

Forge to APS Migration Guide

Complete step-by-step migration walkthrough

RAPS Development Team

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1 Forge to APS Migration Guide

- Complete step-by-step guide for migrating from legacy Autodesk Forge APIs to modern APS**

Migration Deadline: December 31, 2026

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1.1 Migration Overview

1.1.1 What's Changing

Aspect	Forge (Legacy)	APS (Current)
Base URL	developer.api.autodesk.com	developer.api.autodesk.com
Branding	“Forge”	“APS”
API Endpoints	Mixed versions	Standardized
Authentication	OAuth 2.0	OAuth 2.0
SDKs	Forge SDKs	APS SDKs
Documentation	forge.autodesk.com	aps.autodesk.com

1.1.2 What Stays the Same

- OAuth 2.0 flow
- Core API functionality
- File formats
- JSON response structure
- Rate limits
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1.2 API Endpoint Migration

1.2.1 Authentication API

Forge	APS	Notes
/authentication/v1/authenticate	/authentication/v2/token	Updated
/authentication/v1/authorize	/authentication/v2/authorize	Updated

- Migration:**
1. Update endpoints to /v2/
 2. Update scope format
 3. Handle new response structure

1.2.2 Data Management API

Forge	APS	Status
/project/v1/*	/project/v1/*	No change
/data/v1/*	/data/v1/*	No change

1.2.3 Model Derivative API

Forge	APS	Status
/modelderivative/v2/*	/modelderivative/v2/*	No change

1.2.4 Object Storage Service

Forge	APS	Status
/oss/v2/*	/oss/v2/*	No change

1.2.5 Design Automation API

Forge	APS	Status
/da/us-east/v2/*	/da/us-east/v3/*	Updated

- Migration:** Update to v3, review breaking changes
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1.3 OAuth Scopes Migration

1.3.1 Scope Compatibility

Forge Scope	APS Scope	Notes
data:read	data:read	No change
data:write	data:write	No change
data:create	data:create	No change
bucket:read	bucket:read	No change
bucket:create	bucket:create	No change
viewables:read	viewables:read	No change
code:all	code:all	No change

- Good News:** All OAuth scopes are identical!
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1.4 SDK Migration

1.4.1 JavaScript/Node.js

```
# Remove Forge SDK
npm uninstall forge-apis

# Install APS SDK
npm install autodesk-aps-sdk
```

- Code Changes:**

```
// Old Forge SDK
const ForgeSDK = require('forge-apis');
const forgeApi = new ForgeSDK.AuthClientTwoLegged(
  clientId, clientSecret, scopes
);

// New APS SDK
const APS = require('autodesk-aps-sdk');
const apsApi = new APS.AuthenticationClient(
  clientId, clientSecret, scopes
);

// With RAPS (no SDK needed)
// raps auth login ES raps dm projects
```

1.4.2 NET

```
# Remove Forge package
dotnet remove package Autodesk.Forge

# Add APS package
dotnet add package Autodesk.APS.SDK
```

1.4.3 Python

```
# Remove Forge wrapper
pip uninstall forge-python-wrapper

# Install APS Python SDK
pip install autodesk-aps-python
```

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1.5 Documentation Migration

1.5.1 URL Changes

Forge Resource	APS Resource
forge.autodesk.com	aps.autodesk.com
learnforge.autodesk.io	tutorials.autodesk.io
forge-tutorials.autodesk.io	tutorials.autodesk.io/tutorials/

1.5.2 GitHub Organizations

Forge	APS
github.com/autodesk-forge/*	github.com/autodesk-platform-services/*

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1.6 Migration Checklist

1.6.1 Phase 1: Assessment (Week 1)

- Audit Current Usage**
-] List all APIs currently used
-] Document authentication flows
-] Identify current scopes
-] List SDK dependencies
- RAPS Assessment:**

```
# Test compatibility
raps auth migrate-assessment --forge-credentials

# Generate migration plan
raps migrate plan --current-apis forge --target-apis aps
```

1.6.2 Phase 2: Development (Week 2)

- Update Environment**
-] Install new APS SDKs
-] Update base URLs

-] Update authentication to v2
-] Test with dev credentials
- RAPS Development Testing:**

```
# Set up APS profile
raps config create-profile dev-aps
raps auth login --profile dev-aps --scopes data:read,data:write

# Test workflows
raps dm projects --profile dev-aps
raps translate <test-urn> --profile dev-aps
```

