

Master Guide
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PUBLIC

SAP Focused Run

Release 2.0 Support Package 0



Typographic Conventions

Type Style	Description
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER .

Document History



Caution

Before you start the implementation, make sure that you have the latest version of this document that is available at <https://help.sap.com/viewer/p/FRUN>.

Version	Date	Change
2.0	2018-11-30	Initial Version for SAP Focused Run 2.0
2.01	2018-12-10	Updated chapter 3.4. Important SAP Notes , New Upgrade Information Note added Additional Info regarding collective notes added Updated chapter 5.2.10 Setup Communication with SAP Support Portal Details for background jobs added Updated chapter 6.1.2.2 Metric Forecasting Some options marked as optional
2.02	2019-01-20	Updated chapter 5.1.1. Preparing NetWeaver Basic Operation , Activity deleted to execute task list in Prod Client as Supervisor Destination is now created in chapter: 5.2.10 Setup Communication with SAP Support Backbone Updated chapter 5.2.11. Setup Application Foundation Background Proc. , Job SAP_FRN_SYNC_SUPPORT_PORTAL renamed to: SAP_FRN_SYNC_SYS_SUPPORT_PORTAL First step deleted from the list. It is now included in chapter: 5.2.10 Setup Communication with SAP Support Backbone Updated chapter 6.1.2.1 SAP EarlyWatch Alerts Info on minimum ST-PI SP level for FRUN system updated
2.03	2019-02-25	Updated chapter 7.2. Automatic schedule Background Jobs Corrected Report name CF_SETUP to new Name COF_SETUP Updated Chapter 5.2.10.1 Background Jobs for multiple connections Job added which checks status of connections created by mass setup tool
2.04	2019-03-25	Updated Chapter 5.2.11 Setup Application Foundation Information corrected for job: SAP_FRN_SYNC_SYS_SUPPORT_PORTAL (contains one step only) Updated chapter 6.1.2.3 Predictive Analytics Setup Updated information for Preparation: R-Server Setup Guide, now also available for RED HAT.
2.05	2019-04-30	Updated Chapter 7.1.2 SAP_FRUN_SETUP_USECASE with variant ASM Reference of Webdynpro: /sap/bc/webdynpro/sap/advmon

Version	Date	Change
		Moved from Open Component Monitoring to System Analysis. Advanced Monitoring renamed to: Open Component Monitoring
2.06	2020-04-15	Updated chapter <i>5.2.16. Specify Background User for Automated Guided Procedure Processing</i> Text revised for alternative user.

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1 Getting Started

1.1 About this Document

Purpose

This master guide is the starting point for the technical implementation of SAP Focused Run (also: FRUN). It mainly contains cross-scenario implementation information.

Note

You find the latest information about the technical implementation of SAP Focused Run at <https://help.sap.com/viewer/p/FRUN>

As a reminder, always download the master and security guide from this location. They are subject to regular updates.

Finally, make sure to strictly and precisely follow this document to design your system landscape, to define your implementation planning, and above all, to complete the configuration with the mandatory settings, in the required order.

The master guide references related documents that include further details, like:

- Installation guides for single software units
- SAP Notes
- Further configuration documentation

Constraints

The primary focus of this master guide is to describe the overall technical implementation of SAP Focused Run, rather than to deeply explain every single component. This means that additional software dependencies might exist without being mentioned explicitly in this document. You can find more information on component-specific software dependencies in the corresponding installation guides.

1.2 Abbreviations and Terms

Abbreviation or short form	Long form
ACM	Advanced Configuration Monitoring
AEM	Advanced Event and Alert Management
AIM	Advanced Integration Monitoring

Abbreviation or short form	Long form
ARA	Advanced Root Cause Analysis
ASM	Advanced System Management
AUM	Advanced User Monitoring
CA APM	CA Application Performance Management
CSA	Configuration and Security Analytics
EWA	SAP EarlyWatch Alert
FRUN / SAP Focused Run	SAP SAP Focused Run
ITCal	IT Calendar
JRE	Java Runtime Environment
LMDB	Landscape Management Database
RUM	Real User Monitoring
SAM	Service Availability Management
SCN	SAP Community Network
SDA	Simple Diagnostics Agent
SLD	System Landscape Directory
SLDR	SLD Data Router
SSI	Simple System Integration
SUM	Synthetic User Monitoring
SysAna	System Analysis
SysMon	System Monitoring
TA	Trace Analysis
WMM	Work Mode Management

1.3 SAP Focused Run Use Cases

SAP Focused Run provides improved solution operations features relevant for the run phase of a managed system landscape.

The main use cases of SAP Focused Run and their corresponding key areas are as follows:

Use Case	Description
Advanced User Monitoring (AUM)	Monitoring of user experience across system and technology stacks. In this use case, the functionality

Use Case	Description
	<p>of Real User Monitoring (RUM) and Synthetic User Monitoring (SUM) are bundled.</p> <p>With RUM, you can monitor real user requests across systems and technologies. It provides correlation and the assembling of measured data of servers to end-to-end user scenarios. Data is provided by SAPGUI and SAPUI5 clients, SAP Gateway, and SAP ABAP Systems. RUM covers performance as well as utilization measurement (also called Web Analytics).</p> <p>With SUM, you can simulate users accessing, from different locations, your application UIs (based on HTTP/S or SAPGUI). This way, it offers 24/7 global monitoring of your applications' availability and performance.</p>
Advanced System Management (ASM)	<p>Effectively and efficiently manages many systems, databases and hosts. Focus is on functionality such as:</p> <ul style="list-style-type: none"> • System Monitoring (SysMon) • Metric Forecasting and System Anomaly Analysis • IT Calendar (ITCal) • Work Mode Management (WMM) • Service Availability Management (SAM) • System Health Check • SAP EarlyWatch Alert (EWA) • License & Maintenance Certificate Management • Guided Procedures including the Automated System Health Check for ABAP Systems <p>It covers the complete scope of managed system types based on SAP and non-SAP technologies.</p>
Advanced Configuration Monitoring (ACM)	<p>Analyzes configuration and security settings across systems and technologies. Enables you to browse and investigate high volumes of configuration items in complex system landscapes. Validates technical and security configuration settings against customer-specific target configuration templates. Supports configuration settings of system, database, and host.</p>
Advanced Event and Alert Management (AEM)	<p>Provides enhanced management capabilities for events and alerts based on monitoring use cases as Advanced User Monitoring or Advanced System Monitoring. Comes with efficient and mass volume enabled alert dashboards, alert inbox and alert detail displays. Provides the possibility to trigger alert reaction procedures that help you to analyze and</p>

Use Case	Description
	<p>resolve alerts, in a guided way. Some parts of the alert reaction process can be automated. SAP delivers a set of predefined alert reaction procedures for ABAP, JAVA, HANA and BOBJ availability alerts. You can also define your own alert reaction procedures using the guided procedure framework</p>
<p>Advanced Integration Monitoring (AIM)</p>	<p>Monitoring of data exchange across system and technology stack. It includes:</p> <ul style="list-style-type: none"> • Monitoring of single interface calls / messages for orchestrated and non-orchestrated on-premise and cloud environments • Monitoring of single exceptions for on-premise and cloud environments • Monitoring of SAP PI-related issues (single PI channels, single PI messages) • Monitoring of hybrid scenarios containing cloud and on-premise components • Monitoring of connections between on-premise and cloud components
<p>Advanced Root Cause Analysis (ARA)</p>	<p>Deep detailed root cause analysis capabilities tailored to your needs. It includes:</p> <ul style="list-style-type: none"> • System Analysis • Trace Analysis • File System Browser

More Information

Find all information about SAP Focused Run 2.0 use cases in the following:

- **SAP Help Portal**
 SAP Help Portal bundles access to SAP product documentation and related information, such as SAP Notes, product availability information, and community content.
 For SAP Focused Run 2.0 information, access the help portal at: <https://help.sap.com/viewer/p/FRUN>
- **SAP Support Portal**
 The SAP Support Portal provides access to task-driven support resources in an intuitive interface. On the products pages, customer can find information such as SAP Knowledge Base Articles, SAP Community questions and blogs, Guided Answers, and product documentation, as well as additional featured content straight from product experts at SAP.
 You access the SAP Support Portal at:
<https://support.sap.com/en/alm/focused-solutions/focused-run.html>

1.4 SAP Focused Run Implementation

The implementation of SAP Focused Run requires you to address the following items, described in detail in the next chapters:

1. Define implementation (such as scope, hardware and software requirements, release restrictions)
2. Plan landscape (for the relevant use cases)
3. Check installed SAP HANA revision
4. Install and prepare an SAP NetWeaver ABAP system (including SAP Focused Run add-on)
5. Configure SAP Focused Run Application Foundation
6. Configure the relevant SAP Focused Run use cases

IMPORTANT NOTICE: The *sapadm password* defined while installing an SAP Host Agent in the managed landscape is required to be able to perform the SAP Focused Run configuration.

2 Define Implementation

During an implementation project, take the following aspects into account to make the right decisions. Here the major aspects:

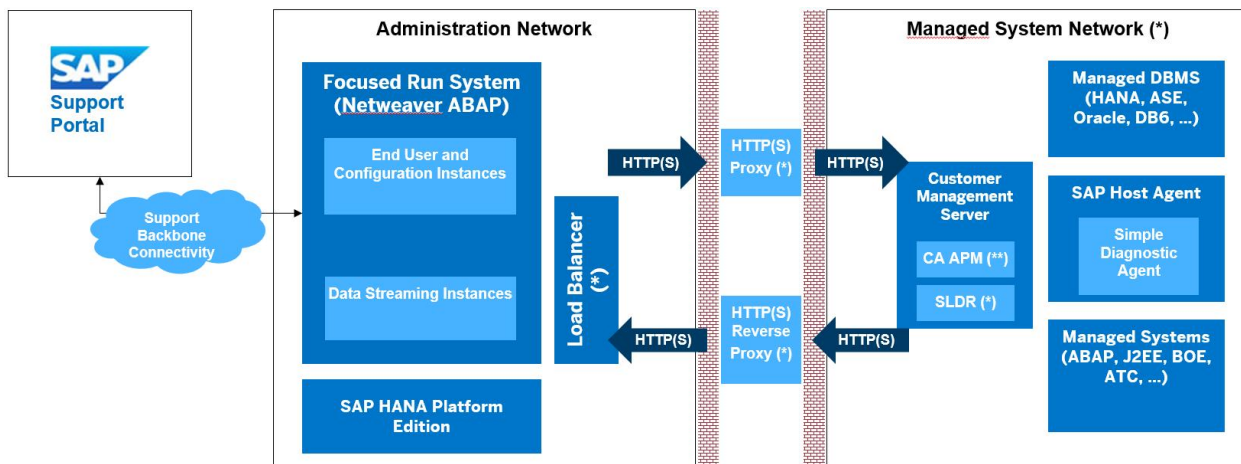
Aspect	Description	Further Information
Scope and Requirements	Determine the scope of your SAP Focused Run implementation	For more information see SAP Focused Run Use Cases [page 8]
Landscape Planning	Determine the system landscape and consider the landscape-relevant aspects concerning your required use case.	
Hardware and Software Prerequisites	Check the required minimum SAP NetWeaver ABAP version	SAP Note 2354930
	Check the required minimum revision of the installed SAP HANA	For more information see Check Installed SAP HANA Revision [page 18]
	Check the hardware sizing required for your SAP Focused Run implementation	The recommended hardware sizing will be provided by your implementation partner as part of the license proposal
Sizing	Check the hardware sizing required for your SAP Focused Run implementation	The recommended hardware sizing will be provided by your implementation partner as part of the license proposal *
	Disk Space Needed for Simple Diagnostics Agent	SAP Note 2501820
	Disk and RAM Space needed for SAP Host Agent	See OS dependent NW Installation Guide under: Hardware Requirements
	Sizing information to setup R in your landscape for System Anomaly Prediction	SAP Note 2686042
Security Planning	Plan the user management and infrastructure security	For more information see SAP Focused Run Security Guide
Release Restrictions	Check SAP Notes for any release restrictions	

*  Note

SAP Focused Run is priced based on used SAP HANA memory in Gigabyte (“GB”) with volume tiers. SAP provides customers with SAP HANA used memory calculation as well as with the hardware sizing for an SAP Focused Run project as a follow up of SAP Focused Run positioning workshop.

3 Plan Landscape

An SAP Focused Run landscape consists of components as shown in following picture.



