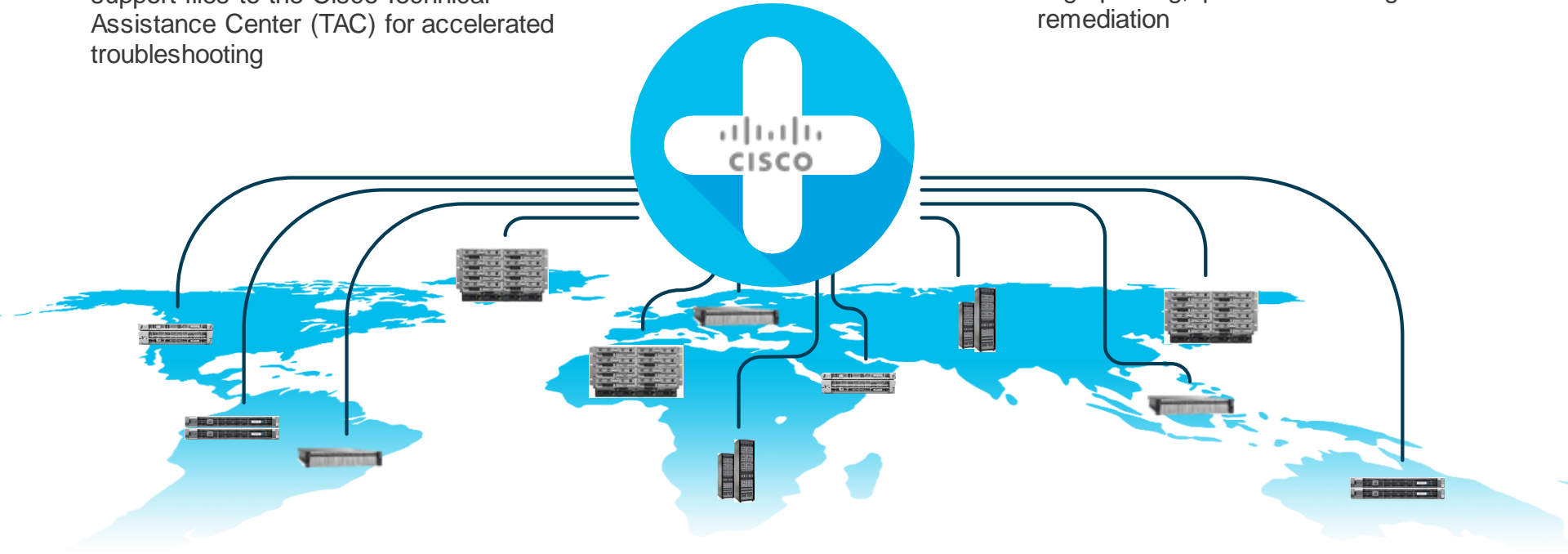


Cisco Intersight: Enhanced Support

Connected TAC

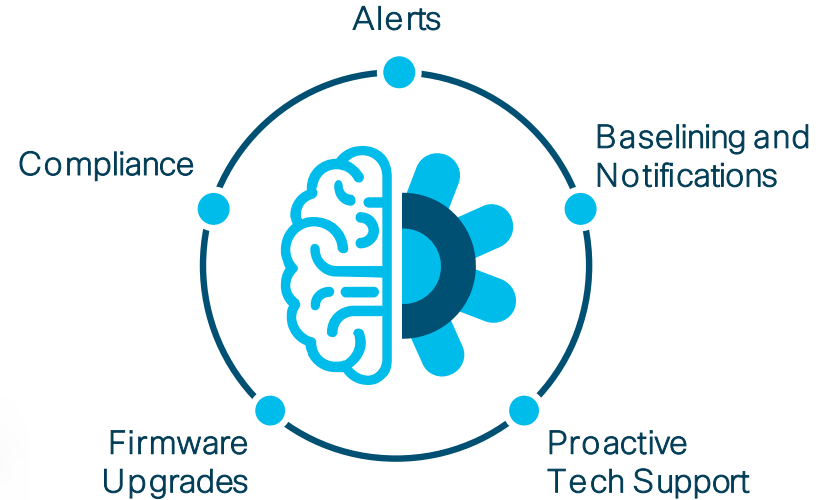
Automated transmission of technical support files to the Cisco Technical Assistance Center (TAC) for accelerated troubleshooting

