



Symantec Identity Governance & Administration (IGA) Roadmap

Itamar Budin

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Symantec Approach

Easy to use, maintain, and adopt



Shopping Cart Experience

Users can browse and easily find entitlements



Entitlement Catalog

Describes the entitlements so you know what you are getting



Context Advice Tools

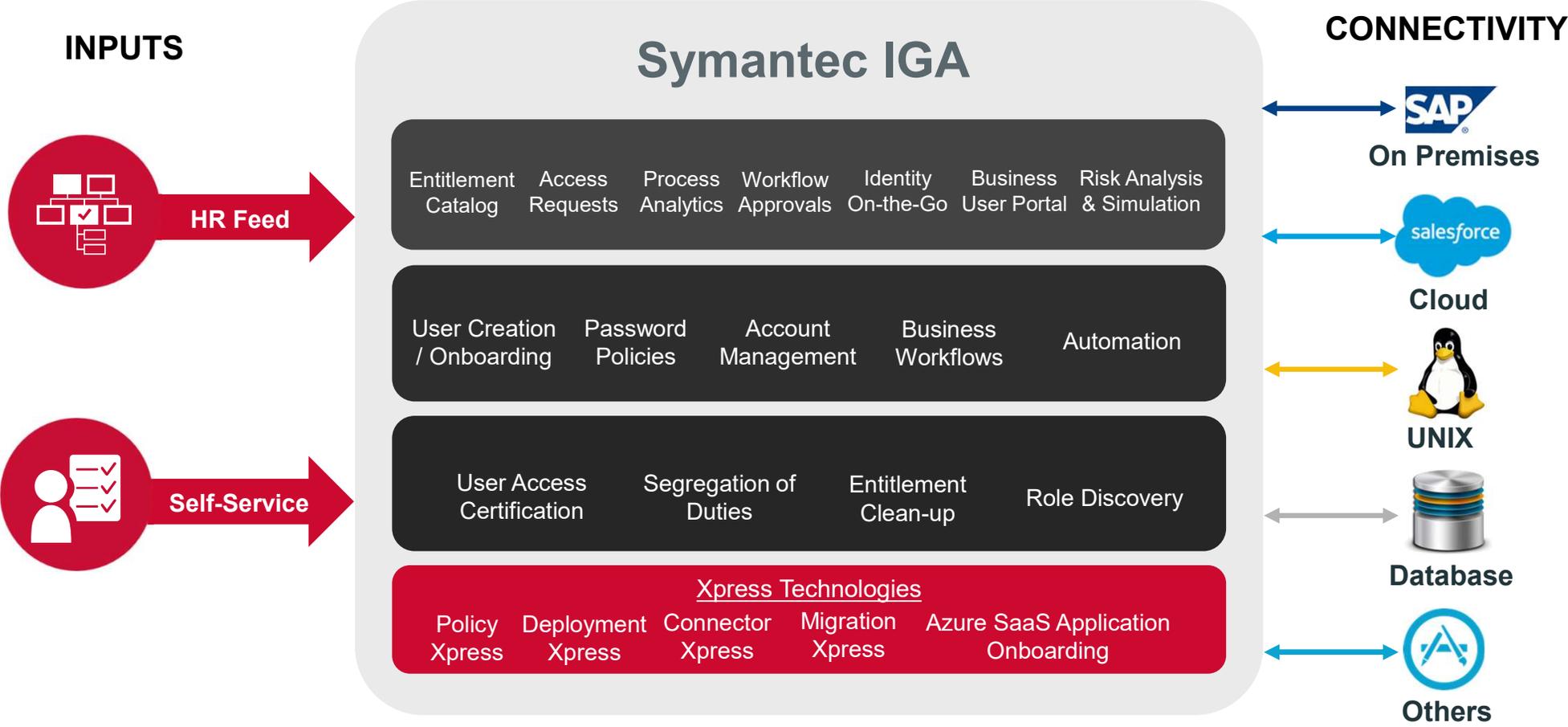
Helps you understand how to interpret the information



Virtual Appliance

Makes the installation and deployment fast – minutes not days

Symantec IGA Integrated Solution

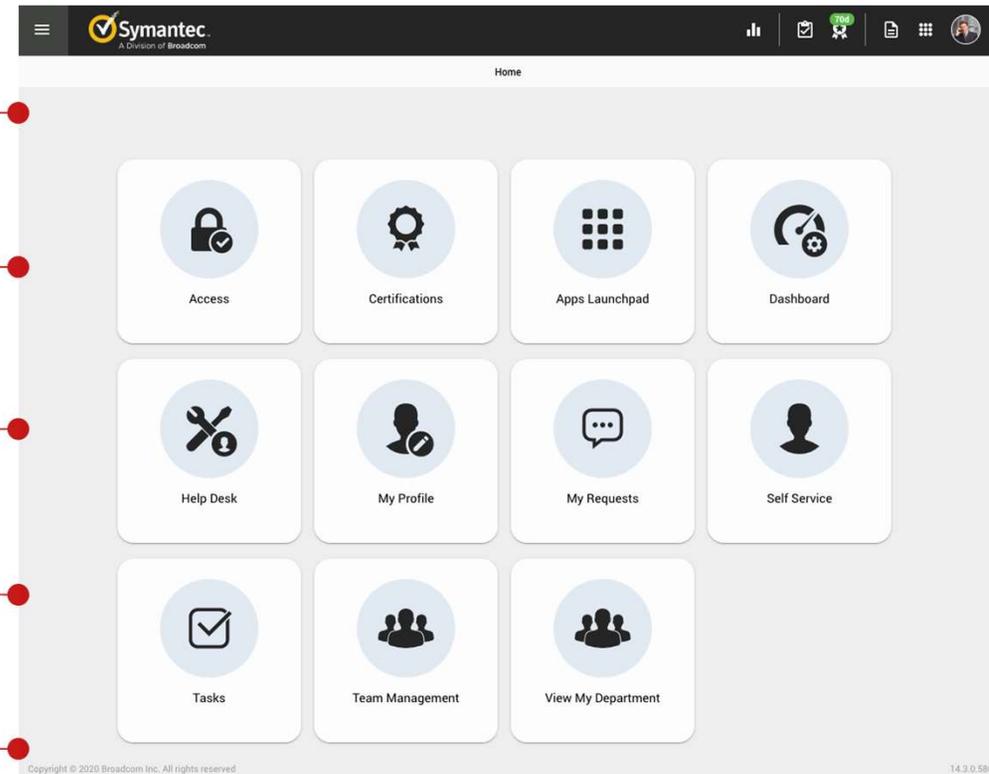


One Stop Shop for all Identity Services

Everything the business user needs in one place



- User Life Cycle Identity Management
- Identity Governance Access Certification
- Multi-factor Advanced Authentication
- Single Sign-On
- Privileged Access Governance



Access Request

Shopping cart experience for acquiring access

- Easy-to-use access request process through an intuitive shopping cart experience
- Conveniently request roles and entitlements from a business entitlement catalog
- Advice tools such as real-time context-based access recommendations
- All requests can be checked for segregation of duties compliance



Access

Selected user: Jeff Andrews

Current Applications Endpoints Roles Similar Users Favorites

Search

- Privileged Accounts
 - PAM Access
 - Server Administration
- Sales
 - US Sales
 - EMEA Sales
- Workplace
 - Data Archiving
 - MiniApps
- Procurement
 - Authorization
 - Records Management
- Financial Assets
 - Investments**
 - Finance
 - Tax
 - Auditing

Business catalog



Risk bar

Investments

- Investments - Investor Relations
- Investments - Funds Management
- Investments - Risk Management**

Please enter your registered license number to be authorized.