The following components are deployed in the landscape

- SAP Focused Run System (running on SAP NetWeaver ABAP on SAP HANA)
- (optional) Load Balancer to distribute http(s) traffic between multiple processing instances. The usage of a load balancer is strongly recommended for production usage. The traffic consists of inbound data streams and end-user communication.
- (optional) HTTP proxy to forward data from the administration network to managed system network, the proxy is not required if direct communication from SAP Focused Run system to all host agents on hosts in the managed system network on physical/virtual hostname and port 1128 (http) or 1129 (https) is possible.
- (optional) HTTP reverse proxy for sending data from (unsecure and/or untrusted) managed system network areas to SAP Focused Run system. The reverse proxy is required to separate the network segments with a high security level and ensure the data separation in SAP Focused Run. An SAP Focused Run end-user data access authorization concept is only possible if the metrics are sent by different reverse proxy servers.
- (optional) Customer Management Server with the following components deployed:
 - (optional) CA Application Performance Management (CA APM) is a 3rd party product. The software component is not part of the SAP Focused Run installation but is available for all customers with a valid SAP maintenance contract as part of SAP Solution Manager installation. In SAP Focused Run CA APM is only utilized to collect available Bytecode Injection Metrics (such as for JRE engines or .NET runtime). In networks without components utilizing CA APM native instrumentation, this component is not required.
 - (optional) SLD Data Router (SLDR) is used to forward the SLD data supplier content to multiple target systems (for example, SLD server in SAP NetWeaver Java or LMDB in SAP Focused Run). If the landscape data is only collected for SAP Focused Run, without the need to supply any SAP Solution Manager, SAP NetWeaver PI or other components utilizing SLD data, the SLD data supplier of all systems can be connected directly to the reverse proxy or load balancer of your SAP Focused Run system
- SAP Host Agent is part of each SAP system installation and must be deployed on each host, which should be managed by SAP Focused Run.

- Simple Diagnostics Agent is installed as add-on to SAP Host Agent, during the connection process to an SAP Focused Run system. With the help of the Simple Diagnostics Agent most of the data needed for SAP Focused Run use cases is collected and streamed to the FRUN system.
- Managed Systems and Managed Databases are not part of SAP Focused Run installation or deployment scenario, but as those are in scope and relevant as objects, for which SAP Focused Run provides operations capabilities, the distribution of those systems within the defined customer network areas is of importance and shall be planned.
- For various use cases, SAP Focused Run exchanges data with SAP Support Portal. This necessitates a connection to SAP Support Portal.

3.1 Planning Information

For more information about planning topics, not covered in this guide, refer to the following content:

Content	Location on SAP Service Marketplace
Latest versions of SAP Focused Run guides	https://help.sap.com/viewer/p/FRUN
Released platforms and technology-related topics such as maintenance strategies and language support	https://service.sap.com/platforms To access the Platform Availability Matrix directly, enter https://support.sap.com/en/release-upgrade-maintenance.html
Sizing	SAP Focused Run ABAP and SAP HANA installation: Part of Presales activities * Disk Space needed for Simple Diagnostics Agent: SAP Note 2501820 Disk and RAM Space needed for SAP Host Agent: See OS dependent NW Installation Guide under: Hardware Requirements
Performance	https://www.sap.com/about/benchmark.html
Information about Support Package Stacks, latest software versions and patch level requirements	https://support.sap.com/sp-stacks

*  Note

SAP Focused Run is priced based on used SAP HANA memory in Gigabyte (“GB”) with volume tiers. SAP provides customers with the SAP HANA used memory calculation as well as with the hardware sizing for an SAP Focused Run project as a follow-up of an SAP Focused Run positioning workshop. For more information, see <https://support.sap.com/en/alm/focused-solutions/focused-run.html> -> *Get SAP Focused Run*.

3.2 Further Useful Links

The following table lists further useful links on SAP Service Marketplace:

Content	Location on SAP Service Marketplace
Information about creating error messages	https://support.sap.com/incident
SAP Notes search	https://support.sap.com/notes
SAP Software Distribution Center (software download and ordering of software)	https://support.sap.com/swdc

3.3 Related Guides

You can find more information about the prerequisite components in the following documents:

Title	Location
Guides for SAP NetWeaver 7.5	https://help.sap.com/viewer/p/SAP_NETWEAVER_750
End-to-End Implementation Roadmap for SAP NetWeaver AS ABAP	https://help.sap.com/doc/18d208745fa6483dabf5ec296386a79a/7.4X/en-US/E2E_Impl_Roadmap_NW_ABAP.pdf
Technical Operations Guide for SAP NetWeaver	https://help.sap.com/viewer/3a49a58accb3464ca80d4bb309312204/7.5.9/en-US/480dd91ad6013d1be10000000a42189d.html

3.4 Important SAP Notes

Read the following SAP Notes before you start the installation. These SAP Notes contain the most recent information on the installation, as well as corrections to documentation.

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Support Portal at <http://support.sap.com/notes>.

SAP Note Number	Title	Description
2354930	Release strategy for the ABAP add-on SAP Focused Run	Release and Installation Information for SAP Focused Run 2.0
2708866	Release Information Note for SAP Focused Run 2.0 SPO0 (contains list of use-case specific collective notes)	Note: These notes might get updated on a regular basis. They contain critical information that shall be considered, not only when initially implementing SAP Focused Run, but also when operating it.
2641304	SAP Focused Run System Preparation Tool for Managed System Preparation	
2369401	Release Information Note for Simple Diagnostics Agent 1.0	

SAP Note Number	Title	Description
2729276	[Only relevant in case of FRUN System update] SAP Focused Run 2.0 Delta Information for Upgrade from SAP Focused Run 1.0 to SAP Focused Run 2.0 SPOO	Relevant in case you update your system from SAP Focused Run 1.0 to SAP Focused Run 2.0 SPOO

4 Prepare Implementation

4.1 Overview SAP Focused Run Software Stack

SAP HANA

Refer to chapter 4.2 Check Installed SAP HANA Revision

Kernel

Refer to chapter 4.6.4 Update SAP Kernel

SAP NetWeaver ABAP Software Components

i Note

Make sure to follow the implementation recommendations provided in chapter 4.5 *Implementing SAP NetWeaver with SAP Focused Run Using Up-to-Date Installation Process*.

Component	Release	Tested minimum Support Package level	Component Description
SAP_BASIS	752	0002	SAP Basis Component
SAP_ABA	75C	0002	Cross-Application Component
SAP_GWFND	752	0002	SAP Gateway Foundation
SAP_UI	752	0005	User Interface Technology
ST-PI	740	0009	SAP Solution Tools Plug-In
SAP_BW	752	0002	SAP Business Warehouse
MDG_FND	802	0002	MDG Foundation
S4FND	102	0002	Foundation
FRUN	200	0000	SAP Focus RUN Tool
ST-A/PI	01T_731	0000	Service tools for SAP Basis 731

CA APM

The CA APM releases 9.7, 10.1 and 10.5 are supported.

4.2 Check Installed SAP HANA Revision

An installed SAP HANA system is a prerequisite.

Be sure to have implemented:

- SAP HANA 2.0 Revision 033.00 or higher ($\geq 200.033.00$)

You can check the version using one of the following tools:

- SAP HANA Cockpit (https://help.sap.com/viewer/product/SAP_HANA_PLATFORM/en-US)
- SAP HANA Studio (<https://help.sap.com/viewer/6b94445c94ae495c83a19646e7c3fd56/2.0.03/en-US/bd23f2d8bb57101480b0eedc2bf5fcce.html>)

For more information on HANA Revision and Maintenance Strategy see SAP Note [2378962](#).

4.3 Check and Prepare Your OS for SAP HANA

Ensure that the recommendations of SAP Note [2131662](#) - *Transparent Huge Pages (THP) on SAP-HANA-servers* are applied to all SAP HANA database servers.

Also, to optimize the operating system environment for high performance environment, apply the parameters as described in SAP Note [2382421](#) - *Optimizing the Network Configuration on SAP HANA- and OS-Level for SPS10 and Higher*.

4.4 Check and Adjust SAP HANA Parameters

On UNIX, check the number of logical cores, or the number of cores per socket. Check this number as defined on your SAP HANA system, using the OS command `lscpu` as explained here:

<https://help.sap.com/viewer/6b94445c94ae495c83a19646e7c3fd56/2.0.00/en-US/1b3599dd8ba441c99f3118ca90c94364.html>

Use these numbers to maintain the following SAP HANA parameters in the relevant files, as described here:

<https://help.sap.com/viewer/6b94445c94ae495c83a19646e7c3fd56/2.0.00/en-US/3f1a6a7dc31049409e1a9f9108d73d51.html>

Alternatively, use the SAP HANA Administration Console to adjust the following parameters, by navigating to the tab *Configuration* and:

global.ini

[execution]

default_statement_concurrency_limit = <number of logical cores on SAP HANA server / 2>

max_concurrency = <number of logical cores on SAP HANA server / 2> (only for HANA 2.0 Revision lower than 30 (Release <200.030.00))

max_concurrency_hint = <number shall be lower or equal to the number of cores per socket>

[persistence]

max_gc_parallelity = <number of logical cores on SAP HANA server / 2>

 Note

If you change these values, a restart is needed.

4.5 Implementing SAP NetWeaver with SAP Focused Run Using Up-to-Date Installation Process

Using the up-to-date installation process, you can easily install your SAP ABAP FND 1709 SP 02 system (on SAP HANA), including the necessary SAP Focused Run add-ons.

Plan the desired installation target by using the maintenance planner at <https://apps.support.sap.com/sap/support/mp>. Install your SAP NetWeaver ABAP system along with a required support package stack and ABAP add-ons in one implementation execution.

All details can be found in the guide corresponding to your operating system, which you can find on the [Software-Logistics-Tools page](#).

Note

For the database, select SAP HANA and for the technical stack, select ABAP.

During the installation of SAP Focused Run 2.0 SPO0, select the following:

- Select ABAP FND 1709 with *Support Package 2*
- Choose *Install or maintain Add-on*
- Select SAP Focused Run 2.0 *SPS 00*
IMPORTANT NOTICE: In the screen *Select OS/DB dependent files*, select *User Interface Technology 752* (SAP_UI 752 SP05).
- Select your OS combination with SAP HANA database-dependent files. Follow SAP NetWeaver current installation instructions to download and install the system based on the files selected in the maintenance planner.

4.6 Post Installation of SAP NetWeaver ABAP Server for SAP Focused Run Usage

4.6.1 Create Production Client

Before proceeding with SAP Focused Run configuration, perform a client copy as described below. Detailed information about client copies is available at:

<https://help.sap.com/viewer/4a368c163b08418890a406d413933ba7/7.5.6/en-US/4d7ce15219a00f88e10000000a42189b.html>.

Activities

Create a new production client and perform a local client copy, as following:

1. Log in to your SAP Focused Run ABAP system using client *000*.
2. Add following profile parameter using transaction *RZ10*: `login/no_automatic_user_sapstar = 0`
3. Restart SAP Focused Run ABAP instances.
4. Using transaction *BD54*, create a new *Logical System* for the client to be created, like *FRUCLNT100*, in case your SAP Focused Run system ID is FRU and the new client *100*.

5. Create a new client, like *100*, using transaction *SCC4*. And select the previously created *Logical System*. Select *Client Role = Customizing* (otherwise client copy later is not possible).
6. Log out and log in to the created client, with user: *SAP**, and standard password: *PASS*
7. Perform a copy into this new client, using transaction *SCCL*, and profile *SAP_CUST*, from source client *000*.

 Note

Make sure to select the *SAP_CUST* profile. If you select another profile, you cannot complete the SAP Focused Run configuration (Business Partners creation).

8. If needed, create a *ddic* user in this new client (transaction *SU01*).
9. Finally, delete again the profile parameter: *login/no_automatic_user_sapstar*
10. Change Client Role of the new client to *Production*.

 Note

Proceed with the next configuration activities, using this created production client. Therefore, make sure to maintain the profile parameter *login/system_client*, as proposed later, in chapter 4.6.3 *Checking and Adjusting SAP NetWeaver ABAP Profile Parameters*.

4.6.2 SAP Focused Run Administration User

Perform the initial configuration of your SAP Focused Run system with a user having administrator privileges. Details are provided in security guide. See the chapter titled *Roles for Setup Admin and Dev Support*.

4.6.3 Checking and Adjusting SAP NetWeaver ABAP Profile Parameters

Information on how to maintain SAP NetWeaver ABAP profile parameters can be found at:

<https://help.sap.com/viewer/b17bd20044a44edb9aa7830ee52ffac3/7.5.9/en-US/5a860a509ece466ce10000000a423f68.html>

Maintain the parameter names and values specified below by using transaction *RZ10*. These parameters are the minimum requirement for SAP Focused Run installation. All recommendations are valid for usage of zero administration memory management (SAP Note [2085980](#) - New features in memory management as of kernel release 7.40).

 Note

The parameter recommendations are a starting point for a midsize SAP Focused Run installation. Based on your individual scenarios, a larger scaling of the parametrization might be necessary.

Adjust the amount of dialog and batch work processes on each ABAP instance. SAP recommends operating at least 50 DIA and 25 BTC work processes per instance. For further details about work process configuration, number of work processes and dependencies, refer to SAP Notes [2190597](#), [39412](#), and [9942](#).

Finally, restart your SAP Focused Run system if you adjusted some parameters.