Vision: Telemetry collection, issue fingerprinting, proactive alerting & remediation



Cisco InterSight: Proactive Guidance

Recommendation Engine



Key Features in Intersight Security Architecture



Use of industry standard security protocols



Encryption of all data



Compliance with stringent Cisco InfoSec security and data handling standards

SaaS-Delivered



UCS Director

Infrastructure-as-a-Service and Orchestration
Third Party Infrastructure

UCS Central

Global Resource Pooling
and Policy Management

UCS Manager & IMC

Policy-Based
Automation



Unified Element
Management



SaaS/Subscription Consumption Model

Free UCS customers from care & feeding of management tools and eliminate upgrade dependencies



Seamless Scalability

Eliminate the hierarchy of tools and multiple management appliances

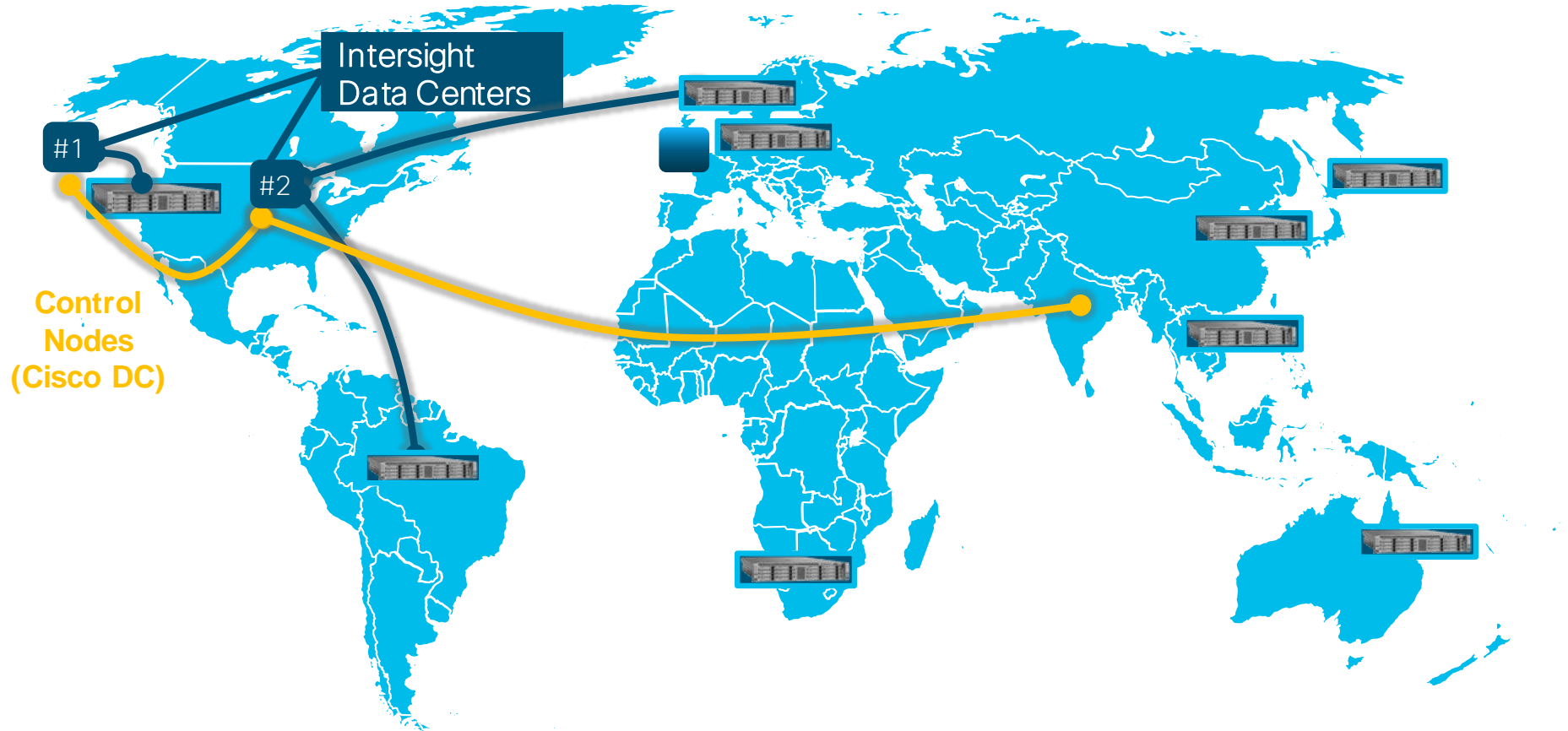


Continuous Feature Integration

Rapid development, delivery and customer feedback

Intersight Architecture

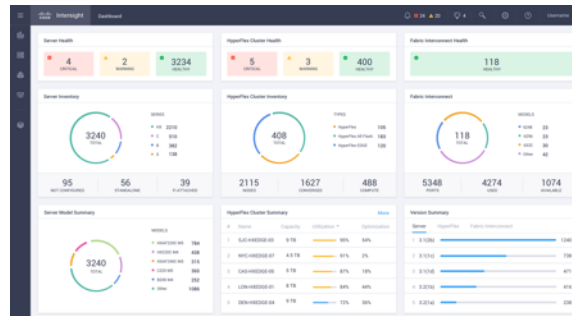
Manage Anywhere, 24/7/365, Cloud Scale



Device Connector: Overview

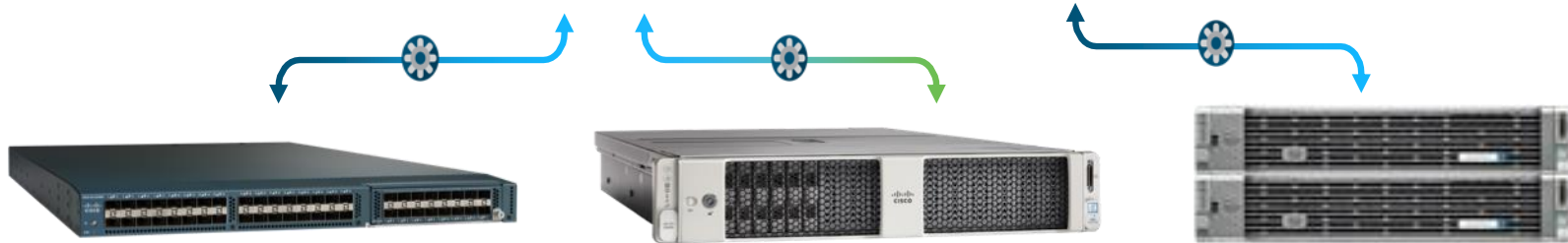
A very light and autonomous piece of software allowing:

- Communication with the Intersight portal, wherever the portal is.
- Capability of inserting tasks / calls against the infrastructure (UCS Manager, Cisco IMC Software, HyperFlex, UCS Director) via the pluggable / extensible framework



