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Getting Started with SAP Master Data Governance 9.0 SP02 on SAP HANA 1.0

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1 Solution Information

1.1 Installed Products

You get access to a system (landscape) that has been built using the following installation media:

- SAP Kernel 7.45 Linux on x86_64 64bit
- EHP8 FOR SAP ERP 6.0
- SAP HANA Platf. Ed. 1.0 SPS10 (SAP HANA DB 1.00.102.2)
- SAP MASTER DATA GOVERNANCE 9.0 SP02

1.2 Overview

SAP Master Data Governance (MDG) is a state-of-the-art master data management solution, providing out-of-the-box, domain-specific master data governance to centrally create, change, and distribute, or to consolidate master data across your complete enterprise system landscape.

The MDG9.0 on SAP HANA 1.0 delivers solutions in the following areas:

- SAP MDG for financial data (financial accounting / consolidation data, companies, profit & cost centers)
- SAP MDG for supplier data (corporate, company, and purchasing related data, partner functions)
- SAP MDG for customer data (corporate, company, and sales related data, partner functions)
- SAP MDG for material data (corporate, sales org, plant, storage, warehouse, valuation & costing data)
- SAP MDG for enterprise asset management data (equipment, functional location data, MRO bills of material)
- Master data consolidation (Load, standardize, match and calculate best records for business partner master data, material master data)

The purpose of this system is to allow SAP customers and partners to **evaluate** and **start** Mater Data Governance across domain solutions.

1.3 Scenario Description

This is a fully pre-configured system that can be immediately used with following defined scenarios.

Click to get a demo script for each of them.

Central Governance Scenarios:

- [Search, copy, create material run Change Request process](#)
- [Create supplier with parallel Workflow](#)
- [Run Parallel Change Request with Material](#)
- [Create G/L Account with flexible edition management](#)
- [Initial load Cost Center Group Hierarchy with download report and File Upload application in MDG](#)
- [Create Cost Center with Hierarchy Assignment](#)
- [Manage Cost Center Hierarchy with Hierarchy Processing UI](#)
- [Process Material in Multiple Record Processing Application](#)
- [Request new Supplier with Lean Request UI](#)
- [MRO BOM Fiori Approval in MDG Enterprise Asset Management](#) (new added in MDG9.0)
- [Mass Processing Business Partners Master Data](#) (new added in MDG9.0)

Consolidation Scenarios:

- [Master Data Consolidation scenario with Business Partner Data](#)
- [Master Data Consolidation scenario with Material Master Data](#) (new added in MDG9.0)

For more information on SAP Master Data Governance 9.0, see the material located on [SDN](#) homepage.

2 Accessing the Solution

2.1 ABAP Application Server Details

Connect to SAP ZME system using the information in the table below.

For more information, how to connect to the Frontend Server, see [Connecting to a Solution Instance](#).

Name	Value	Description
SID	ZME	System ID of the SAP system
Instance Number	00	Instance number of the central instance of the SAP System
Username	MDG100-00 MDG100-01 MDG100-02 ... MDG100-30 MDG100-99	These are the standard users which you can use to access MDG scenarios. The DDIC user is also available here, and the password is the master password that you provided when you create the instance in SAP Cloud Appliance Library
Password	welcome	Please use this predefined password, and you could change it when you logon to the system.
MDG Clients	800 – MDG Hub 801 – ERP Client 900 – MDG Special process	These are the clients which are used in MDG scenarios

2.2 Database Server Details

Connect to SAP HME using the information in the table below.

For more information, how to connect to the Frontend Server, see [Connecting to a Solution Instance](#).

Name	Value	Description
SID	HME	System ID of the SAP system
Instance Number	50	Instance number of the central instance of the SAP System
DB SID	wdflbmt7079, instance: 50	System ID of the database of the SAP system
DB Type	HDB	Type of the database
Username	SYSTEM SAPZME DBACOCKPIT	These are the standard users which you can use to access the database server.
Password	<Master Password>	The initial master password of the system you provided in the SAP Cloud Appliance Library when creating the instance.
Username	MDG100_00 MDG100_01 MDG100_02 ... MDG100_30 MDG100_99	These are the standard users which you can use to access the MDG scenarios.
Password	welcome	Please use this predefined password

