



# Microsoft Licensing

Overview over the most important usage rules for  
Microsoft products at ETH Zurich

# Content

1. Underlying Contracts
  1. Microsoft Campus
  2. Microsoft Select Plus
  3. Microsoft Premiere Support
  4. Microsoft DreamSpark
2. General Procurement Sources
3. Software Assurance
4. Product Usage and Licensing in Detail
  1. Windows (Clients), Office, Visual Studio
  2. Server: Windows Server, SQL Server, Exchange, SharePoint, Lync
  3. VDI/RDS/AppV
5. Product Activation
6. Office 365 vs. Office on Premise
7. Home Use/BYOD
8. Typical Licensing Traps

# 1 Underlying Contracts

1.1 Campus

1.2 Select Plus

1.3 Premiere Support

1.4 DreamSpark

## 1. Underlying Contracts

### 1.1 Campus (1)

- Yearly rental with Software Assurance **campus-wide**
- The following products for **staff**:
  - Office (Pro Plus & 365)
  - Core CALs (eCALs)
  - Windows **Upgrades (no base licenses!)**
  - Windows Server OS **base licenses** & CALs
  - Project
  - Visio
  - «Work at Home» use => Office Pro Plus & Client OS Upgrade
- Windows Server, Exchange, Sharepoint, Lync  
(server products via CoreServer Platform)

## 1. Underlying Contracts

### 1.1 Campus (2)

- The following products for **students**:
  - Office 365
  - Core CALs (eCALs) for WindowsServer, Exchange, Sharepoint, Lync
  - Windows 10

## 1. Underlying Contracts

### 1.1 Campus (3)

- The following products are **not included**:
  - Windows client base licenses for ETH devices
  - MS SQL Server
  - Lync Plus CALs
  - MS SQL CALs
  - All other client products not listed (e.g. Encarta etc.)

## 1. Underlying Contracts

### 1.2 Select Plus

- The contract allows purchasing of MS products that are not included in the campus agreement.
- The sale is handled by a dedicated supplier (SoftwareOne).

## 1. Underlying Contracts

### 1.3 Premiere Support

- The contract offers access to proactive and reactive support services.
- Only a small number of registered employees have access.



## 1. Underlying Contracts

### 1.4 DreamSpark

- The contract allows the download of many client and server products.
- Office is not included.
- Downloads are free of charge.
- The download portal is outside of IDES.
- **The usage scope is very limited:** Usage is only allowed for research and teaching when the product is the subject!

## 2. General Procurement Sources

- Client OS: Purchased with device
- Campus products: IDES (<http://ides.ethz.ch>)
- DreamSpark:
  - 1. Order product from IDES
  - 2. Accept the conditions...
  - 3. Download from external Microsoft portal
- All other products: Order from distributor

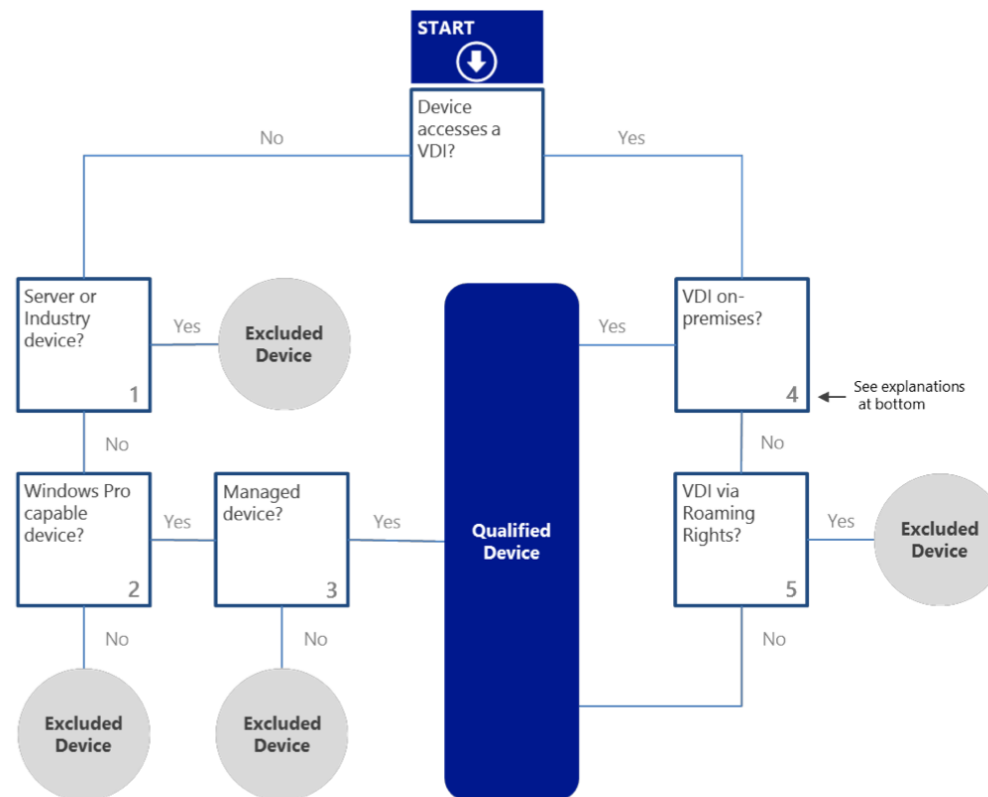
### Note:

