

Cloud-Based Licensing in Offline Scenarios

Strategies and Best Practices



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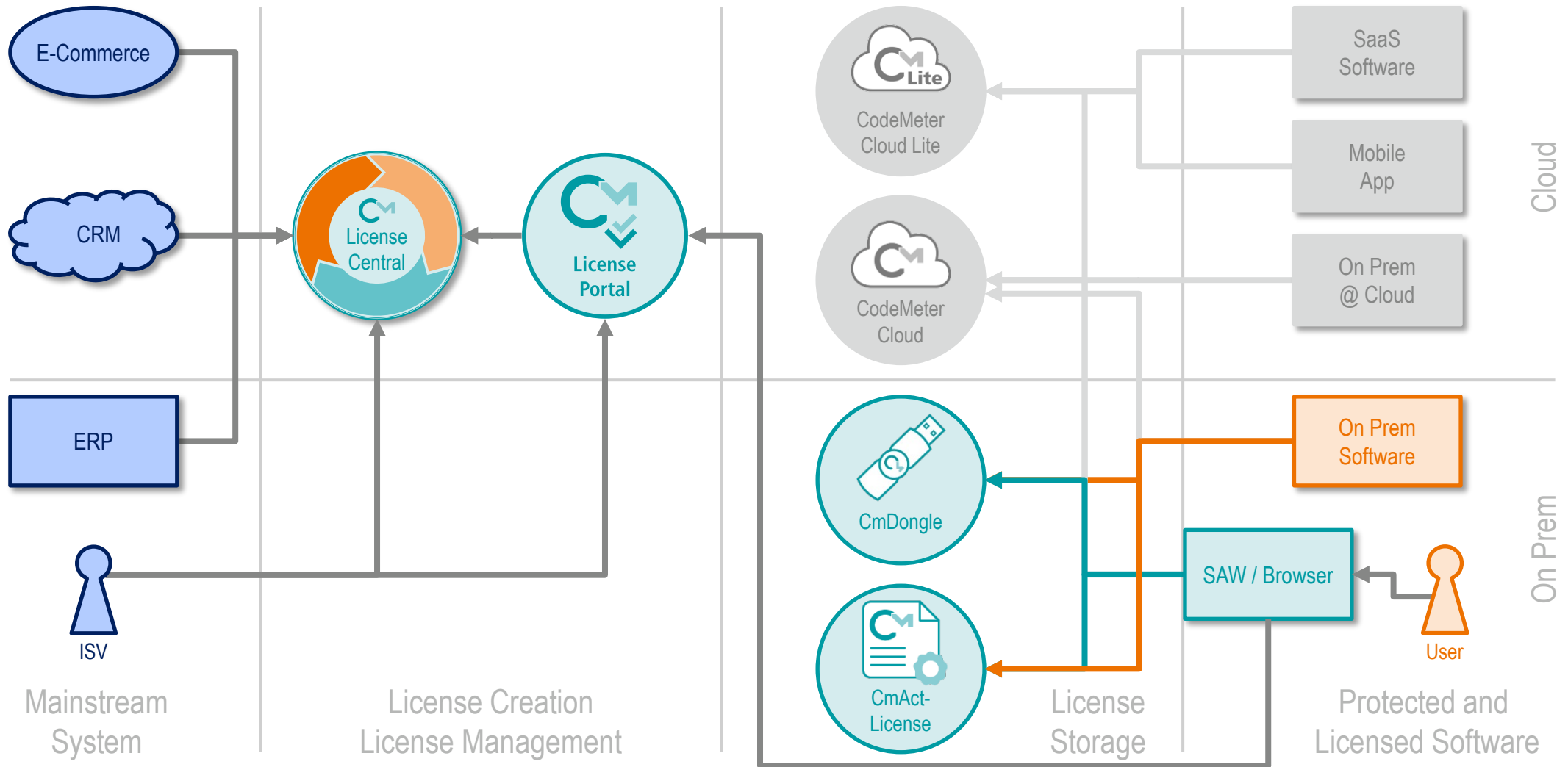
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To access the on-demand replay of this masterclass,
please visit

<https://www.wibu.com/wibu-systems-webinars/cloud-based-licensing-in-offline-scenarios/access.html>

