



AG Informatik

MMag. Rene Schwarzingger

Krems, 17. März 2016



Ausgangslage

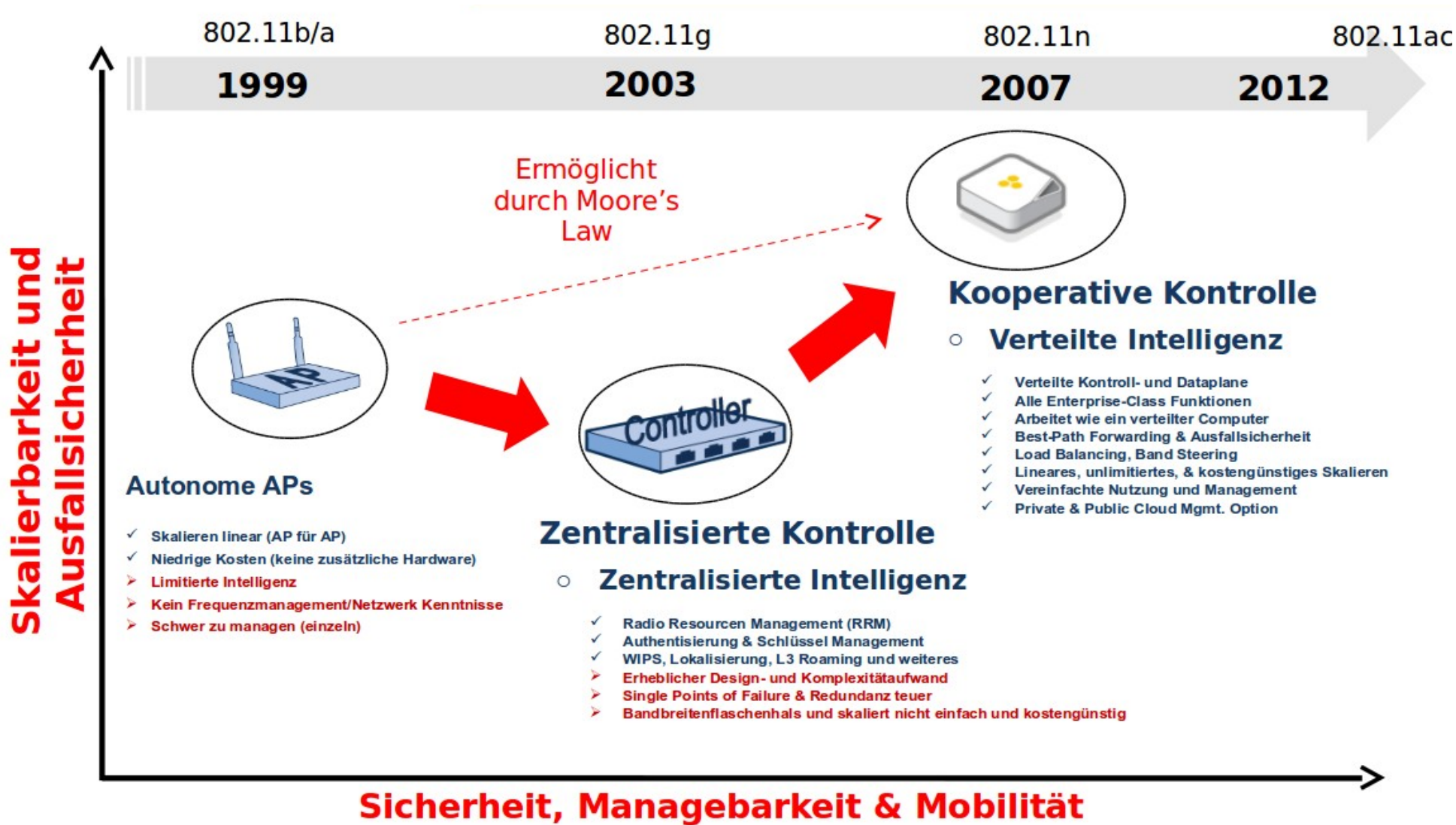
- Neues Schulgebäude seit 2015
- **LAN** in folgenden Klassen
 - Oberstufe
 - INF Unterstufe
- **WLAN** in folgenden Bereichen
 - Freibereiche
 - Mehrzwecksaal