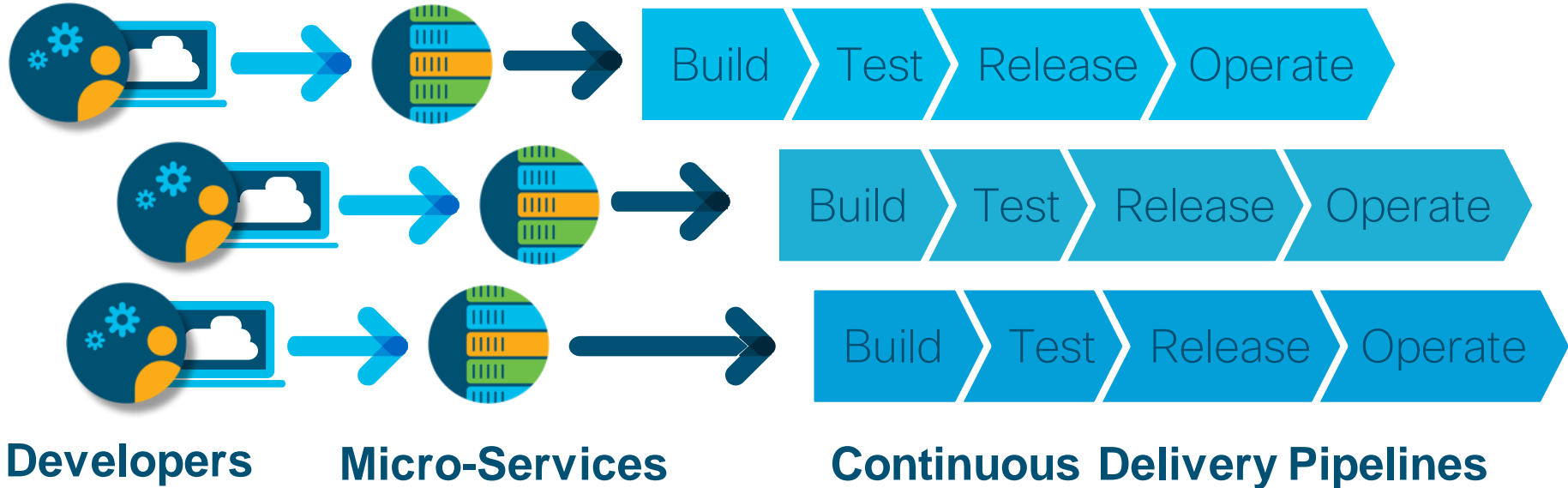
Key Features

- Bundled with Firmware
- Embedded Product Feature
- Secure Communications
- Self Updated
- Autonomous Check-In



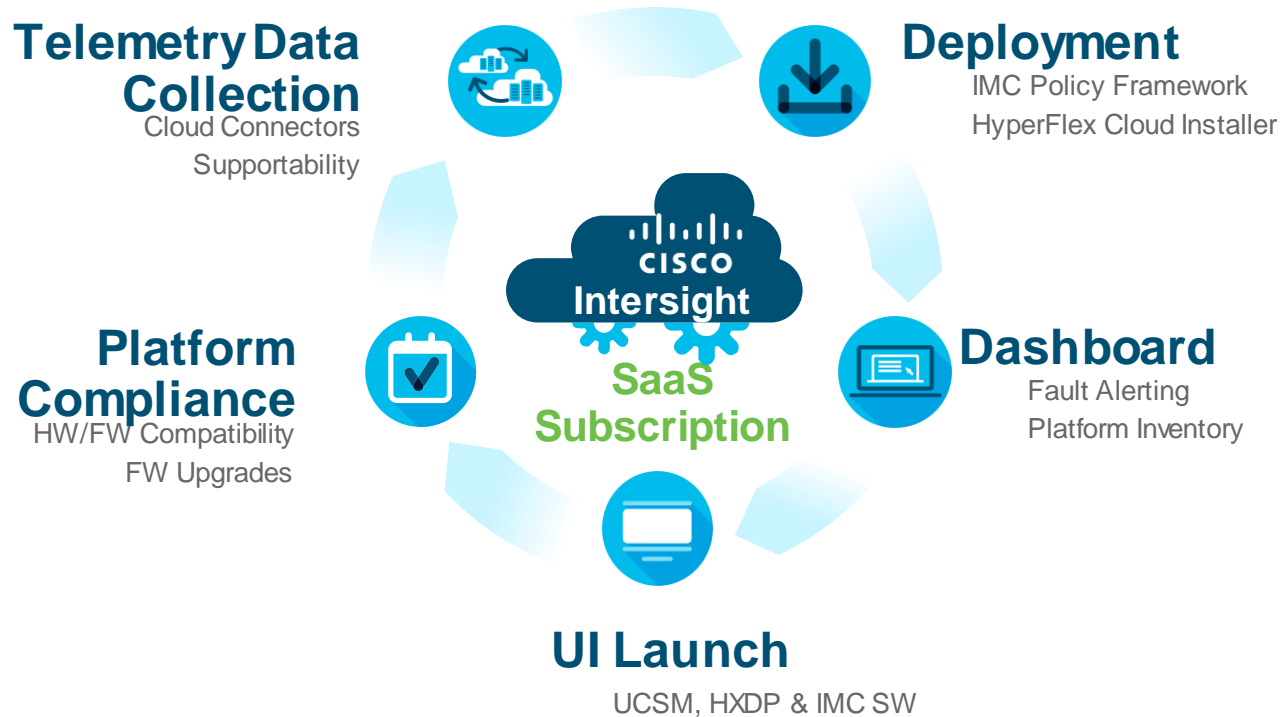
Intersight Continuous Integration and Delivery