* Registered License

* = Required field

Recommendations

Recommended for you

- Database Tools
Find out why

Shopping cart

Cart

+ Added

- Demo application - Demo user access
- Databases - DB2 Admin
- PAM Access - PAM Standard Access
- Finance - Accounts Payable
- Investments - Investments - Risk Management
- Travel and Expenses - Expense Submit

Total: 6 Items (Clear)

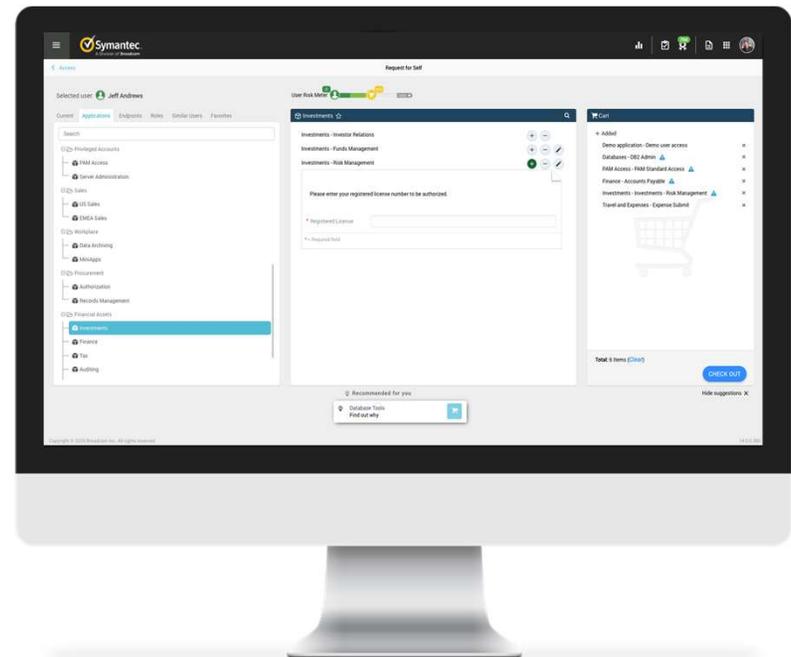
CHECK OUT

Hide suggestions X

Risk Analyzer & Simulator

Context-based, real-time risk analyzer

- Advanced, robust rules engine that calculates user risk score in real-time
 - Calculates and displays risk scores and alerts whenever a risky user is detected
 - Updates risk scores continually based on changes to user privileges, user attributes and other contextual factors
 - Simulates user risk score changes in the context of access requests



Certification Campaigns

Certify user access in a friendly efficient way

- Simplifies and centralizes all necessary compliance activities in one place
- Business entitlements catalog simplifies certifications
- Risk analysis highlights risky access to:
 - Enable real-time remediation
 - Improve policy enforcement
 - Simplify regulatory compliance
- Easily customizable for the needs of each role/user



Automated Provisioning and De-Provisioning

Large set of connectors to manage identities across the organization

- Wizard-based on-boarding of new users such as employees, business partners and contractors
 - Including self-registration
- Manages identities, roles, and policies across on-prem and cloud applications
- Customizable workflows support the unique way each organization approves and schedules these activities
- Broad set of connectors to target systems



Certification Campaigns Dashboard
For Compliance Managers

Certification Campaigns

- Active Campaigns
- Campaign History
- Managed Campaigns**

Share my work

Campaign Name Progress (%) ↑

Q1 User Access Review 81.7

Progress by campaign

Overall Progress



Q1 User Access Review 71 days left

11 Reviewers

0 Reviewers Not Started

4 Reviewers In Progress

7 Reviewers Completed

Progress summary

Reviewer name	Progress	Completed/Total	Notify
Rita Jones (jonri01)	<div style="width: 58%;"></div>	11/19	
Tony Belli (belto01)	<div style="width: 92%;"></div>	46/50	
Michael Allen (allmi01)	<div style="width: 6%;"></div>	2/35	
Cory McCullough (mccco01)	<div style="width: 100%;"></div>	12/12	
Sally Brown (brosa01)	<div style="width: 100%;"></div>	67/67	
Jeff Andrews (andje01)	<div style="width: 83%;"></div>	73/88	
Pauline Merrow (merpa01)	<div style="width: 100%;"></div>	27/27	
William Titus (titwi01)	<div style="width: 100%;"></div>	3/3	
Alex Smith (smial01)	<div style="width: 100%;"></div>	16/16	

Progress by certifier

Select all Notify selected

Progress bar

Q1 User Access Review

Certify 15

Approve

Consult

Detailed information

73/88

Robert Devine 5

USER	Organization	PersonID	Title	UserName	
Robert Devine	IT Services	devro01	Analyst	Robert Devine	
ROLE	Description	RoleName	Type		
Expense Submit		Expense Submit	Provisioning Role		
AD Employee	Birthright access for employees	AD Employee	Provisioning Role		
CA PAM Standard User Access	Creates a PAM account and provide	CA PAM Standard User Access	Provisioning Role		
Book Travel		Book Travel	Provisioning Role		
Time Entry		Time Entry	Provisioning Role		

Table of contents

Connor Craig 10

USER	Organization	PersonID	Title	UserName	
Connor Craig	IT Services	craco01	Analyst	Connor Craig	
ROLE	Description	RoleName	Type		
GoogleDrive	Access to GoogleDrive	GoogleDrive	Provisioning Role		
Shopping		Shopping	Provisioning Role		
Dropbox	Corporate Dropbox Account	Dropbox	Provisioning Role		
AD Employee	Birthright access for employees	AD Employee	Provisioning Role		
CA PAM Standard User Access	Creates a PAM account and provide	CA PAM Standard User Access	Provisioning Role		
Book Travel		Book Travel	Provisioning Role		
GMail	GMail	GMail	Provisioning Role		
Time Entry		Time Entry	Provisioning Role		
SAP_BC_DB_ADMIN_DB2	SAP Database Administrator DB2	SAP_BC_DB_ADMIN_DB2	Provisioning Role		

Personalized view

SAVE

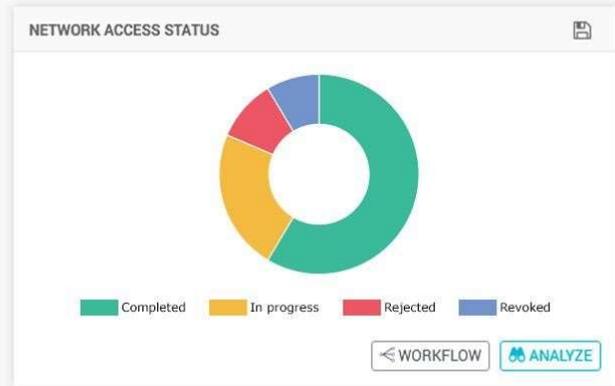
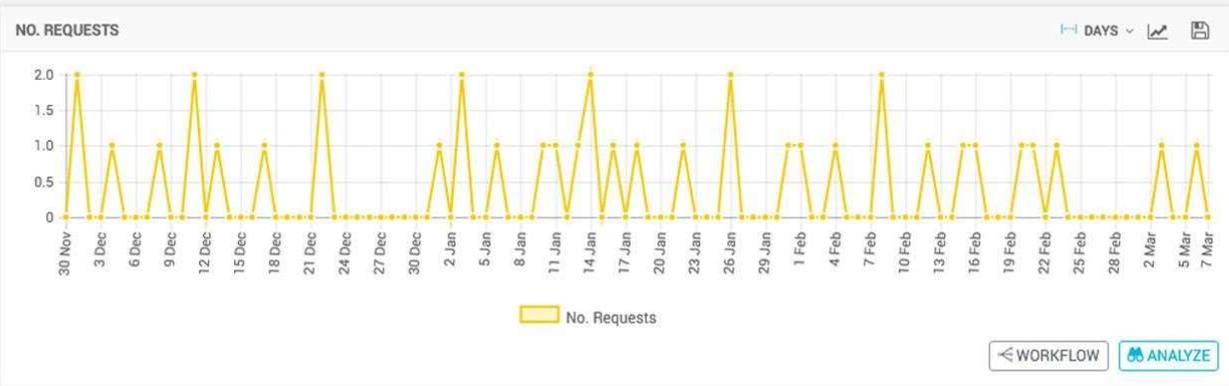
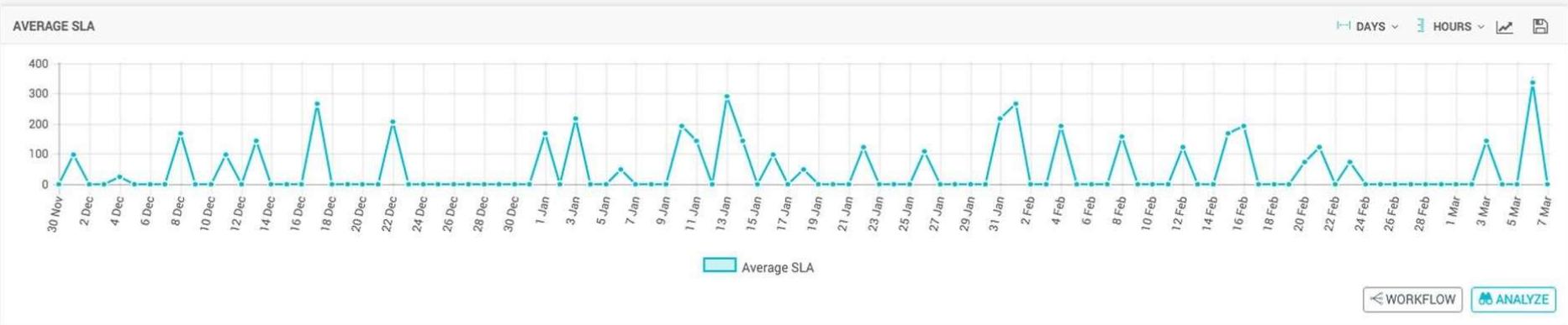
Identity Analytics