LAN ↔ WLAN

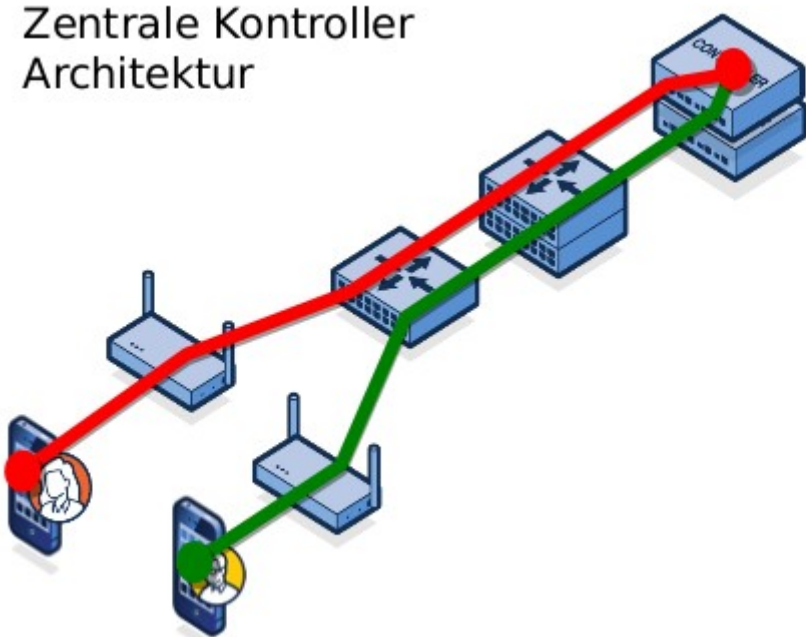
- Schnellere Übertragungsraten
 - Garantierte Bandbreiten
 - Unempfindlich gegenüber Störsendern (Schularbeiten, Matura, ...)
 - Keine Strahlungsbelastung
 - Internet für Laptops und nicht für Smartphones gedacht
 - Netzwerk ist auch nur für gewisse Einsatzszenarien erforderlich
- Einfacher und rascher Aufbau
 - Flexiblere Tischanordnungen möglich
 - Kein RJ-45 Anschluss an den Endgeräten erforderlich

Selbstregistrierung / Ticket-System

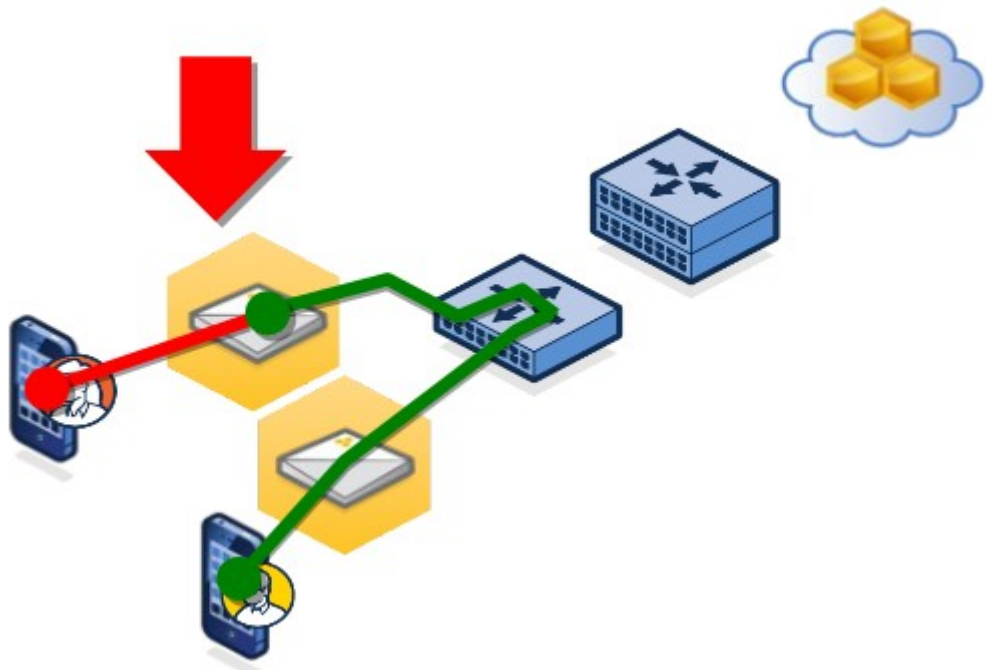
- kein Verzeichnisdienst (LDAP, AD, ...) für Schüler
- WLAN Lehrer (Passwort)
- WLAN Registrierung
 - Formular in Webbrowser (Name, Klasse)
 - Generierter Zugangscode
- WLAN Schüler