Micro-services, DevOps, Independent Delivery, Always on, Rolling Upgrades, Horizontal scale



Intersight Value Proposition & Offering

Intersight: Initial Release



Cisco Intersight Customer Outcomes



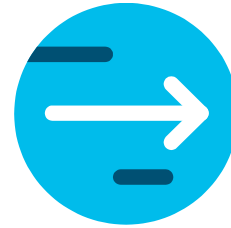
Pervasive Simplicity

Easy for development
and operations



Actionable Intelligence

Best practices to enable
proactive operations



Agile Delivery

Respond quickly to
New requests

Cisco Intersight Delivers Simplified Management



Unified Management

Single pane of glass, consistent operations model and experience for managing all systems and solutions



SaaS/Subscription

Hosted management will free customers from care/feeding of management tools and eliminate upgrade dependencies



Recommendation Engine

Embedded recommendation platform with insights sourced from across Cisco installed base and tailored to each customer



Enhanced Support Experience

Hosted platform allows Cisco to address issues platform-wide and experience extends into TAC supported platforms



Programmability

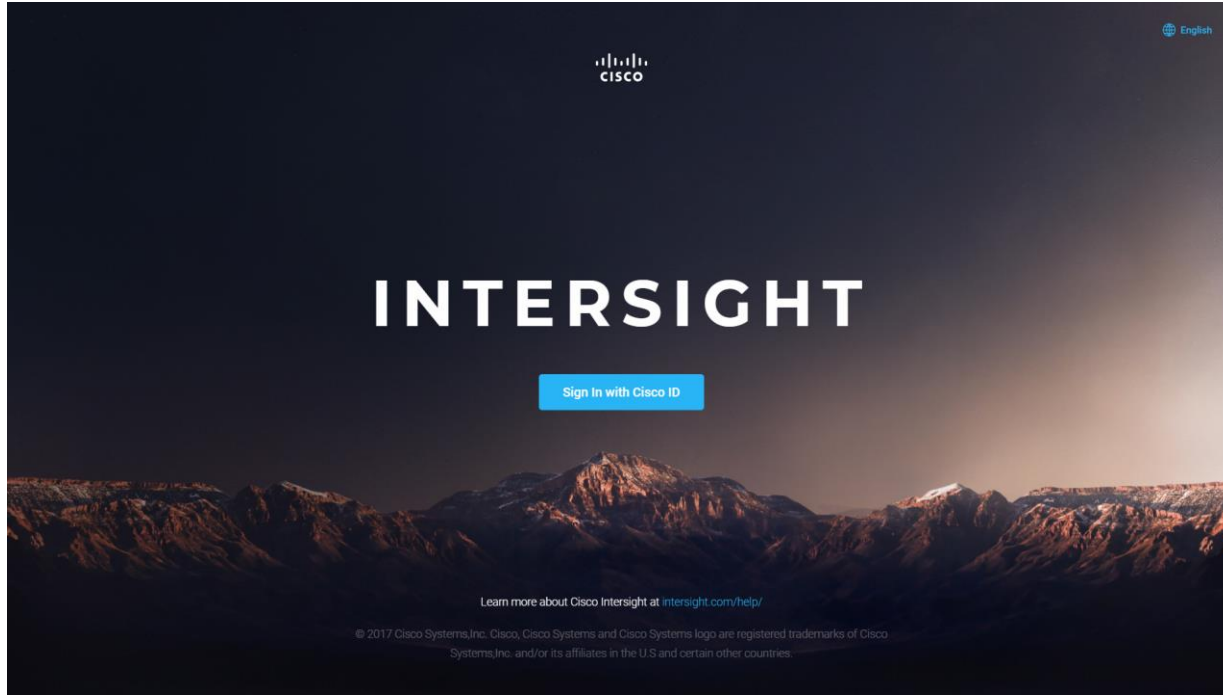
End to end programmability with native API, SDK's and popular DevOps toolsets will enable customers to consume natively



