

# SAP NetWeaver Landscape Virtualization Management

## Automatisierte SAP System Copy / Clone and Refresh

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**1**

**Overview &  
Roadmap**

**2**

Application  
Virtualization

**3**

SAP System  
Clone / Copy /  
Refresh

**4**

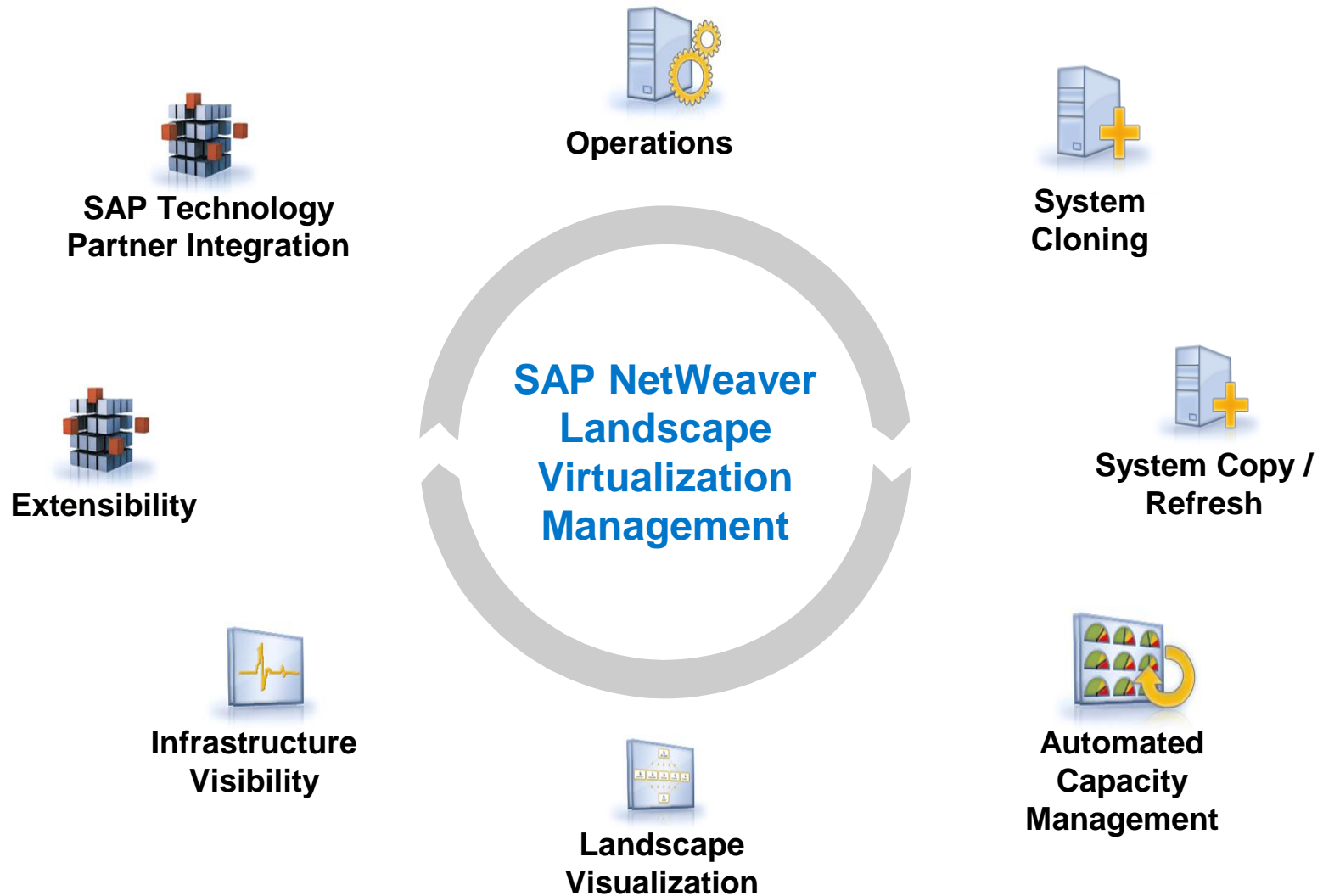
Post Copy  
Automation

**5**

Q&A

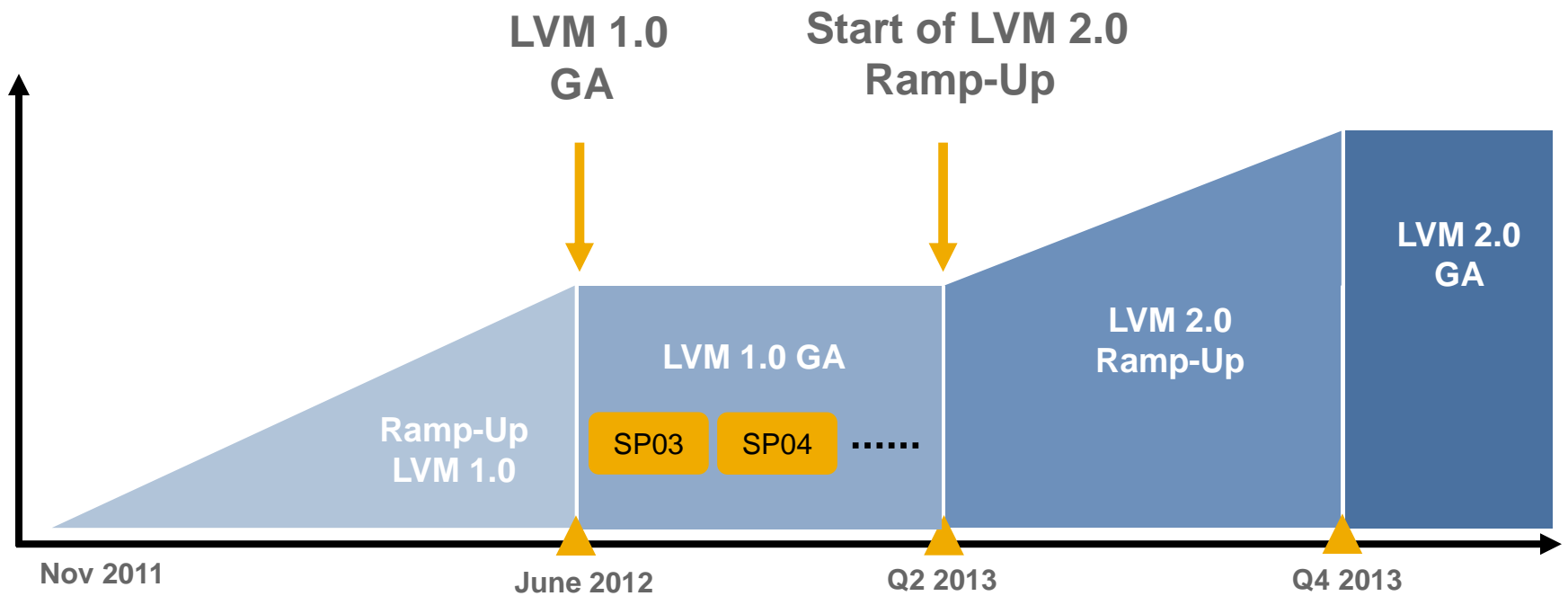
# SAP NetWeaver Landscape Virtualization Management 1.0

## Feature overview



# SAP NetWeaver Landscape Virtualization Management Roadmap

SAP NetWeaver LVM 1.0 generally available since June 1, 2012.  
Ramp-up of SAP NetWeaver LVM 2.0 is planned to start in Q2 2013.



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# SAP NetWeaver Landscape Virtualization Management Roadmap

Lab Preview

## LVM 1.0 (GA: June 1, 2012)

- End-to-End SAP System Clone / Copy / Refresh for ABAP
- End-to-End SAP System Clone / Copy / Refresh for JAVA (SP03 onwards)
- Post-Copy Automation (PCA) for ABAP and JAVA
- Automatic Capacity Management (ACM)
- Application Server Installation / Un-installation
- Mass Operations (start / stop / relocate)
- User Configurable Dashboards
- Reporting
- Landscape Visualization
- Custom Operations and Custom Hooks (Extensibility)
- Custom Services (Management of Non-SAP Components)

SP03 since June 18

## LVM 2.0

- End-to-End SAP Application Specific System Copy/Refresh (BW, CRM, SCM ... )
- Improvements in SAP System Clone/Copy/Refresh, e.g. custom cloning.
- Integration with Near-Zero Downtime Maintenance for SAP NetWeaver Enterprise Portal
- Collaboration with SAP Solution Manager
- External Interfaces
- Integration with 3<sup>rd</sup> Party Management Tools
- HA Cluster “awareness”