1.6.3 Phase 3: Testing (Week 3)

- Testing Tasks**
-] Test all API operations
-] Verify authentication flows
-] Test error handling
-] Performance benchmarking
-] End-to-end workflow testing

1.6.4 Phase 4: Production (Week 4)

- Deployment Tasks**
-] Update production environment
-] Switch API endpoints
-] Monitor application health
-] Validate data integrity
-] Remove Forge dependencies
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1.7 Common Issues & Solutions

1.7.1 1. Authentication Token Issues

- Problem:** Forge v1 tokens not working
- Solution:**

```
raps auth diagnose --check-aps-compatibility
raps auth migrate-from-forge --update-endpoints
```

1.7.2 2. SDK Breaking Changes

- Problem:** Method names changed
- Solution:** Update method calls per new SDK docs

```
// Old: forgeApi.authenticate()
// New: apsApi.getAccessToken()
// Better: raps auth login ES raps <command>
```

1.7.3 3. Design Automation v3 Changes

- Problem:** DA v2 Activities incompatible
- Solution:**

```
raps da list-legacy-activities
raps da migrate-activity <name> --from-v2 --to-v3
```

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1.8 Migration Timeline

1.8.1 Simple Application (1-2 APIs)

Week	Tasks	Effort
Week 1	Assessment, planning	2-4 hours
Week 2	Code changes, testing	4-8 hours
Week 3	Production deployment	2-4 hours

1.8.2 Complex Application (Multiple APIs)

Week	Tasks	Effort
Week 1-2	Assessment, planning	8-16 hours
Week 3-4	Development, testing	16-32 hours
Week 5	Integration testing	8-16 hours
Week 6	Production deployment	4-8 hours

1.8.3 Enterprise Application

Month	Phase	Focus
Month 1	Planning	Full audit, stakeholder alignment
Month 2	Development	Code changes, CI/CD updates
Month 3	Testing	Comprehensive testing, training
Month 4	Migration	Phased rollout, monitoring

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1.9 Performance Considerations

1.9.1 API Rate Limits (No Change)

API	Forge	APS	Status
Authentication	500/min	500/min	Same
Data Management	100/min	100/min	Same
Model Derivative	20 concurrent	20 concurrent	Same
OSS	500/min	500/min	Same

- No performance impact** expected from migration.

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1.10 Testing Your Migration

1.10.1 Compatibility Testing

```
# Test APS authentication
raps auth login --scopes data:read,viewables:read

# Test core operations
raps dm projects --limit 1
raps bucket list --limit 1
raps translate status <test-urn>

# Compare responses
raps compare-apis --forge-token <old> --aps-token <new>
```

1.10.2 Regression Testing

1. **API Response Validation**
 - Compare JSON structure
 - Verify all fields present
 - Test error responses
2. **Workflow Testing**
 - Upload → Translate → View
 - Authentication chains
 - Webhook handling
3. **Performance Testing**
 - Response time comparison
 - Load testing
 - Memory usage monitoring
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1.11 Post-Migration Cleanup

1.11.1 Remove Legacy Dependencies

```
# JavaScript
npm uninstall forge-apis forge-data-management

# Python
pip uninstall forge-python-wrapper

# NET
dotnet remove package Autodesk.Forge
```

1.11.2 Update Documentation

-] Update API documentation references
-] Change Forge → APS in user text
-] Update code examples
-] Update support docs

1.11.3 Monitor Success

```
# Migration status
raps migration status --report

# API usage monitoring
raps logs --api-calls --since-migration

# System health validation
raps health check --comprehensive
```

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1.12 FAQ

- Q: Must I migrate immediately? A: No, but Forge APIs sunset December 31, 2026
- Q: Will Forge tokens work with APS? A: Forge v1 tokens need updating to APS v2
- Q: Are there breaking changes? A: Most responses identical. Main change: auth v1→v2
- Q: Can I run both during migration? A: Yes, parallel operation supported during transition
- Q: Does RAPS work with both? A: RAPS uses APS by default, migration-compatible
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1.13 Migration Support

1.13.1 Resources

1. **Official Migration Guide:** aps.autodesk.com/migration
2. **Community Support:** [APS Forums](#)
3. **RAPS Community:** [RAPS Discord](#)

1.13.2 Migration Tools

```
raps migrate --help
raps auth migrate-from-forge
raps compare-apis --forge-vs-aps
```

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- Pro Tip:** Use RAPS CLI to simplify migration. Many operations can be replaced with simple **raps** commands, reducing migration effort significantly.
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- RAPS v4.2.1 | Migration Deadline: December 31, 2026 | January 2026*