# Machine to Machine (M2M)

# Credential Guidance

## Existing ATO Conformance Suite Usage

29th August 2019

## Purpose

This document provides guidance for DSPs with requirements to use existing conformance suites following deployment of the new Machine to Machine (M2M) authentication credential.

## Background

A new M2M credential is to be introduced into production by 2020 which will replace the current AUSkey-based authentication. There will be an interim period where the SBR platforms will support both Vanguard and M2M tokens.

A new keystore has been provided for M2M which contains new credentials that are the equivalent of Device credentials in the current keystore. There is no direct equivalent for User credentials.

## Issue

Conformance suites will not be updated to coincide with these changes to authentication. Existing conformance suites typically provide both User and Device credentials to assist DSPs in testing scenarios against both types of credential. The M2M keystore uses Device credential types only, which renders the currently documented User credential information obsolete.

## Recommended Guidance

During the interim period, use of the M2M credential is optional (yet recommended) so that DSPs can test their systems and services with the new credential before AUSkeys no longer work production in 30th March 2020 (AUSkeys can still be used prior to this date).

DSPs are not required to re-certify their implementations using the new M2M credential.

Device credentials are to be used exclusively when M2M authentication is being employed as User credentials are no longer valid. Previous keystore details relating to Device credentials have been carried over and are valid for use.

## Supporting Information

Information regarding end points, certificates, AppliesTo values and deployment dates for the SBR platforms can be found in the [ATO SBR Physical End Points document](https://www.sbr.gov.au/sites/default/files/ato_sbr_physical_end_points.docx) published on sbr.gov.au. The M2M keystore for EVTE is published on [SBR ShareFile](https://standardbusinessreporting.sharefile.com/home/shared/foa7f009-71b5-46a1-b3f2-3d48b1f8f4ff).

SBR1 Platform

DSPs willing to start testing M2M should undertake the following actions.

1. Update their software to use the new M2M keystore.
2. Update their software to use new ATO M2M STS endpoint.
3. Ensure that an appropriate **AppliesTo** value is passed when retrieving the STS token from the ATO STS M2M endpoint.

The corresponding values for items 1 and 2 can be found in the ATO SBR Physical End Points document.

SBR2 Platform

DSPs using **.NET** Reference Clients for testing would be able to provide two end-points by (Vanguard and ATO STS) in the following properties in the ReferenceClient configuration file:

* VANGUARD\_ENDPOINT\_TEST

During the execution of the Reference client DSPs can control which end point will be used by providing the “test” values correspondingly for the “vanguardEndpoint” parameter in the batch file used to start the Reference Client. The “abr.SecurityTokenManager.STS.endpoint” property in the Reference Client configuration file will be updated to the selected value on the fly when it is started via the batch.

To start using the new M2M ATO keystore, DSPs using .NET Reference Clients need to update the “Auskey-Location” property in the Reference Client configuration file to point to its location.

For example: <add key="Auskey-Location" value="Keystores\ato.M2M.KeyStore.xml" />

DSPs have to manage which keystore is used by the Reference Client.

DSPs using **Java** Reference Clients for testing would be able to change end-points by having Vanguard and ATO STS endpoints in the “au.gov.abr.securitytokenmanager.VANguardSTSClient.vg\_endpoint” property of the following Reference Client property files located in the same folder as the ReferenceClient jar file:

* sts.properties

During the execution of the Reference client DSPs can control which end point will be used by providing the “test” values correspondingly for the “vanguardEndpoint” parameter in the batch file used to run the Reference Client. The value specified in the appropriate file will be picked up by the Reference Client on the fly when it is started via the batch.

To start using the new M2M ATO keystore, DSPs using Reference Clients need to update the “Auskey-Location” property in the ReferenceClient property file to point to its location (e.g. Auskey-Location=Keystores\ato.M2M.KeyStore.xml). If the property value is not defined, then the default value “Keystores\ KeyStore.xml” is used.

Similarly, DSPs have to manage which keystore is used by the Reference Client.

## Appendix A – Version Control

| Version | Release date | Description of changes |
| --- | --- | --- |
| 1.1 | 29.08.2019 | SBR1 Platform information added. |
| 1.0 | 18.04.2019 | First public release. |