Proposal

Alexa Integration for OEMs with SSO Authentication

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Table of Contents

1. Introduction 1
   1.2 About this Document 1
   1.3 Intended Audience 1
2. Linking an Alexa User with an Ayla User: Classic Flow 2
   2.1 Refreshing the Token 2
3. Linking an Alexa User with an Ayla User with SSO Authentication 3

List of Figures

Figure 1: Classic Flow Diagram: Linking an Alexa User with an Ayla User 2
Figure 2: Flow Diagram: Linking an Alexa User with an Ayla User with SSO Authentication 3

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1. Introduction

This document is a proposal for enabling Alexa integration with OEMs that have their own user management system, implementing the Ayla SSO specification.

1.2 About this Document

This proposal is for informational purposes only and therefore receiving and reviewing the information herein is nonbinding.

1.3 Intended Audience

This proposal is for those involved in making decisions to enhance the existing user management system that is implementing the Ayla SSO specification.

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2. Linking an Alexa User with an Ayla User: Classic Flow

Alexa expects the device cloud to act as an OAuth provider so that the user can link their Alexa account with their Ayla user account. This flow, as shown in Figure 1 below, illustrates the sequence of operations when the user account is created in the Ayla User Service.

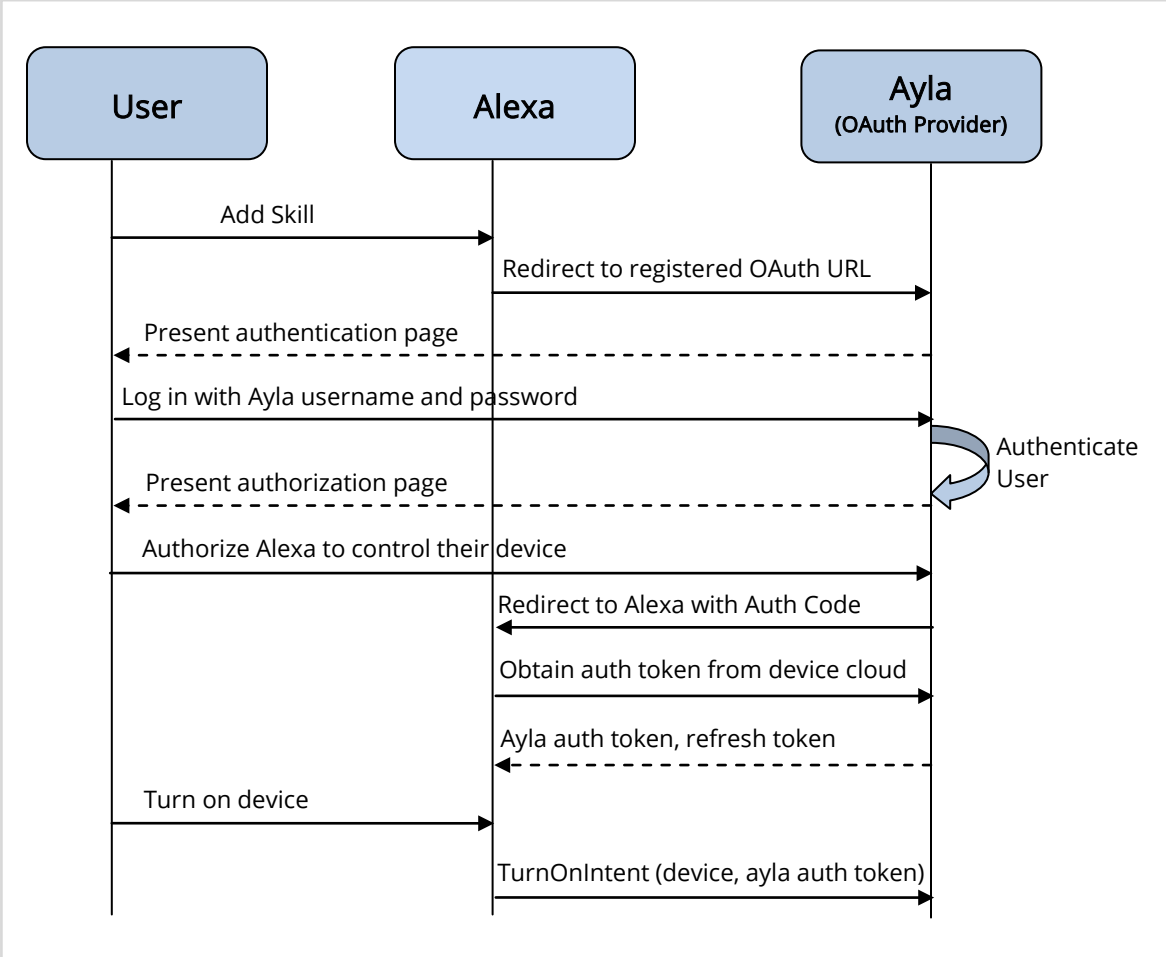

Figure 1: Classic Flow Diagram: Linking an Alexa User with an Ayla User

2.1 Refreshing the Token

When the Ayla auth token expires, Alexa obtains a new auth token using the refresh token that was provided during the authentication sequence.