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1

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2

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Virtualization**

3

SAP System  
Clone / Copy /  
Refresh

4

Post Copy  
Automation

5

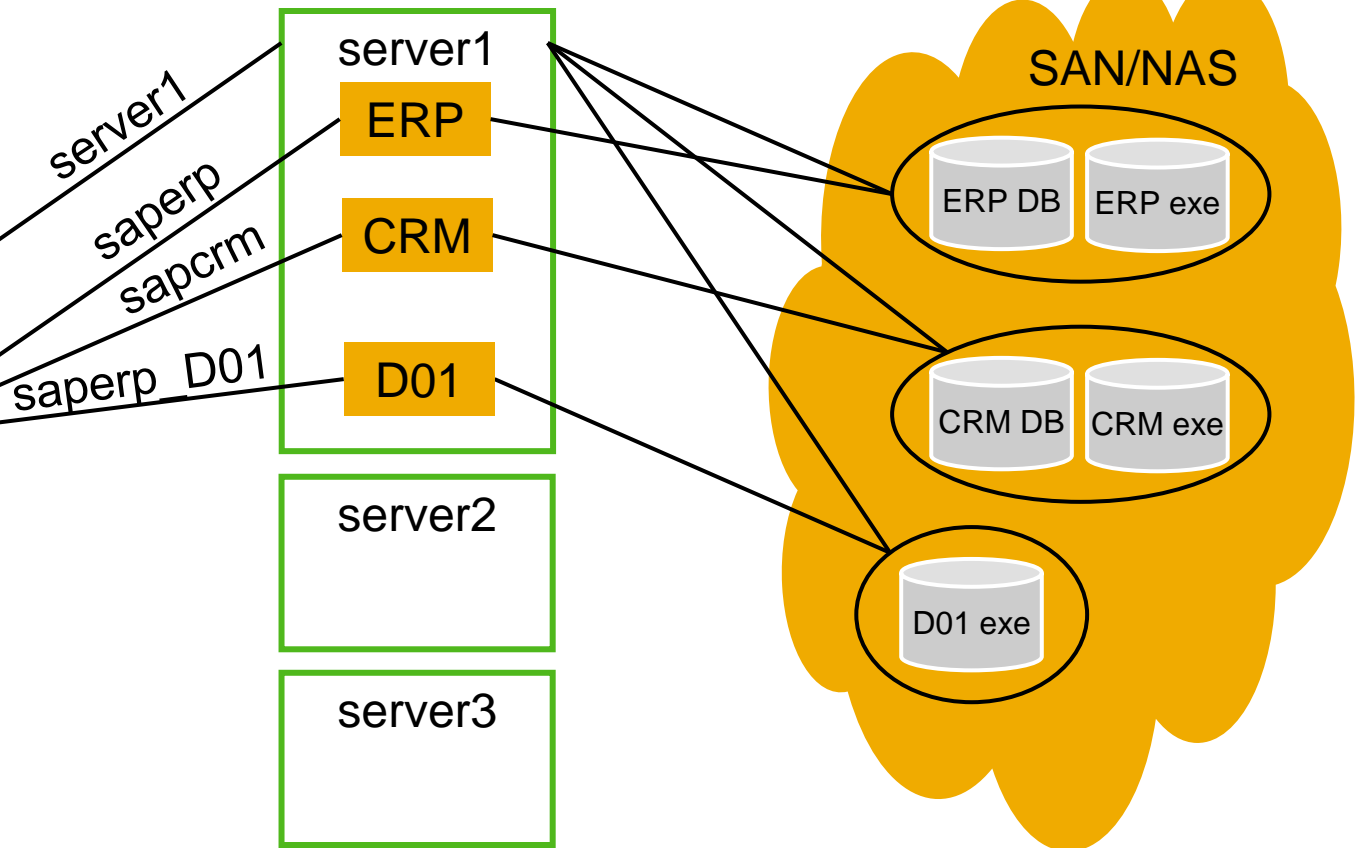
Q&A

# Application Virtualization

Virtual IP e.g.:  
saperp = 10.0.19.72  
(Not DNS alias)



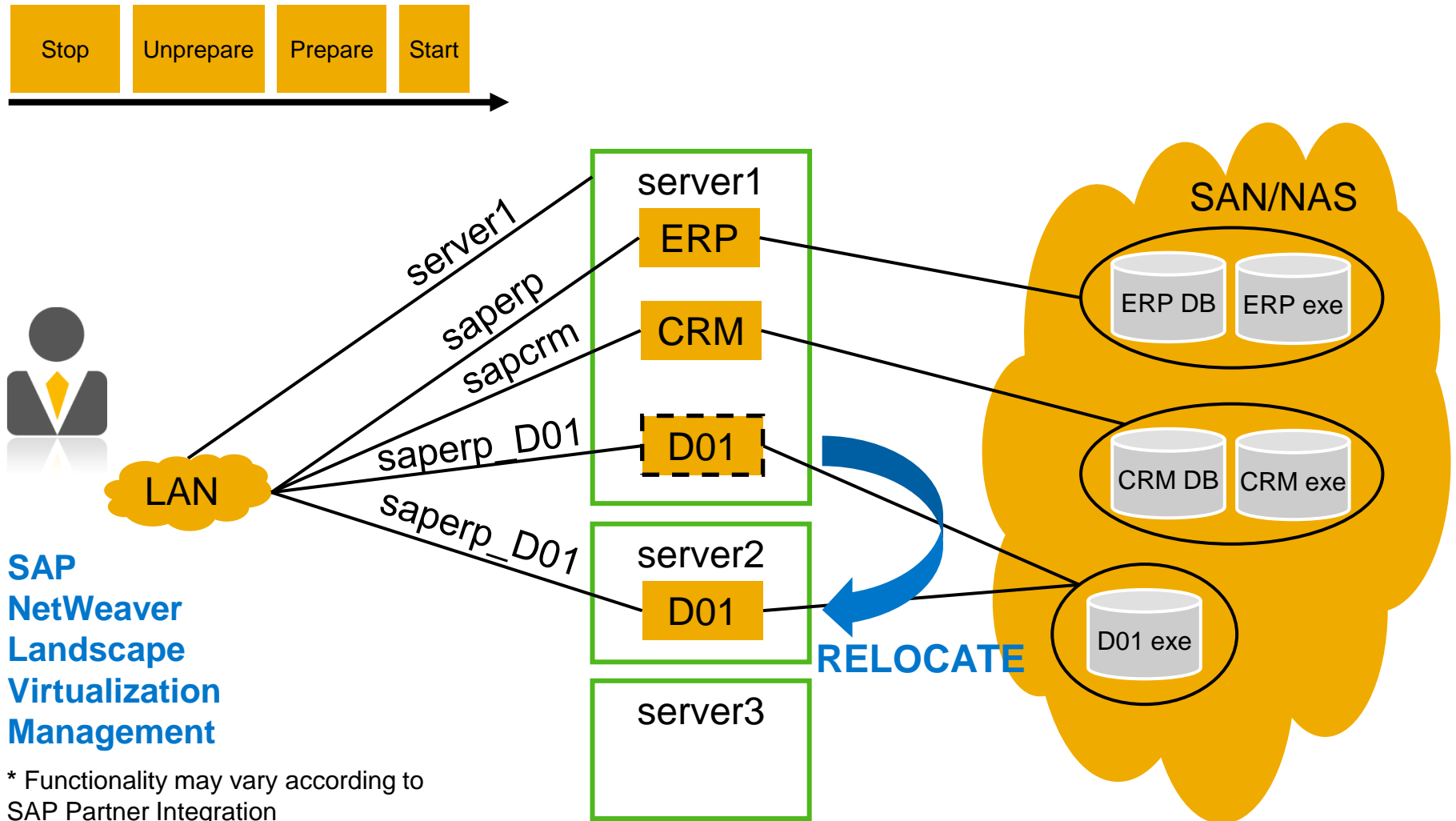
SAP  
NetWeaver  
Landscape  
Virtualization  
Management