2.3 OS Users and Groups

Name	Description
zmeadm	SAP system administrator, the password is the master password that you provided when you create the instance in SAP Cloud Appliance Library
hdbadm	SAP database administrator, the password is the master password that you provided when you create the instance in SAP Cloud Appliance Library
sapsys	Group containing all <SID>adm users (should be a group in a central user storage like LDAP, NIS, or Active Directory)
sapadm	SAP host agent , the password is the master password that you provided when you create the instance in SAP Cloud Appliance Library

Note: There are special names are used in the system URL because of system setting reuse of SAP existing landscape, so please be aware that this does NOT really connect to SAP network

2.3.1 Accessing Your Instance on OS Level

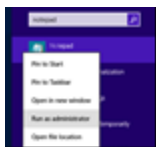
For information how to access a solution on OS level, go to [this FAQ wiki page](#) and check this question: How to connect to a running instance via the secure shell protocol (SSH)?

2.4 Connecting to Your Solution

Mapping local /etc/hosts file

In order to logon to web access, as for example the Fiori Launchpad from your local PC, you need to ensure that you have mapped the IP address to the Hosts file on your local PC:

Open *Notepad* as administrator (search for *Notepad* on your computer, right mouse click, 'Run as administrator'):



Click *File* -> *Open* and enter the following path:

For Windows operating system: `c:\windows\system32\drivers\etc\hosts` For Linux operating system: `/etc/hosts`

Ensure to select *All Files (*.*)*

Open the *hosts* file, enter the following lines in the hosts file (the IP addresses for the two servers are displayed in the CAL console in the instance properties) :

MDG9.0

<IP Address SAP MDG9.0 Instance / HDB server> zmetdc00 zmetdc00.wdf.sap.corp wdfbmt7079
wdfbmt7079.wdf.sap.corp

Save the *hosts* file and exit.

Add System to SAPGUI Logon

From your SAP logon create a new SAP GUI entry with the IP of your MDG instance on instance number 00, system ZME and client 800

System Entry Properties

Connection Network Code Page

Choose the connection type and change the system parameters as required. Delete the old description if you want the system to propose a description. Button **OK** is only active when all required input data has been entered.

Connection Type: Custom Application Server

System Connection Parameters

Description: ZME_MDG_CAL

Application Server: 10.97.164.73

Instance Number: 00

System ID: ZME

SAProuter String:

OK Cancel Help

Logon and launch NWBC HTML

When you logon ZME with user e.g. MDG100-01, you could click 'Launch NWBC' from Favorites to access all MDG domain roles e.g.

