

# SAP Application Server HA Interface Certification: Final Update

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- **Certification Scope remains stable; Testcases will be available after Pilot**
- **A generic SAP HA-Script-Connector will be delivered by SAP**
- **Fair-Play-Period planned to start in April 2012. Please let us know, when you intend to participate**
- **Certified HA-Solutions planned to be published as of October 1<sup>st</sup> 2012**
- **Pricing, and certification details are clarified**

# Agenda SAP Application Server HA Interface Certification

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1. **Certification Scope**
2. **Certification Criteria**
3. **Characteristics of a recommended HA-setup**
4. **Sapstartsrv and SAP HA-Script Connector in detail**

# Certification Scope

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## **Certification of HA interface (Cluster API) from SAP (ICC) for HA vendors**

- Certify Start/Stop infrastructure within HA-Setups (SAP NetWeaver Management Agents, Cluster-API)
- Establish a single SAP HA setup scenario
- Unify HA setups for SAP NetWeaver 7.x based on 7.20 DCK availability (ABAP, Java)
- Improve transparency about OS dependencies and 3<sup>rd</sup> party failover software
- Improve transparency about available DB-specific HA-Solutions of 3<sup>rd</sup> party vendors
- Clarify responsibilities of SAP and its partners, especially for support

# ICC Certification

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## Certification of HA relevant interface (Cluster API) from SAP (ICC) for HA vendors

- Starting with NW 7.30 with 7.20 kernel scenario (later DCK for all NW based SAP application releases that comprise NW 7.20 kernel). No appraisal of different partner HA solutions. Certification of elementary start/stop activities.
- Certification per OS platform/hardware architecture and per HA vendor software release
  - Supported OS/DB/hardware architecture releases have to be listed on HA partner info page
  - Modest dependency on NW release because of 7.20 DCK. No further certification for different NW releases required.
  - No DB dependencies
- New certification required for:
  - New scenarios if incompatibilities occur. Incompatibilities have to be communicated from SAP to partners
  - SAP relevant Feature extensions for new partner product releases
  - New OS platform/hardware architecture
  - After 3 years
  - If new kernel requires new SAP Host Agent interface
- Partner is responsible for HA PAM
- Certification with SAP Logo: **“Certified Integration with SAP NetWeaver“**

# NW-HA-CLU 730 certification

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## Pricing

- The first certification will cost 10.000,- Euro
- Every further certification with a different OS platform than the first one will cost 5.000,- Euro

## Timing

- The certification scenario will be available earliest starting on 1<sup>st</sup> April 2012 !