Parameter	Recommendation	Remark
icm/host_name_full		Set to fully qualified hostname of the application server. See also http://help.sap.com/saphelp_nw70ehp2/helpdata/en/48/3c5d3df7e771b9e1000000a421937/frameset.htm
icm/server_port_X	Typical values: <ul style="list-style-type: none"> • icm/server_port_0 = PROT=HTTPS, PORT=443, TIMEOUT=300, PROCTIMEOUT=300 • icm/server_port_1 = PROT=HTTP, PORT=80, TIMEOUT=300, PROCTIMEOUT=300 • icm/server_port_2 = PROT=SMTP,PORT=25000, TIMEOUT=180 	Set up one HTTP, HTTPS and SMTP port
icm/max_conn	8000	SAP Note 2007212
login/system_client	<production client number>	Provide the production client number. See chapter 4.6.1 Create Production Client .
login/create_sso2_ticket	2 or 3	Creation of SSO tickets Note: Once you completed the configuration as described in the master guide, and the transaction <code>FRUN</code> is not starting the SAP Fiori Launchpad within a web browser, consider reviewing this setting.
login/accept_sso2_ticket	1	Logon using SSO ticket
PHYS_MEMSIZE	>= 20480	SAP Note 2085980 The profile parameter <code>PHYS_MEMSIZE</code> determines how much of the entire main memory is to be used by the SAP system. The parameter is entered during system installation in accordance with the entry. The standard value for <code>PHYS_MEMSIZE</code> is the size of the main memory [RAM].
abap/shared_objects_size_MB	>=1025	
abap/buffersize	8000000	

Parameter	Recommendation	Remark
rdisp/elem_per_queue	4000	
rdisp/max_wprun_time	3600	
rdisp/tm_max_no	>=8000	
rsdb/prefer_join_with_fda	0	Disable fast data access for SAP HANA to avoid inconsistencies. See SAP Note 2037385
dbs/hdb/deferred_lob_writing	0	Add this parameter to disable the deferred LOB writing
rsdb/ntab/entrycount	1500000	
rsdb/cua/buffersize	70000	
rsdb/obj/max_objects	80000	
rsdb/esm/buffersize_kb	8192	
rsdb/otr/max_objects	5000	
rsdb/otr/buffersize_kb	8192	
sap/bufdir_entries	15000	
zcsa/system_language	E	Only English is supported as logon language for SAP Focused Run
zcsa/second_language	E	
http/security_context_cache_size	8000	
ssl/client_ciphersuites	918:PFS:HIGH	More details about <i>ciphersuites</i> can be found in SAP Note 510007

4.6.4 Update SAP Kernel

It is required to use a kernel release 7.53 64-BIT UNICODE. The kernel support package (or patch level) must be at least 300.

4.6.5 Implementing SAP Notes

As a mandatory requirement, follow precisely the solutions documented in the below listed SAP Notes. Also, when implementing in your SAP Focused Run system any automatic correction, using transaction `SNOTE`, taking care of any mentioned manual activity and any subsequently referenced SAP Notes. (For further information about Note Assistant (`SNOTE` transaction), refer to <https://help.sap.com/viewer/9d6aa238582042678952ab3b4aa5cc71/7.5.13/en-US/48b41a66fc096ff4e1000000a42189b.html>)

- [2708866](#) - Release Information Note for SAP Focused Run 2.0 SP00.
- [2369401](#) - Release Information Note for Simple Diagnostics Agent.
- [2090746](#) - *WD ABAP: Unified Rendering Update with TCI - Instructions and Related SAP Notes* (SAP Focused Run)

 Note

Implement the latest *Unified Rendering* relevant for SAP_UI release that is installed on your system (expected release is 7.52), using the Transport-based Correction Instruction (TCI). Remind to follow the documentation attached to SAP Note [2187425](#), providing details on the prerequisites and any required permission. If you need information, on how to download and apply TCIs, refer to KBA [2498908](#). In case of error messages regarding incomplete included notes during installation please refer to SAP Note [2627665](#).

 Caution

These SAP Notes are updated on a regular basis. They contain critical information that need to be considered, not only when initially implementing SAP Focused Run, but also when operating it.

5 Implementing SAP Focused Run 2.0

5.1.1 Preparing NetWeaver Basic Operation

If not already performed, as part of SAP NetWeaver installation procedure (See 4.5 *Implementing SAP NetWeaver with SAP Focused Run Using Up-to-Date Installation Process* [page 20]), make sure that you completed the relevant automated initial setup, using the task list `SAP_BASIS_SETUP_INITIAL_CONFIG`, in client `000`, as described in https://help.sap.com/doc/ec180e1ef0e8414896c13522d39f613f/1.0/en-US/Installation__Automated_Initial_SetupE.PDF.

Note

You can cross check previous task list executions, using transaction `STC02`.

As SAP Focused Run applications generate a high volume of logs, ensure that a proper housekeeping for the application logs is in place. SAP Note [195157](#) contains the required information about the necessary steps to achieve this. For SAP Focused Run, it is enough to delete entries already due.

5.1.2 Configuring Access and Help for Web-Based Front-End Applications

SAP Focused Run offers an in-application help (Web Assistant) for the end user interfaces. We strongly recommend enabling this in-application help, because this is the future-proof distribution channel for help in SAPUI5. The help texts and the help framework for the in-application help are loaded from the HANA cloud by SAP Web Dispatcher when receiving an end-user request. This requires that the user request for the Fiori launchpad and all tiles are sent to an SAP Web Dispatcher. SAP NetWeaver ABAP generates the needed URLs automatically with the parameters maintained in the HTTPURLLOC (see below section HTTPURLLOC).

To prepare you SAP Web Dispatcher to load the help content and help frame work you need to proceed certain tasks:

1. Configure the HANA Cloud URL in the profile of the Web Dispatcher: The dispatcher needs access to the internet through a proxy
2. Configure the rewriting rules to be applied for this URLs in a dedicated file
3. Set a parameter to allow the Web Dispatcher to treat requested URI' s correctly
4. Import the HANA cloud server certificate into the Web Dispatcher SAPSSLC.PSE
5. Configure HTTPURLLOC.

For more information on how to prepare SAP Web Dispatcher, see the next sections.

5.1.2.1 Configure the HANA Cloud URL in the Profile of the Web Dispatcher

The dispatcher needs access to the internet through a proxy

The URLs to the HANA cloud are set as selection criteria EXTSEV of parameter wdisp/system. You need to know the proxy host and port for accessing the internet from the Web Dispatcher host to set it as selection criteria PROXY

The wdisp/system_<Nr> containing the HANA cloud URLs must be smaller as the webdisp/system_<Nr> of your FRUN System.

The selection criteria SID for the wdisp/system_<X> containing the HANA cloud URL should not exist.

Example:

Note

The FRO and FR1 of wdisp/system_0 and wdisp/system_1 do not exist. The FRP is the real SID of the Focus Run (please set it to the correct selection criteria values). The selection criteria PROXY = proxy:8080 is also an example please set your proxy host and port.

Back-end system configuration

```
wdisp/system_0 = SID=FRO, EXTSEV=https://cp.hana.ondemand.com, SRCURL=/sap/dfa/help/, SRCSRV=*,  
PROXY=proxy:8080, STANDARD_COOKIE_FILTER=OFF
```

```
wdisp/system_1 = SID=FR1, EXTSEV=https://xray.hana.ondemand.com, SRCURL=/resources/sap/dfa/help/  
SRCSRV=*, PROXY= proxy:8080, STANDARD_COOKIE_FILTER=OFF
```

```
wdisp/system_2 = SID=FRP, MSHOST=XXXX, MSPORT=8340, MSSPORT=XXXX, SSL_ENCRYPT=1, SRCURL=/  
SRCSRV=*, PROXY=proxy:8080, STANDARD_COOKIE_FILTER=OFF
```

5.1.2.2 Configure the Rewriting Rules to be Applied for the URLs in a Dedicated File

The parameter is icm/HTTP/mod_<nr> . You need to create a file **redirect.tx** in your profile directory

Example:

```
icm/HTTP/mod_0 = PREFIX=/, FILE=$(DIR_PROFILE)/redirect.txt
```

The file redirect.txt contains rules to be applied for the modification of user requests. With the non-existing SID from above it looks like this:

```
# User Assistance Content Platform - rewrite rule
```

```
if %{SID} = FRO
```

```
begin
```

```
SetHeader HOST cp.hana.ondemand.com
```

```
RegRewriteRawUrl ^/sap/dfa/help/(.*) /dps/$1
```

```
end
```

```
# Script Server - rewrite rule
```

```
if %{SID} = FR1
```

```
begin
```

```
SetHeader HOST xray.hana.ondemand.com
```

```
RegRewriteRawUrl ^/resources/sap/dfa/help/(.*)/xRayControls/resources/sap/dfa/help/$1
```

```
end
```

5.1.2.3 Set a Parameter to Allow the Web Dispatcher to Treat Requested URLs

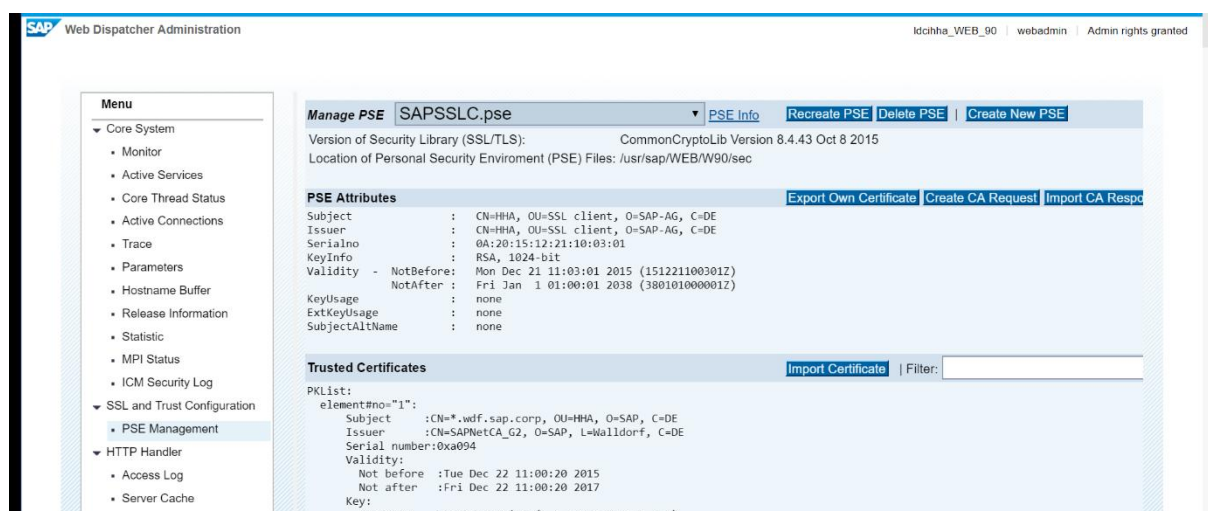
By setting multiple `wdisp/system_<Nr>` URI resolution conflicts might occur. This can be resolved by setting the parameter:

`wdisp/system_conflict_resolution = 1`

For system selections, refer to the following documentation: [SAP Web Dispatcher for Multiple Systems](#).

The system selection is performed in the sequence of the `wdisp/system_<xx>` parameters (using the parameter index `<xx>`). As soon as the first system that matches the inbound request is found, the request is sent to this system. This is "first match" semantics.

5.1.2.4 Import the HANA Cloud Server Certificate into the Web Dispatcher SAPSSL.C.PSE



Best practice recommendation:

1. Open <https://cp.hana.ondemand.com> in your browser,
2. Export the server certificate of `*hana.ondemand.com` into a file.
3. Open the Web Dispatcher Admin Webview,
4. Navigate on the left to "ssl PSE maintenance".
5. Open the `SAPSSL.C` and import the text from the certificate.

For further details like how to test the proper configuration, refer to: [Configuring SAP Web Dispatcher for In-Application Help](#).

5.1.2.5 Configure HTTPURLLOC

Make sure that all URLs generated by the SAP Focused Run system are using the hostname and port of SAP Web Dispatcher by editing the *HTTPURLLOC* table (via transaction *SE16*). More details are available here: [URL Generation in an AS-ABAP - Web Dispatcher Configuration](#).

See below for typical entries in the *HTTPURLLOC* table:

- *Client*: Production client
- *SORT_KEY*: 0100
- *PROTOCOL*: HTTPS
- *APPLICATION*: *
- *HOST*: FQDN of SAP Web Dispatcher / Load Balancer
- *PORT*: HTTPS of SAP Web Dispatcher / Load Balancer

5.1.3 Setup Load Balancing

In SAP Focused Run, you operate applications, including batch processing. At the same time, web service calls will consume extensive resources from the ABAP applications servers. You shall therefore implement a separation of the individual workloads. NetWeaver ABAP comes with various built-in load balancing mechanisms, which shall be set up as explained below:

- *Logon Groups*: For distribution of dialog workload.
Dialog users can explicitly be directed to an individual server or logon group once they enter the system. Logon groups are defined in transaction *SMLG*.
- *Job Server Group* (maintained in ABAP transaction *SM61*): For distribution of batch workload background jobs.
Batch jobs can be scheduled using dedicated execution server groups to avoid resource conflicts via transaction *SM61*. In the job scheduling UI, the server group can be entered as *Execution Target*.
- *RFC Server Groups*: For distribution of parallel processing activities.
The execution of high volume processing jobs is distributed via asynchronous RFC calls. The RFC server groups can be defined in transaction *RZ12*.

In SAP Focused Run, consider putting in place the following workload split:

- Dialog and occasional background processing (designated as reoccurring load)
- Continuous high-frequency processing (designated as continuous load)

Activities

Log in to your SAP Focused Run ABAP system on the production client, and define the logon groups, job server groups and RFC server groups on your SAP Focused Run system, using the above-mentioned transactions, with the below proposed values. This will split the load into two different groups of application servers.