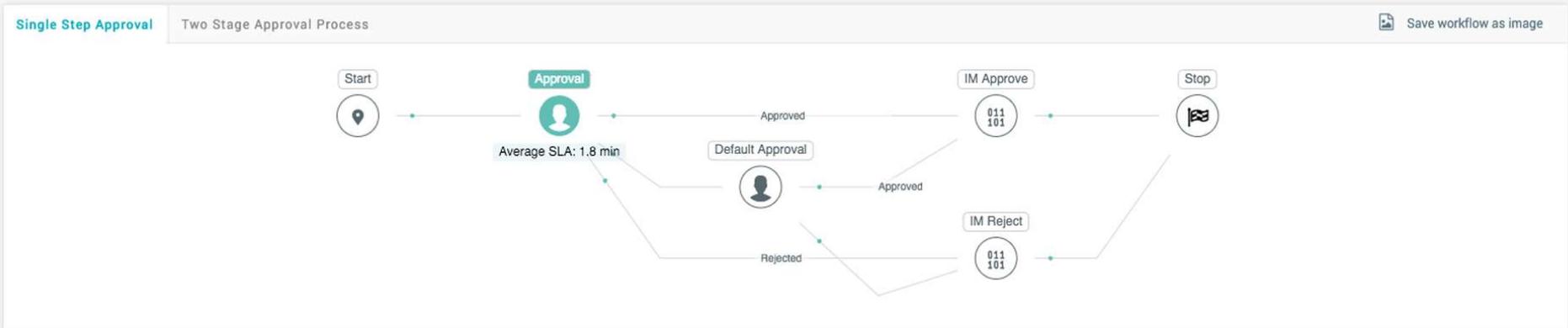
Empowering the business to achieve operation excellence with real-time analytics

- Operation Excellence Console for Managers
- Centralized dashboard providing a unique view of all identity lifecycle processes
- Allows managers to analyze processes and drill down into potential problems and remediate them
- Improves efficiency and productivity of the enterprise
- SLA statistics give project sponsors business justification for project ROI



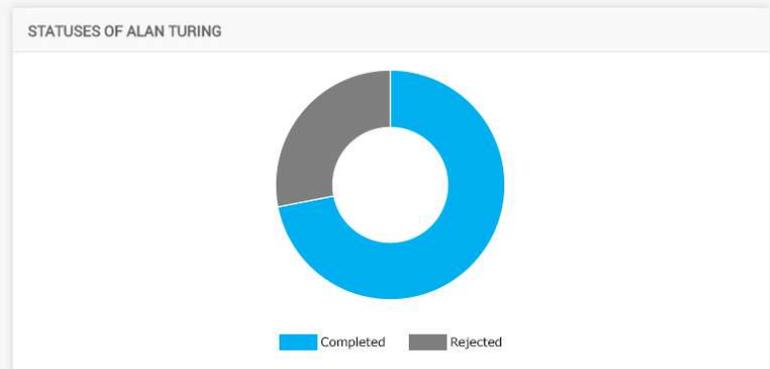
Sub processes





NODE DETAILS

Name	Average SLA	Max SLA	Min SLA	No. Requests
John Von Neumann	36.5 sec	52 sec	21 sec	2
Charles Babbage	40 sec	40 sec	40 sec	1
Alan Turing	5.32 min	5.32 min	5.32 min	1



PROCESS BY CATEGORIES

DEPARTMENT REQUESTED

HOURS

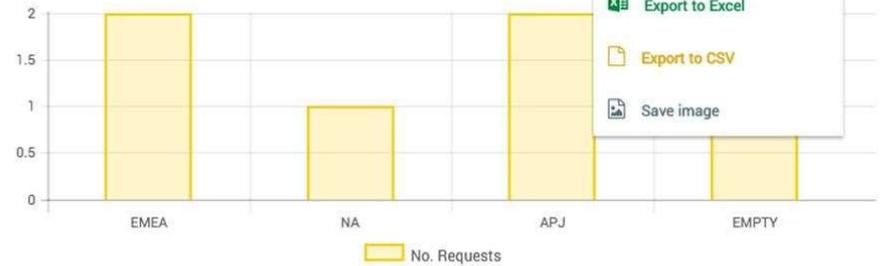


SLA Requests Table SLA over time

WORKFLOW

REGION REQUESTED

HOURS



- Export to Excel
- Export to CSV
- Save image

SLA Requests Table SLA over time

WORKFLOW

REQUESTED CITY

HOURS

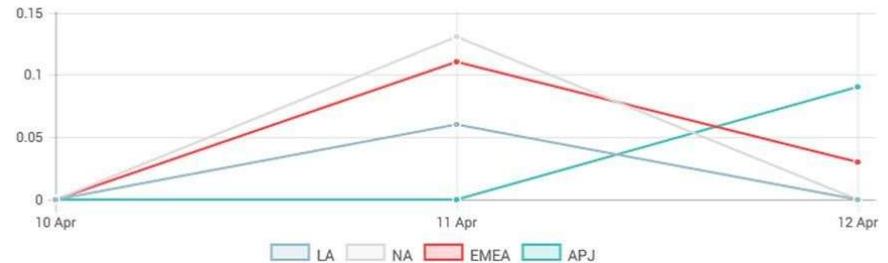
Requested City	Average SLA	No. Requests
Gaza	0.1	3
Gondolin	0.06	1
Minas Tirith	0.09	1
Reykjavik	0.11	1

SLA Requests Table SLA over time

WORKFLOW

REQUESTEE'S REGION

DAYS HOURS

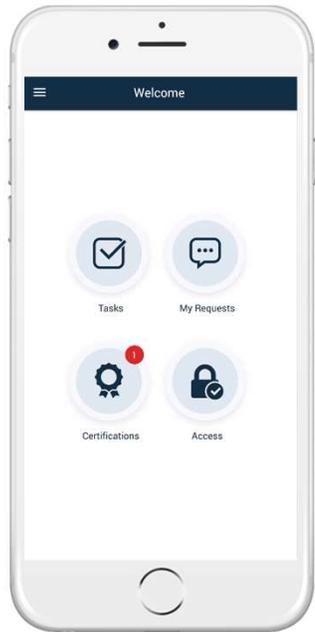


SLA Requests Table SLA over time

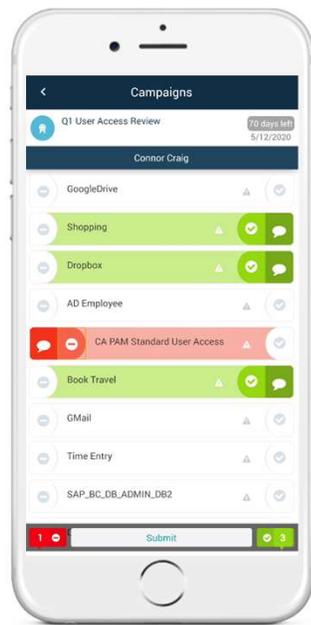
WORKFLOW

Identity On-The-Go

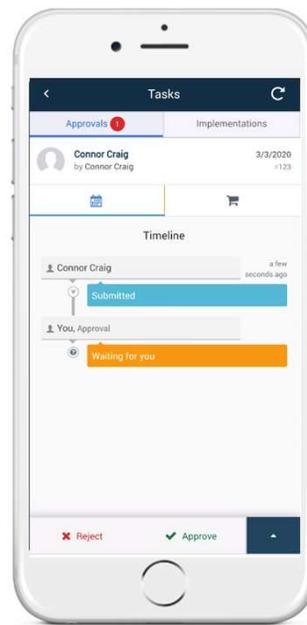
The most comprehensive mobile application on the market