Overview

CodeMeter Product Overview



CodeMeter Container Types

CmContainer Types



- **CmDongle**
 - Mobile
 - Highest security



- **CmCloudContainer**
 - Mobile
 - Requires Internet connection
 - Highest security



- **CmReady**
 - Mobile
 - Uses existing flash memory device

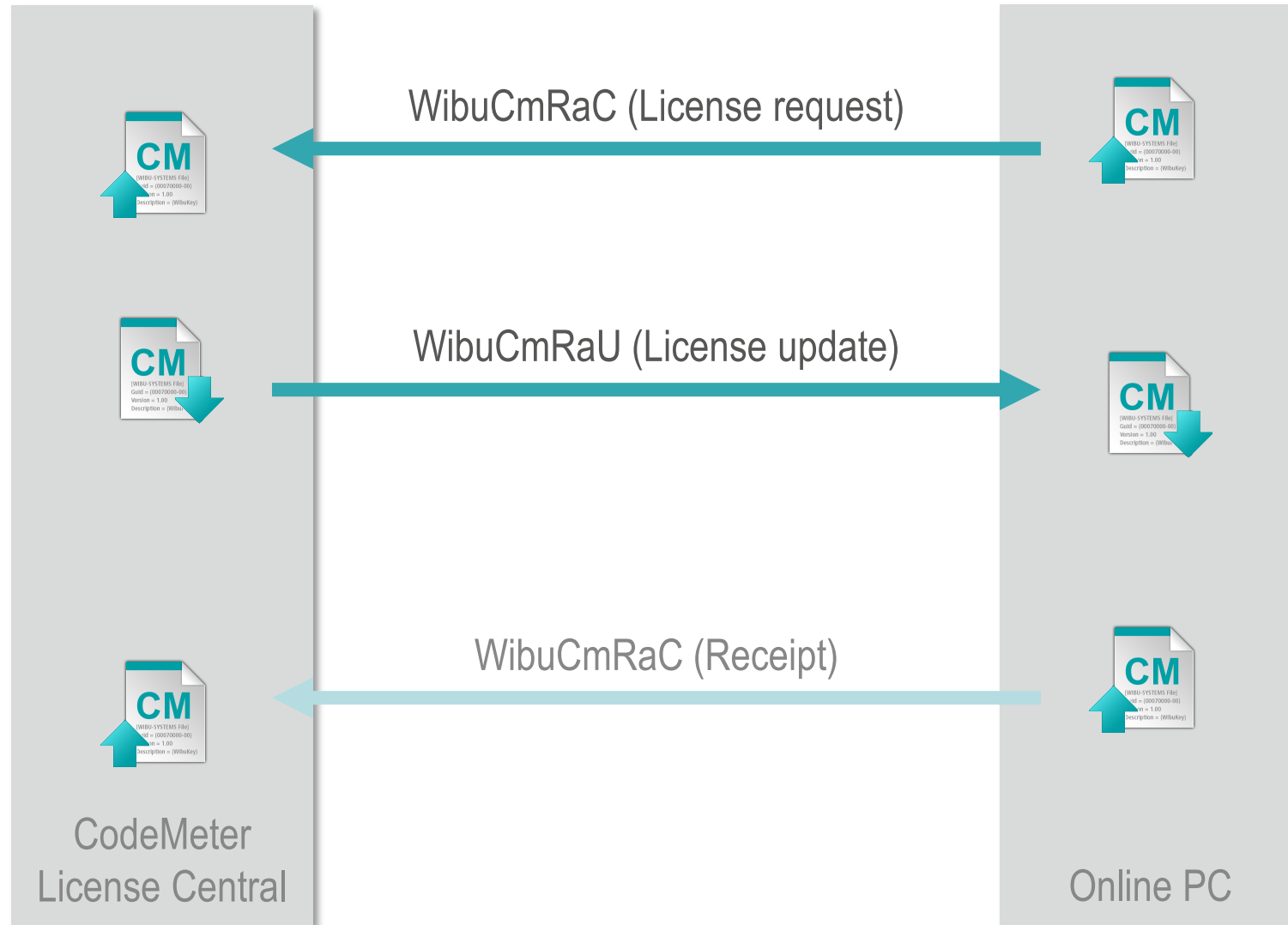


- **CmActLicense**
 - Bound to a device

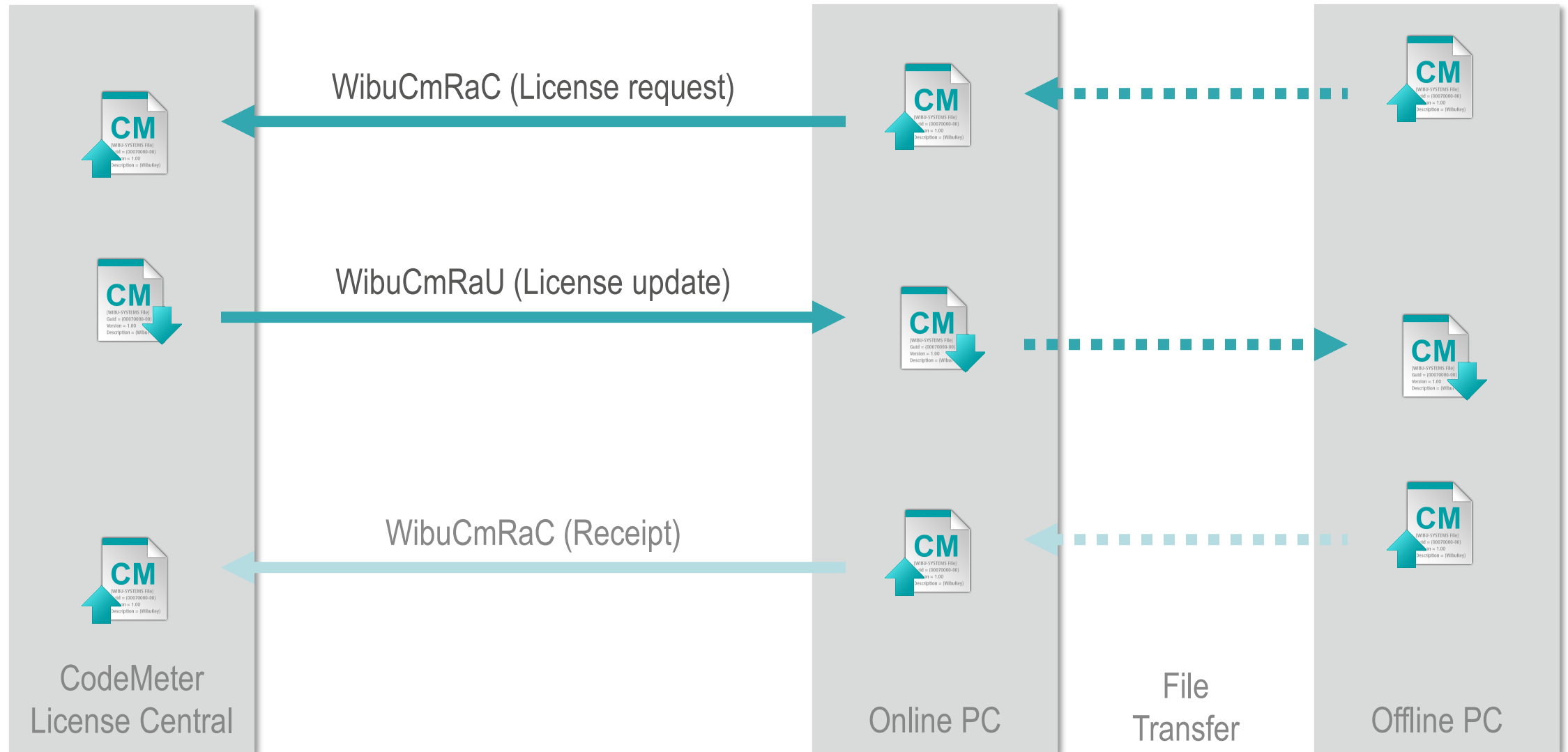
License Activation

The Basic Process

Transferring a License into a CmContainer (Online)



Transferring a License into a CmContainer (Offline)



Fingerprinting Offline Devices

Fingerprinting Offline Devices

- **SmartBind**

- Default (automatic) binding
- Maintained by Wibu-Systems

- **Workflow I**

- WibuCmLiF → WibuCmRaC
- WibuCmRaC → WibuCmRaU
- Pre-activation during production