## Which address to contact?

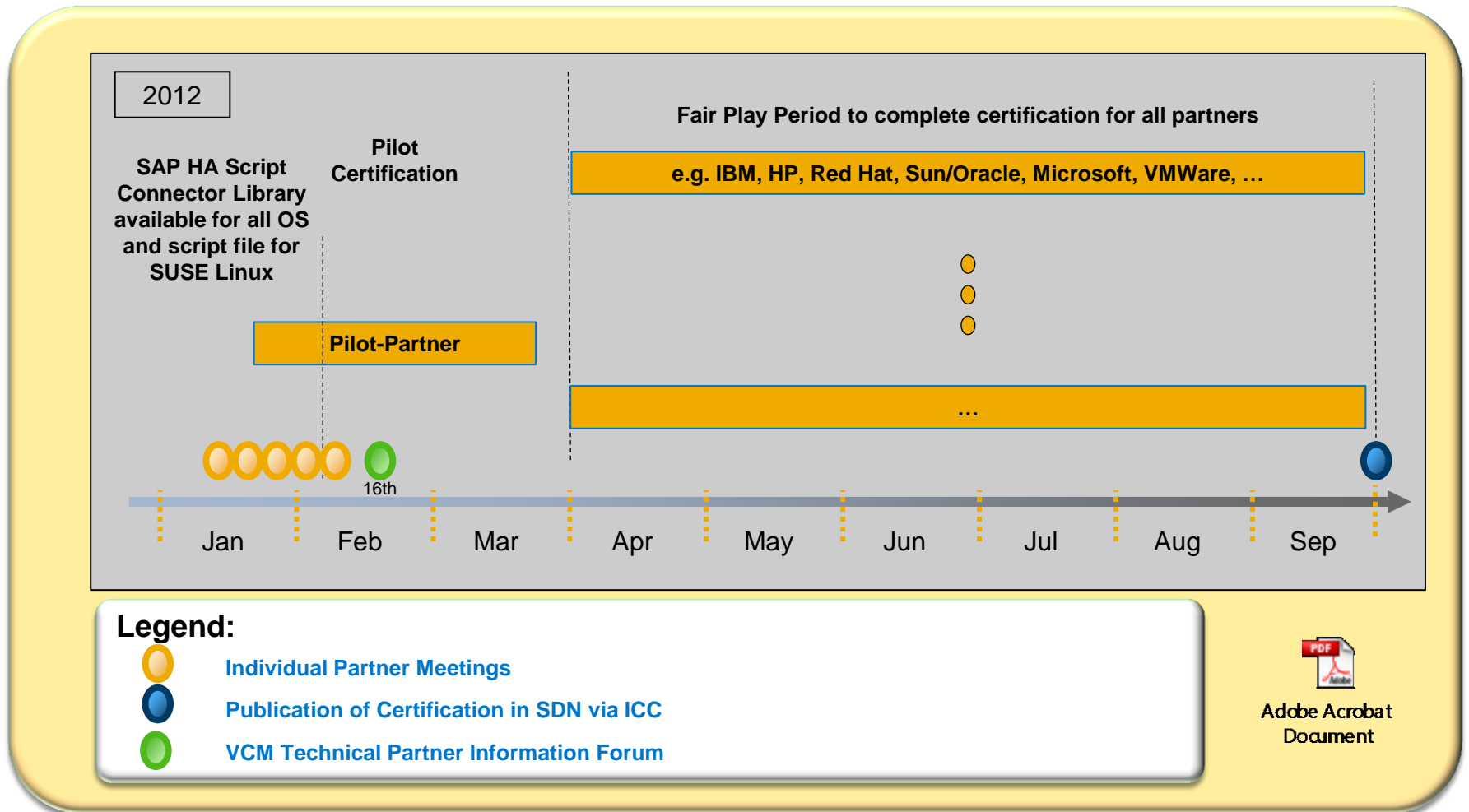
- To request a certification please contact the following address:

[sstp@sap.com](mailto:sstp@sap.com)

- Please make sure to mention the NW-HA-CLU interface scenario, your product name/version and also for which OS platform you want to be certified.

# Timeline - HA Interface Certification as of Jan 2012

Please let us know, whether you intent to pass the certification within the “Fair-Play”-Period



# Certification Criteria



# Certification Criteria

*Testcases available after Pilot*

## General Certification Criteria

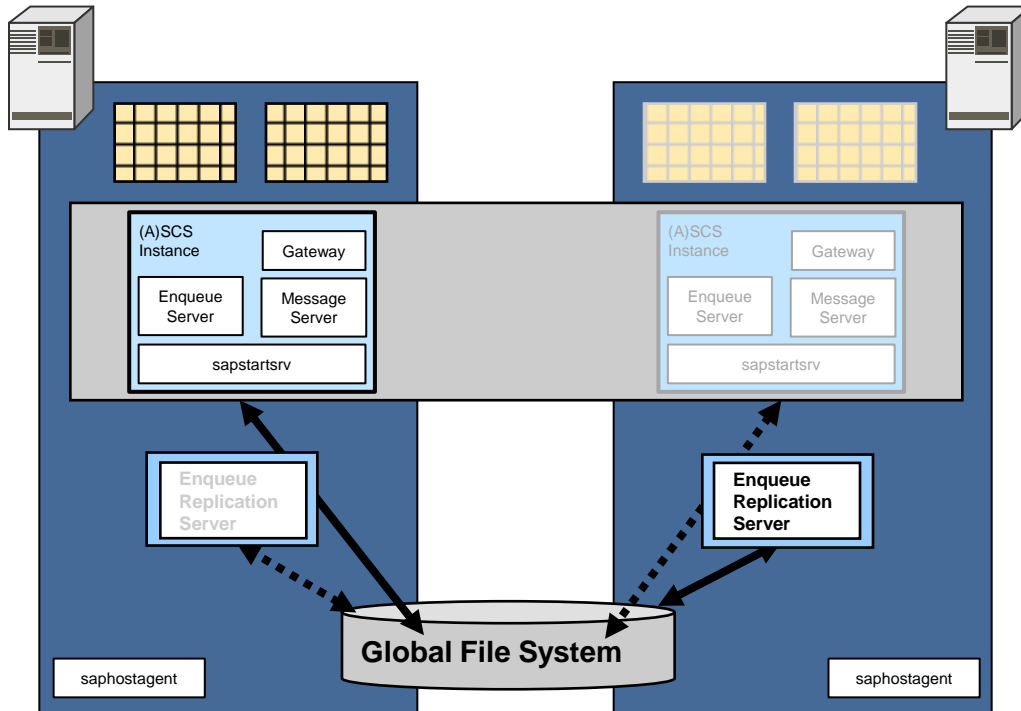
1. Commitment to recommended SAP HA-Setup
2. SAP-specific documentation is publically available at partner web site
3. Support responsibilities for HA-Setups are defined and agreed in writing
4. List of databases per OS is maintained, for which the partner offers HA-Setups. At least one SAP supported DB for kernel 7.20 required