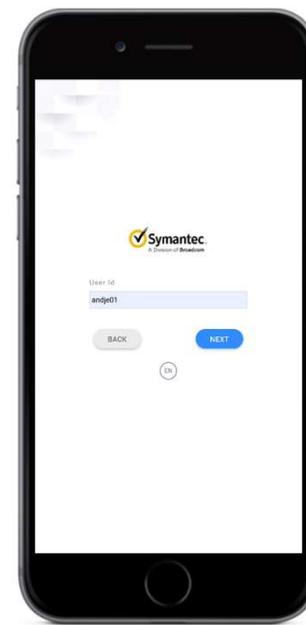
Branding



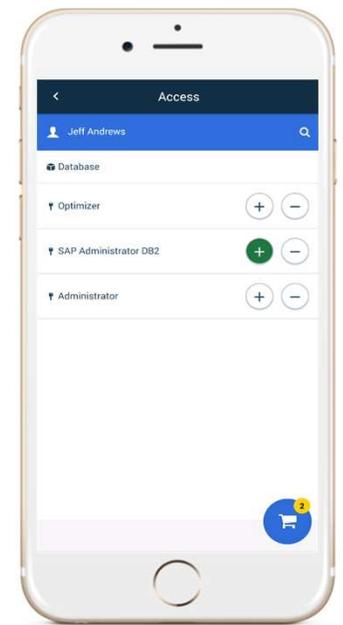
Certification campaigns



Request approval



Password management

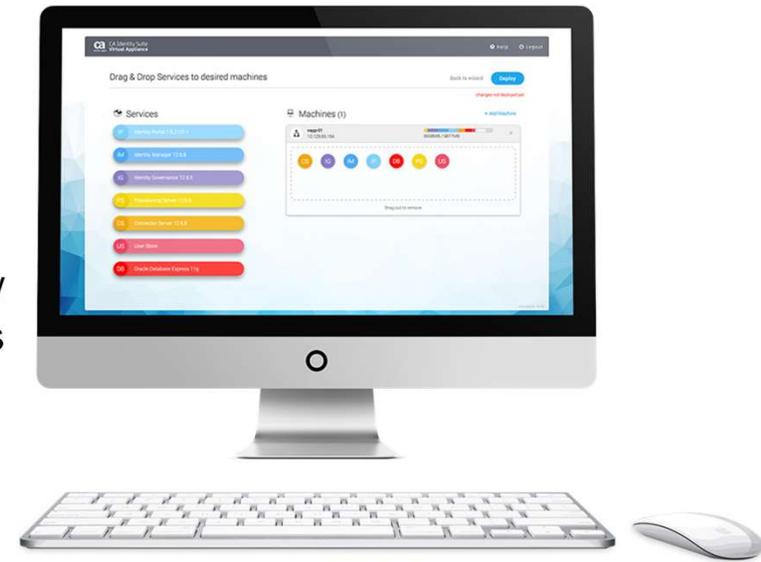


Perform access requests

Rapid Deployment with Virtual Appliance

Simplified & fast deployment of Layer7 Identity Suite

- No installer. No scripts. No training.
- Pre-integrated, high availability environment in a couple of clicks
- Pre-defined recommendations for production deployments
- Up and running in minutes!
- **Available now on Azure** as well as AWS EC2 and OVA
- **Benefits:**
 - **Lower** License Costs: We provided OS, application server, directory
 - **Lower** Services Costs: No installer and simplified patches/upgrades
 - **Lower** DevOps Costs: Built-in centralized monitoring and Logging



Please select the configuration type you wish to deploy

This Wizard will help you get started and set up a running environment in minutes. Lets get started

Deployment Type Selection

Demo



For demonstrating the Identity Suite features and capabilities

Sandbox / Custom



To quickly develop and prototype Identity Management solutions and use cases

Non Production



For lower customer environments like QA or Development environments

Production



For production and pre-production (Staging) environments

You are currently connected to 172.17.17.3 (vapp). This is an unconfigured node
In case you wish to add this machine to an existing Virtual Appliance solution, close your browser and connect to a previously configured machine in order to proceed.

Drag & Drop Services to desired machines

Back to wizard **Deploy**

changes not deployed yet.

Ability to deploy an entire cluster

Services

- IP Identity Portal
- IM Identity Manager
- IG Identity Governance
- PS Provisioning Server
- CS Connector Server
- US User Store
- DB Oracle Database Express 11g
- CL Central Log Server

Machines (1)

+ Add Machine

vapp 172.17.17.3 9144MB / 11895MB

CS IG IM IP DB PS US

Drag out to remove

Project resource allocation

Best Practice Recommendations

Architecture Optimization via Drag & Drop

Deploying solution

Still working ..

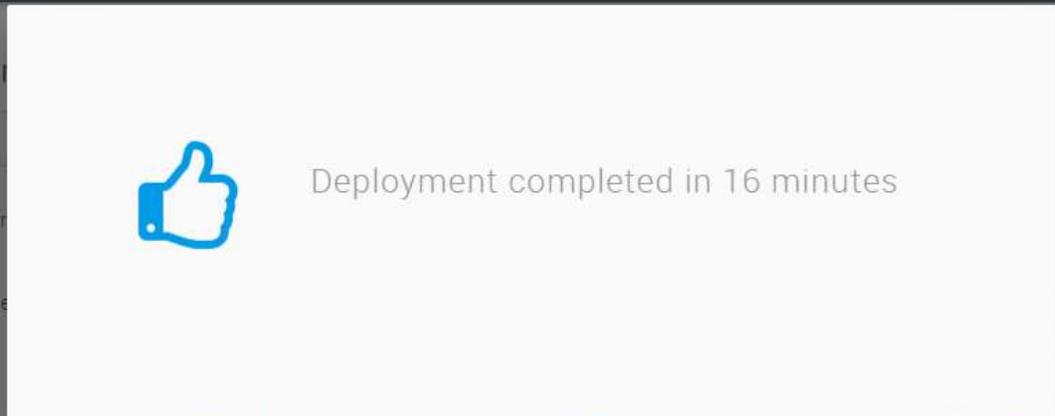
vapp Starting services
172.17.17.3

Service	Initial	Dependencies	Current Status
Connector Server (CS)	Initialized	Waiting for dependencies	Waiting for dependencies
Identity Governance (IG)	Initialized	Waiting for dependencies	Waiting for dependencies
Identity Manager (IM)	Initialized	Waiting for dependencies	Waiting for dependencies
Identity Portal (IP)	Initialized	Waiting for dependencies	Waiting for dependencies
Oracle Database Express 11g (DB)	Initialized	Dependencies fulfilled	Starting
Provisioning Server (PS)	Initialized	Dependencies fulfilled	Starting
User Store (US)	Initialized	Dependencies fulfilled	Starting

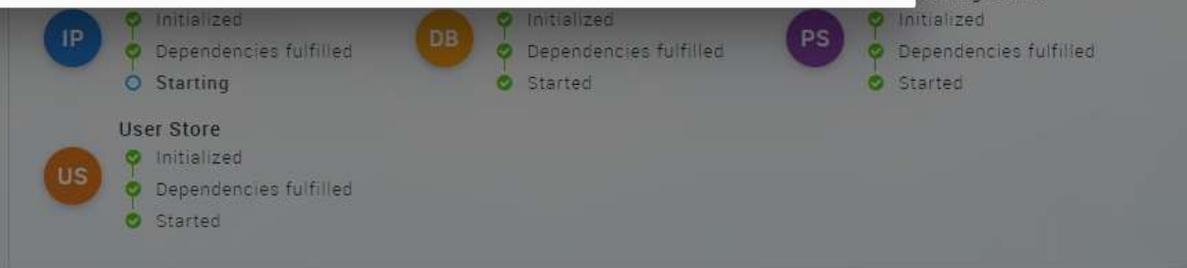
Deployment progress

Deploying solution

- ✓ Generating and distributing public SSH key
- ✓ Synchronizing cluster configurations
- ✓ Initializing services
- ✓ Updating post-initialization, Cluster and High-availability configurations
- ✓ Starting services
- ✓ Finalizing installation



A white rectangular overlay with a blue thumbs-up icon on the left and the text "Deployment completed in 16 minutes" on the right.