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3. Linking an Alexa User with an Ayla User with SSO Authentication

When the user account exists in the Identity Provider (i.e. the OEM's user management system), the OEM acts as an OAuth provider in order for the authentication to happen there. At the end of the OAuth process, the OEM issues a token from the device cloud (in this case, Ayla) for Alexa to convey device commands to it. This step is important because Ayla only recognizes a token that it issued. Figure 2 illustrates this flow.

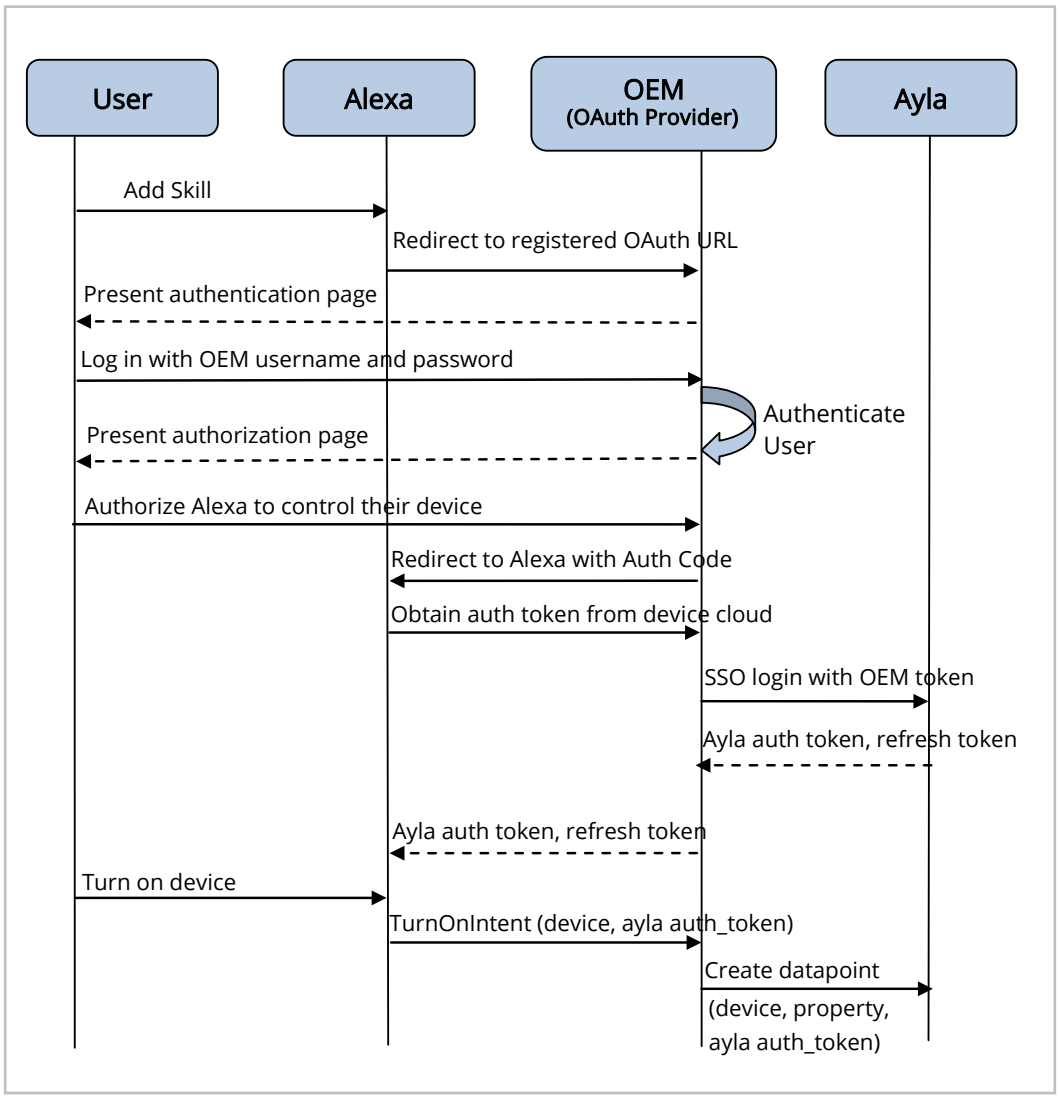

Figure 2: Flow Diagram: Linking an Alexa User with an Ayla User with SSO Authentication

Refreshing the Token

When the Ayla auth token expires, Alexa obtains a new auth token using the refresh token that was provided during the authentication sequence. This request reaches the OAuth provider, in this case, the OEM's cloud. The OEM cloud should call out to the Ayla cloud to obtain a new auth token and refresh token.

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