## Technical Certification Criteria

1. Successful failover can be performed manually via 3<sup>rd</sup>-party software
2. Crucial SAP-processes are monitored and restored automatically (Restart and/or failover)
3. Usage of sapstartsrv and integration into 3<sup>rd</sup>-party failover solution
4. sapstartsrv status information integrated into 3<sup>rd</sup>-party failover detection
5. Starting the instance must be possible via standard Webservice interface (SAPControl)
6. Stopping the instance must be possible via standard Webservice interface (SAPControl) without triggering an instance failover
7. A document is maintained describing on how to temporarily disable failover software in case of SW maintenance activities. If this is not possible or very difficult it should describe on how to perform maintenance activities in a fail-over environment. All software maintenance activities that are not possible should be documented as well
8. New directory structure of Kernel 7.20 is used

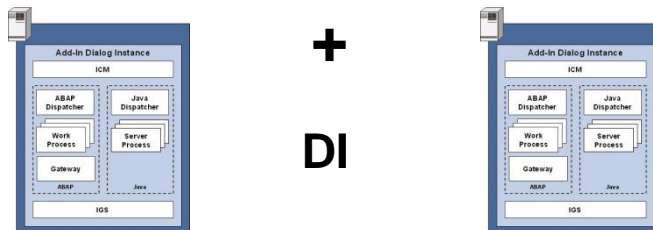
# Characteristics of a recommended HA-setup