Servers (1)

Last updated a minute ago | Refresh

vapp
172.17.17.3

7872MB / 11895MB

CS Connector Server Management console

- ✓ Service is running properly
[more details](#)

IG Identity Governance Management console

- ✓ [OK] WildFly (IG) is running (pid 118476), port 8082
- ✓ [OK] IG is running
- ✓ [OK] Java heap size used by Identity Governance: 1244MB/1512MB (82%)
[less](#)

IM Identity Manager Management console | User console

- ✓ [OK] WildFly (IDM) is running (pid 104718), port 8080
- ✓ [OK] IDM environment is started
- ✓ [OK] idm-userstore-router-caim-srv-01 started
- ✓ [OK] Java heap size used by Identity Manager: 524MB/2048MB (25%)
[less](#)

IP Identity Portal Management console | User console

- ✓ [OK] WildFly (Portal) is running (pid 116321), port 8081
- ✓ [OK] Identity Portal Admin UI is available
- ✓ [OK] Identity Portal User Console is available
- ✓ [OK] Java heap size used by Identity Portal: 751MB/1512MB (49%)
[less](#)

DB Oracle Database Express 11g

- ✓ Service is running properly
[more details](#)

PS Provisioning Server

- ✓ [OK] im_ps is running
- ✓ [OK] co file usage: 1MB/250MB (0%)
- ✓ [OK] inc file usage: 1MB/250MB (0%)
- ✓ [OK] main file usage: 9MB/250MB (3%)
- ✓ [OK] notify file usage: 21MB/250MB (8%)
- ✓ [OK] All DSAs are started
[less](#)

US User Store

- ✓ Service is running properly
[more details](#)

Centralized Monitoring and Logging

Migration Xpress

Bring our existing customers to the latest release deployed on a virtual appliance

- Reduce time and errors that would be expected from manually performing the migration.
- Automated, wizard based, migration process
- Intuitive and clear step by step process
- Recommendations and best practices built-in
- Smart advice tools for knowledgeable decisions
- Includes migration of:
 - User store
 - Environment
 - Provisioning store



Migration Xpress

Example: Wizard based process with recommendations

The screenshot shows the introduction page of the CA Identity Suite Migration Xpress Tool. The page has a dark blue header with the CA logo and 'Identity Suite Migration Xpress' on the left. In the center of the header are three navigation tabs: 'Introduction' (active), 'Setup', and 'Mapping'. On the right of the header is a 'RESET' button with a refresh icon. Below the header, the main content area has a light blue background with a 'Setup >' link in the top right corner. The main heading is 'Welcome to CA Identity Suite Migration Xpress Tool'. Below this is a paragraph explaining the tool's purpose: 'The Migration Xpress tool set is a collection of tools and process to assist in the process of migrating a server based CA Identity Suite deployment the CA Identity Suite Virtual Appliance. In the following steps we will assist you in mapping the attributes of your existing user store to the ones in the Virtual Appliance platform and in selecting the required environment components to be migrated. The results of the mapping will be used to build the Virtual Appliance platform and migrate the existing user and provisioning store.' This is followed by a paragraph: 'Please review the Success Criteria, Coverage and Prerequisites sections of the the migration guide prior to processing.' and another paragraph: 'For more information contact CA at support.ca.com'. A blue button labeled 'GO TO SETUP' is positioned at the bottom right of the main content area. The footer contains 'Copyright © 2018 CA. All rights reserved' on the left and '14.3.0.67' on the right.

Migration Xpress

Example: Wizard based process with recommendations

The screenshot displays the 'Mapping' step of the Identity Suite Migration Xpress wizard. The interface is divided into three main sections: SOURCE, TARGET, and USER MAPPED ATTRIBUTES. The SOURCE column lists attributes such as 'imDisabledState', 'imExpirationDate', 'imIdentityPolicy', 'imLastCertificateDate', 'imPasswordData', 'imPasswordHint', and 'initials'. The TARGET column lists corresponding attributes like 'imEnabledState', 'imExpirationDate', 'imIdentityPolicies', 'imLastCertifiedDate', 'imPasswordData', 'imPasswordQandA', and 'initials'. A 'USER MAPPED ATTRIBUTES' progress bar on the right indicates 0 out of 124 attributes mapped. The 'imLastCertificateDate' to 'imLastCertifiedDate' mapping is highlighted in blue. The interface includes navigation tabs for 'Introduction', 'Setup', and 'Mapping', and a 'RESET' button.

Migration Xpress

Example: Wizard based process with recommendations

The screenshot displays the Identity Suite Migration Xpress interface. At the top, the navigation bar includes the logo, the title 'Identity Suite Migration Xpress', and progress indicators for 'Introduction', 'Setup', and 'Mapping'. A 'RESET' button is also present. Below the navigation bar, the main content area is divided into several sections:

- Setup:** A breadcrumb trail showing 'INTRODUCTION', 'ROLES & TASKS' (active), 'USER', 'GROUP', and 'ORGANIZATION'.
- ENVIRONMENT ELEMENTS:** A list of roles and tasks with checkboxes for selection. The 'Screen (625)' category is expanded, showing items like 'Account Details Report Search Screen', 'Administration Report Search Screen', and 'Approve Certify Role'.
- OBJECT RELATIONSHIPS:** A table showing the relationship between object types and names. The table has columns for 'Object Type', 'Object Name', and 'Object Tag'. One row is highlighted:

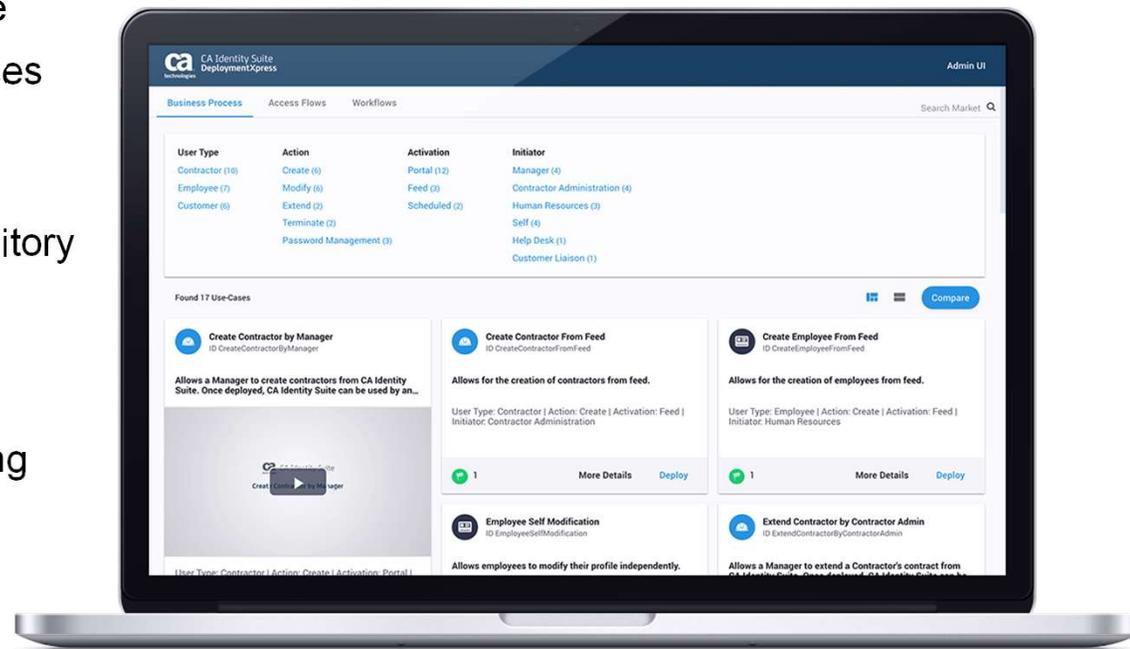
Object Type	Object Name	Object Tag
TASK	Account Details Report	AccountDetailsReportTask

- SELECTED ELEMENTS:** A section for managing selected elements, currently empty, with a 'REMOVE SELECTED' button.
- Buttons:** 'ADD SELECTED' and 'REMOVE SELECTED' buttons are located above their respective sections. A 'DOWNLOAD' button is at the bottom right.