# Concepts:

## Application Virtualization – Relocate\* (P2P)





1

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2

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3

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Clone / Copy  
/ Refresh**

4

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Automation

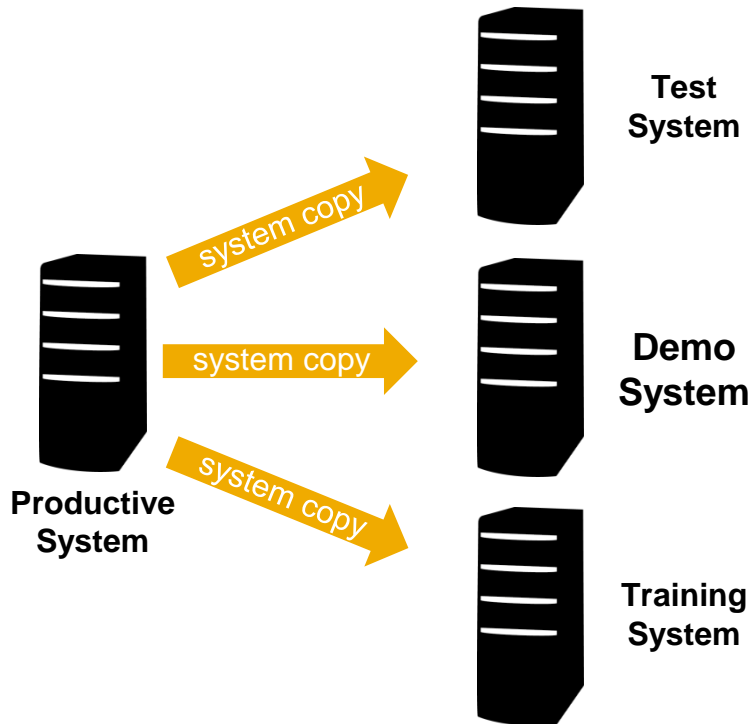
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Q&A