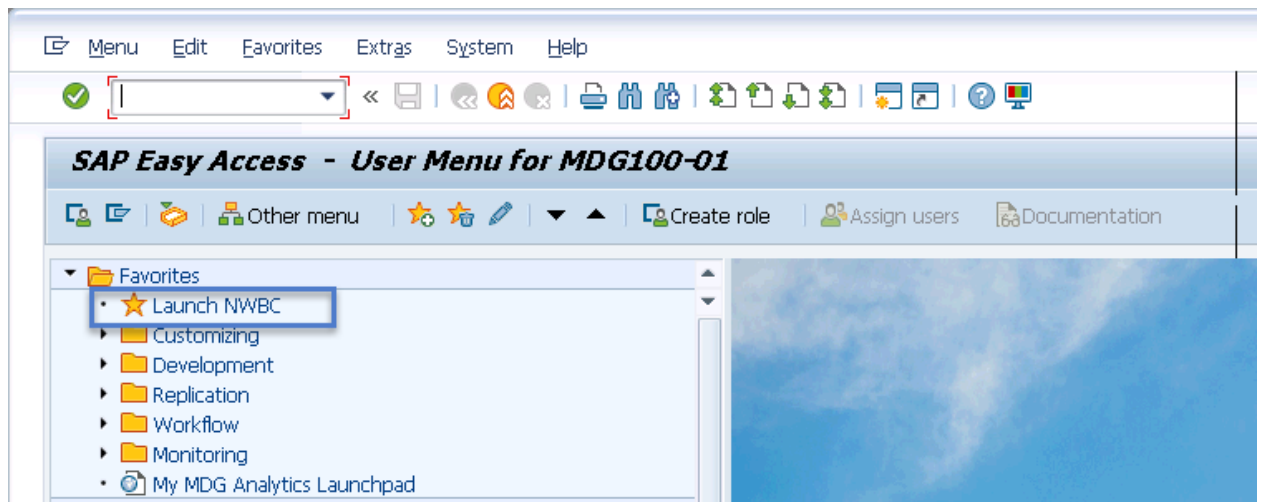
SAP_MDGM_MENU_06 for MDG Material

SAP_MDGS_MENU_04 for MDG Supplier

SAP_MDGC_MENU_04 for MDG Material

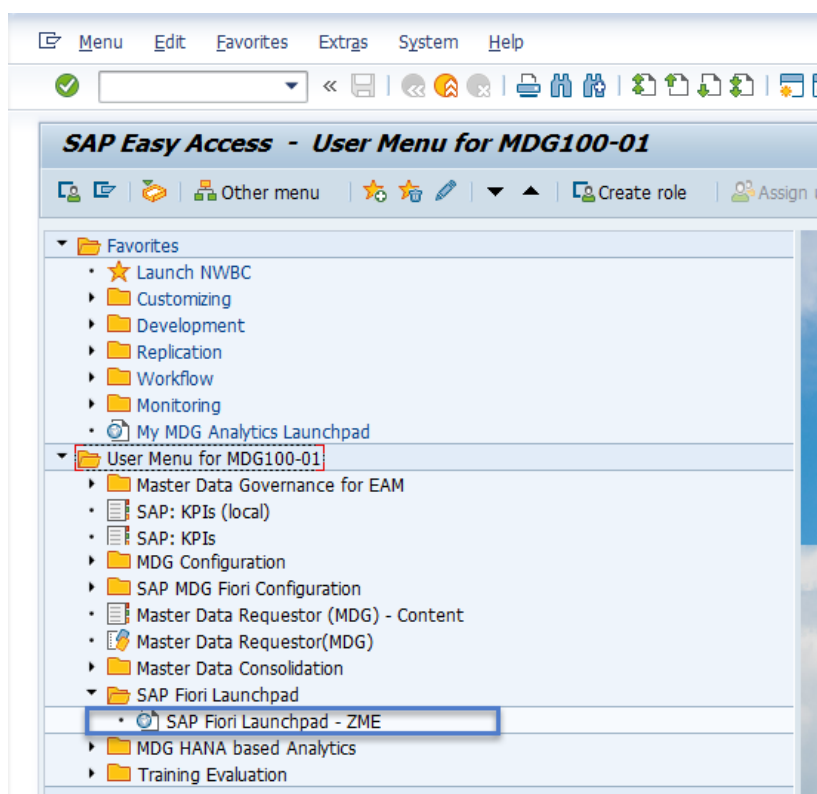
SAP_MDGF_ACC_MENU_04 for MDG Financials – FI Accounting