No-Impact Transition

IMC/UCSM/HX embedded connector will allow customers to start consuming benefits without forklift upgrade

Project Starship is now Cisco Intersight



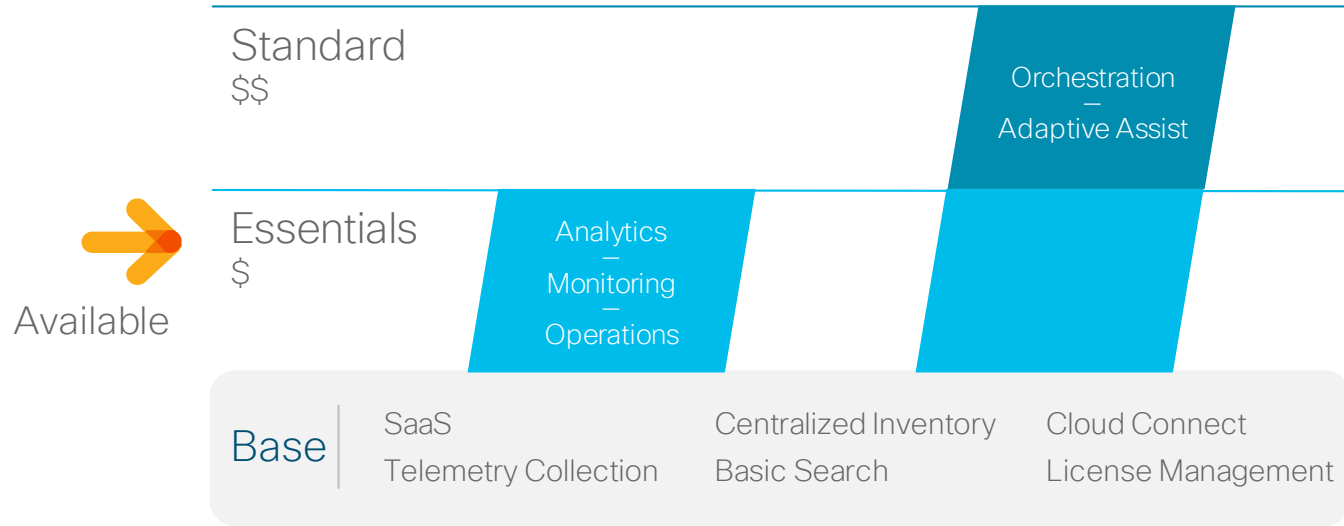
Cisco Intersight Base
live in December 2017

Cisco Intersight Base
live on January 2018

Tech Preview
(ucs-starship.com)
accounts migrated to
[Intersight.com](https://intersight.com)

Continued steady
growth in connected
devices (over 75,000!)