# SAP System in a SAP recommended HA Setup



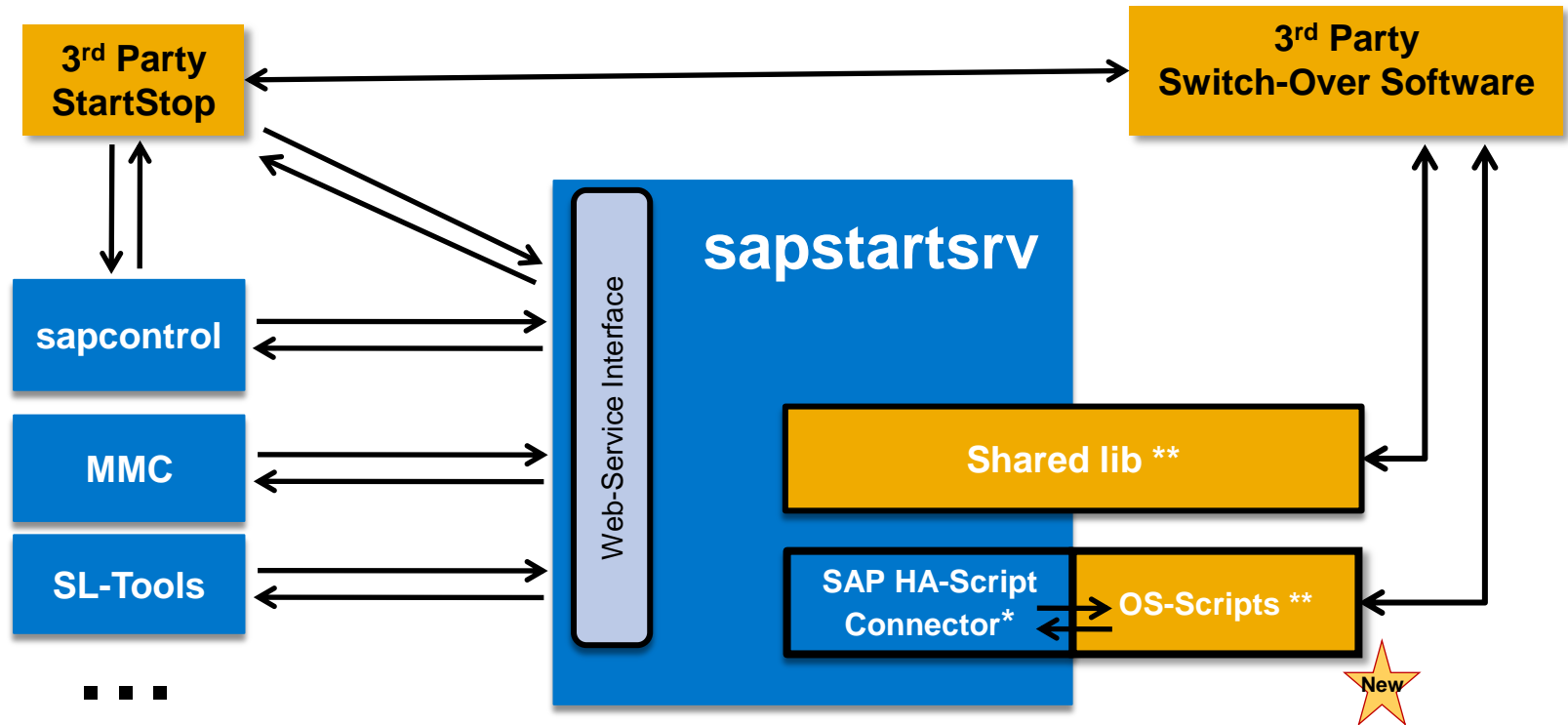
## Characteristics of a recommended HA-Setup:

- Separated (A)SCS Instance
- Enqueue Replication Server in place
- (A)SCS in each dedicated Failover-Group(s) recommended, but together in one group accepted.
- sapstartsrv is part of the failover group and has to be moved as well in case of a failover
- saphostagent installed once per host and not part of the failover group
- Platform dependent SAPCPE for replication in place
- Two or more Dialog-Instances
- Database in HA-Setup (vendor specific)
- Hardware in HA-Setup (vendor specific)



# Sapstartsrv in Detail

# Important Interfaces to Integrate 3<sup>rd</sup>-Party HA-Solutions



1. Web-Service Interface to start, stop, and monitor SAP Instances
2. Integrate of 3<sup>rd</sup>-Party HA-Solution either via Shared Lib or OS Scripts

\* Provided by SAP, \*\* Provided by HA Solution partner

# Available Information

# Available Documentation

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## **General HA Interface Certification page:**

<http://www.sdn.sap.com/irj/sdn/index?rid=/webcontent/uuid/50fcf593-fc11-2a10-0fae-90c064a05fd2>

## **and for HA-partner related details:**

<http://www.sdn.sap.com/irj/scn/index?rid=/webcontent/uuid/40572c16-7a22-2f10-c29e-b6ab458e8f4e>

# List of supported SAP Instances

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1. **ABAP SCS**
2. **JAVA SCS**
3. **ABAP Central Instances**
4. **ABAP Dialog Instances**
5. **JAVA Central Instances**
6. **JAVA Dialog Instances**
7. **Dual Stack Central Instance**
8. **Dual Stack Dialog Instance**
9. **TREX Instance**
10. **MDM Instance**
  - Solution Operation Guide: [http://help.sap.com/saphelp\\_nwmdm71/helpdata/en/45/b0c80f90eb2733e10000000a155369/frameset.htm](http://help.sap.com/saphelp_nwmdm71/helpdata/en/45/b0c80f90eb2733e10000000a155369/frameset.htm)
  - MDM 7.1 using Microsoft Failover Service: <http://www.sdn.sap.com/irj/scn/index?rid=/library/uuid/00dfa32d-da84-2c10-0792-c091c03f61f4>
  - MDM 7.1 in clustered environment using MSCS: <http://www.sdn.sap.com/irj/scn/index?rid=/library/uuid/206692e2-39e5-2b10-c49d-dce7751605d6>
11. ...



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