# SAP System Clone / Copy / Refresh

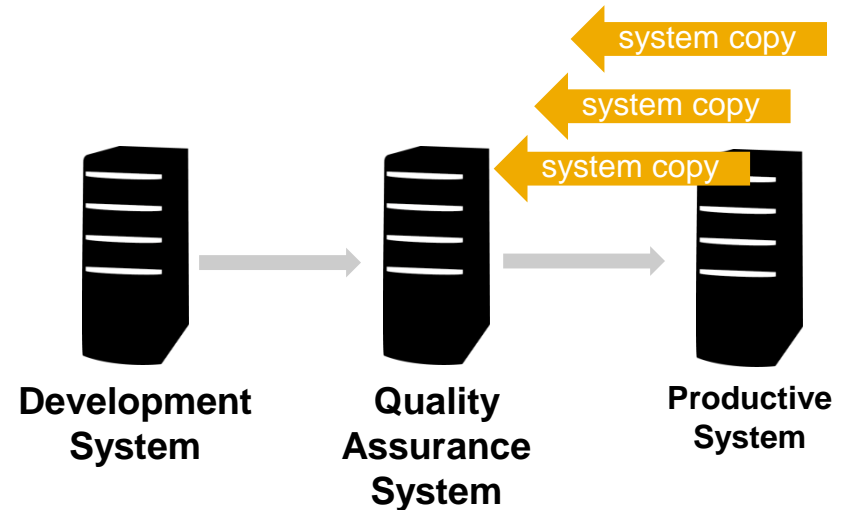
## Use Cases

### Initial System Copy



**GOAL: Create test, demo, training systems**

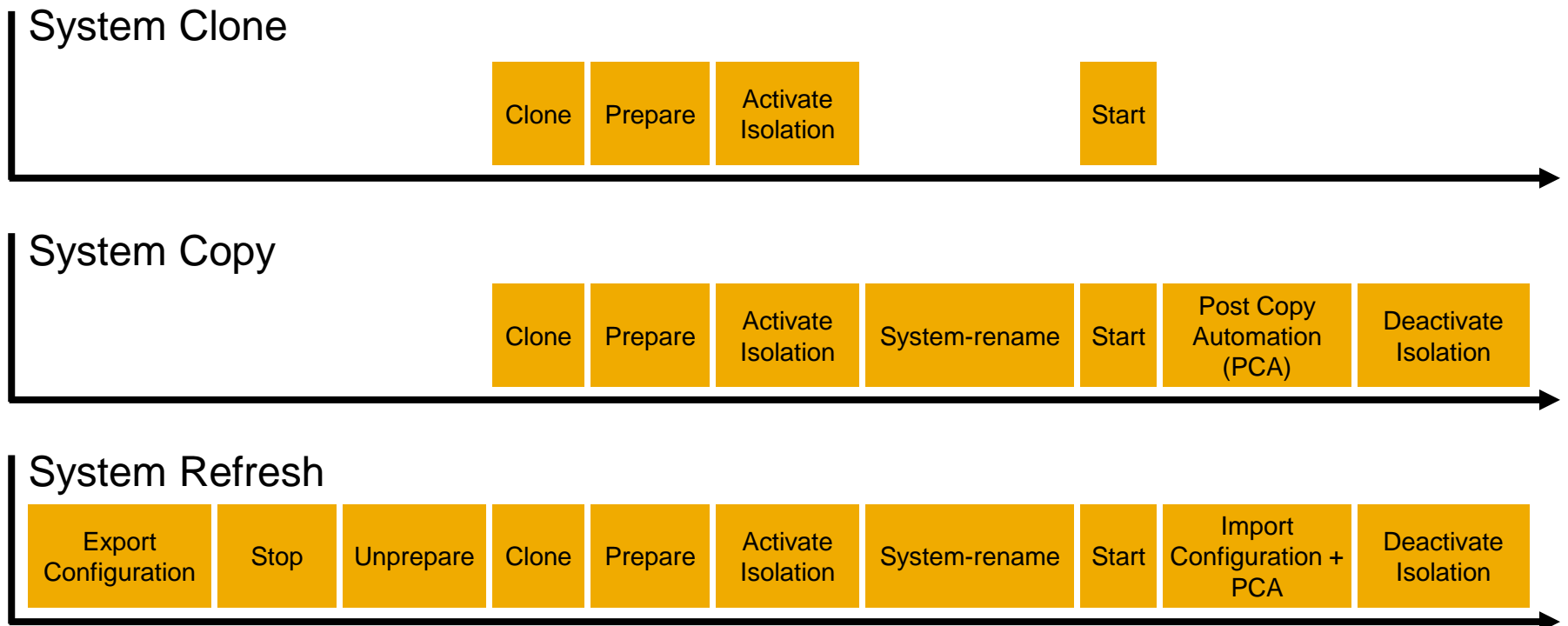
### System Copy Refresh



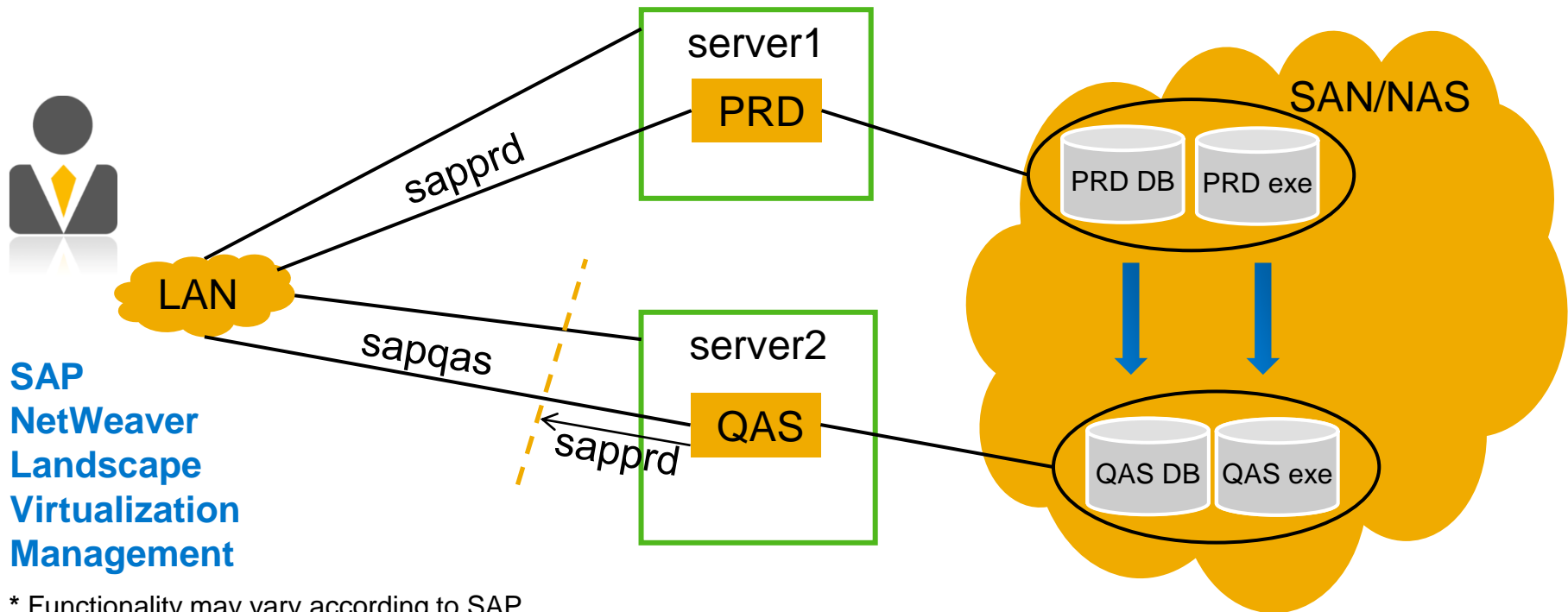
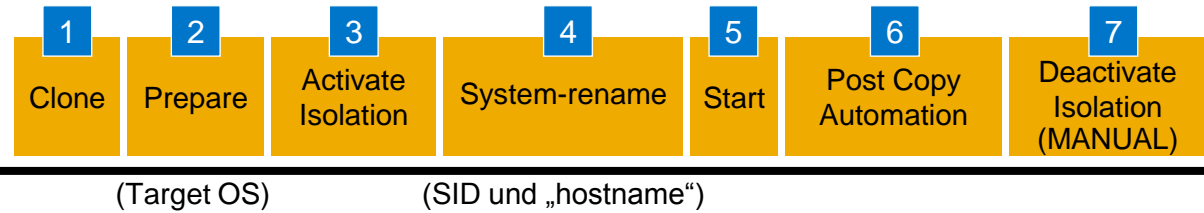