Workload Types	Application Server Instance	Logon Groups	Job Server Groups	RFC Server Groups
Reoccurring load	<Host1_SID_InstanceNb> [<Host2_SID_InstanceNb>]	PUBLIC	FRN_JOB_PUBLIC (*)	FRN_RFC_SDA FRN_RFC_SSI FRN_RFC_SRAF

Workload Types	Application Server Instance	Logon Groups	Job Server Groups	RFC Server Groups
Continuous load	<Host3_SID_InstanceNb> [<Host4_SID_InstanceNb>]	STREAMING	FRN_JOB_INBOUND	FRN_RFC_MAI FRN_RFC_CF

(*) For all jobs scheduled manually later in this guide, use as execution target `FRN_JOB_PUBLIC`.

Note

High frequency background jobs are automatically scheduled by the FRUN system.

For production usage of SAP Focused Run, we recommend providing at least two application server instances for each of the above-mentioned workload types to ensure a high availability of the processing resources for each of them. This means you operate in total four application server instances.

To make sure to have all inbound data streaming ICF endpoints in SAP Focused Run, use the Logon Group *STREAMING* only. This can either be achieved in your hardware load balancer configuration, or in your SAP Web Dispatcher by assigning the Logon Group *STREAMING* to all ICF services mentioned as *Inbound data streaming channels* services in section 5.2.1 Preparing UI Environment.

5.2 Configuration of SAP Focused Run Application Foundation

5.2.1 Preparing UI Environment

Execute task list *SAP_GW_FIORI_ERP_ONE_CLNT_SETUP* with variant *SAP&FRUN_INIT* to enable the UI environment and the common used data streaming services for the Application Foundation components, by activating OData and SICF services, using:

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction *STC01*.
3. On the Task Manager for Technical Configuration screen, insert *SAP_GW_FIORI_ERP_ONE_CLNT_SETUP* in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant *SAP&FRUN_INIT*.
6. Choose *Start/Resume Task List Run in Dialog (or in Background)*.
Once the task list run has been finished successfully, green lights appear in the *Status* column. If there are errors, perform an error analysis using the task documentation provided for each task.

Further details about this task list, are available here:

<https://help.sap.com/viewer/d71464d9f3204ea8be1144d62acd9ac3/7.52/en-US/bfd1b053a647e842e1000000a4450e5.html>

Note

The OData and SICF services activated by this step are listed in the appendix.

5.2.2 Protect UI Environment against Clickjacking

Protect your system against clickjacking (or UI redressing) attacks. This type of attack tricks the user into triggering actions within an application by hijacking mouse clicks. This requires activation of the ICF node `/sap/public/bc/uics/whitelist`.

Activities

1. Go to your SAP Focused Run system.
2. Open transaction `SICF_INST`
3. Select the technical name `UICS_BASIC`
4. Execute

5.2.3 Preparing Simple Diagnostics Agent Distribution

To distribute the Simple Diagnostics Agent (SDA) automatically to all hosts connected to SAP Focused Run, provide the latest binaries of the OS specific Simple Diagnostics Agent and SAP JRE 8.1 to the SAP Focused Run central system.

Activities

1. Download the latest version of the binaries SDA and SAP JRE (which stands for Java Runtime Environment) from SAP Support Portal as follows:
 - o Open the SAP Software download center (<https://launchpad.support.sap.com/#/softwarecenter>)
 - o Select tab Support Packages & Patches
 - o By Category
 - o SAP Technology Components
 - o SAP Focused Run
 - o SAP Focused Run 2.0
 - o Downloads
 - o Comprised Software Component Versions
 - o Each time select the SDA and SAP JRE for the operating systems being supported in the managed system landscape (including your SAP Focused Run system itself).
Currently the following platforms are supported:
 - o IBM AIX
 - o HP-UX on IA64
 - o Linux on Power BE & LE
 - o Linux x86_64
 - o Oracle Solaris SPARC
 - o Oracle Solaris x86
 - o Microsoft Windows Server on x86_64
2. Log in to your SAP Focused Run ABAP system on the production client

3. Upload the binaries to SAP Focused Run, by running the report [SRSM_AMA_UPLOAD_BINARY](#), with transaction SA38, and:
 - o Select [Single file](#), choose [Execute \(F8\)](#), and in the dialog box that appears, select one of the relevant SDA or JRE files to be uploaded
 - o Or select [Multiple file](#), choose [Execute \(F8\)](#), and in the dialog box that appears, select a folder which contains all the relevant SDA or JRE files to be uploaded
 - o After the upload of all files is finished a complete list of all SDA and JRE versions uploaded to SAP Focused Run is displayed.

 Note

At the time a new SDA version is released on SAP Support Portal, repeat the above described procedure for all operating systems relevant in your landscape. In addition, trigger an SDA update for already installed SDAs, using the Agent Administration UI (available in the launchpad). The current version of the binaries uploaded to your SAP Focused Run can be determined by running the report [SRSM_AMA_UPLOAD_BINARY](#) and selecting option [Display Content only](#).

5.2.4 Creating Technical Users for Application Foundation

Before you continue with the next steps, refer to the [security guide](#), chapter [Technical User Creation in Central SAP Focused Run](#) to create all required technical users on your SAP Focused Run system:

- Template users (named like TPL_FRN*)
- Background processing users (named like FRN_BTC*)

 Note

We recommend creating the technical users by following naming conventions provided in the security guide.

5.2.5 Preparing Simple System Integration

5.2.5.1 Enabling User Management for Back Destination Users

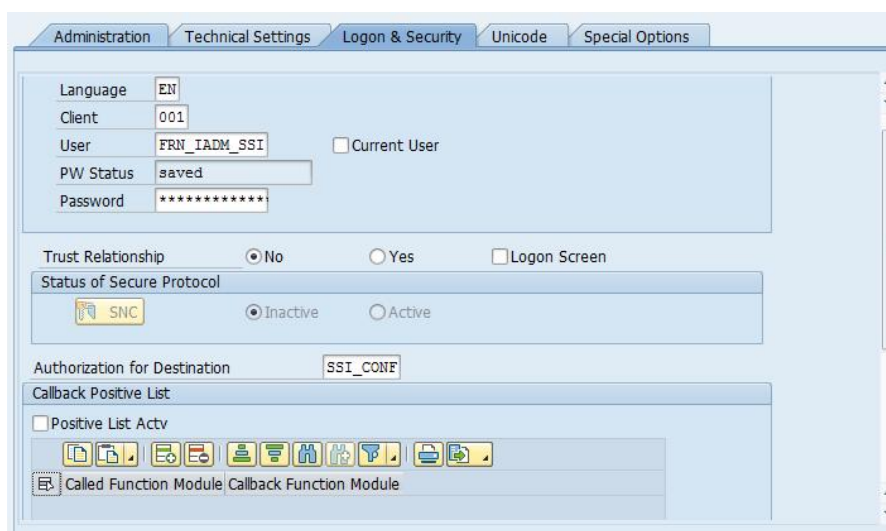
For user management of communication users in SAP Focused Run, two different approaches are available.

1. Integrate with a customer user management solution that handles the user creation and update process and provides to SAP Focused Run the active passwords for the relevant users only. Process all user handling and configuration in the user management solution, and in SAP Focused Run the BAdI enhancement spots used for integration purposes.
2. If no appropriate user management solution is available, use an SAP Focused Run built-in solution in Simple System Integration (SSI). To enable this approach, perform the following steps:

- o If not already done, create the technical user *FRN_IADM_SSI*, in the SAP Focused Run system. This user has privileges to create, change, and delete users. Refer to the security guide for further details.
- o Create the RFC destination *SSI_USER_ADMIN_CONNECTION* to your SAP Focused Run system itself, as described below. (Refer to SAP NetWeaver operations guide for details about RFC destinations <https://help.sap.com/viewer/753088fc00704d0a80e7fbd6803c8adb/7.5.13/en-US/488965b484b84e6fe1000000a421937.html>)
 - o *Connection Type*: 3
 - o *Target Host*: Leave this field empty
 - o *Language*: EN
 - o *Client*: Provide the SAP Focused Run production client
 - o *User*: *FRN_IADM_SSI*
 - o *Password*: Password of user FRN_IADM_SSI
 - o Provide for the field *Authorization for Destination* the value *SSI_CONF*

i Note

Only users having a PFCG role with permission *S_RFC_ADM* will be able to maintain this RFC destination.



- o Using transaction SA38, execute report *P_SSI_PREPARATION* with the following parameters. Then choose *Save* as shown in the below screenshot.

Note

Marking the option *Enable Default Extended SID Handling*, causes extended SID changes at following events:

- o Whenever a technical system or database is registered for the first time in the LMDB, the default LMDB extended SID calculation is overridden. This means that during registration in the LMDB, the extended SID of a technical system is set to *<SID><CID>* (*<SID>* meaning: system ID, and *<CID>* meaning: customer ID)
- o And later, whenever SSI is executed, the extended SIDs of non-SAP HANA databases is changed. However, the extended SIDs of SAP HANA databases and non-database technical systems (such as SAP NetWeaver ABAP and Java systems) remains unchanged.

If you have enabled this option, we recommend that you do not perform manual extended SID changes in the LMDB. Those changes may get reverted when running SSI.

If you execute a manual extended SID change, the LMDB event processing which is implemented by SSI should automatically trigger a reconfiguration for the affected system, so that configuration-consistency is ensured.

Disabling the option will not perform any of the above-mentioned extended SID changes any more (from the point of disabling onward). Only default LMDB extended SID calculation will be performed whenever a technical system or database is registered in the LMDB for the first time. This will result in extended SIDs like JAV, JAV00001, JAV00002.

5.2.6 Content Update

Ensure that the latest content is available in SAP Focused Run. Therefore, perform the content update as described in SAP Note [2695734](#), each time new content is available.

Note

Please make sure that note [2716980](#) is implemented before the content is updated.

5.2.7 Setup Landscape Management Database

Activities

Note

SAP Focused Run includes an SAP CIM model and SAP CR content. The update of this SAP CIM model and CR content is ongoing: At least every 3 months (by executing again the transaction `LMDB_SETUP` and read the report documentation for details).

To install that delivered SAP CIM model and SAP CR content, start the Landscape Management Database (LMDB) setup, using transaction `LMDB_SETUP`. This transaction automatically detects whether the included SAP CIM model and SAP CR content are outdated. Therefore:

- If you are not notified about any outdated model, simply execute the initial setup, by choosing [Execute](#). This is importing the SAP CIM model, synchronously. The SAP CR content gets imported by the scheduled background job [SAP_LMDB_IMPORT](#). Check the job log of this job, which runs for several hours. You do not need to wait until the job finishes.
Check whether the job is running without errors for longer than 5 minutes, before proceeding with the next configuration steps.
If the job aborts due to parallel system operations (like a system reboot), repeat the import process using transaction `LMDB_SETUP`.
- In case you are notified that the delivered content is already outdated, upload the latest SAP CIM model and SAP CR content manually into LMDB, as described in SAP Note [669669](#) - Update of SAP System Component Repository, using transaction `LMDB_SETUP`.

5.2.8 Adjusting SAP Focused Run Use Cases

Use cases can be enabled globally, or specific to a set of customer networks.

Prerequisite

The template users have been created, as recommended in the security guide.

Activities

1. Start the application [Global Settings & Network Configuration](#) in the Group: [Infrastructure Administration](#) via SAP Focused Run launchpad.
2. If you plan to enable a set of use cases only for a set of customer networks, first navigate to page [Network Settings](#). Select one by one the relevant [Customer Networks](#), and each time mark the check [Override Global Use-Case Settings](#). Select the [expected use cases](#) to be enabled and choose [Save](#).
3. Navigate to the page [Global Settings](#) and mark the use cases you would like to enable for all customer networks for which no use cases specific setting was done (see above item 2). Then choose [Save](#).

Troubleshooting

4. Use transaction `SLG1` / [Object: AI_SSI](#) to follow-up the background activities performed after having adjusted the use case settings.

5.2.9 Local Network Setup

LMDB namespaces are used to group all systems belonging to one logical network. As prerequisite for all applications, your SAP Focused Run system itself must be known. Therefore, the above mentioned LMDB set up is creating a default namespace, named *LOCALNETWORK*. This local network can be used for all use cases of SAP Focused Run, where specific security or data separation requirements are not necessary.

Note

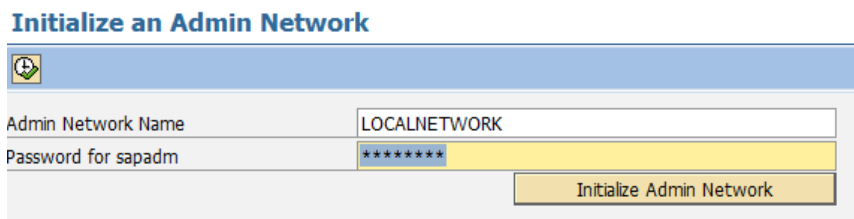
Handling of customer networks is similar to the local network. The specifics of the local network are the following:

- Namespace to represent the local network is created at the time of initial setup of LMDB with the fixed name *LOCALNETWORK*.
- Communication from managed systems to SAP Focused Run system does not require proxy or reverse proxy. Therefore, for this specific network no inbound fencing string is used.