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Rapid Time to Value With Deployment Xpress

- Capabilities
 - Deploy a business process in a few clicks
 - Easy navigation via a marketplace experience
 - Proven best practice identity lifecycle processes
 - Workflows, policies, forms and all the rest... already configured for you!
 - Build your own use case templates and repository
- Benefits
 - From weeks to a few clicks!
 - Dramatically improve time-to-value by reducing deployment time
 - Use best practice use cases
 - Improved supportability





User Type	Action	Activation	Initiator
Contractor (10)	Create (6)	Feed (3)	Contractor Administration (4)
Customer (6)	Extend (2)	Portal (12)	Customer Liaison (1)
Employee (7)	Modify (6)	Scheduled (2)	Help Desk (1)
	Password Management (3)		Human Resources (3)
	Terminate (2)		Manager (4)
			Self (4)

Browse the use cases marketplace

Found 17 Templates



Compare

Create Contractor by Manager
ID: CreateContractorByManager

Allows managers to create contractors from CA Identity Suite. Once deployed, CA Identity Suite can be used by any...

Create Contractor from Feed
ID: CreateContractorFromFeed

Allows for the creation of contractors from feed.

User Type: Contractor | Action: Create | Activation: Feed | Initiator: Contractor Administration

[More Details](#) [Deploy](#)

Create Customer by Customer Liaison
ID: CreateCustomerByCustomerLiaison

Allows a Customer Liaison to create Customer accounts from CA Identity Suite. After creation, the Customer Liaison...

Create Employee by HR
ID: CreateEmployeeByHR

Allows a Human Resources team member to create

ca Identity Portal
Deployment Xpress

Quick Integrations Integration with MS Azure New!

Deployment Market Business Processes Access Flows Workflows Search Market

Action: Create User Type: Contractor

Activation	Initiator
Feed (1)	Contractor Administration (1)
Portal (1)	Manager (1)

Found 2 Templates

Create Contractor by Manager
ID CreateContractorByManager

Allows managers to create contractors from CA Identity Suite. Once deployed, CA Identity Suite can be used by any...



User Type: Contractor | Action: Create | Activation: Portal | Initiator: Manager

Create Contractor from Feed
ID CreateContractorFromFeed

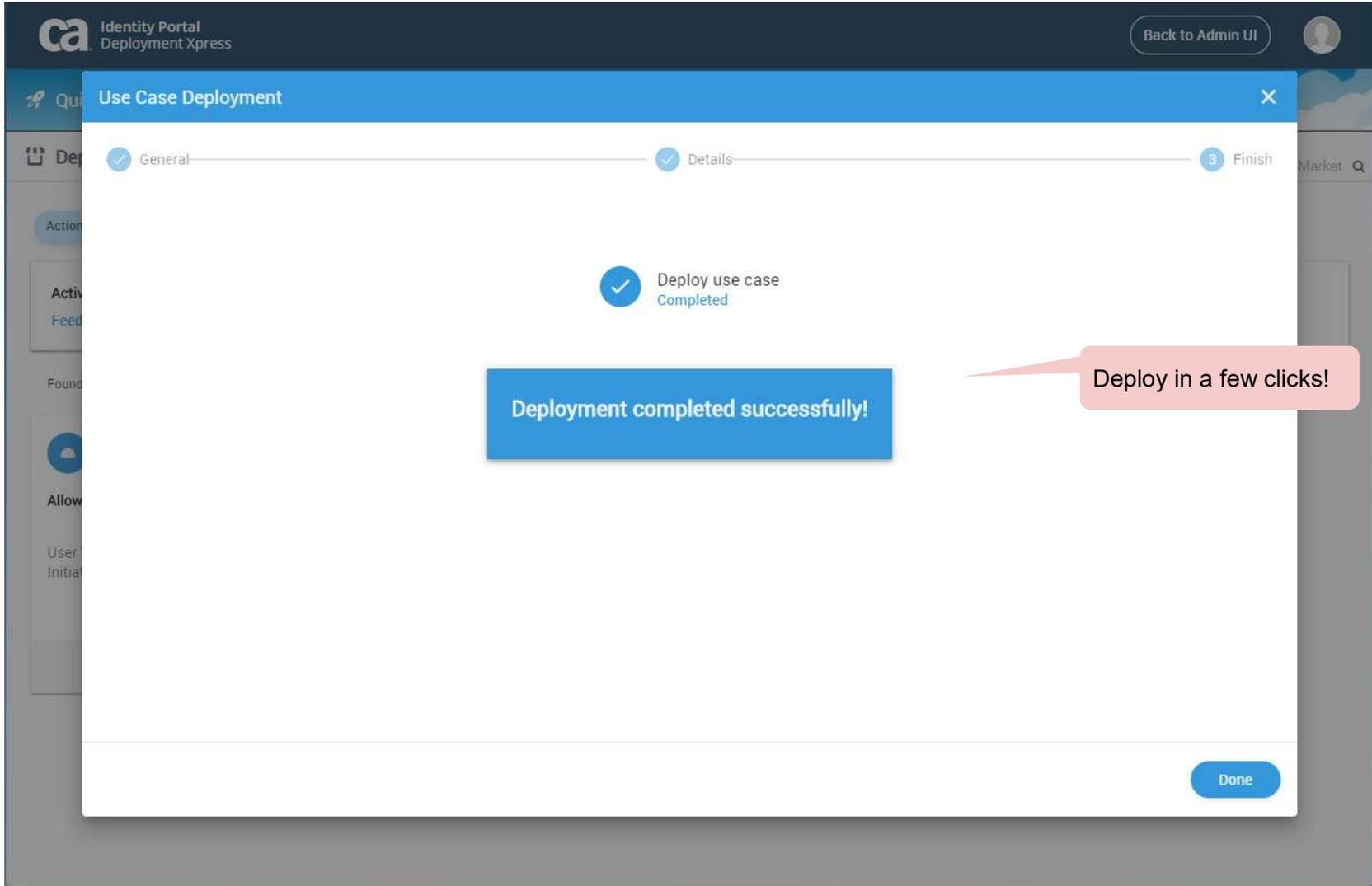
Allows for the creation of contractors from feed.

User Type: Contractor | Action: Create | Activation: Feed | Initiator: Contractor Administration

[More Details](#) [Deploy](#)

Filter results and select a use case

Interactive demonstration of the use case



What are we working on?

- Identity Management
 - SCIM 2.0 support
 - Inbound API support for IDM
 - User/Groups management
 - Outbound connector upgrade
 - Native support for SAML/OICD
 - Public BETA program to start very soon, please see our communities
- Performance, Quality and Scalability improvements and benchmark
 - Establish a release cadence for Cumulative Patches (CP)
 - Identity Manager task engine optimization
 - Provisioning layer improvements
 - Identity Suite performance improvements and enhancements

Color coding:

- Delivered feature
- Work in Progress
- Backlog Item

What are we working on?