- **Binding Extension**

- Individual Binding as plugin to CodeMeter
- Implementation effort by ISV

- **Workflow I**

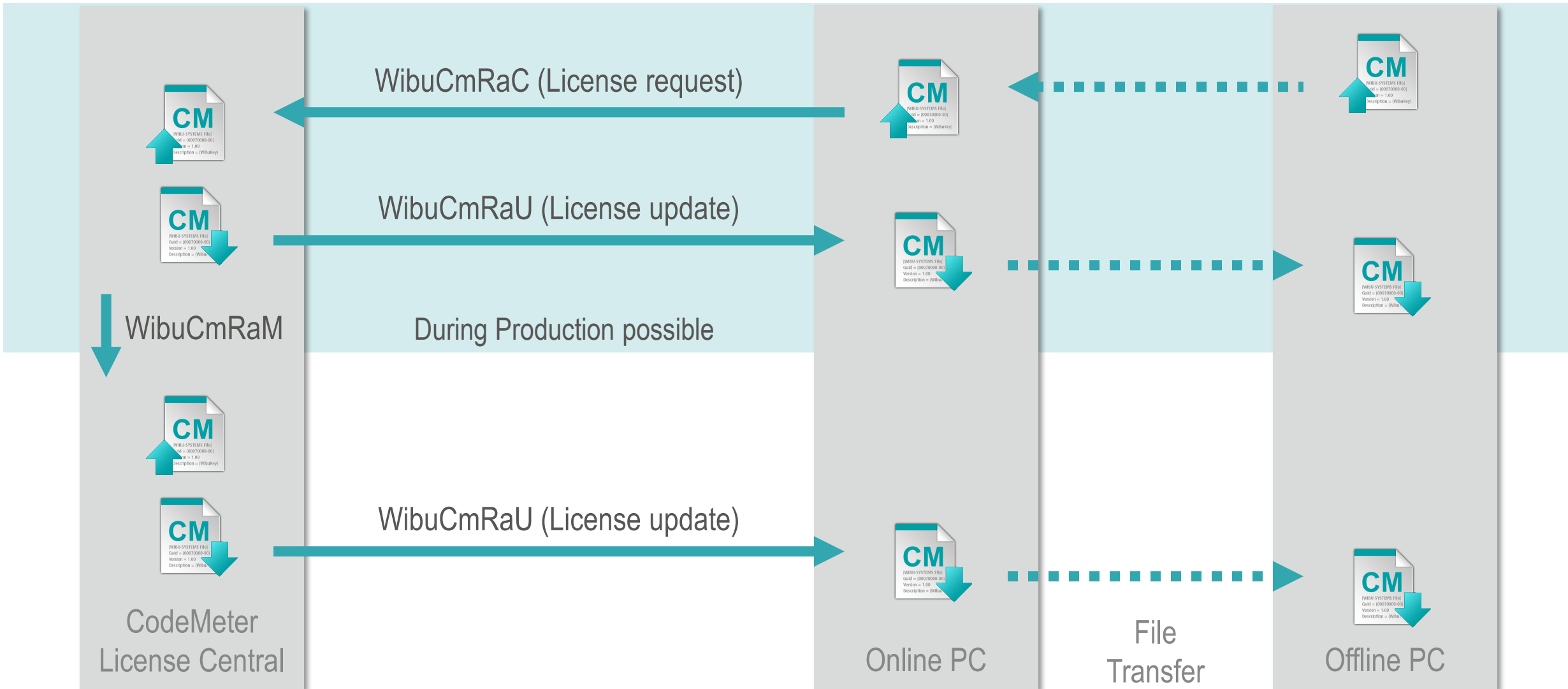
- WibuCmLiF → WibuCmRaC
- WibuCmRaC → WibuCmRaU
- Pre-activation during production