SAP_MDGF_CTR_MENU_04 for MDG Financials – FI Controlling

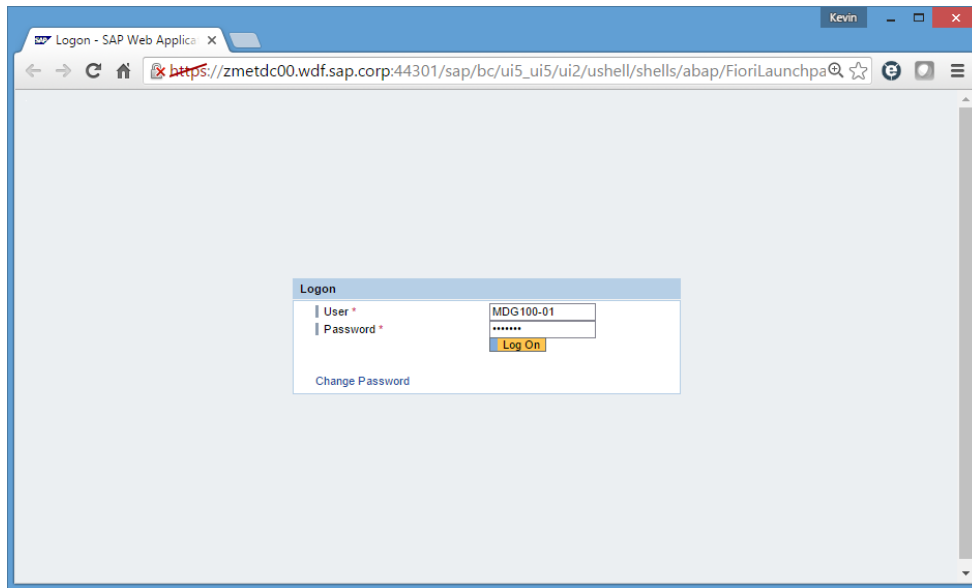


Launch the Fiori Launchpad

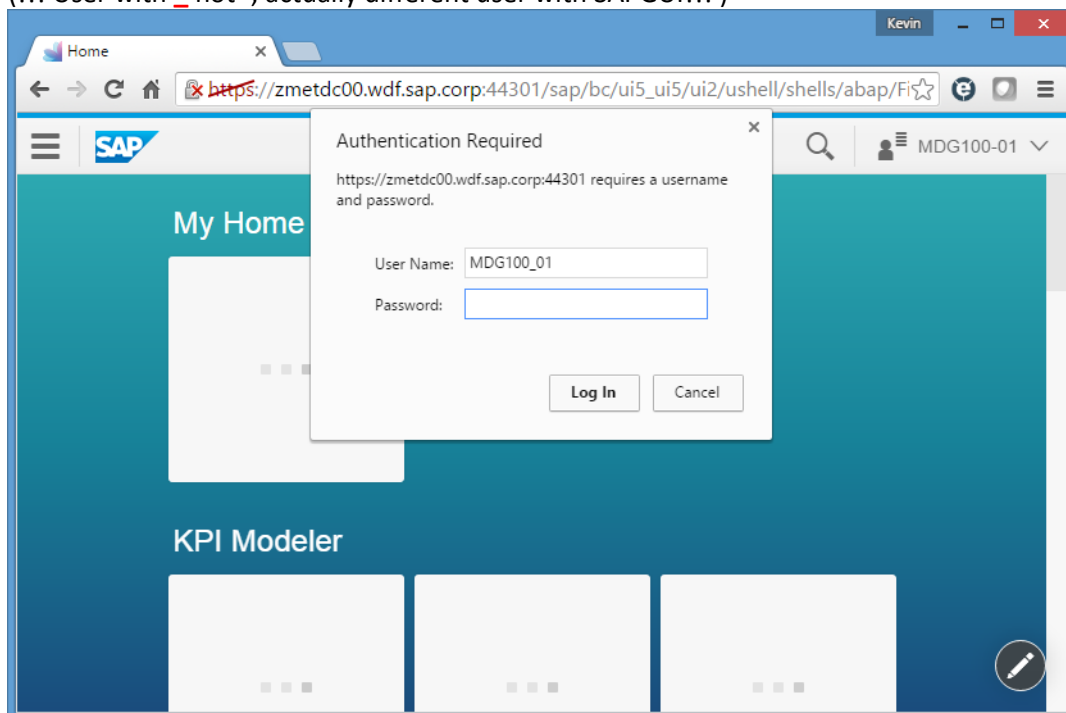
You could open Fiori Launchpad from the menu



On the opened window, you are asked for user and password, please login with same user e.g. MDG100-01 to login ZME



Now you are asked again for a backend user in HANA DB, then please enter user e.g. MDG100_01 (!!! User with _ not -, actually different user with SAPGUI!!!)



3 Licenses

3.1 Running Solution as a Trial for a Free Period

This solution can be used with a Free Trial License Agreement for the configured free period. You will be asked to agree to the Free Trial License Agreement during the instantiation steps.

Once you create the solution instance, the SAP system will generate a temporary license key that is sufficient for exploration purpose. After the expiration of the pre-installed temporary license a valid license is required to keep using the solution instance.

Note that you are not allowed to install license keys under the Free Trial License Agreement. You can continue the solution with the Product License Agreement any time prior to the end of the free period by unlocking it.

3.2 Running Solution with a Product License Key

To use the instance created from this solution under your own SAP Product License Agreements, you have to unlock the solution in SAP Cloud Appliance Library. As a prerequisite you must own the required SAP Product licenses and need to purchase the SAP Cloud Appliance Library subscription package. For more information, see [Unlocking Solutions](#).

