

CodeMeter License Central



Best Practices for License Management

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Time Limited Licenses

- Period from first usage (Call of CmCrypt/2)
- Used mainly for emergency licenses
- No renewal and no extension via CodeMeter License Central
- No move to a different CmContainer possible
- “New license” in case you need to reactivate and restore
- No exact information in CodeMeter License Central about license expiration date

Try to avoid the use of Usage Period with CodeMeter License Central!



- Fixed end date
- Used for subscription, evaluation, and other time based licenses
- Set during license creation or activation
- Add
 - Adds x days from activation date
 - Renews existing license for x days
- Set
 - Sets fixed end date
 - Overwrites an existing license

- Easy renewal via CodeMeter License Central
- Moving to a different CmContainer will keep the original date, also in case of “Add”
- Reactivate and Restore keep the original date, also in case of “Add”
- Reporting in CodeMeter License Central, when the license expires
- Used for checkpoint licenses with an activation specific parameter
 - The next activation will reset the usage period to x days

Use Expiration Time rather than Usage Period!



Editing Licenses

- Overwrites an existing license
 - Merges existing Product Item Options and new Product Item Options
 - Differential Updates
- Used for Pay-Per-Use licenses (Unit Counter)
- Used for simple license models
 - Simple update paths of existing licenses (no updates for dedicated items)
 - Doesn't work for complex models with price configuration

Used for simple license models and simple update paths!



- The new item replaces the existing item completely
- Update for a dedicated item
- Often used if a third party system is already managing the licenses
 - SAP: Equipment
 - Salesforce: Projects with assets
- Used for complex price models

Best practice tip for SAP, Salesforce, and complex price models!



Modular Licenses

- Writing a feature mask into Hidden Data, Extended Protected Data or Customer Own License Information
- Often used for migration from Hardlock, HASP, Sentinel, and dongles from other vendors
- Easy migration of the protected software, but it needs a tool to create custom data fields
- This migration path doesn't use the full capabilities of CodeMeter

Try to avoid modules in custom data fields except for a small transition period!



- Creating multiple Product Items in one CodeMeter License Central Item
- Manual configuration of the same options multiple times
- Complex update paths
- Use Bundles instead

Try to avoid multiple Product Items in one CodeMeter License Central Item!



- Creating one CodeMeter License Central Item for every feature
- One Product Item per CodeMeter License Central Item
- Creating Bundles with single features
 - Included | Opt-In | Opt-Out
- Simple product structure, no dependencies (no dynamic pricing, no price configurator)
- Integration with an e-commerce solution

Use Bundles for non-complex product structures!



- Creating features as Module Items (Child)
- Creating products as Product Items (Parent)
- Assigning features to products
- Similar to bundles except for
 - Module Items inherit options from parent, single options can be overwritten by child
 - Products are transferred as an not dividable package, including all Module Items
 - Replace is only possible for a product and replaces the product, including all Module Items
 - Configuration of Module Items is simpler

- Mainly used if the leading system already stores the license in a corresponding object
 - SAP: Equipment
 - Salesforce: Project with assets
- Easy usage with the **Replace** feature

Module Items are the recommended way for modular licenses.



Licenses for Offline Devices

- Licenses are transferred via an intermediate CmDongle
 - The field engineer carries the CmDongle with the license to an offline device
- CodeMeter License Central doesn't know exactly where licenses are
- No simple update paths
- Recommendations for usage, if necessary:
 - No return to CodeMeter License Central allowed
 - No return to intermediate CmDongle allowed

Try to avoid License Transfer (Move) with CodeMeter License Central!



- Creation of an initial license at the device during production
 - Basic license or dummy license
- Fingerprint and Update Counter is available in CodeMeter License Central
- CodeMeter License Central creates new licenses as push updates for dedicated devices
 - The field engineer needs a memory device only to carry it to the offline device
- The user doesn't need to upload CodeMeter Context Files

Using Push Updates is the recommended way for offline devices!



Automatic Updates

- All features of one license are stored in the same ticket
- All changes are stored into the same ticket
- One ticket is activated into one CmContainer (1:1)
- The ticket should be stored either on a computer (CmActLicense) or in the license (all CmContainers)
- Software Activation Wizard uses the ticket to retrieve updates
- Restoring and moving the license to a different CmContainer is easy

Requires the ticket and tickets are getting larger over the time!



- First license / feature is activated via a ticket
- Changes are executed via:
 - Assign to a CmContainer (add)
 - Replace (change)
 - Withdraw (remove)
- Software / user doesn't need to know the ticket
- The update is delivered based on Container Serial No. or Context File

User doesn't need the ticket! Ticket shows current state! Recommended way!



External Tools

- Creates Items in CodeMeter License Central
- Based on external description and an item list
 - Usage of revision control systems
- Reproducible process to create items
- No manual interaction – fewer errors
- Semi-automatic synchronization with a 3rd party system that cannot communicate with CodeMeter License Central directly

Troubleshooting

- Unexpected State
 - Same CmContainer at different systems (P, Q, D)
 - Don't use "Accept externally created license entries"
 - How to solve: Accept state manually, or recycle CmContainer
- Internal Error
 - Check Webserver log
 - Check system log in CodeMeter License Central User Interface

Thank you very much for your attention



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