- **Workflow II**

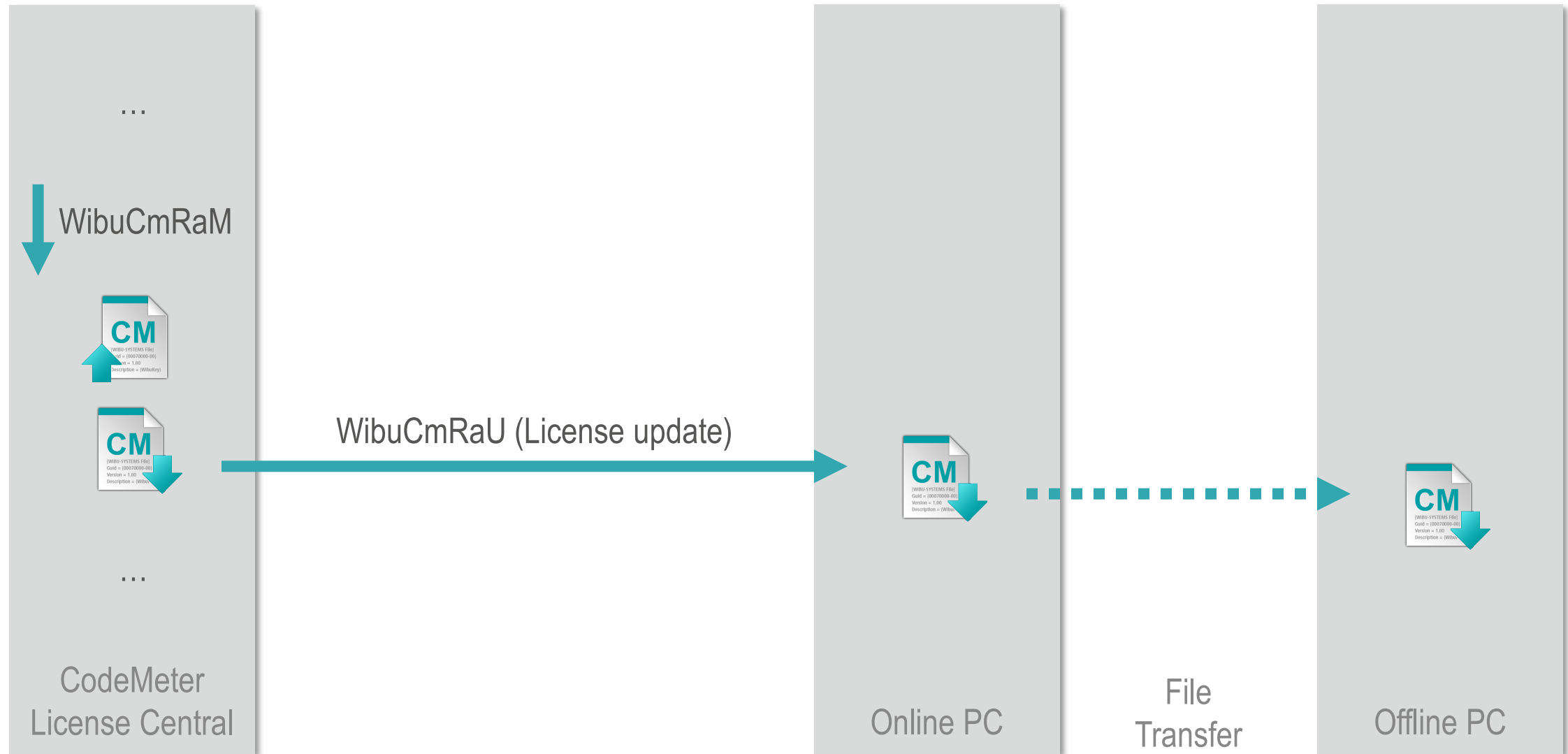
- Device ID → Binding Value → WibuCmRaC (Simulated)
- WibuCmRaC → WibuCmRaU
- Storage of Device ID during production