**GOAL: Update QA system from PROD to make tests with latest business data**

# End-to-End Process Overview

## SAP NetWeaver Landscape Virtualization Management



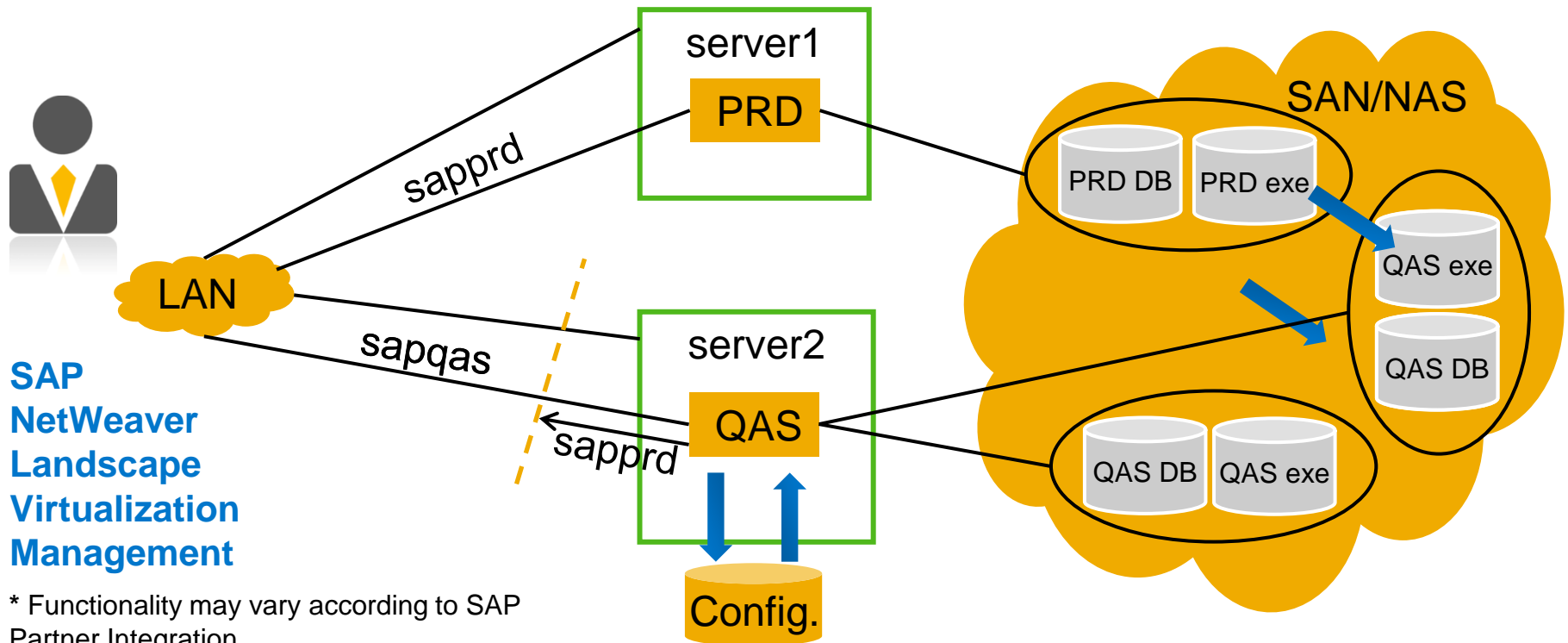
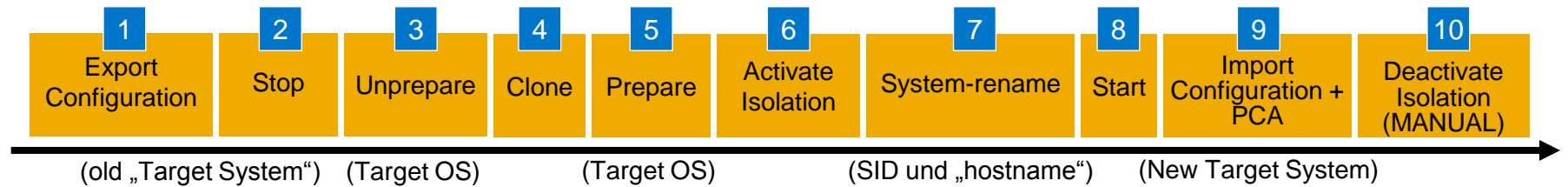
# System Copy\* = Clone + Rename + Post Copy Automation