Zentrale Controller
Architektur

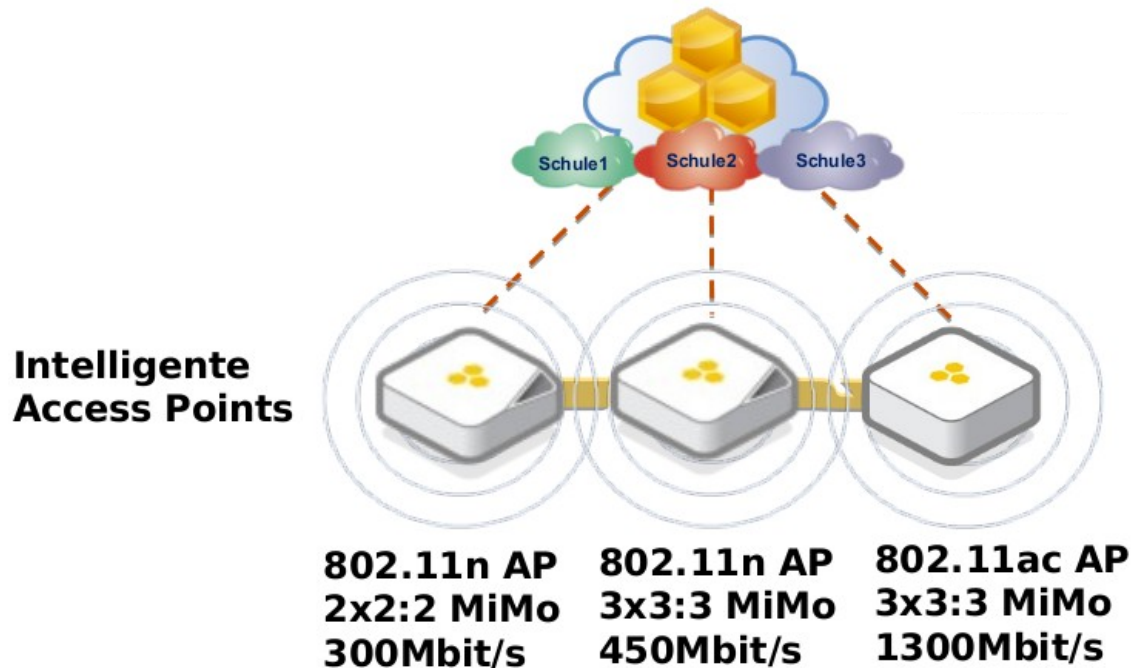


Verteilte Architektur



Der HiveManager (Hive = Schwarm)

HiveManager
Cloud-Basiert oder Lokal



Network Configuration

1 - Configure Network Policy - BGM_Krems

2 - Configure Interfaces and User Access

Save

Continue

Configure network access, user authentication, and security for the selected network policy.









SSIDs Choose

Name (Access Type)

Authentication

User Profile

VLAN

 selfreg BRG-Kremszelle-Schueler Private PSK	 <PSK User Groups> selfreg_user_group	 selfreg_user_pro... (default) Add/Remove	 1 Assign VLAN
 WLAN-Registrierung Open	 <Private PSK Server> 1OG-NAWI-2D09  cwp_selfreg CWP: Private PSK Se		
 BRG-Kremszelle-L... BRG-Kremszelle-Lehrer WPA/WPA2 PSK (Personal)			

Management and Native VLAN Settings 1

MGT Interface VLAN 1

Bonjour Gateway Choose

 [QS-Bonjour-Service](#)

Layer 2 IPsec VPN Choose

Click choo

Additional Settings Edit

Device Templates Choose

Port Types

Note: Device Templates and Port Types settings are only required when

3 - Configure and Update Devices

Upload the network policy and any necessary files, certificates, and user accounts to the selected devices.

For a complete device configuration table, see [Configuration > All Devices](#).

For detailed upload results, see [Configuration > Device Update Results](#).

Settings

Devices to Update

Update

























Modify

Reboot

Tools...

Filter

Current/Default Policies + ✎ ✕

<input type="checkbox"/>	Online	Name	MAC Address	Mgt0 Interface	Network Policy	Version	Updated	Update Status	
<input type="checkbox"/>		 1OG-NAWI-2D09	9C:5D:12:4D:E7:C0	10.1.253.1	BGM_Krems	6.4r1		Reboot Successful	
<input type="checkbox"/>		 1OG-WC-4E08	9C:5D:12:4D:CB:40	10.1.253.3	BGM_Krems	6.4r1		Reboot Successful	
<input type="checkbox"/>		 2OG-DISP-3D03	9C:5D:12:4D:E5:80	10.1.253.4	BGM_Krems	6.4r1		Reboot Successful	
<input type="checkbox"/>		 MZWR-4C03	9C:5D:12:4D:C4:80	10.1.253.5	BGM_Krems	6.4r1		Reboot Successful	
<input type="checkbox"/>		 Lehrer-25C05	9C:5D:12:3E:04:40	10.1.253.8	BGM_Krems	6.4r1		Reboot Successful	
<input type="checkbox"/>		 EG-Bad-4F08	9C:5D:12:4C:E2:80	10.1.253.6	BGM_Krems	6.4r1		Reboot Successful	
<input checked="" type="checkbox"/>		Lehrer-Cafe	9C:5D:12:4D:E3:80	10.1.253.7	BGM_Krems	6.4r1		Staged	
<input type="checkbox"/>		 EG-NMB-4A24	9C:5D:12:71:48:00	10.1.253.9	BGM_Krems	6.4r1		Reboot Successful	

3 - Configure and Update Devices

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