Push Updates for Known Devices

Push Updates for Known Devices



Push Updates for Known Devices



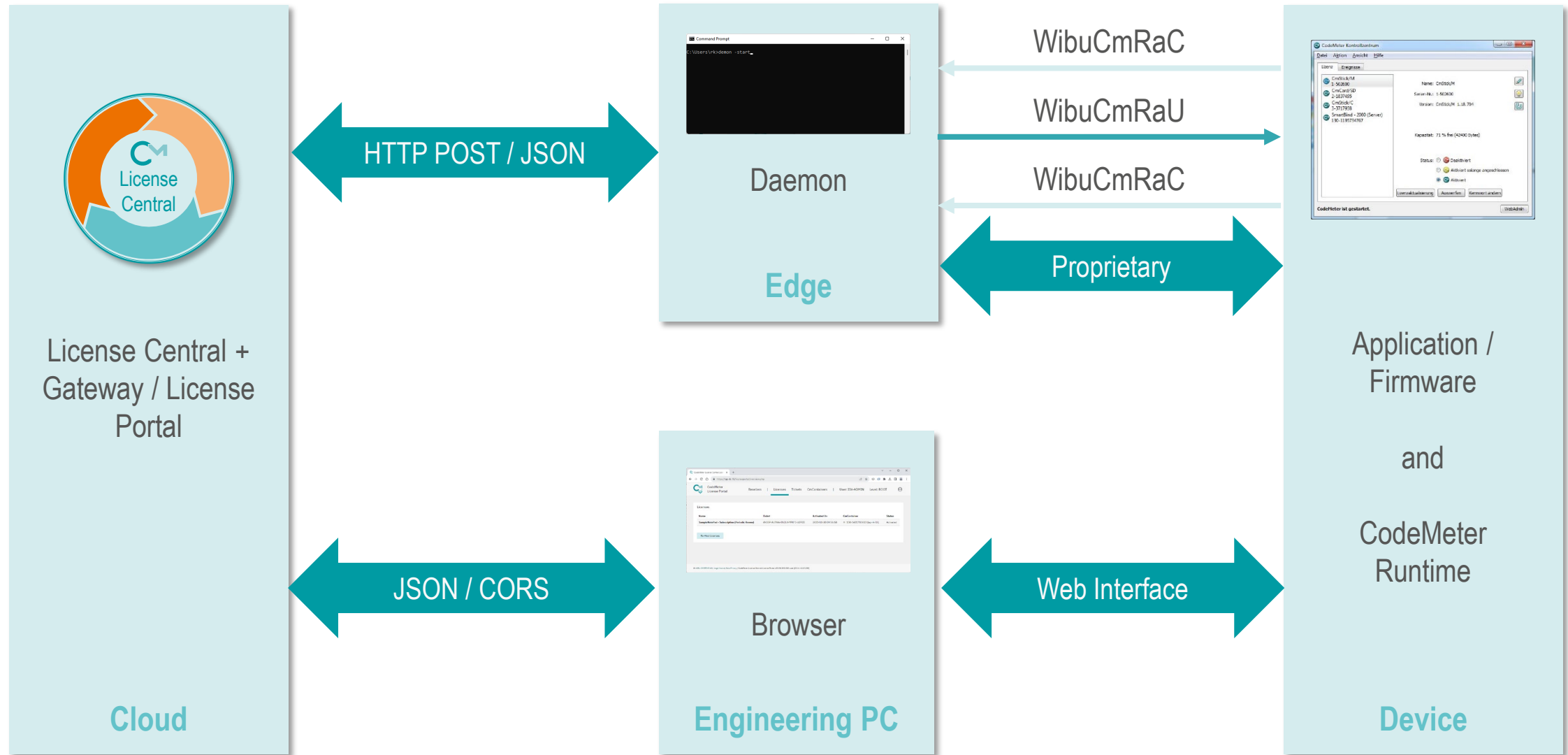
License Deactivation

License Deactivation

- Deactivation creates a new license file (higher generation ID)
 - Secure storage of generation ID
- Receipt mandatory to confirm deactivation
 - Firm Update Counter after deactivation
 - Manual confirmation by ISV possible