3.3 License Key Installation

After unlocking the solution, you need to apply a valid license key to it. For this solution you have to request and install the following license keys:

SID	Product	Version	DB	OS	Comment
HDB	SAP HANA, platform edition	1.0	n/a	Linux	Recommended quantity is 256 GB Main Memory
ZME	SAP ERP	6.0	SAP HANA	Linux	

To check the Product and the Version for your solution, go to the SAP License Keys application:

<https://launchpad.support.sap.com/#/licensekey>

For more information about how to request and install product license keys, see [this blog](#).

4 Security Aspects

Be aware that creating your instances in the public zone of your cloud computing platform is convenient but less secure. Ensure that only port 22 (SSH) is opened when working with Linux-based solutions and port 3389 (RDP) when working with Windows based solutions. In addition, we also recommend that you limit the access to your instances by defining a specific IP range in the Access Points settings, using [CIDR notation](#). The more complex but secure alternative is to set up a virtual private cloud (VPC) with VPN access, which is described in [this tutorial on SCN](#).

The list below describes the ports opened for the security group formed by the server components of your solution instance:

To access back-end servers on the operating system (OS) level, use the following information:

Protocol	Port	Description
SSH	22	Used for SSH connection to Linux-based servers
RDP	3389	Used for RDP connection to Windows based servers
HTTP	50000	Used for MDG Webdypro Applications
HTTPS	44301	Used for MDG Fiori Launchpad
SAPLOGON	3200	Used for MDG Applications
SAP Hana SQL Port	35015	Used for HANA Studio

You must change the initial user passwords provided by SAP when you log onto the system for the first time.

Note that when using **HANA based appliances**, HANA systems are not installed individually but **cloned from a template system**. As a consequence of this cloning process, the existing root keys are cloned. For more information, see this [SAP Note 2134846 - HANA encryption key handling during system cloning](#).

For more information about security vulnerabilities, see this [community page](#).

5 Solution Provisioning in SAP Cloud Appliance Library

If you have a user in SAP Cloud Appliance Library, you need to meet the following prerequisites before starting to use the SAP Cloud Appliance library:


- Cloud Provider Configurations

You have a valid account in one of the cloud providers supported by SAP Cloud Appliance Library. If you already have an active cloud provider account, you can proceed directly with the next section. Otherwise, navigate to the cloud provider home page and sign up.

For more information about the supported cloud providers, see the [FAQ page](#).

- Navigate to SAP Cloud Appliance Library

Open the SAP Cloud Appliance Library in your Web browser using the following link: <https://cal.sap.com>

For more information about how to use solutions in SAP Cloud Appliance Library, see the official documentation of SAP Cloud Appliance Library (choose [Support](#) → [Documentation](#) link and choose  (expand all) button to see all documents in the structure). You can also use the context help in SAP Cloud Appliance Library by choosing the [Help](#) panel from the right side.

6 Appendix

Installed Software Components

Name	Release	Support Package Stack
SAP_BASIS	750	0003
SAP_ABA	750	0003
SAP_GWFND	750	0003
SAP_UI	750	0006
ST-PI	740	0003
BI_CONT	757	0007
SAP_BW	750	0003
GRCFND_A	V1000	0011
IW_FNDGC	100	0005
LCAPPS	2005_700	0011
MDG_FND	750	0002
SAP_AP	750	0001
SAP_BS_FND	748	0002
WEBCUIF	748	0002
EA-IPPE	618	0000
MDG_APPL	620	0002
MDG_MDC	200	0002
MDG_UX	620	0002
SAP_APPL	618	0002
SAP_FIN	618	0002
SAP_HR	608	0021
SAP_HRCAE	608	0021
SAP_HRCAR	608	0021
SAP_HRCAT	608	0021
SAP_HRCAU	608	0021
SAP_HRCBE	608	0021