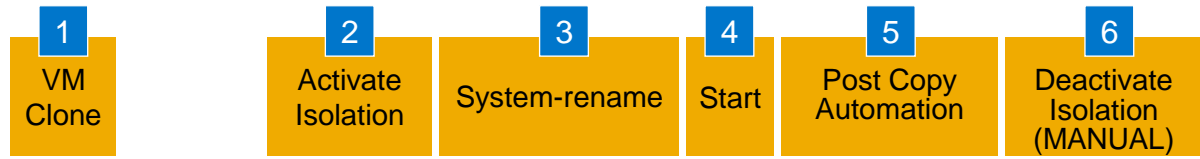
SAP  
NetWeaver  
Landscape  
Virtualization  
Management

\* Functionality may vary according to SAP  
Partner Integration

# System Refresh\* = Export + System Copy + Import



# VM System Copy\* = VM Clone + Rename + Post Copy Automation

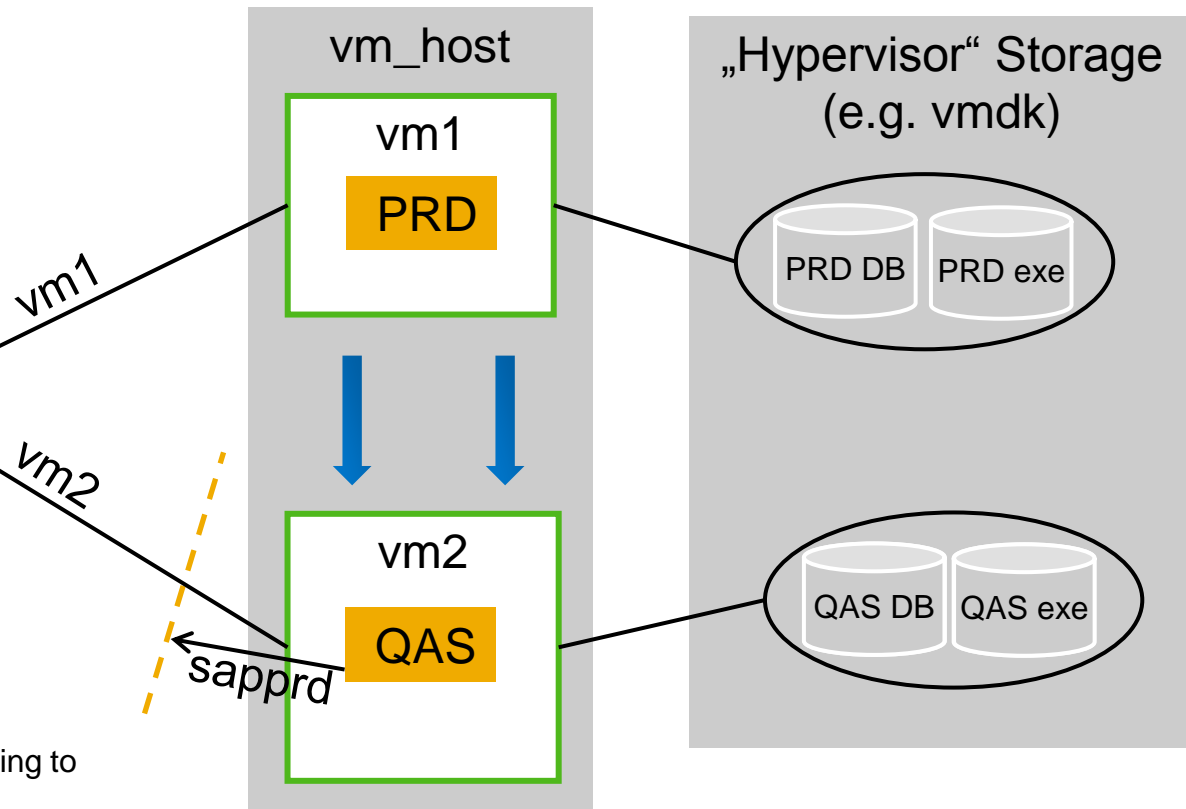


Note:  
• „Cloneable“ VM



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Landscape  
Virtualization  
Management