- Virtual Appliance
 - **Advance Monitoring**
- Platform Support Matrix (PSM)*
 - **JBOSS 7.2/WildFly 15**
 - **AdoptOpenJDK**
 - **SAP S4 HANA**
 - **Oracle 18c/19c**
 - **MS-SQL 2017/Always on**
 - **RHEL 8.0**
 - **CA PAM SC 14.1**
 - **Windows 2019 server family**
 - **CA Directory 14.1**
 - **CABI 7.1.1**

*Some certifications are back-ported to existing versions

Color coding:

- **Delivered feature**
- **Work in Progress**
- **Backlog Item**

What are we working on?

- Identity Manager
 - Native certification capability
 - 508/WCAG 2.0 certification
- Identity Portal
 - Forgotten username
 - Forgotten password via SMS
 - View additional information about the user and resources in mobile view
 - Identity Manager Native certification capability
 - 508/WCAG 2.0 certification
 - Organization Object management

Color coding:

- **Delivered feature**
- **Work in Progress**
- **Backlog Item**

Industry Trends - The need for next-gen IGA

Certification Fatigue and complex user experiences are driving the need for AI-based, streamlined interfaces

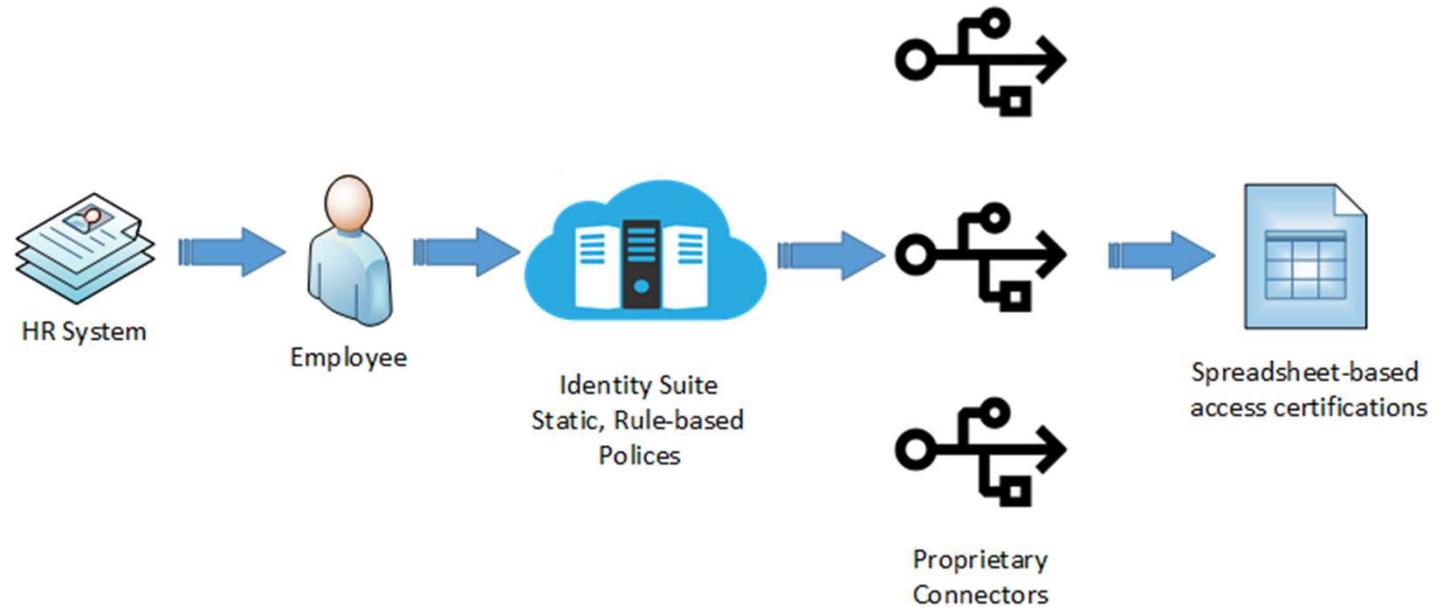
- Risk-aware and event-based certifications
- Cost driven business decision
- Auto certify low risk access
- Auto request and approvals for standard access
- Recommendations based on peer access

Expanding surface of control

- Entitlements management of IaaS (requires tighter integration with PAM) and Data (SharePoint docs, etc.) will become standard requirements of IGA
- Real-time response to malicious activity (abnormal behavior)
- Drive towards standards-based integration (SCIM, event bus...) and flexible deployment

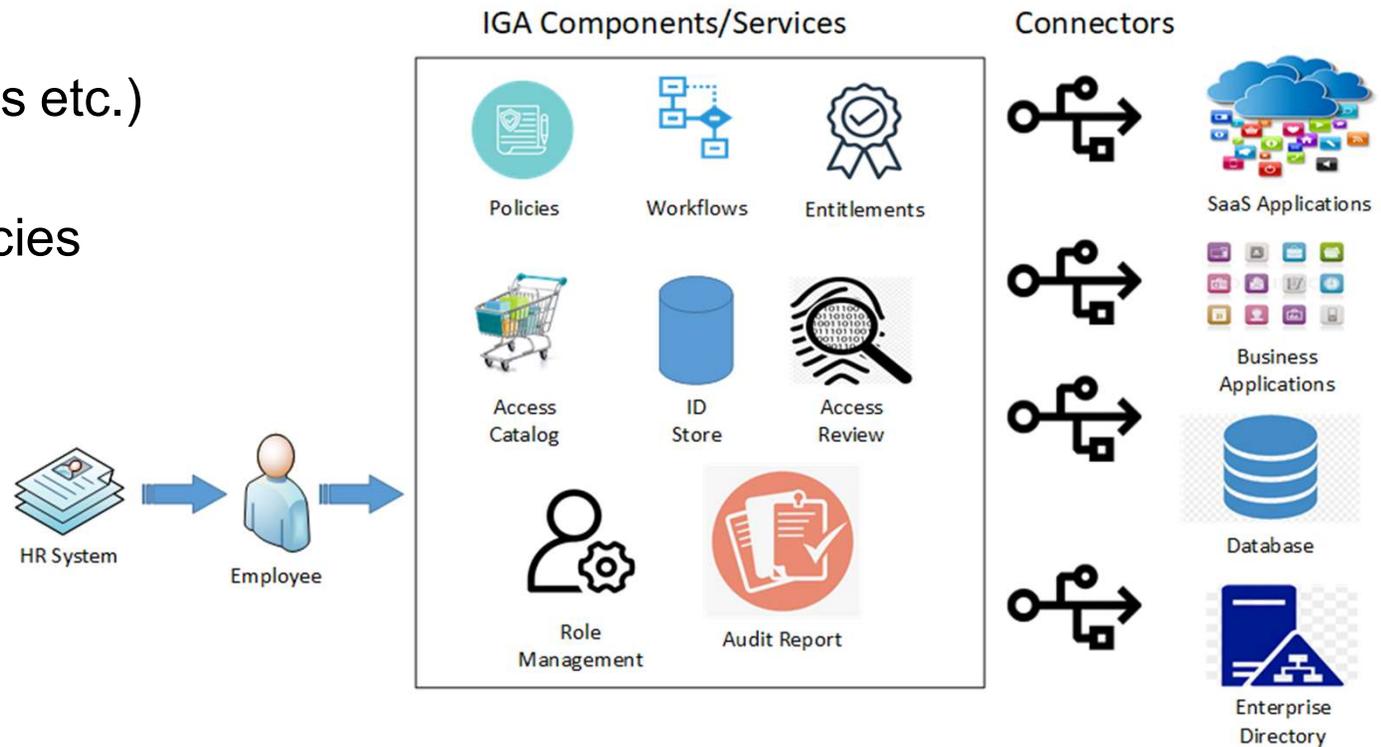
The old, Monolithic, IGA

- Focused on IT Automation
- Spreadsheet-based certifications
- Requires pre-existing knowledge of access
- Limited Risk capabilities
- Proprietary solution