Activities

To be able to use the *LOCALNETWORK* namespace, some additional input is required. To maintain the data:

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start report *RLMDB_CUSTOMER_NETWORK_TOOLS*, using transaction *SA38*.
3. Remove the mark of the *Prohibit saving of any changes* and then *execute*.
4. Edit the network *LOCALNETWORK*, and maintain the following values:
 - *Caption*: meaningful description for the local admin network e.g. Local Network
 - *Customer Name*: 3-character CID for the SAP Focused Run system itself
 - *Data Center 1*: up to 4-character ID for the data center the SAP Focused Run system itself is running
 - *Proxy to Admin: Host*: hostname of load balancer for the SAP Focused Run system
 - *Proxy to Admin: Port*: port of https or http load balancer for the SAP Focused Run system
 - *Secure (Proxy to Admin)*: Set this flag if https is used for communication
 - *Other fields*: Leave them empty (do not use proxy or fencing in local network)
5. Again, using transaction *SA38*, execute report *SSI_ADMIN_NETWORK_INITIALIZE*. As parameters, provide: *LOCALNETWORK* and the unique password of the *sapadm* OS users. These OS users should have all the same password on all hosts, running an SAP Focused Run system and the HANA database. Then choose the *Initialize Admin Network* button, as shown here:



Initialize an Admin Network

Admin Network Name	LOCALNETWORK
Password for sapadm	*****

Initialize Admin Network

6. Using transaction *SA38*, execute report *SSI_ADMIN_NETWORK_ACTIVATE*, specifying as value *LOCALNETWORK*, and choosing the *Activate Admin Network* button, as shown here:

Activate an Admin Network

Admin Network Name	LOCALNETWORK
<input type="button" value="Activate Admin Network"/>	

7. Finally, define the password of the following technical users once, being generated by the SSI Configuration of the SAP Focused Run system.

Note

Do not simply use transaction `ST01`. Refer to the security guide for additional details.

- o `FRN_LDDS_<CID>`
User on SAP Focused Run system to authenticate data suppliers sending SLD payloads directly to LMDB.
- o `FRN_LDSR_<CID>`
User on SAP Focused Run system to authenticate the SLDRs, which are forwarding received SLD payloads.
- o `FRN_EWA_<CID>`

Therefore, proceed as follow for the above-mentioned users:

- o Start transaction `SA38`.
- o Run the `RSSI_CHANGE_NETWORK_PASSWORD`.
- o Select the type of *User*, as mentioned above.
- o Select the *Customer ID*.
- o Provide a *New password*.

Note

Pay attention to avoid typos, since you enter the password only once.

- o Choose *Change Password*.

Program RSSI_CHANGE_NETWORK_PASSWORD	
User Name	FRN_LDDS
Customer ID	ABC
New Password	*****
<input type="button" value="Change Password"/>	

5.2.9.1 Creating Business Partner for Local Network

In SAP Focused Run, each system has a direct relationship to one business partner in the customer relationship role. For all systems registered in the local network, you must create such a business partner. In addition, the external identification to local network must be provided to allow a matching of maintained Customer IDs (CID) with the corresponding business partners.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client
2. Start transaction `BP`.
3. Choose *Create Organization*.
4. In field *Create in BP role*, select *Business Partner (gen.)*.
5. Under tab *Address*, maintain in *Name* field the customer name.
6. Under tab *Identification*, in table *Identification Numbers*, maintain the values for columns:
 - o *IDType*: FRUN01 (CID-Customer ID)
 - o *Identification Number*: 3 character CID (as maintained in step [5.2.9 Local Network Setup](#) [page 34])
7. Click on *Save*.

5.2.9.2 Registering SAP Focused Run System in LMDB

Send all relevant system, instance, host and database data to the LMDB of your SAP Focused Run system.

Note

Remember to double check the SAP Host Agent version.

Make sure that SAP Note [2734864](#) was implemented on the FRUN System

1. To send data to SAP Focused Run ABAP Stack, maintain the SLD Data Supplier for the following (please refer to [managed system preparation guide](#) for detailed information):
 - o ABAP (RZ70, use HTTP(s) destination to send general system data, See [Preparing Managed System Guide](#) for details
 - o SAPStartSRV (sldreg): sending data for technical instances
See [Preparing Managed System Guide](#) for details.
 - o SAP HANA (sldreg + HDBLCM): sending Database information
See [Preparing Databases Guide](#) for details.
2. Perform the outside discovery for all hosts of SAP Focused Run system and the associated database, as described in the [Preparing Outside Discovery Guide](#).
3. Open transaction `LMDB` and check the data supplier completeness for your SAP Focused Run ABAP system. Do not continue if the check is not successful (missing or outdated data suppliers are reported).

For troubleshooting you can use report [RLMDB_DS_DISPLAY_TRACES](#) (see SAP Note [2196245](#) for details).

The screenshot displays the SAP System Landscape Technical System - Display interface. The main title is "Technical System (Application Server ABAP) - Data Supplier Completeness Check". The left sidebar shows a navigation tree with "Data Supplier Completeness Check" selected. The main content area includes a "Summary" section with the following details:

- Last Manual Change Recorded:
- Last Change by Data Supplier: 14.10.2016 12:35:19
- Creation Date/Time: 13.10.2016 16:07:07

Below the summary, there are two tabs: "Data Supplier Completeness Checks" and "Found Data Suppliers". The "Found Data Suppliers" tab is active, showing a "Current Overall Status: Complete" with a green dot icon.

The interface also features two tables:

- Missing Data Suppliers:** A table with columns: St..., Entity Type, Entity Display Name, and Supplier Name. It is currently empty.
- Checked Data Suppliers:** A table with columns: S., Status Text, Last Registration, Entity Type, and Entity Display Name. It contains six rows, each with a green status dot and "Supplier regist..." in the Status Text column.

5.2.10 Setup Communication with SAP Support Backbone

In SAP Focused Run, data exchange with SAP support portal is used for system data and license management in these two scenarios:

- All systems, managed by SAP Focused Run, belong to the same customer number, or belong to customers of a single Customer Competence Center (CCC). In this case, set up a single connection for that customer or CCC, as described below.
- The systems, managed by SAP Focused Run, belong to multiple independent customers. In this case, the multiple connection setup should be performed as described later, and this for each customer number of the respective managed systems.

5.2.10.1 Single Connection for Communication with SAP Support Backbone

Activities

1. Execute the task list [SAP_SUPPORT_HUB_CONFIG](#) to setup the connectivity to SAP.

Note

The task list contains automatic and manual activities

- Log in to your SAP Focused Run ABAP system on the production client.
- Start transaction STC01.

- o On the *Task Manager for Technical Configuration* screen, insert *SAP_SUPPORT_HUB_CONFIG* in the *Task List* field.
 - o Choose *Generate Task List Run (F8)*.
 - o Read the documentation of every task carefully and execute the manual activities
 - o Choose *Start/Resume Task List Run in Dialog (or in Background)* to execute the automatic activities. Once the task list run has been finished successfully, green lights appear in the status column. In case of errors, perform an error analysis using the task documentation provided for each task.
2. Using transaction *AIUSER*, create an entry for SAP Focused Run user *FRN_BTC_SMP* and any relevant dialog user.

5.2.10.1.1 Background Jobs for Single Connection

Schedule the following background jobs, using transaction *SM36*, and select as *Target*, the previously created Job Server Group *FRN_JOB_PUBLIC*.

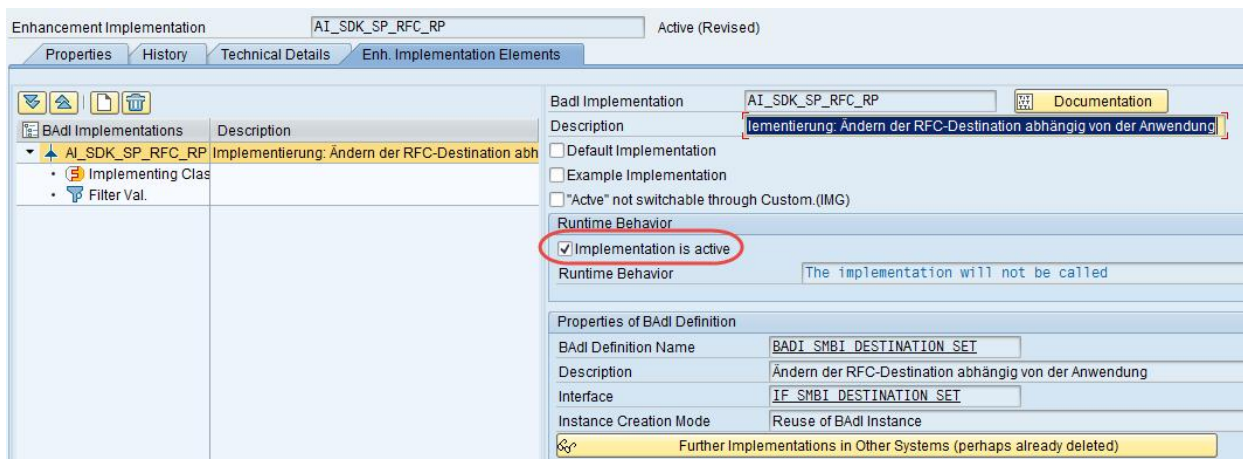
<i>Job Name</i>	<i>Define Step User</i>	<i>ABAP Program Name</i>	<i>Start Condition Start Time</i>	<i>Period Value</i>
SAP_FRN_SYNC_SUPPORT_PORTAL	FRN_BTC_SMP	AI_SC_REFRESH_READ_ONLY_DATA	Customer Defined	Daily
SAP_FRN_SUPHUB_OUTBOX_PROCESS	FRN_BTC_SMP	AGS_SISE_SUPHUB_OUTBOX_PROCESS	Customer Defined	Hourly

5.2.10.2 Multiple Individual Connections for Each Customer for Communication with SAP Support Backbone

With FRUN 2.0 SPO0 a new mass setup tool for *Multiple individual Connections for each Customer for Communication with SAP Support* was introduced. To setup multiple connections perform the following activities:

Activities

1. Activation of the multiple connection BADI:
 - o Log in to your SAP Focused Run ABAP system on the production client.
 - o Start transaction *SE19*.
 - o Choose enhancement implementation: *AI_SDK_SP_RFC_RP*.
 - o Edit the enhancement implementation and mark the flag *Implementation is active*.



- o If asked, provide the SSCR registration key for the object.
 - o Activate the enhancement implementation (as shown in the screenshot above).
2. Maintain all the customer numbers in view V_AISAPCUSTNOS via transaction SM30.
 3. Call the new mass setup tool using the URL:
https://<frunhost full qualified>:<https port>/sap/bc/webdynpro/sap/wd_sise_var_conf_app?sap-language=EN
 The following communication channels for each customer can be setup:
 - o Synchronous: Destinations in format SM_SP_<customer number>_H
 - o Asynchronous: logical ports in format SM_SP_<customer number>_H
 - o ParcelBox: Destination in format SM_SP_<customer number>_G
 4. Using transaction A1SUSER, create an entry for SAP Focused Run user *FRN_BTC_SMP* and any relevant dialog user.

5.2.10.2.1 Background Jobs for Multiple Connections

Schedule the following background jobs, using transaction SM36, and select as *Target*, the previously created Job Server Group *FRN_JOB_PUBLIC*.

<i>Job Name</i>	<i>Define Step User</i>	<i>ABAP Program Name</i>	<i>Start Condition Start Time</i>	<i>Period Value</i>
SAP_FRN_SYNC_SUPPORT_PORTAL	FRN_BTC_SMP	AI_SC_REFRESH_REA D_ONLY_DATA	Customer Defined	Daily
SAP_FRN_SUPHUB_OUTBOX_PROCESS	FRN_BTC_SMP	AGS_SISE_SUPHUB_O UTBOX_PROCESS	Customer Defined	Hourly
SAP_FRN_CUST_CONNECT_CHECK	FRN_BTC_SMP	SISE_VAR_CUST_CON NECT_CHECK	Customer Defined	Daily

5.2.11 Setup Application Foundation Background Processing

Schedule the above background jobs, using transaction SM36, and select as *Target*, the previously-created Job Server Group *FRN_JOB_PUBLIC*.

<i>Job Name</i>	<i>Define Step User</i>	<i>ABAP Program Name</i>	<i>Start Condition Start Time</i>	<i>Period Value</i>
SAP_FRN_WMM_TRIGGER	FRN_BTC_WMM	WMM_TRIGGER	Immediate	1 Minute
SAP_FRN_CNM_NOTIFICATION	FRN_BTC_CNM	CNM_SCHEDULED_NOTIFICATION	Immediate	Hourly
SAP_FRN_AF_SCHEDULER	FRN_BTC_SRA	SRAF_SCHEDULER	Immediate	1 Minute
SAP_FRN_WMM_CONSTITUENTS	FRN_BTC_WMM	WMM_GENERATE_CONSTITUENTS	0:10 am	Daily
SAP_FRN_WMM_HOUSEKEEPING	FRN_BTC_WMM	WMM_HOUSEKEEPING	0:20 am	Daily
SAP_FRN_COLLECT_USAGE_DATA	FRN_BTC_SMP	FRUN_USAGE_UPDATE	0:30 am	Daily
SAP_FRN_SYNC_SUPPORT_PORTAL (1)	FRN_BTC_SMP	AI_SC_UPLOAD_SYSTEM_DATA	1:00 am	Daily
SAP_FRN_AF_HOUSEKEEPER	FRN_BTC_SRA	SRAF_LOG_HOUSEKEEPING	1:30 am	Daily
SAP_FRN_CNM_SYNC_SYSTEM_USERS	FRN_BTC_CNM	CNM_SYNC_SYSTEM_USERS	2:00 am	Daily

(1) If you need that the report AI_SC_UPLOAD_SYSTEM_DATA is uploading to SAP also the system data that is available within your non-productive FRUN system, use transaction DNO_CUST04 and set the line UPLOAD_SYSDATA_GLOBAL_SETTING = X.