Cisco Intersight Packaging



Cisco Intersight: Edition Comparison

Base Edition:

- Supports Cisco UCS and HyperFlex Systems
- Global inventory, health status, and customizable dashboard
- Tagging and basic global search
- Context-launch of element managers
- Cisco HyperFlex installation

Essentials Edition:

- All functionality of the Base Edition
- Server HCL compliance check
- Virtual Keyboard-Video-Mouse (vKVM) launch
- UCS C-Series policy-based configuration with Service Profiles
- Detailed inventory and firmware management

Device Connector Availability

Cisco HyperFlex:

- HX v2.5.1 (or later)

Cisco UCS Manager:

- UCSM v3.2 (or later)

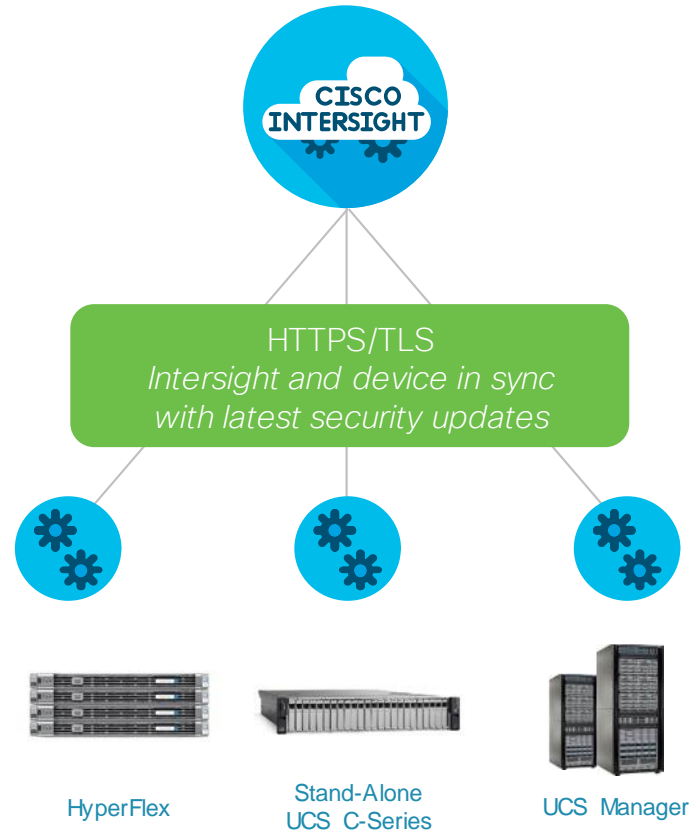
Standalone C-Series: (M5 Servers):

- IMC Software v3.1 (or later)

Security

Intersight Enhanced Security

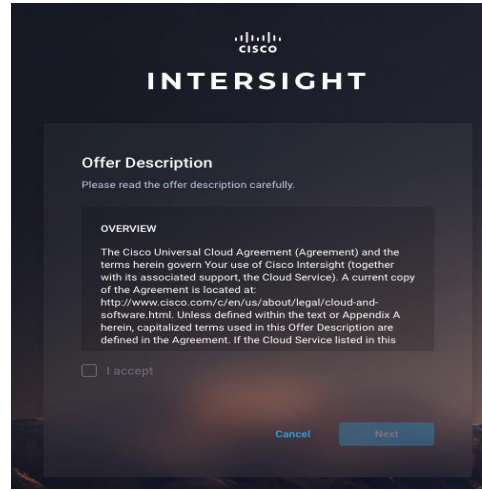
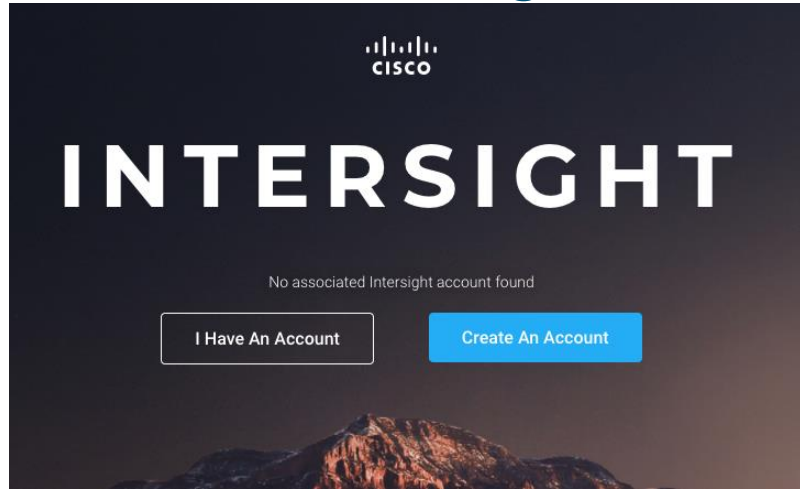
- Ensuring Connections
 - Durable websocket is used after initial connection
 - Two factor authentication when claiming a device: serial number and claim code
 - During subsequent transfers: identify, authenticate, and authorize
- All communication from device is outbound
 - Device initiates connection
 - No inbound connections are needed