Purchasing licenses through retail channels can lead to licensing issues!

### 3. Software Assurance

- Is offered as a «benefit».
- Without SA certain (important) use rights may be missing without you realizing it.
- Is paid for as yearly maintenance.
- Is in sync with the contract period (Campus/Select).
- Is already included in the rent (e.g. Campus).
- Only valid for «qualified devices».

### 3. Software Assurance «Qualified Devices»



Source: Microsoft

Qualified Devices decision tree. Note: The full legal language is not shown in the tree for simplification purposes.

### 3. Software Assurance

## Specific SA «Benefits»

(for «qualified Devices»)

- Updates
- License Mobility
- Roaming Use Rights
- Enterprise versions
- VDA access & CSL, virtualization of desktop OS
- MDOP
- Multi Language Packs
- Trainings
- Failover rights
- Windows To Go

## 4. Product Usage and Licensing in Detail

### 4.1 Clients

- Windows OS
  - A qualified base license must be present for the device.
  - Mac OS X qualifies as base license, iOS and Linux do not.
  - Upgrade/sidegrade via IDES
  - For «non-qualified devices» an additional VDA or CSL license may be required.
- Office
  - For staff there is a choice between O365 and OoP (details later).
- Visual Studio
  - Use for research/teaching: via DreamSpark
  - Use for infrastructure: via rent per user (Campus), quote from LSP

## 4. Product Usage and Licensing in Detail

### 4.2 Server

- Server licensing
  - Windows Server: is covered campus-wide...
  - MS SQL: **critical!** => ID offer for new and existing installations
  - Others (Lync, Exchange, SharePoint): on request
  
- Note: DreamSpark allows «playing» with server products.

## 4. Product Usage and Licensing in Detail

### 4.2 Server CALs

- CAL = Client Access License = Access licenses for clients
  
- Enterprise version is licensed campus-wide at ETH (for all staff).
  - Windows Server (students included)
  - Exchange (students included)
  - SharePoint
  - RMS
  - Lync
  - SCCM/SCEP



## 4. Product Usage and Licensing in Detail

### 4.2 Server CALs

- SQL CALs
  - => **no** general licenses available!
  - «Core licenses» can also be obtained without CALs.
  
- Lync Server Plus
  - => **no** general licenses available!
  
- RDS Remote Desktop Services
  - => central license server available (**limited amount**)

## 4. Product Usage and Licensing in Detail

### 4.3 VDI/RDS

- RDS
  - License server available from ID
  - Own RDS server must be in AD
  - User CAL and Device CAL supported
  - Analyze situation beforehand (whether User or Device CAL)
  
- VDI
  - Use of a «virtual desktop»
  - Licensed for ETH staff, **generally not** for students
  - «Qualified» ETH devices are licensed
  - Non-qualified staff devices require a CSL license

## 4. Product Usage and Licensing in Detail

### 4.3 AppV

- Clients are licensed through MS Campus Agreement (MDOP)
- Streaming Server requires Server OS (available)
- Management Server requires SQL in addition to OS
  
- AppV licenses are included in RDS CALs starting with Server 2012

## 5. Product Activation

- KMS
- MAK
- Others

### Note:

An activation does NOT equal a license! Activation is merely the technical process to enable use of the product. A license must already be available (independently from it) to make the activation legal.