5.2.12 Data Collection Framework and Alert Calculation

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Call setup transaction MAI_TOOLS.
3. Choose *Activate Expert Mode*.
4. Select *Administration / Maintain Configuration Parameters* and maintain the following set of parameter *Names* and *Values*:
 - o *DIRDESTGRP: FRN_RFC_MAI* (RFC group to be used by DIR for configuration)

- *DIRMAXPERC*: 20 (Maximum percentage of available DIA WPs used by DIR)
 - *ECEDESTGRP*: *FRN_RFC_MAI* (RFC group to be used by ECE for calculation)
 - *MAXWSPERC*: 40 (Maximum percentage of available DIA WPs used by ECE)
5. Select *Administration / Schedule all MAI jobs with default variant*.
 6. Finally, to activate the default work mode settings, run once the report *ACR_SET_DEFAULT_GLOBAL_WM*, using transaction SA38.

5.2.13 Activate System Monitoring for SAP Focused Run System

Background

With the *Simple System Integration (SSI)* System Monitoring will be activated on the managed system.

Launch the tile *Simple System Integration* in the Group *Infrastructure Administration* in the SAP Focused Run launchpad. Execute the actions *Edit Configuration* and *Configure Automatically* within the *Simple System Integration* for your *SAP Focused Run ABAP system* itself, to ensure that the infrastructure can be used for central monitoring.

Prerequisite

You have created the user *SDAGENT* with all roles as described in the [managed system preparation guide](#)

Activities

1. Start application *Simple System Integration* in the Group: *Infrastructure Administration* via the SAP Focused Run launchpad
2. Search for the FRUN system.
3. Mark the line with the FRUN system.
4. Click on *Edit Configuration*
5. Provide user credential for *SDAAGENT* user on managed system
6. Choose *Save*.
7. Select *Configure Automatically* to start the SSI)

5.2.14 Self-Monitoring

Configure Self-Monitoring.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction MAI_TOOLS.
3. Choose *Activate Expert Mode*.
4. Select *Configuration / Configure Central Components*.

You should get a message that the *Monitoring Scenario* was configured successfully.

5.2.15 Configuring e-mail and SMS integration via SMTP

Refer to SAP Note [455140](#) to configure the e-mail and optionally SMS servers. Finally, enter the name of the SMS server, using Infrastructure Administration -> Central Notification Management -> links -> Configure SMS Server

5.2.16 Specify background user for automated guided procedure processing

If you plan to schedule automated guided procedures in background, either in the context of ASM (via Guided Procedure Planning Management), or AEM (Alert reaction procedures), then specify the user name. The expected user is `FRN_BTC_GPA`, or any other user having the required permissions. Therefore, perform the following:

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction `SA38`.
3. Run the `PR_CONF_GP_ARP_BTC`.
4. Adapt the default user `FRN_BTC_GPA`, if required.
5. Choose *Execute*.

6 Business Scenarios of SAP Focused Run

6.1 Advanced System Management

6.1.1 Preparing Use Case

Execute the task list `SAP_FRUN_SETUP_USECASE` with variant `SAP&FRUN_ASM` to enable the UI environment specific to this use case.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction `STC01`.
3. On the *Task Manager for Technical Configuration* screen, insert `SAP_FRUN_SETUP_USECASE` in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant `SAP&FRUN_ASM`.
6. Choose the *Change Parameters* icon for the task *Activate HTTP Services (SICF)*, to add the following missing services:
`/sap/bc/ui5_ui5/sap/frsh`
7. Choose: *Save*.
8. Choose: *Back (F3)*.
9. Choose *Start/Resume Task List Run in Dialog (or in Background)*.
Once the task list run has been finished successfully, green lights appear in the status column. In case of errors, perform an error analysis using the task documentation provided for each task.

Note

The OData and SICF services activated by this step are listed in the appendix.

6.1.2 Setup Application Specifics

6.1.2.1 SAP EarlyWatch Alert

Prerequisite

Before configuring SAP EarlyWatch Alert (EWA), the following prerequisites must be met:

- Minimum ST-PI 740 SP09 must be implemented in an SAP Focused Run system

- On ABAP managed systems the ST-PI 2008_1_7xx SP14, ST-PI 740 SP4, or higher, shall be implemented
- The *IT Admin Role* within LMDB shall be set to *Production System* for the relevant managed systems (technical system)
- On the FRUN system, Service Data Control Center (Transaction SDCCN) must be activated as on a normal ABAP system. This is described e.g. in [SAP Note 207223](#) section I. I. Activating the Earlywatch Alert . You must make sure, that the user controlling SDCCN (such as running the step of job /BDL/TASK_PROCESSOR) is user FRN_BTC_EWA (this user is supplied with the FRUN specific authorizations).

Activities

Activate the processing of EWA data

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction SDCCN.
3. Go to *Utilities* and choose *Activate*.
4. Click *Continue*, on question if SDCCN should be activated in local system.

6.1.2.2 Predictive Analytics Setup - Metric Forecasting

General Remark

Metric forecasting is part of System Anomaly Prediction and can also be used separately in the Metric Monitor.

Prerequisite

The predictive analytics for System Analysis and System Monitoring, requires that you install the Application Function Library (AFL) and the SAP HANA Automated Predictive Library (APL).

Note

For the following references to documentation on the SAP Help Portal, always select your SAP HANA release in the top right corner of the relevant SAP Help Portal page.

1. See *SAP HANA Predictive Analysis Library (PAL) documentation* to install AFL.
2. See the [Installing SAP HANA APL](#) section in the *SAP HANA Automated Predictive Library Reference Guide* to install APL.
3. Roles and Authorization:
The role SAP_FRN_APP_PAS_DISP contains the display authorizations for Metric forecasting.

Please refer to the [Checking the Installation](#) section in the *SAP HANA Automated Predictive Library Reference Guide* to check that the APL installation is working.

Activities for System Preparation

1. To enable the SQL script server, see the [Starting the SAP HANA ScriptServer](#) section in the *SAP HANA Automated Predictive Library Reference Guide*. Do not forget to choose your SAP HANA release.
2. Grant execution permissions to the user SAP<SID> for the APL functions, by running in the SAP HANA Studio or SAP HANA Console with a SYSTEM database user:
 - Grant AFL__SYS_AFL_APL_AREA_EXECUTE to SAP<SID>;
 - Grant AFLPM_CREATOR_ERASER_EXECUTE TO SAP<SID>;

Replace SAP<SID> with the relevant value.

Roles and Authorization:

The role SAP_FRN_APP_PAS_DISP contains the display authorizations for Metric Forecasting.

6.1.2.2.1 Configuration - Number of Forecast Points

For forecasting calculations, choose the number of days, for which data is to be calculated. The data store is selected automatically: either the System Monitoring data store, the System Analysis aggregated store (if aggregation is enabled), or both based on the relevant application configuration. You can also enter the number of forecast points in various increments of minutes or hours. To configure this, use the SM30 view of PAS_SM_DP_CONFIG.

The default settings mentioned below are maintained automatically based on the granularity during preparation. When the forecast API is called the first time, these values are entered automatically. They are not available by default before that.

MIN

- Number of days, for which data is to be read from the System Monitoring data store: 5
- Read from Aggregation Store: No
- Number of forecast points to be shown: 12

5MIN

- Number of days, for which data is to be read from the System Monitoring data store: 15
- Read from Aggregation Store: No
- Number of forecast points to be shown: 6

15MIN

- Number of days, for which data is to be read from the System Monitoring data store: 15
- Read from Aggregation Store: No
- Number of forecast points to be shown: 4

1HOUR

- Number of days, for which data is to be read from the System Monitoring data store: 30
- Read from Aggregation Store: Yes
- Number of forecast points to be shown: 2

DAY

- Number of days, for which data is to be read from the System Monitoring data store: 30
- Read from Aggregation Store: Yes
- Number of forecast points to be shown: 2

6.1.2.2.2 Configuration - Exceptions to Algorithms

Optional:

Execute the report PAS_SAVE_EXCEPTION by using transaction SE38. By default, APL is used as the algorithm. The user can adjust the algorithm to "FS" (PAL's Forecast Smoothing) for metrics by saving the metric ID and hash metric path (if applicable). Maintain exceptions only if you want to use PAL's Forecast Smoothing. The default behavior is that all forecasts happen using APL. The default algorithm is APL.

6.1.2.2.3 Configuration - Forecast Confidence

Optional:

Maintain FORECAST_CONFIDENCE by using the SM30 view of PAS_SM_GEN_CONFI: Confidence Interval for APL Auto Regression algorithm. The other acceptable values are 99 and 90. When the forecast API is called for the first time, the value mentioned below is entered automatically. It is not available by default before that.

- Param Name: FORECAST_CONFIDENCE
- Param Count: 1
- Param Value: 95

Note

This option is applicable only for APL as of SAP Focused Run 1.0 FP03. The default value is 95%.

6.1.2.2.4 Configuration - Handle Null Values

Optional:

Maintain NULL_VALUE_EXIT_PC using the SM30 view of PAS_SM_GEN_CONFI: The percentage of null values acceptable for forecasting. If there are more null values, forecasting will be aborted. When the forecast API is called for the first time, the value mentioned below is entered automatically. It is not available by default before that.

- Param Name: NULL_VALUE_EXIT_PC
- Param Count: 1
- Param Value: 40

Note

The default value is 40%.

6.1.2.3 Predictive Analytics Setup - System Anomaly Prediction (Optional)

Important Information

System Anomaly Prediction is a new optional SAP Focused Run feature in an early rollout phase.

The preparation of the Linux compilation environment for R with the various dependencies will require that you install various SDK packages in your Linux environment. These SDK packages are usually not installed on server hosts running SAP software and therefore are not part of your standard repositories for Linux installations with distributions like "SuSe SLES for SAP" or "Red Hat for Enterprise", etc. You might need to register additional Linux software repositories on your designated R host.

We recommend preparing the compilation environment and the R runtime on dedicated hosts following your company security policies.

Preparation

The System Anomaly Prediction requires you to install R. For more information, see the [SAP HANA R Integration Guide for System Anomaly Prediction](#) at [SAP HANA R Integration Guide for System Anomaly Prediction](#) at the SAP Focused Run Expert Portal.

Note

The guide is currently valid for SuSe SLES and Red Hat only.

6.1.2.3.1 Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction SM30.
3. Enter as *table* name: `PAS_SM_GEN_CONFI`.
4. Choose *Maintain*.
5. Choose *New Entries* and provide the following values:
 - o Param Name: ANOMALY_ENGINE_HOUSEKEEPING
 - o Param Count: 1
 - o Param Value: 30 (Number of days, for which the prediction data is retained)
6. Choose *Save*.
7. Choose *New Entries* and provide the following values:
 - o Param Name: RMODELPATH
 - o Param Count: 1
 - o Param Value: <Enter the file system path on the R Host, to which the model files are to be copied (see item 12 below)>
8. Choose *Save*.

Note

RMODELPATH is case sensitive. Alternatively use the report program "MAINTAIN_R_MODEL_PATH" to update the RMODELPATH.

9. Download the latest *model definition* from SAP Note [2706779](#).
10. Upload to SAP Focused Run the latest model definition (.zip file), by running the report *PAS_SA_IMPORT_MODEL* using transaction SA38.
11. Finally, download the latest *R models* from SAP Note [2706779](#).
12. Provide these R models to the R Host by *copying the files* to the file system location mentioned for parameter RMODELPATH (See item 7 above).

6.1.2.3.2 Roles and Authorization

The configuration can be done in System Monitoring application only. System Monitoring:

- System Anomaly Prediction Configuration
 - *SAP_FRN_AAD_MOAL_ALL* - All authorizations for System Monitoring & Alert Management Administration/Configuration
- System Anomaly Prediction Display
 - *SAP_FRN_APP_MOAL_DISP* - Display authorizations for System Monitoring & Alert Management
 - *SAP_FRN_APP_MOAL_ALL* - All authorizations for System Monitoring & Alert Management

System Analysis:

- System Anomaly Prediction Display
 - *SAP_FRN_APP_SYA_ALL* - All Authorizations for the System Analysis application (end user)

6.1.2.3.3 Schedule Jobs

Schedule the following background jobs, using transaction SM36, and select as *Target*, the previously created Job Server Group *FRN_JOB_PUBLIC*.

For more information about the scheduling, see the master guide in *step 6.1.3. Background Jobs for ASM*.

