ZEISS ID (<https://www.zeiss.com/zeissid/home.html>) is our Global Identity and Access Management system that allows customers, partners and suppliers to use all of our digital services via a single access point. Thanks to the integrated single sign-on function, users can switch between different services without having to sign in again – and they can do so via automatic login across all the ZEISS segments.

All future global digital products will use ZEISS ID for sign-up and login. ZEISS ID is based on Microsoft Azure AD B2C. It requires users to use an email address to sign-up.

The Digital Innovation Center has been asked to bring ZEISS ID to China. The requirement is to also support sign-up via WeChat. It shall provide an easy, secure and fast way for project teams to implement Identity and Access Management in their digital solution. It shall it make easy to adapt global digital solutions to be rolled out in China. It is acknowledged by management, that China’s tech stack is different, and ZEISS ID will need to be adjusted to China market needs. Even the technological base (Microsoft Azure) can be re-assessed. Both systems should seamlessly work together.

| **Global** | **China** |
| --- | --- |
| Microsoft Azure. What is it? IaaS, PaaS, SaaS? – RINNOVO | WeChat – Wikipedia |

**You are tasked with preparing a short presentation to the head of IT China and the head of ZEISS ID global explaining how a solution for China could look like.**

Do not take more than 90min time. Best of luck!

**Answer**

One thing needs to be addressed and corrected here: China use the similar tech stack as rest of the world, but it just the limitation of the internet so we have to choose some certain software and tools against others.

Now, I am not seeing anything challenge here from technique perspective. The link provided is accessible from China. Wechat is a Chinese application so it is not an issue from doing the dev work.

We need to understand there are few things get involved here:

**Azure AD**: Global solution – This is not going to change, and we will continue use this for IAM.

**Software Service**: Global solution – Have to exist. In addition, it should be used across the clients.

**Wechat Mobile App**: China economy solution – Create from scratch.

**Terminology**:

* Unique Id – wechat user Id, unique id
* Open Id – wechat per miniapp per user unique id

**Arch Design:**

Registration:

1. User signup via wechat app
2. On-premises or cloud services create a mapping between wechat openId and an actual user account
3. The mapping been pushed to Azure

Login:

1. Open wechat mini app
2. User click the button to login (Wechat requires user manually clicking the button once the page requires authentication) if it’s the first time and we are not expire user out
3. On-premises or cloud services checks the mapping to find user’s account
4. Service request to Azure to get IAM info about the requested user

**Security:**

* Connection is secured via SSL
* Additional encryption might required
* Require Verification code if needed