## 5. Product Activation

### 5.1 KMS (Key Management Service)

- Enterprise versions only (starting with Vista/Srv2008)
- Volume license versions of Office only (starting with 2013, but not Office for Mac)
- ETH-internal KMS server (kms1.ethz.ch)
- Reachable inside ETH network only (VPN from outside)
- Automatic activation, can be forced manually by Admin
- Requires network, 180 day «survival» without network
- Immune to hardware configuration changes
- Windows base license must available when purchasing hardware
- No technical limit on the amount of activations

## 5. Product Activation

### 5.2 MAK (Multiple Activation Key)

- Enter key for activation
- Phone or online activation with MS
- Network-independent (no time limit)
- Sensitive to hardware configuration changes
- Limited number of activations (can be used up)
- Manual effort, must be issued by MS
- Higher misuse potential
- Will only be issued if KMS is no valid alternative (justified exceptions!)
- Must have Windows base license (MAK is not a license)

## 5. Product Activation

### 5.3 Other Types

- V1 Keys
- No activation

## 6. Office 365 (O365) vs. Office on Premise (OoP)

### (i) Licensing Type

- **O365** is licensed **per user**:  
One user license covers 5 installations per device category (PC, Tablet, Smartphone), i.e. 15 installations total.
- **OoP** is licensed **per device**:  
One device license covers one installation on one device.  
Exception: a second installation (of the same license) can be made in line with the *Work at Home* program (details to follow).
- **O365** is always rented for a limited amount of time.
- **OoP** can be rented or purchased (ETH rents).



## 6. Office 365 (O365) vs. Office on Premise (OoP)

### (ii) Acquisition/Activation

- Order O365 from IDES => External SoftwareOne portal  
Personal registration required
- Order and download OoP directly from IDES  
Registration happens automatically through IDES login.
- O365 is personally activated (30 days «survival time»)
- OoP activation through KMS (180 days «survival time»)
  - Note: OoP for Mac has no technical activation system.

## 6. Office 365 (O365) vs. Office on Premise (OoP)

### (iii) Release Change/Cloud

- There is no downgrade right for O365. (!!)
- OoP can be used in any (old) version.
- O365 has automatic updates/release changes.
- OoP lets the user change the release when convenient.
  
- O365 can include cloud services.
- OoP includes fewer cloud services.

## 6. Office 365 (O365) vs. Office on Premise (OoP)

### (iv) Private Use/Choice of Device

- O365 includes comprehensive private *home use rights*.
- OoP may only be used at home for ETH purposes in line with *Work at Home* (but including OS updates).
  
- O365 also runs on tablets and smartphones.
- OoP only runs on PCs (Macs).

## 6. Office 365 (O365) vs. Office on Premise (OoP)

Our recommendation:

- Double/mixed installations are trouble...
- Contact your IT before installing on ETH devices!

O365 is better suited for use at home or «on the move».

Office on Premise is better suited for your office PC.

## 7. Home Use/BYOD

# Home Use Rules

- ETH staff are allowed to use Office at home.  
(**Note:** Usage conditions depend on the Office version!)
- ETH staff may install OS updates at home, but only for *Work at Home use*.
- ETH does not charge for home use.
- Other MS products may not be installed on private computers!

## 7. Home Use/BYOD

# BYOD

- Staff are allowed to access VDI with private devices at ETH. Those private devices require a «Companion Subscription License» for VDI access. (CSL) => refer to IDES.
- A CSL is a user license, rented yearly and covers 4 (private) devices.
- Students (or rather their devices) are **not** licensed for VDI!

## 8. Typical Licensing Traps

- Missing CALs
- Missing SA (or rather associated rights)
- VDI for students without VDA licenses
- Different usage conditions (DreamSpark)