Name	Release	Support Package Stack
SAP_HRCBG	608	0021
SAP_HRCBR	608	0021
SAP_HRCCA	608	0021
SAP_HRCCH	608	0021
SAP_HRCCL	608	0021
SAP_HRCCN	608	0021
SAP_HRCCO	608	0021
SAP_HRCCZ	608	0021
SAP_HRCDE	608	0021
SAP_HRCDK	608	0021
SAP_HRCEG	608	0021
SAP_HRCES	608	0021
SAP_HRCFI	608	0021
SAP_HRCFR	608	0021
SAP_HRCGB	608	0021
SAP_HRCGR	608	0021
SAP_HRCHK	608	0021
SAP_HRCHR	608	0021
SAP_HRCHU	608	0021
SAP_HRCID	608	0021
SAP_HRCIE	608	0021
SAP_HRCIN	608	0021
SAP_HRCIT	608	0021
SAP_HRCJP	608	0021
SAP_HRCKR	608	0021
SAP_HRCKW	608	0021
SAP_HRCKZ	608	0021
SAP_HRCMX	608	0021
SAP_HRCMY	608	0021
SAP_HRCNL	608	0021
SAP_HRCNO	608	0021

Name	Release	Support Package Stack
EA-HRCBE	608	0021
EA-HRCBG	608	0021
EA-HRCBR	608	0021
EA-HRCCA	608	0021
EA-HRCCH	608	0021
EA-HRCCL	608	0021
EA-HRCCN	608	0021
EA-HRCCO	608	0021
EA-HRCCZ	608	0021
EA-HRCDE	608	0021
EA-HRCDK	608	0021
EA-HRCEG	608	0021
EA-HRCES	608	0021
EA-HRCFI	608	0021
EA-HRCFR	608	0021
EA-HRCGB	608	0021
EA-HRCGR	608	0021
EA-HRCHK	608	0021
EA-HRCHR	608	0021
EA-HRCHU	608	0021
EA-HRCID	608	0021
EA-HRCIE	608	0021
EA-HRCIN	608	0021
EA-HRCIT	608	0021
EA-HRCJP	608	0021
EA-HRCKR	608	0021
EA-HRCKW	608	0021
EA-HRCKZ	608	0021
EA-HRCMX	608	0021
EA-HRCMY	608	0021
EA-HRCNL	608	0021

Name	Release	Support Package Stack
EA-HRCNO	608	0021
EA-HRCNZ	608	0021
EA-HRCOM	608	0021
EA-HRCPH	608	0021
EA-HRCPL	608	0021
EA-HRCPT	608	0021
EA-HRCQA	608	0021
EA-HRCRO	608	0021
EA-HRCRU	608	0021
EA-HRCSA	608	0021
EA-HRCSE	608	0021
EA-HRCSG	608	0021
EA-HRCSI	608	0021
EA-HRCSK	608	0021
EA-HRCTH	608	0021
EA-HRCTR	608	0021
EA-HRCTW	608	0021
EA-HRCUA	608	0021
EA-HRCUN	608	0021
EA-HRCUS	608	0021
EA-HRCVE	608	0021
EA-HRCZA	608	0021
EA-HRGXX	608	0021
EA-HRRXX	608	0021
EA-PS	618	0001
EA-RETAIL	618	0001
FINBASIS	748	0001
FSCM_CCD	618	0001
AIN	710	0014
CODERINT	600	0007
CPRXRPM	610_740	0006

Name	Release	Support Package Stack
DMIS	2006_1_700	0024
ECC-DIMP	618	0002
ECC-SE	605	0014
ERECRUIT	617	0009
FI-CA	618	0002
FI-CAX	618	0002
FLDQ	440_740	0004
GBTRINT	100	0012
INSURANCE	618	0001
IS-CWM	618	0001
IS-H	618	0001
IS-M	618	0001
IS-OIL	618	0001
IS-PRA	618	0001
IS-PS-CA	618	0001
IS-UT	618	0001
IW_SCS	200	0011
LSOFE	617	0008
MDM_TECH	710_700	0012
PLMWUI	748	0001
SEM-BW	748	0001
SFIHCM01	600	0010
SLL-LEG	901	0020
SLL_PI	800_604	0024
WFMCORE	200	0024
NMI_CONT	2006_1_700	0021
UIMDC001	200	0000
UIMDG001	200	0001
UISAFND1	100	0002
EIO	600_200	0000
FCCO	200	0006

Name	Release	Support Package Stack
MRSS	800	0006
MRSS_NW	800	0006
NAKISA	210_701	0000
PERSOS	200	0003
ST-A/PI	01N_700ECC	0001
UGI	730	0001
UGI1	730	0001
UGI3	730	0001
UGIEAMUI	730	0001
UGIOD01	730	0001
VIRSACCS	200_700	0003
VIRSAHR	530_700	0009
VIRSANH	530_731	0002



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