<i>Job Name</i>	<i>Define Step User</i>	<i>ABAP Program Name</i>	<i>Start Condition Start Time</i>	<i>Period Value</i>
SAP_FRN_PAS_ANOMALY_ENGINE	FRN_BTC_PAS	PAS_ANOMALY_ENGINE	Immediate	5 Minutes
SAP_FRN_PAS_ANOMALY_HK	FRN_BTC_PAS	PAS_ANOMALY_HOUSEKEEPING	00:30 am	Daily

Description: User with authorization to run System Anomaly Prediction anomaly engine job and housekeeping.

6.1.2.3.4 Migration

If you as an administrator have the roles for System Anomaly Prediction Configuration, you can activate and maintain models for prediction scenario. The concept of variant is not available from FRUN 2.0 onwards. You need to run the migration report [PAS_CONF_MIGRATION](#) to migrate from variant based configuration to system-based configuration. If you do not run this report program, you will not see the systems which were activated for prediction in FRUN 1.0 FPO3 now in the new FRUN 2.0.

6.1.2.3.5 Identification and Deletion of Personal Data in Scenario: System Anomaly Prediction

Predictive Applications persist the user ID in the following tables;

- [PAS_SA_MODEL_VER](#)
- [PAS_SA_VARIANT](#)
- [PAS_SA_MODEL_VER](#)
- [PAS_SA_CONF](#)

If you want to check whether personal data is stored in the application, you can execute the report [PAS_PERS_DATA_USAGE](#).

Personal data that is stored in the application can be deleted by running the report [PAS_PERS_DATA_DELETE](#).

The execution of the above-mentioned reports is logged in SLG1 using object [PAS](#).

6.1.2.3.6 Support Components & SAP Notes for System Anomaly Prediction

You can raise your incidents in the support component SV-FRN-APP-SYM.

The below SAP Notes needs to be referred and applied in the release.

Note number	Description
2706805	Central Correction Note - System Anomaly Prediction in SAP Focused Run f 2.0 FPO0
2706779	System Anomaly Prediction in SAP Focused Run 2.0 - Model Definitions and R Models for Predictive applications
2686042	Sizing information to setup R in your landscape for System Anomaly Prediction

6.1.2.4 System Analysis Setup

Configure the Data Aggregation for System Analysis.

Activities

1. Start application *System Analysis Configuration* via the SAP Focused Run launchpad, or via the URL: https://<host>:<port>/sap/bc/webdynpro/sap/sysana_config
2. Upon first launch, you will get a popup dialog to create an aggregation task for system analysis. Fill the dialog with appropriate values and choose *OK*. To review the task settings at a later point in time choose *Edit Task* in the top right.

Example values:

1. Choose *Schedule Period*
 2. *Collect from: 02:00:00*
 3. *Schedule period* (in minutes): *1440*
 4. *Log store data* (in days): *5*
3. (Optional) Create a variant to activate aggregation of selected metrics for specific system types.

6.1.3 Background Jobs for ASM

Schedule the following background jobs, using transaction SM36, and select as *Target*, the previously created Job Server Group *FRN_JOB_PUBLIC*.

<i>Job Name</i>	<i>Define Step</i>		<i>Start Condition</i>	
	<i>User</i>	<i>ABAP Program Name</i>	<i>Start Time</i>	<i>Period Value</i>
SAP_FRN_EWA_SEND_REPORT	FRN_BTC_EWA	FRUN_DOWNLOADS_REPORT	Immediate	Hourly
SAP_FRN_PAS_ANOMALY_ENGINE	FRN_BTC_PAS	PAS_ANOMALY_ENGINE	Immediate	5 Minutes
SAP_FRN_PAS_ANOMALY_HK	FRN_BTC_PAS	PAS_ANOMALY_HOUSEKEEPING	00:30 am	Daily
SAP_FRN_EWA_NON_ABAP	FRN_BTC_EWA	FRUN_COLLECT_NON_ABAP	01:00 am	Daily
SAP_FRN_LIC_DISTRIBUTION	FRN_BTC_SMP	RAGS_MAINT_KEY_COLLECTOR	01:30 am	Daily
SAP_FRN_RCA_HOUSEKEEPER	FRN_BTC_ASM	RCA_HOUSEKEEPING	02:00 am	Daily
SAP_FRN_SA_HOUSEKEEPER	FRN_BTC_ASM	WEA_AGG_STORE_PARTITIONING	02:30 am	Daily
SAP_FRN_STATRAGG_HOUSEKEEPER	FRN_BTC_ASM	AI_STATRAGG_HOUSEKEEPING	03:00 am	Daily

SAP_FRN_SAM_UTILITY	FRN_BTC_ SAM	SAM_CREATE_AP_CMP	03:30 am	Daily
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6.2 Advanced User Monitoring

6.2.1 Preparing Use Case

Execute the task list [SAP_FRUN_SETUP_USECASE](#) with variant [SAP&FRUN_AUM](#) to enable the UI environment specific to this use case.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction STC01.
3. On the Task Manager for Technical Configuration screen, insert [SAP_FRUN_SETUP_USECASE](#) in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant [SAP&FRUN_AUM](#).
6. Choose *Start/Resume Task List Run in Dialog (or in Background)*.
Once the task list run has been finished successfully, green lights appear in the status column. If there are errors, perform an error analysis using the task documentation provided for each task.

Note

The OData and SICF services activated by this step are listed in the appendix.

6.2.2 Real User Monitoring Specific Setup Steps

Real User Monitoring table partitioning & batch job scheduling

Check if user [FRN_BTC_RUM](#) has been created according to the security guide. Following, Run report [/RUM/SETUP](#) using transaction SA38 to initialize Real User Monitoring.

6.2.3 Background Jobs for AUM

Schedule the following background jobs, using transaction SM36, and select as *Target*, the previously created Job Server Group [FRN_JOB_PUBLIC](#).

Job Name	Define Step User	ABAP Program Name	Start Condition	
			Start Time	Period Value
SAP_FRN_TRACE_HK	FRN_BTC_TA	E2E_TRACE_DELETE	1:00 am	Daily

6.3 Configuration and Security Analytics

6.3.1 Preparing Use Case

Execute the task list [SAP_FRUN_SETUP_USECASE](#) with variant [SAP&FRUN_CSA](#) to enable the UI environment specific to this use case.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction `STC01`.
3. On the Task Manager for Technical Configuration screen, insert [SAP_FRUN_SETUP_USECASE](#) in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant [SAP&FRUN_CSA](#).
6. Choose *Start/Resume Task List Run in Dialog (or in Background)*.

Once the task list run has been finished successfully, green lights appear in the status column. In case of errors, perform an error analysis using the task documentation provided for each task.

Note

The OData and SICF services activated by this step are listed in the appendix.

6.3.2 Additional Configuration for Configuration Validation

Execute report [COF_SETUP](#) using transaction `SA38`.

6.4 Advanced Integration Monitoring

6.4.1 Preparing Use Case

Execute the task list [SAP_FRUN_SETUP_USECASE](#) with variant [SAP&FRUN_AIM](#) to enable the UI environment specific to this use case.

Note

If you install SAP Focused Run or apply a new support package for SAP Focused Run, execute the report `/IMA/AFTER_UPDATE` to perform required initialization or migration activities.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.
2. Start transaction `STC01`.
3. On the Task Manager for Technical Configuration screen, insert `SAP_FRUN_SETUP_USECASE` in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant `SAP&FRUN_AIM`.
6. Choose *Start/Resume Task List Run in Dialog (or in Background)*.
Once the task list run has been finished successfully, green lights appear in the status column. In case of errors, perform an error analysis using the task documentation provided for each task.

Note

The OData and SICF services activated by this step are listed in the appendix.

6.4.2 Background Jobs for AIM

Schedule the following background jobs, using transaction `SM36`, and select as *Target*, the previously-created Job Server Group `FRN_JOB_PUBLIC`.

<i>Job Name</i>	<i>Define Step</i>		<i>Start Condition</i>	
	<i>User</i>	<i>ABAP Program Name</i>	<i>Start Time</i>	<i>Period Value</i>
<code>SAP_FRN_AIM_HOUSEKEEPING</code>	<code>FRN_BTC_AIM</code>	<code>/IMA/HOUSEKEEPING</code>	1:00 am	Daily
<code>SAP_FRN_AIM_ALERTING</code>	<code>FRN_BTC_AIM</code>	<code>/IMA/ALERT_CALCULATION</code>	Immediate	1 Minute

6.5 Advanced Event and Alert Management

6.5.1 Preparing Use Case

Execute the task list `SAP_FRUN_SETUP_USECASE` with variant `SAP&FRUN_AEM` to enable the UI environment specific to this use case.

Activities

1. Log in to your SAP Focused Run ABAP system on the production client.

2. Start transaction STC01.
3. On the *Task Manager for Technical Configuration* screen, insert *SAP_FRUN_SETUP_USECASE* in the *Task List* field.
4. Choose *Generate Task List Run with Variant (CTRL+F8)*.
5. Choose the variant *SAP&FRUN_AEM*.
6. Choose the Change Parameters icon for the task *Activate HTTP Services (SICF)*, to add the following missing services:
/sap/bc/ui5_ui5/sap/ags_gpa_browser
7. Choose: *Save*.
8. Choose: *Back (F3)*.
9. Choose *Start/Resume Task List Run in Dialog (or in Background)*.
 Once the task list run has been finished successfully, green lights appear in the status column. If there are errors, perform an error analysis using the task documentation provided for each task.

 Note

The OData and SICF services activated by this step are listed in the appendix.

6.5.2 Background Jobs for AEM

Schedule the following background jobs, using transaction SM36, and select as *Target*, the previously-created job server group *FRN_JOB_PUBLIC*.

<i>Job Name</i>	<i>Define Step</i>		<i>Start Condition</i>	
	<i>User</i>	<i>ABAP Program Name</i>	<i>Start Time</i>	<i>Period Value</i>
SAP_AEM_METRIC_AGGREGATE_JOB	FRN_BTC_AEM	AEM_MAINTAIN_METRIC_AGGREGATE	0:00 am	4 Hours
SAP_AEM_HOUSEKEEPING	FRN_BTC_AEM	AEM_HOUSEKEEPING	1:00 am	Daily

7 Appendix

7.1 OData and SICF services activated by STC01 task lists

7.1.1 SAP_GW_FIORI_ERP_ONE_CLNT_SETUP with variant SAP&FRUN_INIT

OData Services for SAP Focused Run Application Foundation

Application Area	OData Services
SAP Focused Run UI runtime	UI5LIB_SRV TECHMON_UI5_TABS_SRV LMDB_FILTERBAR_SRV LMDB_FILTERBAR_APP_SRV (relevant for support) SOLMAN_COMMONS_SRV GPA_ODATA_DOC_SRV GPA_ODATA_SRV TECHMON_UI5_LOCK_SRV
Self-Monitoring	SFM_STATUS_ODATA_SERVICE SFM DASHBOARD_SRV
Simple System Integration	SSI_CONFIGURATION_SRV
Advanced Event and Alert Management	ACC ALERTTICKER_SRSM_SRV AEMSCOPESELECTOR_SRV
IT Calendar and Workmode Management	WMM_DATA_SRV IT_CALENDAR
Managed Object Specific Changes	MOSPECIFIC_SRV
Notification Management	CNM_SRV
Data Provider	FRN_FI_DP_SRV

SICF Services for SAP Focused Run Application Foundation

Application Area	SICF Services
Web Dynpro Runtime	/sap/bc/webdynpro /sap/public/ping

Application Area	SICF Services
	/sap/public/bc/ur /sap/public/bc/icons /sap/public/bc/icons_rtl /sap/public/bc/webicons /sap/public/bc/pictograms /sap/public/bc/webdynpro/mimes /sap/public/bc/webdynpro/ssr /sap/bc/webdynpro/sap/wdhc_help_center
Web GUI and NetWeaver services	/sap/bc/gui/sap/its/webgui /sap/public/myssocntl /sap/bc/srt/wSDL /sap/public/opu /sap/public/bc/uics /sap/public/bc/uics/whitelist
SAP Focused Run UI runtime	/sap/bc/ui5_ui5/sap/frunui5lib /sap/bc/bsp/sap/ai_tools_dnld /sap/bc/ui5_ui5/sap/lmdbfilterbar /sap/bc/ui5_ui5/sap/filterbardemo (relevant for support) /sap/bc/webdynpro/sap/urlapi_application_manager /sap/url/go /sap/bc/webdynpro/sap/documentation/ /sap/bc/ui5_ui5/sap/bsp_sise_rm_ui5 /sap/bc/ui5_ui5/sap/bsp_aggs_ui5_doc /sap/bc/ui5_ui5/sap/frsh
Landscape Management Database	/sap/bc/cim/ds /sap/bc/cim/cimom /sap/bc/cim/sync /sap/bc/webdynpro/sap/lmdb_simple_setup /sap/bc/webdynpro/sap/LMDB_WDA_EXPL_OIF /sap/bc/webdynpro/sap/LMDB_WDA_GENB_OIF /sap/bc/webdynpro/sap/LMDB_WDA_EXPL_HELP /sap/bc/webdynpro/sap/LMDB_FPM_OVP_COMPONENT
Simple System Integration	/sap/bc/webdynpro/sap/msc_ts_search_fpm_app /sap/bc/ui5_ui5/sap/ssi_config /sap/bc/webdynpro/sap/WD_SISE_DISPLAY_ARCH
Simple Diagnostics Agent	/sap/bc/webdynpro/sap/srsm_host_search_fpm_app /sap/bc/webdynpro/sap/srsm_agent_mass_update_app /sap/srsm_sda