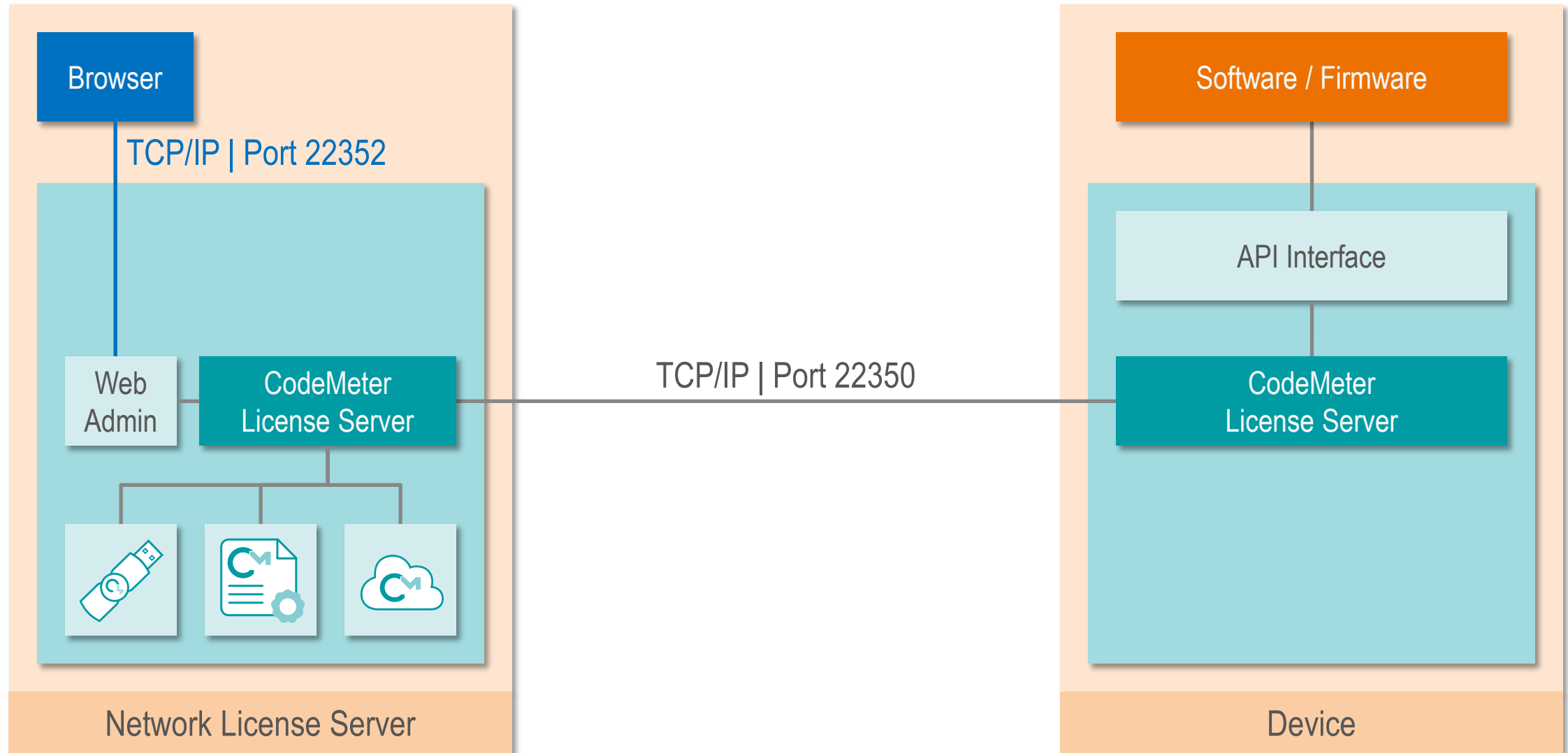
Indirect Activation via Edge Devices or Engineering PCs

Indirect Activation via Edge Devices or Engineering PCs



License Servers and Redundant License Servers

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License Servers and Redundant License Servers

- **License Server**

- Central license management
- TCP/IP communication Client → Server
- License Quantity defines number of devices per license
- Windows, Linux, macOS
- CmDongle, CmActLicense, CmCloudContainer, CmReady
- WebAdmin for support processes
- CodeMeter Control Center / cmu-tool

- **Redundancy**

- Two-License Servers with/without usage tracking
- Triple Mode Redundancy (TMR)

Advanced Requirements

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- **Bulk updates for entire shop floor landscapes**
 - Tool to collect WibuCmRaC files and push WibuCmRaU files
 - XML file, Zip archive, ... to transfer all files at once, individual implementation
- **Subscription licenses in industrial manufacturing**
 - Needs direct or indirect Internet connection for renewal
 - Alternatively, via Push updates
 - License Subscription vs. Maintenance Subscription



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It's time to address your most burning questions

Thank You!

Let's keep in touch

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