Demo

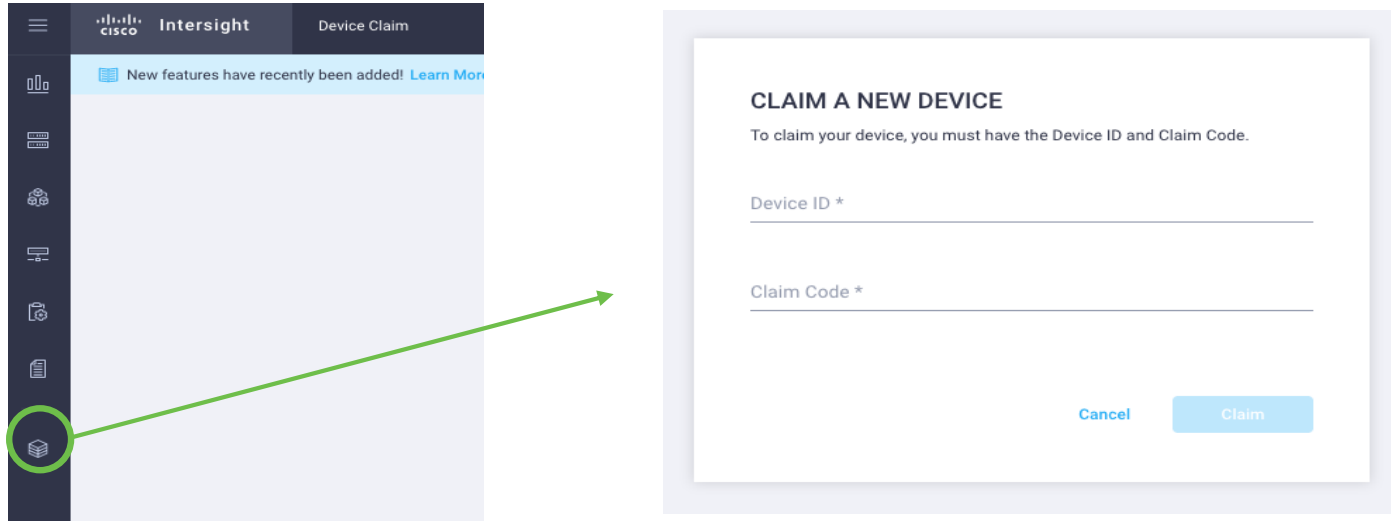
Getting Started

Cisco Intersight Account Creation



- Users navigate to <https://www.intersight.com> and sign into portal with cisco.com ID/password – required
- Can create new account or sign into existing account
- Existing account accessed with account number
- New accounts created with device ID / claim code (IMC/UCSM/HX Cluster) – must accept offer agreement first
- Must claim a single device to create account

Cisco Intersight Device Claim



- Additional devices can be claimed from Devices tab – each device has a unique device ID and claim code
- Devices must be running supported firmware version that includes Intersight Device Connector
- Devices are claimed one at a time, bulk claim is a work in progress

Intersight Portal Status

<https://status.intersight.com/>

Overall Status of Portal Services Displayed

- Device Connector
- Inventory (Device Data Collection)
- Login/Account Authentication
- Techsupport



Feedback/Troubleshooting

ucs-starship-feedback@cisco.com for feedback/issues

End of the Guided Site Tour references the feedback mailer

Settings->Audit Logs displays information on activity/timestamps

- Important to capture when submitting issues