Application Area	SICF Services
	/sap/bc/ui5_ui5/sap/FS_BROWSER
Self-Monitoring	/sap/bc/ui5_ui5/sap/metric_moni_sfm /sap/bc/webdynpro/sap/solman_self_monitoring_app /sap/bc/ui5_ui5/sap/selfmondash
Inbound data streaming channels	/sap/srsm_mai/push_metrics /sap/bc/sdf/sdcc/ /sap/bc/rest/E2E_TA_COL /sap/bc/rest/cof /sap/bc/rest/statraggdatasrv
Monitoring Infrastructure	/sap/bc/webdynpro/sap/fpm_dpc_role_assignment /sap/bc/webdynpro/sap/wda_default_settings /sap/bc/webdynpro/sap/wda_config_wizard /sap/bc/webdynpro/sap/wda_consumer_variant /sap/bc/webdynpro/sap/wda_threshold_information /sap/bc/webdynpro/sap/wdc_transport_templates /sap/bc/webdynpro/sap/maintenance_tool /sap/bc/webdynpro/sap/wda_mai_rep_html /sap/bc/webdynpro/sap/WDA_AC_DIR_BROWSER /sap/bc/webdynpro/sap/wda_sise_update_content /sap/bc/webdynpro/sap/wda_mass_reconfiguration
Managed Object Specific Changes	/sap/bc/ui5_ui5/sap/mospecific
Advanced Event and Alert Management	/sap/bc/ui5_ui5/sap/alertdetail /sap/bc/ui5_ui5/sap/alertinboxapp /sap/bc/apc/sap/alert_ticker_srsm
Guided Procedures Framework	/sap/bc/webdynpro/sap/ags_gpa_browser /sap/bc/webdynpro/sap/ags_gpa_gp /sap/bc/webdynpro/sap/ags_gpa_logbook /sap/bc/webdynpro/sap/wd_sise_fwkwizard /sap/bc/webdynpro/sap/ags_gpa_plugin_mngt /sap/bc/webdynpro/sap/AGS_GPA_PLANNING_MNGT /sap/bc/bsp/sap/bsp_sise_chart /sap/bc/ui5_ui5/sap/bsp_sise_chart
IT Calendar and Workmode Management	/sap/bc/ui5_ui5/sap/itcalendar /sap/bc/itcal_exp_tmpl /sap/bc/ui5_ui5/sap/workmode_app /sap/bc/apc/sap/work_mode
Notification Management	/sap/bc/ui5_ui5/sap/instant_notif

Application Area	SICF Services
	/sap/bc/ui5_ui5/sap/cnm_repository /sap/bc/ui5_ui5/sap/notif_templ_app /sap/bc/ui5_ui5/sap/notif_config /sap/bc/ui5_ui5/sap/notif_schedule /sap/bc/ui5_ui5/sap/notif_rec_list /sap/bc/webdynpro/sap/dswp_na_grp_powl /sap/bc/webdynpro/sap/dswp_na_generic_notif /sap/bc/webdynpro/sap/dswp_na_configure_servers
Scheduling Management	/sap/bc/webdynpro/sap/wd_sraf_admin_portal
Tactical Dashboard	/sap/bc/bsp/sap/fitac /sap/bc/ui5_ui5/sap/fitac
VAR Configuration	/sap/bc/webdynpro/sap/wd_sise_var_conf_app

7.1.2 SAP_FRUN_SETUP_USECASE with variant SAP&FRUN_ASM

OData Services for SAP Focused Run ASM

Application Area	OData Services
Advanced System Monitoring	ADMON_MONITORING_SRV
Guided Procedure Content	FILTERING_RATING_APP_SRV
Statistics Aggregate	STATRAGG_SRV
System Analysis	WEA_SRV SYA_SQL_SRV
System Anomaly Prediction	PAS_SA_VARIANT_SRV
Service Availability Management	SAM_SRV
System Monitoring	AI_SYSMON_SRV AI_SYSMON_OVERVIEW_SRV

SICF Services for SAP Focused Run ASM

Application Area	SICF Services
Open Component Monitoring	/sap/bc/ui5_ui5/sap/advmon
Guided Procedure Content	/sap/bc/bsp/sap/frn_gpc_fw_k_fr /sap/bc/ui5_ui5/sap/frn_gpc_fw_k_fr

Application Area	SICF Services
License Management	/sap/bc/webdynpro/sap/WD_AGS_MK_LIC_MNGT
Statistics Aggregate	/sap/bc/webdynpro/sap/wd_statragg_cockpit
System Analysis	/sap/bc/ui5_ui5/sap/wea /sap/bc/webdynpro/sap/sysana_config /sap/bc/rest/rcadataservice (Inbound data streaming channels) /sap/bc/webdynpro/sap/advmon
System Anomaly Prediction	/sap/bc/ui5_ui5/sap/PAS_APPL
Service Availability Management	/sap/bc/ui5_ui5/sap/sam_appl /sap/bc/sam_export
System Monitoring	/sap/bc/ui5_ui5/sap/sr_sysmon /sap/bc/ui5_ui5/sap/metricmonitor /sap/bc/webdynpro/sap/troubleshoot

7.1.3 SAP_FRUN_SETUP_USECASE with variant SAP&FRUN_AUM

OData Services for SAP Focused Run AUM

Application Area	OData Services
Real User Monitoring	/RUM/UI5_SRV /RUM/CONFIG_SRV
Statistics Aggregate	STATRAGG_SRV
Synthetic User Monitoring	SUM_UI5_SRV SUM_API_SRV
Trace Analysis	E2E_TRACE_UI_SRV

SICF Services for SAP Focused Run AUM

Application Area	SICF Services
Real User Monitoring	/sap/bc/webdynpro/rum/WDA_COCKPIT /sap/bc/ui5_ui5/RUM/E2ERUM /sap/bc/webdynpro/rum/wd_alerting /sap/bc/rest/rumupload (Inbound data streaming channels) /sap/bc/rest/rumdataservice (Inbound data streaming channels)
Statistics Aggregate	/sap/bc/webdynpro/sap/wd_statragg_cockpit

Application Area	SICF Services
Synthetic User Monitoring	/sap/bc/bsp/sap/sum_ui5 /sap/bc/rest/sumdataservice (Inbound data streaming channels) /sap/bc/ui5_ui5/sap/SUM_UI5 /sap/bc/webdynpro/sap/SUM_SELF_MONITORING /sap/bc/webdynpro/sap/WD_SUM_CONFIGURATION /sap/public/bc/webdynpro/polling
Trace Analysis	/sap/bc/ui5_ui5/sap/trace /sap/bc/ui5_ui5/sap/tracejslib /sap/bc/ui5_ui5/sap/TraceExt /sap/srsm/E2E_trace_upl

7.1.4 SAP_FRUN_SETUP_USECASE with variant SAP&FRUN_AEM

OData Services for SAP Focused Run AEM

Application Area	OData Services
AEM Inbound Connector*	INBOUNDCONNECTOR
Alert Consumer Variants	ALERTCONSUMERVARIANT
AEM Configuration	AEMCONFIGURATION

(*) The technical user who executes the AEM Inbound Connector oData service should have the role SAP_FRN_AEM_UMD_ALR.

SICF Services for SAP Focused Run AEM

Application Area	SICF Services
Event and Alert Management	/sap/bc/ui5_ui5/sap/alrtconsmvar /sap/bc/ui5_ui5/sap/aemconfig

7.1.5 SAP_FRUN_SETUP_USECASE with variant SAP&FRUN_CSA

OData Services for SAP Focused Run CSA

Application Area	OData Services
Configuration Validation	CONFIG_VALIDATION_SRV COF_ODATA_SRV

SICF Services for SAP Focused Run CSA

Application Area	SICF Services
Configuration Validation	/sap/bc/ui5_ui5/sap/srsm_config_val /sap/bc/webdynpro/sap/WD_CCDB_SCI /sap/bc/webdynpro/sap/WD_COVA_TAR_MAINT /sap/bc/ui5_ui5/sap/cof_admin_comp

7.1.6 SAP_FRUN_SETUP_USECASE with variant SAP&FRUN_AIM

OData Services for SAP Focused Run AIM

Application Area	OData Services
Integration Monitoring	/IMA/UI5_SRV S2C_UI_SRV
Exception Management	EXM_UI_SRV

SICF Services for SAP Focused Run AIM

Application Area	SICF Services
Integration Monitoring	/sap/bc/ui5_ui5/ima/app /sap/bc/rest/aimdataservice (Inbound data streaming channels) /sap/bc/ui5_ui5/sap/ai_csm_ui

7.2 Automatic scheduled Background Jobs

During setup and configuration of SAP Focused Run, some jobs are automatically scheduled. Some of them are periodic jobs, some are event based. The following tables contain the list of these jobs for reference.

Remark: Some jobs are started as Daemon jobs. This means that they are restarted automatically after a specific period.

Jobs scheduled by report COF_SETUP:

<i>Job Name</i>	<i>Step User</i>	<i>ABAP Program Name</i>	<i>Frequency Period Value</i>	<i>Daemon</i>
CF_COLLECTOR_PER_EVT	FRN_BTC_CSA	COF_COLLECTOR_PER_EVT	15 min	
CF_FRUN_MANDT<CLT>_<NNN>	FRN_BTC_CSA	AEM_HOUSEKEEPING	Event Based	X
CF_IQR	FRN_BTC_CSA	COF_IQR	Event Based	X
CF_TASKCTRL_PER	FRN_BTC_CSA	COF_TASK_CONTROLLER	60 min	
CF_TASKCTRL_EVT	FRN_BTC_CSA	COF_TASK_CONTROLLER	Event Based	

Jobs scheduled by Transaction MAI_TOOLS:

<i>Job Name</i>	<i>Step User</i>	<i>ABAP Program Name</i>	<i>Frequency Period Value</i>	<i>Daemon</i>
SAP_MAI_UDM_STORE_CAR ETAKER	FRN_BTC_MAI	MAI_UDM_AGILE_CARETAKER	1 h	
SAP_MAI_UDM_STORE_PAR TITIONING	FRN_BTC_MAI	MAI_UDM_STORE_PARTITIONING	3 h	
SAP_ALERT_CALCULATION_ ENGINE	FRN_BTC_MAI	ACE_CALCULATION_CONTROLLER	1 min	
SRSM_AMA_SELFMON_HEA RTBEAT	FRN_BTC_MAI	SRSM_AMA_SELFMON_HEARTBEAT	1 min	
SRSM_AMA_SELFMON_CON FIG	FRN_BTC_MAI	SRSM_AMA_SELFMON_CONFIG	5 min	
SRSM_AMA_SELFMON_ERR ORS	FRN_BTC_MAI	SRSM_AMA_SELFMON_ERRORS	5 min	
SAP_LMDB_SELFMON	FRN_BTC_MAI	RLMDB_SELF_MON	12 h	
SAP_MAI_DATA_COLLECTIO N_TRIGGER	FRN_BTC_MAI	MAI_DATA_COLLECTION_TRIGGER	5 min	

Jobs scheduled by Transaction LMDB_SETUP:

<i>Job Name</i>	<i>Step User</i>	<i>ABAP Program Name</i>	<i>Frequency Period Value</i>	<i>Daemon</i>
SAP_LMDB_NTFC_PACEMAKER	FRN_BTC_LDB	RLMDB_NTFC_PACEMAKER	1 h	
SAP_LMDB_SELFMON	FRN_BTC_MAI	RLMDB_SELF_MON	12 h	
SAP_LMDB_NOTIFY_DISPATCHER	FRN_BTC_LDB	RLMDB_NTFC_DISPATCH	Triggered by system depending on amount of changes	
SAP_LMDB_NOTIFY_<Consumer Short ID> (each notification consumer has specific job)	FRN_BTC_LDB	RLMDB_NTFC_CONSUMER_TRIGGER	Triggered by job SAP_LMDB_NOTIFY_DISPATCHER	
SAP_LMDB_LDB_<numeric ID> (only if CR content is applied via SLD)	FRN_BTC_LDB	AI_LMDB_R_SYNC_RUNNER	10 min	
SAP_LMDB_IMPORT (only if CR content is applied via LMDB)	FRN_BTC_LDB	RLMDB_IMPORT_EXECUTOR	Ca. 4 weeks	

Jobs scheduled by report /RUM/SETUP

<i>Job Name</i>	<i>Step User</i>	<i>ABAP Program Name</i>	<i>Frequency Period Value</i>	<i>Daemon</i>
/RUM/HOUSEKEEPING	FRN_BTC_RUM	/RUM/HOUSEKEEPING	24 h	
/RUM/ALERT_CALCULATION	FRN_BTC_RUM	/RUM/ALERT_CALCULATION	1 min	

Jobs scheduled automatically by job FRN_RCA_HOUSEKEEPING (report RCA_HOUSEKEEPING) only when necessary:

<i>Job Name</i>	<i>Step User</i>	<i>ABAP Program Name</i>	<i>Frequency Period Value</i>	<i>Daemon</i>
SAP_FRN_RCA_HANA_STATEMENT_SYNC	FRN_BTC_ASM	RCA_HANA_STATEMENT_SYNC	1 h	

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