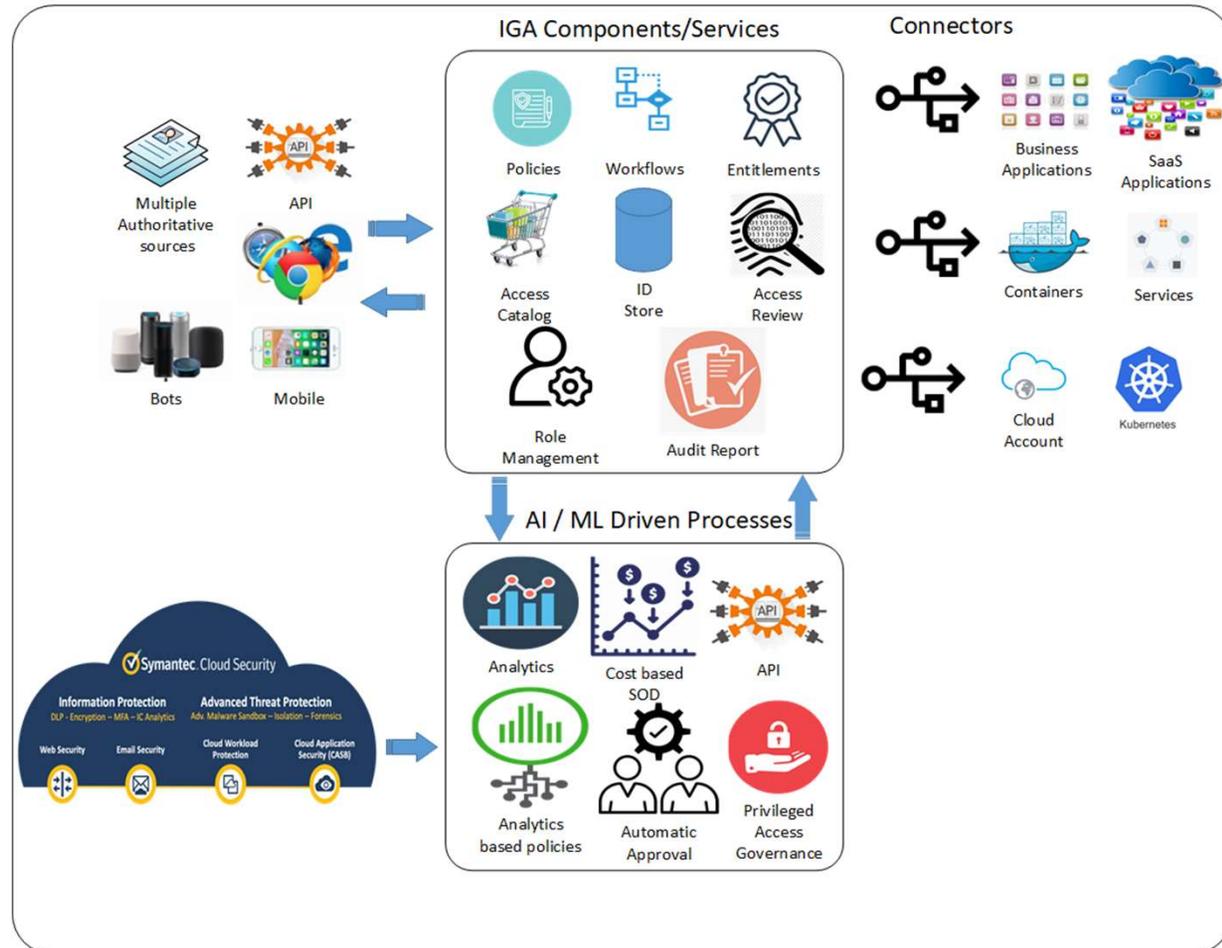
Current IGA

- End user focused
- Access governance capabilities (request, approvals, certifications etc.)
- Hybrid Cloud
- Limited SOD/Risk policies



Next-gen IGA - Data driven, API Based, Identity Analytics

- Cloud Governance (K8S resources, security controls, applications)
- Privileged Access Governance
- Risk/ROI driven business decisions
- Improved ABAC and RBAC policies based on Analytics



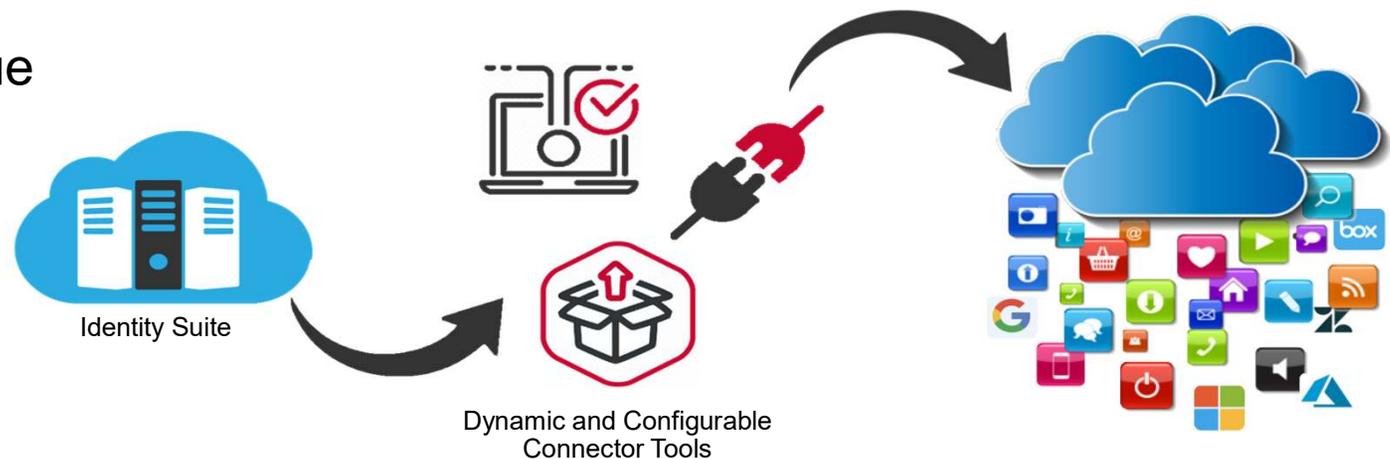
Real life use case example

- Two users request the same type of cloud resources
- The IGA system evaluate the person risk score using Symantec cloud security
- Both users gets different risk score
- Dynamic WF engine require additional review before approval



Flexible Connector Framework

- No more “pre-packaged” connectors
- Standards based solution (SCIM 2.0, REST, oAuth)
- Flexible and extensible solution
- Ability to run Attestation Campaigns on these new endpoints
- Reduce Time-to-Value



Symantec Identity Suite | Roadmap

Updated: March 2020

	Delivered	Planned	Next-Gen
CA Identity Suite	<p>14.3 (4/18/2019):</p> <ul style="list-style-type: none"> ▪ Microsoft Azure AD integration ▪ Virtual Appliance Azure Form Factor ▪ New HR Feed framework with Workday connector ▪ SaaS connectors with no API gateway requirements ▪ WebLogic 12.2 certification ▪ New authentication module for Identity Portal ▪ Incremental Explore & Correlate ▪ Easy enablement of CA SiteMinder integration ▪ Enhanced performance of Snapshot capture process ▪ Improved offline CSV files and incremental import to Identity Governance 	<p>14.4 (H1/2020)</p> <ul style="list-style-type: none"> • OpenID Connect/SAML 2.0 • Inbound/Outbound SCIM 2.0 • Native certification in Identity Manager • Generic REST connector • 508/WCAG 2.0 • Provisioning Layer performance improvements • advance monitoring 	<p>14.4+ (2021)</p> <ul style="list-style-type: none"> • Identity Analytics • Privileged Governance • Cloud Governance • Risk and Predictive Analytics • K8S form factor • Solution consolidation

Color coding:

- **Delivered feature**
- **Work in Progress**
- **Backlog Item**

Communication

- Join our community and subscribe to get the latest news, BETA invitations and access to other resources, help and general discussions

<https://community.broadcom.com/enterprisesoftware/communities/communityhomeblogs?CommunityKey=783a8a1e-bb2b-473a-a0c3-7be7b1d92c60>



Thank You





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