

# Forge to APS Migration Guide

## Complete step-by-step migration walkthrough

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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 - # Migration Overview

## 2 What's Changing

Aspect	Forge (Legacy)	APS (Current)
Base URL	<code>developer.api.autodesk.com</code>	<code>developer.api.autodesk.com</code>
Branding	"Forge"	"APS"
API Endpoints	Mixed versions	Standardized
Authentication	OAuth 2.0	OAuth 2.0
SDKs	Forge SDKs	APS SDKs
Documentation	<code>forge.autodesk.com</code>	<code>aps.autodesk.com</code>

## 3 What Stays the Same

- OAuth 2.0 flow
- Core API functionality
- File formats
- JSON response structure

- Rate limits

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## 4 API Endpoint Migration

## 5 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

## 6 Data Management API

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

## 7 Model Derivative API

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

## 8 Object Storage Service

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

## 9 Design Automation API

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

- Migration:\*\* Update to v3, review breaking changes
- 

## 10 OAuth Scopes Migration

## 11 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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## 12 SDK Migration

## 13 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 & raps dm projects
```

## 14 NET

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

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

## 15 Python

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

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

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## 16 Documentation Migration

## 17 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/

## 18 GitHub Organizations

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

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## 19 Migration Checklist

### 20 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
```

### 21 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
```

### 22 Phase 3: Testing (Week 3)

- Testing Tasks\*\*
- ] Test all API operations
- ] Verify authentication flows

- ] Test error handling
- ] Performance benchmarking
- ] End-to-end workflow testing

## 23 Phase 4: Production (Week 4)

- Deployment Tasks\*\*
- ] Update production environment
- ] Switch API endpoints
- ] Monitor application health
- ] Validate data integrity
- ] Remove Forge dependencies
- 

## 24 Common Issues & Solutions

### 25 1. Authentication Token Issues

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

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

### 26 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 && raps <command>
```

### 27 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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## 28 Migration Timeline

### 29 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

## 30 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

## 31 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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## 32 Performance Considerations

## 33 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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## 34 Testing Your Migration

## 35 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>
```

## 36 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
- 

# 37 Post-Migration Cleanup

## 38 Remove Legacy Dependencies

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

# Python
pip uninstall forge-python-wrapper

# NET
dotnet remove package Autodesk.Forge
```

## 39 Update Documentation

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

## 40 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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## 41 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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## 42 Migration Support

## 43 Resources

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

## 44 Migration Tools

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

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