\* Functionality may vary according to  
SAP Partner Integration





1

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2

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4

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5

Q&A



# Post Copy Automation (ABAP)

## Overview



- **Scope:**

- Basis post-copy activities for ABAP-based systems (such as SAP ERP)

- **Automation Tool:**

- Task Manager Framework as part of the ABAP-based systems

- **Supported versions:**

- SAP NetWeaver AS ABAP 7.00 SP14 upwards
- SAP NetWeaver AS ABAP 7.01 SP00 upwards
- SAP NetWeaver AS ABAP 7.02 SP00 upwards
- SAP NetWeaver AS ABAP 7.10 SP00 upwards
- SAP NetWeaver AS ABAP 7.11 SP00 upwards
- SAP NetWeaver AS ABAP 7.30 SP01 upwards
- SAP NetWeaver AS ABAP 7.31 SP01 upwards

- **Further Information:**

- Guide for *Automated ABAP Post System Copy Configuration* on <http://help.sap.com/nwlvsm>.
- Automation of the application specific activities (e.g. for SCM) is in progress

# Post Copy Automation (ABAP)

## Technical Coverage

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### System Refresh

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- Initial Consistency Check
- Check for BW system
- ALE Configuration
- ALE Customizing
- Archiving
- Batch Jobs Configuration
- Batch Server Groups
- CCMS Configuration
- CCMS History
- Customer defined Tables
- DBACOCKPIT Configuration
- Operating System Commands
- Cross-Client File Names/Paths
- Licenses
- Logon Groups
- Operation Modes
- Printer Config / Spool Cleanup
- System Profiles
- RFC Connections
- Inbound qRFC Configuration
- tRFC and Outbound qRFC Config
- SAPConnect Data Cleanup
- SLD Data Supplier Configuration
- SCOT Configuration
- SICF Configuration
- SLD Access Data Configuration
- Update Program Server Groups
- STRUST Configuration
- Last Transport Request Number
- TMS QA Configuration
- Users (all, selected clients, exclude)
- Development Versions
- Virus Scan Definitions
- Web Service Configuration

### Initial System Copy

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- Cleanup of ABAP Basis Tables
- Cleanup of Batch Jobs
- Cleanup of DBA Cockpit Configuration
- Cleanup of RFC In / Outbound Queue
- Cleanup of SAPConnect Data
- Cleanup of Spool Requests
- Cleanup of TRUST Manager Config
- Configuration of Standard Jobs
- Scheduling in DBA Planning Calendar
- Configuration of MSSQL
- Configuration of Licenses
- Configuration of Logon Groups
- Configuration of System Profiles
- Configuration of Operation Modes
- Configuration of Secure Store
- Configuration of Spool, TMS
- Schedule of job RDDIMPDP

# Post Copy Automation (Java)

## Overview



- **Scope:**

- Basis post-copy activities for Java-based systems (such as SAP NetWeaver Portal)

- **Automation Tool:**

- Lifecycle Management Automation Standalone

- **Supported versions:**

- SAP NetWeaver AS Java 7.00 SP21 upwards
- SAP NetWeaver AS Java 7.01 SP05 upwards
- SAP NetWeaver AS Java 7.02 SP04 upwards
- SAP NetWeaver AS Java 7.30 and upwards

- **Further Information:**

- Not integrated into system copy process of SAP NetWeaver Landscape Virtualization Management software yet, but can be executed standalone
- For more information, see SAP Note 1602257 (SAP Release Note for LM Automation Piloting)

# Post Copy Automation (Java)

## Technical Coverage

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### **System Refresh**

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- **RFC destinations**
- **Security configuration**  
(SSL Key Store, Ticket KeyStore)
- **User Management** handling

### **Initial System Copy**

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- **RFC destinations**
- **Security configuration**  
(SSL Key Store, Ticket KeyStore)
- **TREX** property setting
- **SLD** configuration  
(SLD CIM client, SLD HTTP configuration)



1

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2

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3

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Refresh

4

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5

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# SAP NetWeaver Landscape Virtualization Management

## Standard Edition vs. Enterprise Edition

### Enterprise Edition

- Automatic Capacity Management
- Advanced Dashboards
- Reporting

- Landscape Visualization
- Inter System Dependencies
- Performance Monitoring

+ System Clone/Copy/Refresh<sup>(1)</sup>

### Standard Edition

- Start/Stop/Relocate
- Mass Operations
- Validations
- Task Planner
- Service & Resource Detection
- AS (Un-)Installation
- Basic Dashboard

- Virtualization Integration
- Extensibility (Custom Services, Operations, Hooks)
- Fine-granular Access Control

+ System Rename via SAPinst command line interface

NOTE (1) – This feature requires Copy/Refresh Option license. All others are covered by foundation license.



# Thank you

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